Thesaurus siluricus: the flora and fauna of the Silurian period: with addenda (from recent acquistions) / by John J. Bigsby.

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THESAURUS SILURICUS.

THE

FLORA AND FAUNA

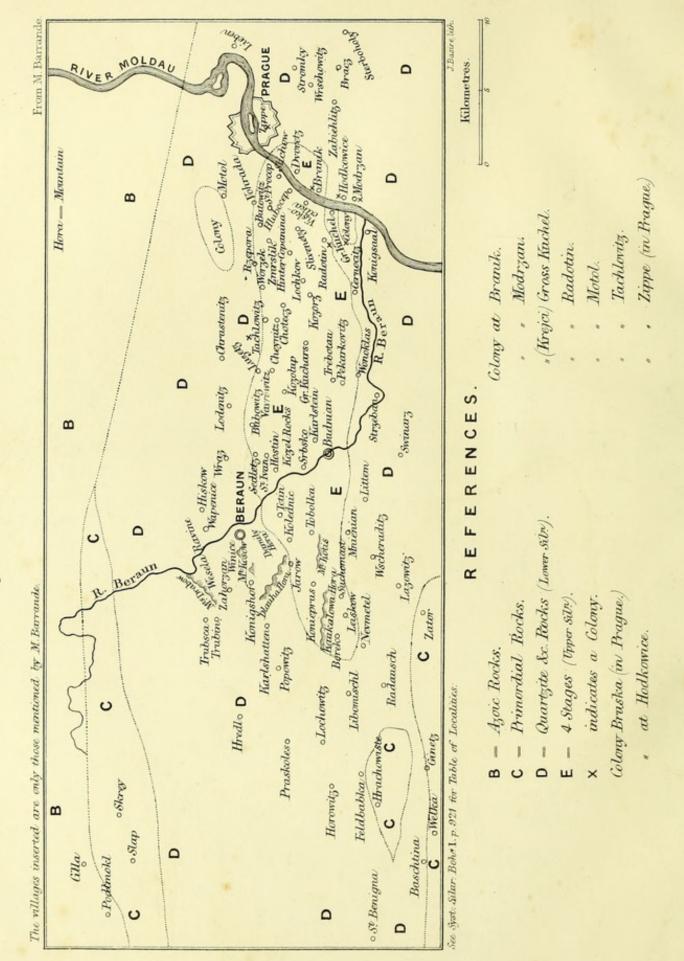
OF THE

SILURIAN ERIOD.



THE SILURIAN BASIN OF BOHEMIA, (IN PART)

representing the principal fossiliferous localities.



THESAURUS SILURICUS.

THE

FLORA AND FAUNA

OF THE

SILURIAN PERIOD.

WITH

ADDENDA

(FROM RECENT ACQUISITIONS).

BY

JOHN J. BIGSBY, M.D., F.G.S.,

FORMERLY BRITISH SECRETARY, CANADIAN BOUNDARY COMMISSION; MEMB. AMER. PHILOS. SOC. PHILAD.; CORRESPONDING MEMB. ACADEMIES OF NAT. SCIENCES, PHILAD. AND ST. LOUIS; OF THE LYCEUM, NEW YORK. HONOR. MEMB. ROYAL BOHEMIAN MUSEUM, PRAGUE.

"The boldest and happiest generalizations must depend on details."—Dean Conybeare.

LONDON:

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MDCCCLXVIII.

The Author begs to thank the Royal Society for a grant of One Hundred Pounds in aid of the publication of this work, on the condition that the Royal Society receive One Hundred Copies for distribution among its Foreign Members, and those of the Geological Society of London.

SIR RODERICK IMPEY MURCHISON, BART., K.C.B.,

MEMBER OF THE INSTITUTE OF FRANCE, DIRECTOR-GENERAL OF THE GEOLOGICAL SURVEY OF GREAT BRITAIN AND IRELAND.

&c. &c. &c.

DEAR SIR,

I thank you for permission to dedicate the Thesaurus Siluricus to you. It was a request equally natural to make and to grant.

I need not say that your kind approval of the execution of this humble but laborious work is of the greatest value to me.

The enjoyments of elegant life you early chose to abandon, preferring to wander for many successive years over the rudest portions of Europe and Asia—regions new to Science—in the hope, happily realized, of winning new truths.

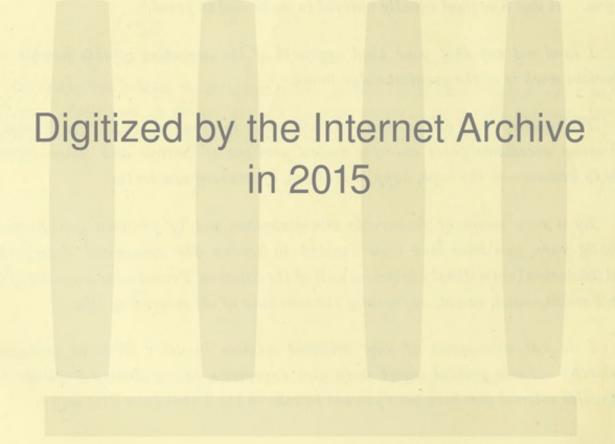
By a rare union of favourable circumstances, and of personal qualifications equally rare, you have thus been enabled to become the recognized Interpreter and Historian (not without illustrious aid) of the Silurian Period—the grandest of all the Periods,—and, as yet, apparently the seed-time of all succeeding life.

I do not now speak of your brilliant services in other fields of geological research: my sole present object is to give expression to my abiding gratitude for the active interest you have been pleased to take in the Thesaurus Siluricus.

I am, dear Sir,

Respectfully and faithfully yours,

J. J. BIGSBY.



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PREFACE.

This attempt to exhibit in a clear and concise form the leading features of Silurian life has arisen from my own deeply felt want of such a record or muster-roll of the constituent members of this early portion of extinct Zoology—a great and varied zoology, prophetic of the grand outlines of all succeeding organic beings, and unequalled in magnitude and other points of interest.

This has been rendered a favourable moment for such an undertaking by recent publications of singular value, but which are difficult of access.

The new facts they contain may now be added to the accumulations of the last thirty years, brought together by the highly meritorious labours of private individuals, and especially by the Professors and Students of Colleges in many parts of the world.

But the largest contributions have come from public surveys, in North America especially. These surveys have been conducted by men of great ability and zeal. When, therefore, a national exploration has been set on foot, the effect has always been, in an extraordinary degree, that sterility in facts mineral and organic has become abundance, and obscurity has been exchanged for light.

As there is here required not only a common acquaintance with Silurian life, but also an exactitude and a critical skill in palæontological determinations much beyond the ordinary student, I obtained, after my materials were well put together, the very valuable aid of Mr. J. W. Salter, late Palæontologist to the Museum of Practical Geology. I was then, through the kindness of Sir R. I. Murchison, Bart., K.C.B., allowed to submit my manuscript to Robert Etheridge, Esq., F.R.S.E., the present Palæontologist to the Institution over which Sir Roderick presides with so much father-like wisdom.

To the continued superintendence of these eminent naturalists I am indebted for corrections and suggestions of the greatest value, and particularly as relates to Britain and the Old World.

My matter has been principally found in the voluminous and truly priceless writings of Angelin, Barrande, Billings, Davidson, De Verneuil, Eichwald, Hall, M'Coy, Murchison, Phillips, Portlock, Salter, Sedgwick, Shumard, Sowerby, and many other authors of scarcely inferior merit *.

My best acknowledgments are due to Sir Roderick Murchison for the fourth edition of "Siluria": much new information has been derived from it.

I have been favoured with many unpublished contributions from my friends Mr. Billings (the learned Palæontologist of the Canadian Geological Survey) and Principal Dawson, F.R.S., Montreal.

Also, through the kindness of Mr. Salter, large additions have been received from Col. Strachey (Himalayas, E. I.), from Dr. Milligan (West Tasmania), from Henry Hicks, Esq. (South Wales), and from the late Mr. Wyatt-Edgell of the 13th Regiment of Infantry.

In regard to the obligations conferred on me by M. Joachim Barrande, silence, were it possible,

* Agassiz, Belt, Beyrich, Bronn, Brongniart, Carruthers, Conrad, Dalman, D'Orbigny, Vicomte d'Archiac, Dawson, Emmerich, Emmons, Fischer, E. Forbes, Goldfuss, Green, Harkness, Hisinger, Haime, Honeyman, T. Rupert Jones, Ketley, Kutorga, Lawrow, Linnæus, Lovén, Lonsdale, Marcy, M'Chesney, Meek, Meneghini, Milne-Edwards, Morris, Nicholson, Owen, Pander, Römer, Rouault, Sars, Safford, Shaler, Sharpe, Swallow, Triger, Vanuxem, Von Buch, Volborth, Wahlenberg, Winchell, &c.

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would be a happy escape from the vain attempt to express them. How can the gift of more than 2000 Molluscan species, determined by the first palæozoic naturalist of the age, be worthily acknowledged? M. Barrande will be fully content to find his reward in any usefulness of the work he has so largely benefited.

Under the head of "authorities quoted," there will be placed in the Appendix a list of books and memoirs employed in building up this general view of Silurian life, to which, accordingly, has been given the name of "Thesaurus Siluricus."

As long as an individual Mollusk remains unregistered it loses a great part of its usefulness in natural history; and we remain ignorant of its place in Creation; but even then it may reveal an important fact—just as the Trilobite speaks of the Palæozoic period, and the Nummulite of the Tertiary.

Until some such record as the present is available, the labours of investigators (many of the greatest are still rejoicing us with their presence) will rest comparatively fruitless.

It has hitherto not been possible to contemplate widely scattered existences in the aggregate. Many facts have been stored up separately, but generalized truths rarely attained. The work now undertaken has not been yet done for any one epoch—not even for the Cretaceous period by Mr. Gabb of California, although he has done much and well.

The elaborate and highly valuable labours of Mr. Etheridge in this direction, on the Jurassic Fauna and Flora, I am happy to say are only waiting for the printer. There are Societies in London who would do themselves great honour by undertaking their publication.

The Thesaurus Siluricus deals principally with the external circumstances of the Mollusca, and is in the form of a Table. The different subjects are taken alphabetically. After registering a genus of the Order under consideration, with its author, and the date of its establishment, the species, few or many, are successively named and treated under four or more heads, along one and the same ruled line. First comes the subdivision of the stage in which it occurs; then, in a given order, its author, and locality, in the column indicative of its proper stage. Immediately at the commencement of this Table is placed the stratigraphy of the principal countries concerned, together with an explanation of the abbreviations used in the Table.

From this seemingly unattractive catalogue of existences the reader has it in his power to people a multitude of localities and horizons with groups of life as picturesque, and as full of movement, as those which Charles Darwin found in the Straits of Magellan: such groups or communities are plentiful in the palæozoic strata of New York, Wales, Bohemia, &c.

Besides the use of the 'Thesaurus' for reference in the closet and the quarry, it furnishes a vast body of facts leading to generalizations in vital statistics; it provides a high station from which the student may descry the Silurian populations of the whole earth, as far as they are now known. It assists in tracing the extent, shape, and varying depths of basins. By its aid we compare remote horizons, detect regional affinities and differences, and, moreover, we note the curious changes of many kinds which take place while the epoch is passing through its succession of ages. It will place under examination numberless communities of life, their constituents, wants, habits, migrations, duration, and extinction. The attention of the student is particularly directed to the geographical summaries of life appended to some of the orders.

The "Thesaurus" contains 8997 species, and therefore is an ample field of study; but it probably does not tell us of one tenth part of the Silurian life still lying buried in Arctic, Subarctic, and Southern America, in Northern Europe, Australia, India, and many other regions. What a splendid promise to the future explorer!

FACTS AND OBSERVATIONS.

Having deemed the completeness and accuracy of the 'Thesaurus' itself to be beyond all comparison my principal duty, and having found this to be a labour, however agreeable, not a little protracted, it has become impossible in the following pages to present more than a simple analysis of a few Silurian orders, and some of the more obvious facts and inferences to be derived from the body of the work. Those, it is trusted, have their interest, and will invite a broader, more leisurely, and more able study than is in my power to bestow. The subjects will fall under the following heads:—

- 1. The Gasteropoda.
- 2. Trilobita.
- 3. Echinodermata &c.
- 4. The Primordial Stage.
- 5. The Bohemian Area.
- 6. Universality.

- 7. Locality.
- 8. First appearance.
- 9. Duration or longevity, and extinction.
- 10. Migration.
- 11. Recurrence.
- 12. Divergence.

Before proceeding to treat on these subjects, it is encouraging to contemplate the progress of Silurian Palæontology during the last twelve years, as shown in Table A.

TABLE A.

Silurian Life.	Plantæ.	Amorphozoa.	Foraminifera.	Cœlenterata.	Echinodermata.	Annelida.	Cirripedes.	Trilobita.	Entomostraca.	Polyzoa.	Brachiopoda.	Monomyaria.	Dimyaria.	Heter -Pteropoda.	Gasteropoda.	Cephalopoda.	Pisces.	Class uncertain.	Total.
Prize Essay, 1856	18	19		168	93	10		425	8	76	579	14	151	63	151	299	10	9	2093
Thesaurus, 1868	82	136	25	507	500	154	8	1611	318	441	1650	168	541	358	895	1454	37	12	8897

This Table is taken from the late Prof. Bronn's well-known and truly admirable Prize Essay of 1856, and from the present work. It shows that within the last twelve years the number of known, well-determined species has been more than quadrupled—opening to the naturalist nothing less than a new world of life.

Gasteropoda.—This class of Mollusks consists of 51 genera and 895 species. The geographical summary placed in the body of the Thesaurus contains much information which need not be repeated here.

Almost all tolerably examined Silurian countries are found possessed of Gasteropoda, but in very different proportions, and of very different kinds. This is in part dependent on the amount of search bestowed. If the results of a resolute search be small, we must, perforce, take for granted that the Gasteropoda are few. Their office is then performed by representatives.

The following little Table shows in a striking manner the several and extremely various amounts of Gasteropodal species found in some of the great Silurian districts of the earth.

For further matter see Thesaurus, p. 169.

Geographical Summary of Species.

Arctic America.	Wisconsin.	Iowa.	Ohio.	Tennessee.	Pennsylvania.	New York.	Canada West.	Anticosti Island.	Mingan Isles.	Newfoundland.	Nova Scotia.	Ireland.	England.	Wales.	Spain.	France.	Bohemia.	Sardinia.	Baltic Russia,	Russia proper.	Sweden.	Norway.	Silesia.	South Australia.	Tasmania.	North India.
7	25	13	3	14	9	152	100	41	25	39	8	60	65	77	4	3	244	2	51	38	27	13	5	7	13	9

A certain number of these species are repeated in more than one country; but the "repeats" cannot be removed without more time than is at my command. These numbers, therefore, sometimes represent appearances *, as defined. Incomparably the larger number of species appear, respectively, only in one area; nevertheless exceptions are common. Here are a few.

			C	Countries.	Countries	
Murchisonia bellicir	cta .			10	Euomphalus alatus 5	
Pleurotomaria umbi	licata			8	,, funatus 5	
Murchisonia bicinct	a			6	Holopella obsoleta 5	
,, gracilis				5	Cyclonema bilix 4	
,, perang	ulata			5	" trimarginatus 4	
" tricarii	nata .			5	Murchisonia articulata 4	
Platychisma helicite	s			5		

But going back to genera, Table B (below) shows that the eight following genera have the widest and most complete range; and it is great. The reason may be that the Gasteropoda are not nice in their food, that they can exist on several kinds of sediments, and frequent the moderate depth which allows of the freest travel.

TABLE B.

Genera.	Species.	Countries inhabited.	Genera.	Species.	Countries inhabited.
Pleurotomaria		34 30 21 17	Raphistoma Subulites Loxonema	19 20 32	20 17 13

Most of these countries are exceedingly large; so that for 171 species of *Pleurotomaria* to exist only in thirty-four countries would seem to imply moderate range; but many of these regions would well bear subdivision, when the apparent spreading would be greatly extended. The fossiliferous area (Silurian) of Canada alone is 60,000 to 80,000 square miles.

Of the 51 genera of this order, 19 are confined each to one district, which is very credible, seeing that 12 genera have only one or two species each. Among the other 32 genera there are degrees of dispersion. Taking the whole class, there are 894 species and 1254 appearances, or one quarter more appearances than species; but if we look down the list of individual genera, appearance and species are the same in 31; in other instances the former exceeds the latter by one half, one third, or one fourth—in *Murchisonia* by one third, in *Rhaphistoma* and *Platychisma* by one half. Trilobites are liable to a smaller amount of dispersion than this.

The specific appearances of the Gasteropoda are 658 in the Old World and 595 in the New World, the former number being greatly increased by M. Barrande's discoveries in the Prague area.

Twenty-two genera, and nine or ten species, are common to Europe and America, the species ‡ of course being greatly in the minority. As to the increment and decrement of species in time, every large area must have its own; but there is a common feature almost everywhere, such as we see in the following Table, which exhibits the British Silurian Gasteropoda in their rise and decline.

- * By the word "appearance" is meant, in these pages, only the presence in any area of a particular species or genus which may or may not exist elsewhere. One species may, and often does, make many "appearances;" for example, Orthis sericea is in many areas. "Appearance" applies to horizons as well as to areas.
- † The United States of America (latitude 40°-42°) and Bohemia are both very strong in Acroculia; there are 47 species in each.
- † They are:—Clyclonema ventricosa, New York and Wales; Euomphalus angulatus, Pennsylvania, Norway; Murchisonia angustata, Wisconsin, Wales; M. bellicincta, New York &c., Silesia, Scotland; M. tricarinata, New York &c., Sardinia; Ophileta compacta, New York &c., North Scotland; Raphistoma lenticularis, New York &c., Wales &c.; R. qualteriata, Labrador, Russia, &c.; Subulites elongatus, Canada, Esthonia; Trochus helicites, Nova Scotia, England.

Table C.—Progress in British Gasteropoda.

Primordial.	Llandeilo.	Caradoe.	Llandovery.	Wenlock.	Lower Ludlow.	Upper Ludlow.	Passage-beds.	Total.
2	7	34	35	17	23	.10	2	130

We here begin and end with two species, or more truly with four different species; but the majority of the Gasteropoda are about the middle of the mass of beds, as is usual. The Llandovery beds become rich by borrowing six species from the lower stage. The names of the species referred to in the above Table can be had by reference to Murchison's 'Siluria,' 4th edition, pp. 531 &c.

In so extraordinarily rich a district as Central Bohemia it is worthy of notice that out of the whole fifty-one genera of this order it has only twenty-three, and these are poor in species. It is, however, the richest area of all, England coming next, with twenty genera; one only in common, Acroculia.

The interesting Table D, here subjoined, exhibits the proportions in which the species of the Gasteropoda are found in the four stages of the Silurian epoch, according to our present knowledge.

TABLE D.

Genera. General Stage.	Lower Stage.	Middle Stage.	Upper Stage.	Genera,	Primordial Stage.	Lower Stage.	Middle Stage.	Upper Stage.	Genera.	Primordial Stage.	Lower Stage.	Middle Stage.	Upper Stage.
Acroculia 3 Calyptræa 3 Carinaropsis Cerithium Chiton 5 Chiton 6 Cirrus 6 Clicodora 7 Clisospira 2 Cyclonema 1 Delphinula? 1 Dentalium 1 Eurema 1 Euomphalus 3 Gyrotrema 1 Helicotoma 7 Holopæa 5	12 6 1 2 6 21 3 5 25 8 21	3 1? 1 9 	106 2 1 7 11 7 11 43 5 12	Brought forward Holopella Hormotoma Litorina Loxonema Macrocheilus Metoptoma Murchisonia Natica Naticella Ophileta Patella Phasianella Pilidion Platychisma Platyostoma Pleurotomaria Porcellia	11 24 12 	110 5 2 1 2 2 15 51 5 6 1 73 1	25 8 2 1 20 1 1 1 1 1 1 1 1 1 1 1 1 1	197 . 7 	Brought forward Raphistoma Rotella Scalites Scoliostoma Siphonaria Stomatella Straparollina Straparollus Strophostylus Subulites Trochonema Trochus Tubina Turbo Turritella Vermetus?	3 1 1 1 2 1 2 	280 14 3 4 9 7 3 1 7 1 3 3	74 2	356 5 1 1 1 2 6 2 1 16 7 28 2 2 2 430

There are several things worthy of notice in this Time-table of the Gasteropoda. The species augment with the progress of the epoch, those of the upper stage being nearly four times as many as the Primordial. The poverty observed in the Middle Silurian is due to well-known circumstances, and is incident to almost all areas.

We have in the Primordial stage 121 appearances, which are, except eight, all distinct species. Only one of these species passes into a higher stage, the *Pleurotomaria Progne* (also of Black-River and Trenton Limestones).

The genera in the four stages we have adopted are in number 19, 17, 3, and 12 respectively; and the species, taken in like succession, are 113, 329, 85, and 430.

That the very earliest phase of this epoch should contain so large a body of Gasteropoda implies a large amount of maturity in the conditions of the time, as well as of adaptation of organic structure. We also find them even then associated with Cephalopoda of high rank, such as Clymenia and Orthoceratites; while the Gasteropoda maintain themselves vigorously, with organs of great power. We must, perforce, be greatly struck by this outburst of new and complex forms of life after an apparently long arrest of creative energy. (See p. xx, on the Primordial Stage.)

Nearly all of these many Primordial Gasteropoda are natives of North America, the exceptions being only five, i.e. Ophileta compacta and Euomphalus matutinus in N.W. Scotland, Acroculia Cantabrica, A. sp. ind. of Spain, and Helicotoma Anglica from South Wales. Bohemia has not a single Primordial Gasteropod, remarkably numerous though they be higher up. Only two small genera stop within the Primordial beds; most of the others pass, in the form of new species, freely up to the summit of the epoch.

The Table E, subjoined, shows the comparative numbers with which the species of this class people the sediments of the Silurian epoch.

Table E.

		No. of Species.	Siliceous Grit.	Siliceous Sandstone.	Argillaceous Sandstone.	Calcareous Sandstone.	Calcareous-argil- laceous Sandstone.	Mudstone.	Argillaceous-cal- careous Shale.	Argillaceous Limestone.	Pure? Limestone.	Number of Appearances.	
V	Vales*, 1858	84	11	14	18	32	24	14	13	27	5	158	

The appearance of the same species in more than one sediment (which has been called "divergence") is frequent in Wales; for eighty-four species make 158 appearances in more or fewer of the ten kinds of sediments of the Table; many frequent more beds than two. There are 115 appearances in calcareous beds, but only 43 in non-calcareous beds. We see very few Gasteropoda in limestone which is pure, or nearly so; and this holds good with most other Silurian Mollusca.

In the State of New York the preference of Gasteropoda for sediments containing some lime is eight times as strong as for non-calcareous beds †; that is, out of ninety-three Gasteropoda, eighty-three are in calcareous beds.

Of the ninety-seven Silurian Gasteropoda known in Britain and Ireland in 1868, twenty species are recurrent; but six of these are only transferred from the Llandovery stage to the Wenlock. *Euomphalus sculptus*, however, and *Platychisma simulans* are in four stages (Caradoc, Llandovery, Wenlock, Ludlow); *Euomphalus funatus* and *Holopella cancellata* are in three, the rest being only in two stages and thus indicating a weak power of recurrency.

TRILOBITES.—Of the 119 genera which form this order, 74 make their first appearance in the Primordial stage of the epoch, and they present at one period or other of their existence 998 species, as we are taught by the 'Thesaurus.'

These Primordial genera are nearly two-thirds of all those contained in Silurian beds. Forty-six of these genera never leave this the earliest of the four stages. Not one of their 235 species is seen in Caradoc, Pleta, Trenton, or any other part of the epoch; but twenty-seven genera push upwards, and always by new species, leaving the old ones behind. These genera in their transit through the successive stages become exceedingly rich in species, and several are rich within the Primordial limits (Bathyurus, Agnostus, Olenus, Dikelocephalus, &c.).

A Primordial species usually has a considerable vertical range within its native stage, and there only.

The Primordial Trilobites vary in amount and kind with the country examined, and not so

^{*} See Murchison's 'Siluria,' 4th edition.

[†] Journ. Geol. Soc. Lond. vol. xv. p. 308.

much in accordance with the size of the country as with the original impress of the Creator and with the nature of the strata. We already have materials from almost all parts of the Silurian scale of rocks to show, with some force (M. Barrande), that life began earlier and more abundantly in the valleys of the St. Lawrence and Mississippi than in Europe. Thus the Primordial Trilobites of these valleys comprehend 208 species, in 40 genera, and very much assembled in two broad quasifoci, Wisconsin being one, and parts of Lower Canada the other. In Sweden there are in this stage 56 species, in 18 genera; in Great Britain and Ireland, 33 species, in 11 genera; in Bohemia, 28 species, in 8 genera; space has little to do here.

The influence of the Primordial stage on molluscan life, the abundance and typical forms of its species, cannot well be over-estimated and reflected upon.

The dates of the appearance and disappearance of all the Silurian Trilobites, together with their facies stage by stage, their increment and decrement, should now follow; but as this is not a monograph, and is intended to be an invitation to labour rather than a completed task, all mention of them will be omitted. For Prague and its environs this has been done admirably.

The number of species now known and registered is 1677, and their appearances in the several regions are 2169, the former being rather less than four-fifths of the latter. The difference (492 appearances) becomes the measure of their dispersion; and it is less than that of most of the molluscan orders of this period.

Very unexpectedly the species of this order in North America are much fewer than in Europe, being only about one-third of the whole. This may, by possibility, arise from the prevalence of sandstone over limestone in North America. In New York State the limestones are only 600 feet thick, but the sandstones are 3000 feet thick; and there is little reason to think things are different in other parts of that continent. In both cases neither the superficial areas nor the research bestowed upon them differ much.

The geographical summary here subjoined gives the number of species of Trilobites found in each of the forty-eight districts, as far as is known. To most of the areas interesting details are attached, which are to be found in the 'Thesaurus' and elsewhere.

The totals of species and appearances in America and Europe are inserted separately.

AMERICA. Bolivia, South Amer. Number of Species. Total Appearances Dacota Territory. New Brunswich Rupert's Land. Appearances Massachusetts. Pennsylvania. Canada West. Canada East. Mingan Isles. Nova Scotia. (Specific). Wisconsin. New York. Tennessee. Kentucky. Vermont. Labrador. Virginia. Missouri. Indiana. Texas. Ohio. 1 14 2 9 2 10 11 4 14 73 39 104 17 2 1 12 23 15 5 58 540 EUROPE &c. Number of Species. Harz (Thuringia). Fotal Appearances (Europe &c.). Russia (Proper) Appearances Baltic Russia. Specific). Bohemia. Australia. Portugal. Bayaria. Norway. Scotland England. Belgium. Sardinia. Podolia. Sweden. Ireland. France. Silesia. Wales. Spain. India. 404 20 44 160 208 49 47 17 1 29 10 70 104 279 60

TABLE F.—TRILOBITA (Geographical Summary).

The great total for both hemispheres is 1677 species.

We know 57 American genera; of these 16 belong exclusively to that hemisphere; while the European genera are 118, 69 of these being never seen out of that quarter of the globe. Some genera have many species, more abundantly than the Echinodermata, but much less so than the Gasteropoda, and still less than the Cephalopoda. *Phacops* has 96 species, *Illænus* 92, *Asaphus* 90, *Lichas* 79, *Cheirurus* 77, &c. Thirty-one genera have each only one species; and they never leave their native area, save in one instance (*Polyeres*, Bohemia, France).

Forty-one genera are only seen in one country or area respectively, although each may have three, four, or six species, their associated genera meanwhile spreading far and wide. A curious example of wide diffusion we have in the genus *Cromus*, which has been met with in Bohemia, the Arctic seas of America, and in Belgium.

The largest genera have been subject to the widest dispersion. Thus *Dalmania* is seen in twenty-one separate regions, *Lichas* in twenty-four, *Phacops* in twenty-five, *Cheirurus* in twenty-six, *Illænus* in twenty-eight, and *Calymene* in twenty-nine. *Isotelus* with seven species occupies fourteen countries*.

It is to be feared that no general conclusions can be made from these facts until we know more of the physiological conditions of these animals. Some rich genera are very local, such as Cyrtometopus, Bathyurus, Dikelocephalus, Dionide. The sixty-one species of Proetus are each typical of one area, except Proetus concinnus, P. latifrons, P. Stokesii. Only three of the Primordial genus Conocoryphe are in two countries:—C. coronata, Spain and Bohemia; C. depressa, Wales and Texas (U. S. A); C. minuta, New York and Wisconsin. Twenty of the species belonging to this genus are in Wisconsin, eleven in Wales, and the rest are scattered. The species of Bronteus are principally massed within the Bohemian basin (forty-three out of fifty-six), three being typical of one country only.

The same species may inhabit many regions. Encrinurus punctatus is in eight, and is in two quarters of the globe. Dysplanus centrotus is in six countries, Bumastus Barriensis in ten, while Calymene Blumenbachii and C. senaria are each in seventeen.

Instances of great migration from east to west, and from west to east are many, and about equal in number; but the particulars about the time-stages have not yet been fully ascertained. Other directions are not uncommon.

Calymene Blumenbachii is only seen in the Trenton limestone, in America; but in Europe it reappears in the Wenlock of Wales. Encrinurus segmentatus is in the Hudson-River group of the Island of Anticosti, to revive in the Wenlock of Dudley &c. Many such examples are at hand. This may be called recurrence by migration.

Recurrence among Trilobites is rather weak, seven per cent. in species, computing from the sum of all at present known; that is, 115 recurrents out of 1677 species. The largest genera have the most recurrent species. They are Acidaspis, Cheirurus, Lichas, Phacops, Proteus. The majority of the smaller genera have either only one or none; but some of even the most prolific have none, such as Ogygia, Amphion, Megalaspis, Remopleurides. The same species in these four genera

The following are some examples of genera with few species, yet seen in several countries:—

	Sp.	Cos.	Sp. Cos.	Sp.	Cos.
Pharostoma	4	5	Rhodope 3 3 Actinopeltis	3	7
Plesiocoma	2	3	Triarthus 5 6 Basilicus	4	7
Polyeres	1	2	Dysplanus	6	12
Polytomurus	1	2			

never leaves its native level. The genera possessing recurrent species are placed in the foot-note *. They are taken from the 'Thesaurus'.

Out of 224 species of Trilobites in Great Britain and Ireland, as known in 1867, thirty-two exhibit some amount of vertical range, or about 14 per cent.; but two-thirds of these recurrents occupy contiguous stages, and so may only occupy transition-beds. They may all be found in 'Siluria,' 4th edition, pp. 514 &c.

As my own later-collected materials for ascertaining the relations of Trilobites to their sediments are not yet ready for use, I have formed, from what was known in 1858, the following Table. As the organic material of this Table was taken from 'Siluria,' 3rd edition, and as its sediments have passed under the eye of Mr. J. W. Salter, it may be supposed that considerable accuracy has been attained.

The sediments are arranged under eleven heads, which is being as minute, and at the same time as comprehensive, as is required.

Table G.—Trilobites (British)—appearances and their sediments (1858).

Genera.	Number of British Species.	Siliceous Conglomerate.	Siliceous Grit.	Siliceous Sandstone.	Calcareous Sandstone.	Argillaceous Sandstone.	Calcareo-argillaceous Shale.	Mudstone.	Carbonaceous Shale,	Argillaceo-calcareous Shale.	Argillaceous Limestone.	Limestone.	Number of Sediments.
Æglina Agnostus Ampyx Angelina Asaphus Bronteus Calymene Cheirurus Conocephalus Cybele Cyphaspis Cyphoniscus Deiphon Ellipsocephalus Encrinurus Harpes Homalonotus Illænus Lichas Ogygia Olenus Paradoxides Phacops Proetus Remopleurides	4 5 4 2 6 6 6 1 2 2 1 1 1 5 2 5 5 7 9 5 5 1 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	 		2 2 3 2 1 1 1 1	1 3 2 3 3 1 3		1 2 2 2 5 1 3 2 1 1 2 2 2 10 1 7	1 1 2 1 2 1 2 1 3 1 4 1 1 1	3 3 2 1 1 1 1 2 3 5 1 1		1 1		4 4 4 1 9 2 2 8 5 1 4 4 4 1 1 1 1 1 1 6 6 6 6 3 1 1 7 7 5 5
Sphærexochus Staurocephalus Stygina Tiresias Trinucleus	2 2 2 1 8	 1	1 4	1	39	1 3	2 6	1 1 7	 1 4	1 1 3	1 1 2 48	1 1	4 2 1 11

* Trilobite gene	ra possessing recurrent s	species in the following	numbers:—	
Acidaspis	6 Calymene	6 Harpes	3 Lichas 16	Sphærocoryphe 1
Æglina	1 Cheirurus 1		2 Phacops (exclu-	
	1 Cybele		2 sive of varieties) 15	Stygina 1
Arethusina	1 Cyphaspis	4 Illænus	5 Platymetopus 2	Trinucleus 2
Asaphus	4 Dalmania	7 Isocolus	1 Proetus 10	
Bronteus	3 Encrinurus	3 Isotelus	1 Sphærexochus 4	115

We learn from this Table that, of the whole 293 appearances (1858) of this order in the British Isles, 167 took place in highly calcareous strata, 63 where lime was in smaller quantity, and 63 where that earth was entirely absent. Clay and sand being almost always in considerable proportions, we deduce that Trilobites lived in seas of moderate, and even shallow depths, seeing that they are also in pure siliceous sand and grit.

Calcareous strata, then, are the richest in Trilobite life, and especially calcareo-argillaceous shale (fifty-four species), pure or nearly pure limestone being very poor. Argillaceous limestone contains twenty-two genera and forty-eight species.

Certain genera, Asaphus, Encrinurus, and Trinucleus, occupy nine, ten, eleven beds; but eight have each only one bed, the average in thirty-one other genera being four.

Acidaspis with thirteen species inhabits six, and Encrinurus with five species is in ten beds; so that the number of beds inhabited mainly depends on the peculiar structure of the genus itself. The simpler this is, perhaps the easier the Crustacean conforms to new conditions; yet Trinucleus, so elegant in form and so charged with ornament, is in all the eleven beds.

The comparative organic rank of these genera, a most interesting study, has yet to be worked out.

The plan and object of these pages renders it necessary to omit all notice of eight orders, Amorphozoa, Cœlenterata, Polyzoa, &c. They all, however, present points of interest which are indispensable to a proper exhibition of Silurian life.

A rapid sketch, not the results of a leisurely study, of some leading particulars of three orders, Cephalopoda, Brachiopoda, and Echinodermata, will now follow.

Cephalopoda.—It is impossible to think on the subject of the Palæozoic Cephalopoda without expressing, with Sir Charles Lyell and all geologists, the greatest thankfulness, mixed with astonishment, for the three splendid quarto volumes, recently issued by M. Barrande on this order, an order of beings often gigantic, always formidable, and in numbers, form, habits, and powers well worthy of our closest attention. For accuracy of description, as I judge, for sound palæontology, and for almost incredible diligence, there is nothing in geological bibliography at all comparable with these single-handed labours of M. Barrande. We need merely call attention to the exquisite plates, representing many hundred species and varieties.

It is delightful to observe that, during nearly forty years of exile, the master and friend of M. Barrande still continues to him his patronage. These and other volumes of equally exalted merit are gifts to his age worthy of a king.

This order contains thirty-one genera and three subgenera in 1419 species (see Geographical Summary, p. 191). In Europe these make 1284 appearances, and in North America 442 appearances. The number of species in each hemisphere has not yet been obtained; but in Europe the number of species and appearances differs little. The summary just referred to supplies such details as are now known; and they are many and curious. The irregularities in distribution there remarked are partly due to the different degrees of attention paid to the several districts; but in certain of these the Cephalopoda are really few: it is presumed that their office is performed by other orders.

The Cephalopoda are apparently universal. Every known Silurian district has its representative—Arctic America, Tasmania, India, Franconia, Russia, Ireland, &c. The following countries possess the greatest number:—Bohemia (minute in size) has 826 species! New York and Canada (1200 miles by 400) 242 appearances; Britain with Ireland 77 species (168 appearances); Russia 130 species (mostly); Wisconsin (U. S. A.) 50 species.

Fourteen genera are not seen in America, and four are not in Europe. These are all feeble in species—five of the American genera only containing one; but we must except the important Bohemian genera, Clymenia (6 sp.) and Goniatites (17).

The genera confined to America have fourteen species; so that the oneness of the two hemispheres in this order is almost perfect. Twenty-eight species of Bohemian Cephalopoda exist in

other countries. They make seventeen appearances in Great Britain, six in France, five in Russia, and four in North America, several other appearances being scattered singly here and there.

The very beautiful genus Actinoceras is widely distributed; it is in eleven great American districts, and in seven European.

Cyrtoceras is in twenty-two countries. Speaking of Europe and North America, it is in eleven each. In Bohemia it is surprisingly numerous.

The Discosurus of Lake Huron, the State of New York, and Prince Rupert's Land is exclusively American. It is remarkable for the flat, nummulite-like form of its septa, and their very rapid diminution in size.

The seventeen species of Goniatites only exist in Bohemia. None of them are in passagebeds; five of them are in fauna F, the others are in G.

The genus Lituites is seen in twenty-three countries, thirteen being European.

A Nautilus (sp. involvens) has a singularly wide dispersion. It is found in Niti of the Himalayas (India), in the valleys of the Mississippi and the St. Lawrence, in Newfoundland, Bohemia, Russia.

The Orthoceratites are found in thirty-nine great countries, in 708 species, 304 of these being in the little area of Bohemia,—a circumstance most extraordinary, but perhaps being partly capable of explanation by the probable increase there of the plutonic heat at the time, as well as by the favourable nature of the sediments.

The simplest form in this order is that of *Piloceras*, Salter; and it is found associated with the genera *Cyrtoceras*, *Lituites*, *Nautilus*, *Orthoceras* in Newfoundland, the Mingan Isles (G. St. Lawrence), and Canada. It also forms part of the Primordial community, composed of American species, settled on the north-west extremity of Scotland.

That there should be in these Primordial times animals of such a high rank as these, suggests, with no small urgency, the probability of their being the remains of a large and lost fauna.

The abundance of these large and voracious sea-creatures implies an abundance of prey, a sea full of life, now out of our observation.

They are usually found buried in many deposits. Of this a tolerably accurate idea may be formed from the following Table, made out from Quart. Journ. Geol. Soc. Lond. xv. p. 334. It may be allowed to speak for other countries, as well as for other Orthoceratites, besides those already inserted.

Table H.—The sediments in which seven British genera are found.

Genera (1858).	Siliceous Grit.	Siliceous Sandstone.	Calcareous Sandstone.	Argillaceous Sandstone.	Calcareo-argillaceous Shale.	Mudstone.	Carbonaceous Shale.	Argillaceo-calcareous Shale.	Argillaceous Lime- stone.	Limestone (pure).
Ascoceras Cyrtoceras Gomphoceras Lituites Orthoceras Phragmoceras Tretoceras	 I 	"i 9 	 1 1 15 1 1	1 1 1 17 2 1	1 2 15 5 	1 1 17 4 	 4 	 2 6 2	 1 7 11 2 	 1 1
	1	10	19	23	23	23	4	10	21	2

Being free swimmers, and changing their quarters according to seasons and certain instincts, these mollusks fall into many bottoms. The mixed deposits usual in medial depths hold the greater part of these remains. Seventy-three species are in calcareous sediments, and thirty-four in non-calcareous. This list was drawn up under the inspection of Mr. J. W. Salter.

Some information on the recurrency of this order may be had in the great Table on the subject in page 191.

Brachiopoda.—There has been placed on page 126* a summary of the geographical distribution of the Silurian Brachiopoda. It tells us that North America has yielded 1121 specific appearances, and that Europe &c. has given 1672, a much larger number. Twenty-seven genera of this order are common to the two worlds; eight are exclusively American, and fourteen are European. With respect to the comparative numbers of species, the Table in page 126 is approximately correct, and it enters into curious details on the species common to several widely separated countries.

Almost all the genera are scattered freely; the richer, of course, very widely. It is interesting in no ordinary degree to run the eye along the Table (p. 126*) from West to East, from Bolivia (S. A.), or Rupert's Land in the north, through forty-one Silurian areas, and see that even now there is an almost unbroken line of Orthides girdling the globe a. Other genera present a like continuous belt of species passing from land to land round the world: we refer to Atrypa, Discina, Lingula, Pentamerus, Rhynchonella, Spirifera, Strophomena. It is almost certain that the other genera have a similarly wide range (Chonetes, Obolus, &c). The gaps are fast filling up.

The Table (I) subjoined is intended to show the vertical distribution of the Brachiopodal species. If this order can be said to be very characteristic of the Silurian epoch, it is from the somewhat equable manner in which the species are diffused over its four stages, especially those of the larger genera. Eight rich genera appear in every stage, sometimes increasing in numbers from below (Athyris, Atrypa, Rhynchonella, Spirifera, &c.), while others rather decrease, as Lingula, Orthis.

									1							1	1	
	Genera.	Lower Primordial.	Upper Primordial.	Lower Stage.	Middle Stage.	Upper Stage.	Genera.	Lower Primordial.	Upper Primordial.	Lower Stage.	Middle Stage.	Upper Stage.	Genera.	Lower Primordial.	Upper Primordial.	Lower Stage.	Middle Stage.	Upper Stage.
	Acrotreta		2	1			Bt. forward	23	27	193	73	226	Bt. forward	61	62	456	188	540
			***	7	10	28	Meganteris				***	4	Rhynchospira		***	1		4
	Atrypa		1?	27	23	62	Merista			1	2	18	Siphonotreta			4		1
	Aulonotreta	1		1			Meristella			4	8	11	Skenidium		***	1		2
	Camarium			2		***	Mimulus					2	Spirifera			18	23	95
	Camerella	2	6	6	2		Nucleospira	1				4	Spirigerina			1	2	1
1	Chonetes			4	4	17	Obolus	6	3	6		7	Stricklandinia		2?	***	3	10
	Crania		***	6	1	5	Obolella	9	6	1?	***		Strophodonta		10	57	1	10 58
	Cyrtia		***	00	1	3	Orthis	9	24	186	42	80	Strophomena		10	10	30	2
	Discina		***	28	2	21	Orthisina	4	1	15	1 21	2 44	Trematis				***	8
	Eatonia			2		4	Pentamerus			4	21	2	Trematospira				***	2
	Eichwaldia		2	56	16	62	Pholidops	***		6	1?	0.576	Trimerella	600000	***	6	ï	1000
	Leptæna			1		4	Platystrophia		***	10	1	2	Triplesia			1	-	
	Leptocelia	14	10	52	10	20	Porambonites Rensselæria			-		5	Tropidoleptus			12	ï	
	Lingulella		6		0.75		**			1?		12	Zygospira	***		1.	1	***
	Lingulepis					***	Rhynchonella		16	29	39	121		61	65	556	249	727
	Linguiepis	-	***	***			Tenynonomena	***	1	-0	-00	1-1		01	0.0	000	-10	
					100000						10000							

Table I, showing the Vertical Distribution of the Silurian Brachiopoda (species).

They are not so much massed in one or two beds as the Cephalopoda are in Trenton Limestone, Pleta, or Fauna E. e. 2 of Bohemia.

62 456 188 540

32 27 193 73 226

^a The Table gives 37 as the number of countries inhabited by the Orthides; but we now find it to be 41. Discrepancies of this limited kind will be found elsewhere in the 'Thesaurus.' They are almost inseparable from the progressive nature of the work.

b Rhynchonella Corinthia.

c Strophomena Aurora,

Like all other Mollusca, these 1658 species did not inhabit the Silurian sea at once, but at distinct times, and separately, in consecutive communities. It is only as genera that this order permeates all stages.

We shall see, when speaking on this subject, that these populations were renewed at very short intervals, a few survivors being permitted to escape upwards, in ways to be afterwards mentioned.

In Table I is visible at a glance the opulence and poverty, more or less, of the different stages.

We see that the Brachiopoda had a vertical (by strata) maximum and minimum—these seemingly capricious fluctuations in quantity being caused by conditions acting upon a tender structure, often incapable of undergoing modification.

One genus arrives at its maximum in the Primordial, ten in the Lower Stage, none in the Middle Stage, and seventeen in the Upper. The Middle Stage is more abundant in this order perhaps than in any other.

The seven richest genera (Discina, Lingula, Orthis, &c.) begin in the Primordial, and push their representatives into the uppermost beds of the period.

Fourteen genera, all feeble, except Athyris and Spirifer, are first seen in the Lower Stage, only one in the Middle, and seven weak genera in the Upper.

Three Primordial genera never pass the limits of their native stage. Three other genera belong to the Lower Stage alone.

The Primordial Stage, the Table informs us, has 126 species of Brachiopoda, in fourteen genera an unexpectedly large supply of food for the carnivorous animals that prevail in this stage.

The elder Primordial has eleven genera, all, save one (Lingulepis), crossing the boundary into the stages above. The upper division of this part of the column has six, which do the same.

The number of Orthides (thirty-three species) in the Primordial stage is remarkably large. That there should be twenty-four species of *Lingula* we were better prepared for.

That a Nucleospira (Hall) should be met with in the Primordial is new, but the authority on which the fact rests is too good to allow of its being rejected.

M. de Koninck, in his Memoir on the genus Chonetes, only enumerates two Silurian species. There are now thirty-one in the 'Thesaurus.'

There is some little recurrent movement in the two divisions of this Primordial Stage; but their organic connexion is slight, being kept up by, at most, two or three species in common. The same species is often found in several beds of the Quebec group; but few pass the limits of the true Primordial.

The mixed effects on the number of appearances from horizontal and vertical range are very considerable, but there has not been time to disentangle them. The appearances exceed the species, each genus having its own proportion. In some few there is equality, or an approach to it.

Appearances. Total Observation. of Europe. Total. Species. Genera. America. 102 97 199 113 Atrypa These extracts from 39 Chonetes 46 31 Tables might be much 214 Orthis ... 389 603 331 extended. Rhynchonella 123 179 302 175 Leptocœlia 10 3 10 Meganteris.....

Table I.—Proportion of Appearances to Species.

ECHINODERMATA.—The following little Table represents, numerically, the geographical distribution of the three forms of the class Echinodermata. It is short, but contains much matter.

									A	M	ER	IC	A.															EU	UR	OF	E	&0	9.					
Orders.	Arctic America.	Wisconsin.	N. Iowa.	Missouri.	Illinois.	Indiana.	Ohio.	Kentucky.	Tennessee.	Maryland.	Pennsylvania.	New York.	Canada West.	Canada East.	Anticosti Island.	Nova Scotia.	Newfoundland.	Total Appearances (America).	Ireland.	Scotland.	England.	Wales.	France.	Spain.	Sardinia.	Harz (Germany).	Podolia.	Bohemia.	Baltic Russia.	Russia.	Sweden.	Norway.	India.	Australia.	Total Appearances (Europe &c.).	Great Total Appearances.	Number of Species.	Number of Countries inhabited
Crinoidea	1	19		3	17	12	5	4	42	1	4	71	45	15	4		2	245	5	1	53	8	2		1	1	3	1	18	32	23	7	1	2	158	403	315	30
Cystidea		12	1	2	1				2	2		12	19	14	1			66	4		16	24		2				12	7	18	10	1			94	160	136	19
Asteriada		2		2			3		1			5	13	3	1	1	1	32	1		19	7	1					3	2	2	1				36	68	61	18
	1	33	1	7	18	12	8	4	45	3	4	88	77	32	6	1	3	343	10	1	88	39	3	2	1	1	3	16	27	52	34	8	1	2	288	631	512	

Table K. Class Echinodermata (Geographical Summary).

Table L, subjoined, shows the numerical proportions in which the species of this class occupy the successive stages of this epoch.

Order.	Primordial Stage.	Lower Stage.	Middle Stage.	Upper Stage.	Total.
Crinoidea	2	106	8	187	303
Cystidea	3	76	3	45	126
Asteridea	1	30	2	25	58

TABLE L.

Its contents require no remarks.

Crinoidea.—The order Crinoidea contains 78 genera and 315 * species. Thirty genera have each only one species; and these in only five cases occupy two countries. Fifteen genera have three species, and ten have two, the geographical range being here also short. A few genera are comparatively rich in species. Thus Glyptocrinus has nineteen species, and is found in fourteen distinct areas; and Actinocrinus has fourteen species, and inhabits fourteen areas; Hypanthocrinus, with twenty-three species, is seen in ten districts. Together with great beauty, Crinoids are very sensitive to conditions, and therefore they have but a limited geographical range.

The Table K will show how few Crinoids there are in many countries, such as Nova Scotia, Newfoundland, Iowa, Scotland, Spain, India, Tasmania, &c. Crinoidea have in North America two principal foci or places of concentration. There are likewise in Europe two similar chief seats. They are all singularly rich.

These concentrations are in America some hundreds of miles apart: that on the west occupies Tennessee, Illinois, Wisconsin; and that on the east is met with around the City of Ottawa (Canada West) and North New York, the adjacent state of the North-American Federation.

The chief seats in Europe of this order are England with Wales, and Russia with Sweden, and this in a very striking manner. These remarkable assemblages are probably due to appropriate sediments and other favourable conditions (deep sea &c.).

A genus may be confined to a very few square miles, as in the case of the subgenus Cupellecrinus

^{* 315,} from late acquisitions.

with its nine species. It is confined to Decatur County, Tennessee *. On the other hand, although the species of a genus may be few, they may, contrary to rule, be widely scattered. In this way the three species of Scyphocrinus are found in New York, Sardinia, and Sweden.

Crinoidal species are very local, with a few exceptions. Thus the single species Marsupiocrinus calatus lived in the Silurian seas of England, New York, and Tennessee. Calliocrinus, Crotalocrinus, &c. present similar facts.

In this order zoological connexion between areas is chiefly maintained by genera. Twenty-one genera are common to the western and eastern hemispheres—a fact of weight; thirty-five are exclusively American; and twenty-three are European.

Two hundred and forty-five species are North-American, and one hundred and fifty-eight are European, which reverses the usual proportion of fossil life in these two great divisions of the earth.

Recurrence is rare among Crinoidea. I only know of twelve instances, six of which are given in the footnote †. Many of them are in coterminous beds.

Cystidea.—The Tables K and L, just referred to, contain much information respecting this beautiful and curious order. It consists of 32 genera and 136 species. Until within the last thirty years little was known about it. Since then this order has been illustrated in an admirable manner by Von Buch, Forbes, and Billings.

Its genera Palæocystites, Protocystites, Trochocystites are found in Primordial strata at Phillipsburg (Canada East), at the head of Lake Champlain, at Montreal?, in the Mingan Isles (Gulf of St. Lawrence), in South Wales, in Spain, and Bohemia. It abounds in the Trenton Limestone of America, in the Caradoc beds of Britain generically and specifically, passes freely into Upper Silurian, and then into a Devonian Limestone.

In both hemispheres the Cystidea have the same two headquarters as the Crinoidea; but America exhibits fewer species than Europe. Edward Forbes, by way of directing particular attention to these gatherings, calls them polarizations.

The Cystidean genera are rather more prolific than the Crinoidea; but eight have each only one species, even after a close inquiry for them. The geographic range of species is less also. Out of thirty-three countries inhabited by Crinoids, in only twenty have Cystidea been observed.

The proportion of appearances in different lands to species is as six to five.

Here again, the genus *Holocystites*, with its seven species, never leaves Wisconsin, with the exception of *H. sphæricus*, which we have at Chicago (Illinois), a bordering state.

Nine genera are common to Europe and America, ten being exclusively American, and eleven exclusively European. At present Cystidea have not been brought from India or Australia.

Apiocystites Huronensis affords the only known instance of vertical range in this order; and it is short and doubtful.

Asteridea.—This order contains fourteen genera and sixty-one species, or four to a genus; while in Brachiopoda it is thirty species to a genus, in Cephalopoda thirty-three. Palæaster contains fourteen species as the richest genus, Edrioaster and Palæchinus having each one only. This order is only seen in nineteen Silurian areas.

Europe and North America have five genera in common; five others are the sole property of America, and four of Europe.

In America we find, again, the chief abode of the Asteridea to be around the City of Ottawa (Canada West) and in North-west New York State (twenty-one out of thirty-three species). Elsewhere the species are scattered singly or in pairs, in Indiana, Ohio, Illinois, Canada, Newfoundland.

- * Genera and species may seem far apart geographically, when in reality they are close together, as on the opposite sides of a boundary river, the St. Lawrence or the Mississippi. Thus two species of Stephanocrinus are on the same sheet of rock, but are catalogued as in two separate countries.
- † Clenocrinus typus, Cyathocrinus exilis, Melocrinites lævis, Pleta, Corall. Lst.; Dictyocrinus squamifer, H. R. G., L. H. G.; Glyptocrinus decadactylus, Primordial (Geinitz), H. R. G., CL.; Periechocrinus moniliformis, Llandov., W.L.

In Europe, the British Islands contain twenty-seven out of thirty-three species; of the six not found there, five are in North-west Europe, and another is French.

This order is but small; this, however, is not for want of due search, for their size and beauty render them attractive to collectors.

The Primordial Stage.—Waiting for the results of the investigations now taking place in Canada as to the exact relations of the Quebec Group with the Primordial Stage, it will be better not to dwell long on this part of the Silurian epoch, especially as the present ideas on these relations do not give entire content. The very name has ceased to be appropriate.

The 'Thesaurus' amply manifests the great extent, or even the universality, of the numerous correspondences and the organic riches of the Primordial of Barrande, the Taconic stage of Prof. Emmons. It is indissolubly Silurian by almost every possible tie—by facies, materials, stratigraphy, and organic contents, according to De Verneuil, Hall, Murchison, Logan, Billings, &c.

The mineral characters of this stage are exceedingly diversified, and indicate the complicated nature of the processes then in full operation. It presents the alum-slates of Sweden, the soft blue clays of Russia, the clayey schists and conglomerates of Bohemia, the arenaceous and metamorphosed schists of Britain, the displaced schists, limestones, and conglomerates of Quebec, the soft calcareous sandstones of Central North America, among other varieties of composition and of stratigraphy.

The Primordial Stage did not start forth, Pallas-like, at once, in full maturity. The quantity, variety, and high rank of its fauna shut us up from any other conclusion than that it is only part, and a rich part, of an already established flora and fauna, lying undetected at present, and perhaps for ever, but which may be any day discovered in some of the many countries not yet examined. The Eozoon of Canada &c. belongs to an anterior and unconformable deposit.

Excepting the four orders Echinodermata, Cœlenterata, Monomyaria, and Dimyaria, all the others are in great force, those of high organization in particular. Crustaceans of very large size were numerous in Canada, and seem to have overspread large districts with their coprolites.

Orders.	America.	Europe.	Total.	Orders.	America.	Europe.	Total.	Orders.	America.	Europe.	Total.
Plantæ Amorphozoa Cœlenterata Crinoidea Cystidea Asteridea	11 22 5 1 1	11 5 1 1 1 	22 27 6 1 2 1	Entomostraca Polyzoa Brachiopoda	40 2 212 13 50 81 398	19 27 205 12 27 35 325	-59 29 417 25 77 116	Brought forward Dimyaria Pteropoda Gasteropoda Cephalopoda	8 34 103 54	325 4 23 12 11 375	723 12 57 115 65 972

Table M.-Primordial Life, as known in 1868.

The Table M contains all the Primordial life known in the present year, the western and eastern hemisphere being taken separately.

The Primordial fauna of North-east America greatly exceeds in number that of Europe (as 597 to 375 species). We see it in every order except the Annelida, a portion of our classification exceedingly faulty. This excess on the part of America is very strong in Amorphozoa, Trilobita, Brachiopoda, Polyzoa, Gasteropoda, and Cephalopoda, and it leads to the suggestion that organic existences may have begun earlier in the west than in the east, as M. Barrande is inclined to believe. In Bohemia, the best-examined country in Europe, the Primordial contains only twenty-eight Trilobite species, instead of the affluence of the Quebec group of North America, no Gasteropod, and no Cephalopod, although ten species of Orthoceras start into existence immediately after its termination—that is, in D. d. 1, the earliest bed of M. Barrande's second fauna. Neither Cyrto-

ceras nor any other Cephalopod appeared until near the end of this Stage D; while in America this order abounded in the Upper Primordial, and consisted of genera of every variety of rank—Piloceras, Lituites, Orthoceras, and Nautilus, the last genus being still an inhabitant of our seas.

Gasteropoda are exceedingly numerous in America during this stage, and as remarkably few in Europe.

The Trilobites are nearly equal in number of species east and west of the Atlantic; but the geographical summaries exhibit many striking differences. The American Primordial has no Æglina, Ogygia, &c., but has three Remopleuridæ, so abundant in Ireland and thus helping to connect the western part of Ireland with the Silurian lands beyond the sea. It is to be remembered that the great abundance of life in the Primordial of America need have no connexion with priority of existence, but may have arisen from a longer duration, from a more fertile epochal impress, and from the much more extensive area of the western Primordial. During part of the time the two great geographic divisions of this stage were coexistent.

The Table (N) subjoined conveys only a provisional statement of the Primordial life of America, but it is believed to be sufficiently accurate for general use.

Table N.—The Flora and Fauna of the Primordial Stage of North-east America; principally the River Ottawa, Lower Canada, the Mingan Isles, Western Newfoundland, and North-east New York (not the Mississippi Valley).

	Plantæ.	Amorphozoa.	Cœlenterata.	Crinoidea.	Cystidea.	Asteridea.	Annelida.	Trilobita.	Entomostraca.	Polyzon.	Brachiopoda.	Monomyaria.	Dimyaria.	Hetero-Pteropoda.	Gasteropoda.	Cephalopoda.	Pisces.	Total.
Upper. { Quebec Group	6 5?	9 5 8	2 1 		 ï		21 3 4	96 6 74	3 3 6	44 	42 6 31		5 1 	19 5 5	57 39 3	34 19 	?	332 94 138
Total	11	22	3		1,		28	176	12	45	79		6	29	99	53		564

This stage is here divided into Lower and Upper Primordial, the former being represented by Potsdam sandstone, and the latter by the enigmatical Quebec group and Calciferous sandstone, and having superadded a few bottom layers of the Chazy beds of Lake Champlain.

This separation is based on mineral, as well as on very striking organic characters. The Table shows the latter at a glance. We there find seven important orders altogether absent from the Potsdam sandstone, five very poor in species, while the Crustacea and Brachiopoda are numerous.

Speaking in general of the valleys of the St. Lawrence and the Mississippi, the Calciferous sandstone overlies Potsdam sandstone conformably, but differs from it, chiefly, by containing more lime or magnesia, and often more of both at once. The characteristic fossils of these beds, in the districts here referred to, are not at all those of Potsdam rock, but are Gasteropoda and Cephalopoda in considerable numbers, and full of life and movement. It is poor in the other and simpler orders. Of six it is altogether destitute.

If we pass north-eastwards, from Quebec to the Mingan Isles in the Gulf of St. Lawrence, we there find in this bed sixty-three fossils not often connected with those of the Quebec group. To the south, in the Mohawk Valley, or to the west, in the valley of the Mississippi, we find the same—that is, numerous organic remains typical of place as well as of bed, 375 altogether.

The Calciferous sandstone agrees with its associate strata in having neither Echinodermata nor Monomyaria.

The fossils of the subdivision Chazy, met with in the Quebec group, or its equivalent, about

Phillipsburg (Lake Champlain), belong to its base, because its arenaceous beds very soon change upwards into a compact mass of crushed Crinoids, Cephalopoda, &c. (143 species), all quite new, and therefore the product of new conditions.

Wholly independent of the Quebec group, the Chazy beds spread over vast tracts on the Ottawa, the Upper St. Lawrence, and the Mississippi valleys, and lie conformably upon Calciferous sandstone. It is extremely difficult to separate them. In other words, in America there seems to be no sharp line dividing the Primordial from the beds above it—a condition of things, of course, affecting their upper zoological limits. As far as is now known, this line is rarely transgressed in Europe by Silurian life *.

Many of the Chazy mollusca are really of the Calciferous age, and go no further than the Chazy, while many which first show in this last bed freely mount up into the higher strata, Trenton, &c.

The mineral character of the Chazy beds is unsteady in its best exposures, as seen in the Gulf of St. Lawrence, the Mississippi valley, &c. It may consist of various sandstones, brown shale, and of dolomitic and argillaceous limestone. On the River Ottawa it is a sandstone fifty feet thick, resting, conformably, on a few feet of grey limestone (Calciferous sandstone).

The presence in some localities of the Chazy layers is indicated by the disappearance of all the Trilobita, except two species of Asaphus.

Great interest attaches to the Quebec group on account of its zoological contents, its doubtful stratal position, the displacements it has suffered, and the controversies it has occasioned.

It is clearly on or near the horizon of the Calciferous sandstone, and some of the lower layers of the Chazy rocks.

The fauna of the Quebec group is very peculiar; it embraces 332 species at Quebec and in West Newfoundland—the life, however, of these two districts being very different specifically, although for 1677 feet (Divisions N, O, P) the same words would describe the strata of both (300 miles apart).

Its numerous forms of life are almost all of very high organic rank, such as Cephalopoda, Gasteropoda, Trilobita, &c. (see Table N).

Although there are forty-four Polyzoa well known in the Quebec group (several of them also met with in Australia and England), there are only two Cœlenterata upon our present list. All these fossils are in great numbers individually as well as specifically, with the exception just named.

Our acquaintance with the recurrents of this stage is as yet imperfect. Those which move from bed to bed within the Primordial stage are numerous, and their range is great; but of those which escape upwards into the Black-River or Trenton group of North-east America, into the stage D of Bohemia, or the Upper Llandeilo of Britain, the number is small, and perhaps doubtful.

Table O exhibits this flora and fauna under a general aspect, and arranged as they occur in Lower or Upper Primordial. To these are attached corresponding horizons, in whose columns the recurrents are enumerated, their names being placed alongside. They are fourteen in number. Since they are vouched for by the best and most recent authorities, it is not easy to give a reason for their rejection. The transition which is effected at Hof in Bavaria, as recently announced by M. Barrande in a letter to myself, by means of Trilobita and Brachiopoda, is strongly in favour of a far closer connexion between the Primordial and the higher stages than hitherto entertained. As recurrence is active within the Primordial mass, it will probably be found, after a time, to exist about its upper limits. We may be on the eve of receiving further evidence, enabling us to estimate more accurately the distinction between Cambrian and Silurian stages.

These facts are taken from the 'Thesaurus;' but this very interesting portion of it is the gift of Barrande, Emmons, Hall, Logan, Billings, and is the fruit of their summer toil and winter studies.

^{*} According to the late determinations of M. Barrande, this transgression takes place, to some extent, at Hof in Bavaria.

Table O.—The Primordial Flora and Fauna and their Recurrents (1868).

					Pr	im	ord	lial	1.			
W 1 101	Prim	cies. ordial		Lov	wei	r.		UI	ope	er.		7
Kingdom and Orders.	Sta	ige.	Н	ori	zo	ns.	H	Ior	ize	on	s.	Recurrent Species.
	Lower.	Upper.	2.	3.	4.	5.	2	3	4	1.	5.	
Plantæ		9								T		
Amorphozoa	12	16	1									Ischadites, sp. ind., L. Llan., Carad.?
Annelida Hetero-Pteropoda	21	8 48	1									Buthotrephis succulens, P. and Tr.
Polyzoa	2 4	74	1				1					Diastopora? consimilis, P. and U.
Loiyana	1	12	Î				-		ľ			Llan.; Graptolithus Nilssoni, Llan., E. e. 1.
Cœlenterata		6						1				Stenopora fibrosa, Queb. G., CS., CH., &c.
Crinoidea	1											
Cystidea		2										
Asteridea		1							ı	1		No. of the Contract of the Con
Trilobita	226	184	2							-		Agnostus princeps, P., U.Llan.
Entomostraca Brachiopoda:—	1000	9	•••		• • • •							Dikelocephalus Čelticus, P., U.Llan.
Orthis	8	21							ı	1		
Rhynchonella		1		-					ı	П		Commence of the second
Strophomena	61	2 35	1						L	1		Timestalla lania B. H. Than
All other species		11	1		***				1.			Lingulella lepis, P., U.Llan.
Gasteropoda:—	1	11							Г			
Murchisonia	1	25	1									Murchisonia scalaris, Llan., Carad.?
Pleurotomaria		31						1				Pleurot. Progne, Queb. G., BL., Tr.
All other species		48							1			
Cephalopoda:-												
Cyrtoceras		7						1			33	and the second second second
Orthoceras		37	•••		•••		2	1		1	1	Orthoc. Allumettense, Queb. G., CH., BL.; O. proteiforme, CS., Tr.; O. Brongniarti, Llan., Carad.; O.
All other species		21										laqueatum, CS., Carad., Tr., W., L.
	362	596	7				3	3			1	

We owe the rich Primordial harvest gathered in Newfoundland and Anticosti Island to the enterprise and skill of Mr. Richardson, as directed by Sir W. E. Logan.

The Silurian Basin of Central Bohemia.—After premising a few necessary remarks, it is intended here to give a rapid sketch of the principal features of the Bohemian Basin; then, 1st, some statements will be made as to the places where its fauna make their first appearance; 2ndly, its zoological relations with other countries will be noticed; and, 3rdly, there will follow a short account of one of its great Molluscan communities. The scope of these observations forbids any allusion to several other interesting subjects of a kindred nature. This abundant life M. Barrande has exhumed and described with consummate skill—and alone, treading for thirty years the solitary and toilsome path appointed for every great workman. M. Barrande entered on his palæontological studies with a preparedness and breadth of view very rare at that time (1838). Availing himself of the little already done by his predecessors, he has ascertained the external limits and true subdivisions of his fossil-bearing territory. Its organic contents he has grouped according to place and stratum, noting their natural relations, their movements, vertical and horizontal, following out also their several structural developments. There are particulars included within these heads of descriptive natural history which are absolutely necessary to any good generalization, but which previously had been almost unthought of. It is by such enlightened and prescient labours that M. Barrande has been able to examine so successfully a district of

singular interest, and to bring within our view much that is new in the history of Silurian species, their time of appearance, duration, classification, &c.

The Silurian beds near Prague enjoy a zoological opulence surpassing all previous experience, taking into consideration their very small extent, which bears no kind of comparison with the size of other basins.

Within an oval space (mostly on the west of this city) fifty miles long by twenty-five broad, 2800 species of marine remains have been collected, and 2093 have been described by M. Barrande. Of course, individuals are in millions incalculable. Four-fifths of this fauna are furnished by the four orders Cephalopoda, Trilobita, Brachiopoda, and Gasteropoda, and chiefly in the small parishes of Lochkov, Kozorz, Butowitz, Konieprus, and Mnienian.

Further, the conditions of this Silurian area are in discrepancy with some of our established notions. It is a close basin with an immense variety of life—a basin with very small foreign interchange. During a short time its gates were opened thrice, and then closed almost totally, and for ever. It abounds, except in its Primordial beds, with powerful Carnivora, the lower forms being very scarce, while its higher strata (H. h. 1) give out two land plants, unhesitatingly pronounced to be such by M. Barrande. The area has been frequently overflowed by thick and by thin sheets of trap and porphyries, from what sources I know not, but without a single marked boss or upheaval of any kind.

This whole Silurian district is 100 miles by 44 in its greatest dimensions, and is a long oval; perhaps a third of the size of Wales.

The accompanying Sketch Map represents about one half of the area, and that which is richest in fossils.

Easy access is obtained to good sections by means of quarries, ravines, and watercourses.

The strata repose in synclinal conformableness, zone upon zone, except in a few cases of local derangements, and an occasional change of dip. At the bottom of this succession are M. Barrande's stages A and B, wholly azoic, principally schists, abutting directly on granite and gneiss. These same schists, as they ascend, at length betray Primordial life, and are then distinguished by the letter C. They are 900 to 1200 feet thick, thin and close-packed on the south-east, but much separated on the north-west by intercalated porphyries and conglomerates.

The next stage upwards is that of D (56 miles by 9 to 12 miles). In its lower half it is made up of alternating schists, quartzites, and conglomerates, followed above by very thick beds of coloured schists. This stage has been subdivided thus:—1. At the base, schists with conglomerates.

2. The quartzite band of Mount Drabow, with conglomerates—both together forming half of the whole stage.

3. Black foliated schists.

4. Very micaceous schists.

5. Yellowish-grey schists, supporting the trappose base of stage E next succeeding. These schists, 3, 4, 5, are 3000 feet thick. Stages C and D contain no limestone.

In this stage D, in d. 3, 4, 5, are the celebrated colonies, twenty in number (M. Barrande, MS.), lying along a certain zone. Eight have been described (see sketch). They consist of traps interleaved with graptolite schists, holding calcareous concretions, pretty full of organic remains. The presence of these colonies indicates a general but slight disturbance, of which few other signs remain. A great peculiarity in their life is that they are precedent (prophetic of) and not posterior, as recurrents, to the great normal fauna about to appear.

The stage E (Upper-Silurian) is based upon broken sheets of trap, alternating with graptolite schists. These traps form a true girdle, about 300 feet thick, to the upper stages E, F, G, and H, which correspond in great measure with the Upper Silurian of England and other parts of the world. The stage E, with its trappose base, consists of argillo-calcareous nodules—long, flattened spheroids, imbedded in argillaceous schists, which (nodules), the trap disappearing in the ascent, gradually coalesce into compact fetid limestone. The whole stage is 450 to 900 feet thick.

M. Barrande has separated this stage into two parts, E. e. 1 and E. e. 2, both of them singularly abundant in marine life.

The stage F is also in two parts, F. f. 1 and f. 2. It consists of pale and dark-tinted limestone, neither concretionary nor fetid, but with much chert, either disseminated or in kidneys. Organic remains become much fewer here, with the exception of Brachiopoda, which are numerous.

The stage G is 1000 feet thick, and in three divisions. It is composed of argillaceous limestone in thick beds and with chert (as in stage F), with calcareous lumps lying in clay schists, which last, increasing in quantity, gradually excludes the calcareous element, and ends in stage H.

The stage H is 850 feet in average thickness, and is in three parts. This highest stage is principally clay schist, grey, green, black, alternating with beds of impure quartzite. The transitions from part to part and from stage to stage are very always gradual.

The Silurian population about Prague is unique; no other country can show anything resembling it. So great is the buried multitude, that this vicinity might be supposed to be the common sepulchre of marine life for a thousand miles round; but it is not so, most of the species are at home, they are indigenous: one-tenth may be strangers; and some of these are in the colonies, and appear to have come from opposite quarters, i. e. from the north-east and south-west, and at different times. The most crowded parishes, according to our present information, are those of Lochkov and Kozorz. They are neighbours, and may extend over the space of four to six square miles. Of course the strata are only exposed to view in patches, so that we have no access to many of the contained organic remains.

Within about ten miles from the city of Prague, very nearly the whole series of beds belonging to the Silurian epoch are, at one place or other, largely and clearly brought into view, some few being removed from the top of stage H. In many parishes, such as Hlubocep, Konieprus, Dvoretz, &c., the several stages are seen in their proper stratigraphical relations, while in most other countries hundreds of miles must be traversed in order to see such a succession of fine exposures.

The following lines give a numerical abstract of all the Bohemian life, as at present determined, with sufficient accuracy.

		Species.	Species.		Species.
Plantæ		5	Cirripedes 7 Pteropoda		93
Amorphozoa		8	Trilobita 369 Gasteropoda		234
Cœlenterata			Entomostraca 33 Cephalopoda		851
Crinoidea .		1	Polyzoa 31 Pisces		
Cystidea .		10	Brachiopoda 289 Class uncertain .		4
Asteridea .		100	Monomyaria 22		
Annelida .			Dimyaria 83 Total species describe	ed	2093

This brief account of the leading features of this basin I have ventured to give by way of immediate assistance to the student in what now follows. It may be all had more at large in the works of Barrande and of Murchison.

On the Place of First Appearance of Bohemian Mollusks.—All Silurian life is divisible into the indigenous or native; and the derived or foreign, while every order has some species so ubiquitous that they may be called universals (see p. xxxiii).

The first class we have seen to be exceedingly numerous; and the second, although very much fewer, present many points of interest. It is useful to distinguish the indigenous animal from the guest; it enables us to study the conditions appropriate and natural to all Mollusca—that is, the sediments, food, depth, temperature, &c. Curious and instructive particulars also arise in basins from the presence or absence of a tendency there to migrate.

At this moment I know of 202 Bohemian species which occur in other countries; there are doubtless many more. Of these 202 species, three-quarters (149) inhabit several horizons, while 51 of the remainder, wherever they are met with, are typical of only one horizon. I proceed to

trace them to their several birthplaces, and so to point out the relations they establish between Bohemia and those birthplaces *.

It is an accepted truth that the earliest bed in which any form of life is found is its birthplace (a word convenient and short), although an occasional correction may become necessary.

Thus, until better taught, we take a fossil of any of the Bohemian faunæ E, F, G, H, to have first existed in Wales, if we find it there in Llandeilo or Caradoc—and nowhere else, unless actually seen. We know how a change of residence can be effected.

Bohemia has vital relations of this kind with many countries, but none so remarkable as those lying on the edge of the Atlantic, or on the Mediterranean. With these and with the other areas it is connected by means of mollusks which are known *only* in the two areas concerned (save the universals)—a fact which gives precision and speciality to the connexion. We will enter into the following particulars:—

Amorphozoa.—Of the five species of Stromatopora in Bohemia, only one occurs elsewhere; and that is in Lake Huron, in the Hudson-River group, while the Bohemian species is Upper-Silurian (E. e. 2). Its birthplace seems to have been in the distant West. The Ischadites Kænigii is in Shropshire in Llandeilo as well as in Upper Silurian; in Bohemia it is in E. e. 2, and is not a native.

Cælenterata.—Adding the Cælenterata lately received from M. Barrande to those already in hand, we at present only know of twenty species in Bohemia; of these, twelve are foreign and eight native. Of the foreign, three are everywhere (in Bohemia &c.) on the same horizon, and nine vary in this respect,—eight being in the Llandeilo and Caradoc beds of Britain, and one Lower-Silurian both in Canada and Esthonia—the whole of them being Upper-Silurian in Bohemia, where they are therefore strangers. The native Bohemians are all of the upper zones. The particulars of these statements are easily found in the 'Thesaurus.'

Of the seventeen species of Bohemian Echinoderms which, through the kindness of M. Barrande, are found in the 'Thesaurus,' all, excepting two, belong to the earlier part of the Lower Silurian stage; for this reason, as well as because they are nowhere seen in any other stage, these Crinoids are probably natives. We cannot at present determine the place of first appearance in the cases of

^{*} It is easy to see that several useful inferences might flow from the facts, gathered into a series of tables, of which the *imaginary* one subjoined might be the first (it gives the native and foreign species of all the orders, for the whole area concerned, France, Britain, Canada, &c.; other Tables might do the same for the separate stages; others, again, might show the zoological relations of area with area, American, Australian, European: a very little zeal might here open a wide door):—

A Form of Table exhibiting	the Native and Foreig	n Fauna of certain Siluria	in Districts.
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	Fra	nce.	Brit	tain.	Spa	ain.	Boh	emia.	Swe	den.	Rus	ssia.	Wise	eons.	N. Y	ork.	Can	ada.	å	c.
Orders.	Native.	Foreign.	Native.	Foreign.	Native.	Foreign.	Native.	Foreign.	Native.	Foreign.	Native.	Foreign.	Native.	Foreign.	Native.	Foreign.	Native.	Foreign.		
Plantæ Amorphozoa Cœlenterata Annelida Trilobita &c.	3 50 41 23 27 &c.	7 7 9 6 3 &c.	5 39 52 29 60 &c.	2 7 11 6 19 &c.	3 12 13 11 19	1 2 2 3 13	4 7 9 15 260	3 1 2 3 30	5 21 17 20 79	2 7 3 4 7	19 16 13 49	 3 5 4 7	9 17 15 &c.	1 2 3 &c.	49	6	15			

It should be here stated that the change of horizon often effected by species is called "recurrence;" and it is greatly facilitated by the power that species possess of living on several kinds of sediments, and by migration—subjects to be treated on in the sequel.

Trochocystites Bohemicus in the Primordial of Bohemia and Spain, and of Scyphocrinites elegans in the Upper Silurian of Sweden and Bohemia.

Of the seven species of Annelida (Bohemian) seen in other basins, two belong to the derived class, and three or four are native (see 'Thesaurus'); Spirorbis Lewisii, also in Bohemia, is of

doubtful origin.

Of the forty-three species of Bohemian Trilobites (out of 369) which have inhabited other regions, it may be assumed that thirty-five are native. Four of these are Primordial; and for the others we can detect no earlier first appearance in other countries. Five species of the forty-three are in the same zone in all places; no one birthplace can be assigned to them. May they not be from distinct acts of creation? Five Bohemian Trilobites, Calymene Baylei, C. complicata, C. Blumenbachii, Phacops apiculatus, and Sphærexochus mirus, seem to be strangers.

Whether the Bohemian beds be the argillaceous slate of the lower stage, or the argillaceous limestone of the upper, Trilobites found there a congenial habitat. Very few migrated, and almost as few entered the district from other parts.

Of the nine Polyzoa in Bohemia (not Graptolites), none are known out of the Bohemian strata; and these have been very recently determined by M. Barrande.

The Graptolitidæ are far more freely and widely dispersed than any other kind of Silurian life many species being common to Australia, Europe, and America *.

The Bohemian Graptolitidæ are also largely distributed over the world. Only three of its twenty-six species are restricted to their own native area—a circumstance not observed in any other Silurian order. In eight species the priority of appearance is doubtful, the dates being the same in the various countries. Fourteen species are foreign; for their earliest appearance has taken place not in Bohemia, but in Australia, England, France, &c.†

Brachiopoda.—Bohemia possesses 321 species of this order; and, except seventeen, they are all native. Sixty-seven are met with in other parts of the world; and of them fifty are either natives or are undistinguishable from them. The seventeen foreigners are all in parts of the lower stage, except two, which show first in the middle stage ‡. More Bohemian Brachiopoda may be expected in other areas; but I have not as yet had time to follow them.

Monomyaria.—Only one Bohemian species of this order has been seen out of Bohemia. It is known also at Dudley and other places in England, and on the same horizon as in Bohemia, and therefore of doubtful birthplace.

Dimyaria.—Of the sixty-six Bohemian Dimyaria, only four are known elsewhere, viz.:—Cardiola fibrosa (Wales, Ireland, &c.) without change of horizon; C. interrupta, in Caradoc in Lancashire,

* Natives.—Acidaspis Buchii, Æglina rediviva, Æ. speciosa, Agnostus rex, Arionellus ceticephalus, Asaphus nobilis, Bronteus thysanopeltis, Calymene brevicapitata, C. diademata, C. incerta, C. pulchra, Cheirurus claviger, C. insignis, Conocoryphe coronata, Cyphaspis Burmeisteri, Dalmania Hausmanni, D. Phillipsii, D. proavia, D. socialis, Deiphon Forbesii, Harpes venulosus, Illænus Salteri, Paradoxides spinosus, Phacops breviceps, P. proævus, Placoparia Zippei, Polyeres Dufresnoyi, Polytomurus euglypta, Remopleurides radians, and five Trinuclei.

† Native.—Graptolithus Bohemicus, G. chimæra, G. Römeri. Doubtful.—Graptolithus Linnæus, G. peregrinus, G. Proteus, G. spiralis, Climacograptus bicornis, Dictyonema Bohemica, D. gracilis, Diplograpsus Linæi. Foreign.—Graptolithus Beckii, Scotland; G. colonus, France; G. Halli, Scotland; G. latus, Skiddaw; G. Nilssoni, Skiddaw; G. nuntius, Scotland; G. priodon, Scotland; G. sagittarius, Scotland; G. testis, France; Diplograpsus ovatus, South Australia; D. palmeus, Thuringia; Rastrites peregrinus, Scotland; Retiolites Geinitzianus, France; R. venosus, Wales.

† Foreigners.—Atrypa compressa, Britain; A. marginata, Britain and America; A. imbricata, Ireland; Leptæna sericea, Spain &c.; L. transversalis, Britain; Discina reversa, Esthonia, Bohemia, &c.; Merista naviformis, New York; Orthis elegantula, Britain; O. hybrida, Ohio; O. Lusitanica, Portugal; O. orbicularis, Baltic; Pentamerus linguiferus, Wales; Rhynchonella cuneata, Scotland; R. navicula, England; R. Wilsoni, Britain; Strophomena pecten, Britain; S. funiculata, Sardinia.

elsewhere in the Upper Llandovery, or higher; England therefore appears to be its birth-place; Conocardium, sp. ind., may be French, but we wait for more information; Ribeiria pholadiformis is in Caradoc in Portugal, but it is in D. d. 1, still lower down, at Vosek and Zahorzan in Bohemia, where, therefore, we place the first appearance of this species of Dimyaria.

Hetero-Pteropoda.—Of the thirty-eight species in Bohemia, by far the majority are natives. In the rare instances where the same species is found in other regions, the stratal zone is the same, as in the cases of Bellerophon acutus, B. bilobatus, B. trilobatus, and Theca simplex. The first three of the above species show themselves in so many and such distinct countries, that we feel inclined to explain the facts by the notion of multiple creations.

Gasteropoda.—Of the fifty-one Silurian genera of this order, Bohemia contains twenty-two, in 245 species; but only the five inserted in the footnote are met with in other parts of the world †, and of these the two species of Acroculia only seem to be foreigners.

The positive rarity of Mollusca under any form coming from other regions is a very strong indication of the Prague basin being with difficulty accessible from without, except on a few remarkable occasions. In the bays and sounds of the present seas the Mollusca change but little, and are peculiar.

Cephalopoda.—It is a singular fact that Bohemia contains more than half of all the known Orthoceratites (396 out of 696), nearly all the species being typical of that country.

Thirty Cephalopoda have relations with other regions. Nine Bohemian Orthoceratites originate in Spain, France, Britain, and Ireland ‡, in the extreme west of Europe, where they are in the Caradoc and its equivalent stages, while they are in the third fauna in Bohemia; three of these (marked *) are also in the Lower Silurian of Russia and Norway. Six Orthoceratites, in the same way, are derived from the North and N.N.W.—that is, from Russia and Norway.

Orthoceras pelagicum is both in France and Bohemia, and probably on the same horizon, like Bactrites nanus, Cyrtoceras læve?, O. bullatum?.

Orthoceras dulce (Sweden, Britain), O. originale (Britain), O. styloideum (France, Thuring.), O. tumidum (Ireland), are native Bohemian species, together with the great body of this order in that basin. We add a few words on this order.

The Goniatites of De Haen (having their maximum in quantity &c. in the Devonian epoch), seventeen in number, abound in many parts of the environs of Prague, especially at Hlubocep, making their first appearance as low down as F. f. 2.

It is probably in the little contiguous parishes of Lochkov and Kozorz, a few miles west of Prague, that the crowd of Orthoceratites is the greatest. Seventy-one species, each consisting of individuals past enumeration, are in Lochkov, overflowing into Kozorz; and forty-three species, mostly distinct, are in Kozorz. There are thirty-two species at Dvoretz, nearer Prague, almost all peculiar to Dvoretz. Further inquiry would, I know, show something like the same state of things in other parts of this Silurian deposit.

This genus is also remarkable in its vertical distribution. It makes 345 appearances in Bohemia (with others elsewhere). There are none in the Primordial stage (Fauna C); but in D we find 24; in E. e. 1,52; in E. e. 2, 203; in F, 22; in G, 40; in H, 4. Here we remark scantiness at the top and bottom, with an extraordinary opulence in E. e. 2, a limestone more or less connected with trappose rocks,—as in the British Gasteropoda.

Recurrence is common; it occurs in 126 species, and especially from Fauna E to Fauna G.

† Acroculia haliotis, Sowerby, (Llan.) Scotland, (Upper Silurian) Bohemia; A. rostrata, Eichwald, (Pleta) Baltic Russia, (Faunæ F, G) Bohemia; Euomphalus monoplectus, E. substriatum, E. trochleatum, Bohemia and Franconia (Upper Silurian).

† Orthoceras ibex *, O. calamiteum, O. irregulare, O. gregarium, O. lineare *, O. Ludense *, O. nummularium, O. subannulare, O. tenuicinctum.

§ Orthoceras distans, O. annulatum, O. Ibex, O. Ludense, O. regulare, O. lineare.

Five Orthoceratites (O. capillosum, loricatum, originale, pseudo-calamiteum, rigescens) permeate almost the whole succession of the upper strata of Bohemia.

The Bohemian Orthoceras annulatum is in the State of New York and Britain, and the Bohemian O. bullatum is in West Canada and Australia,—facts which once would not have been believed; but geological zoology not only deepens into the past, but widens unto the uttermost parts of the earth.

The 302 species of Cyrtoceratites never leave their native stage, and only ascend eleven times into the next subdivision of that stage. Other genera of Cephalopoda crowd these same parishes in abundance, Cyrtoceras in particular; but we have not space for further details.

We are opening out a condition of things in this well-worked basin which is utterly irreconcileable with the hypothesis of natural selection.

We now pass on to make some brief remarks on the zoological relations of the Bohemian basin with some other parts of the earth.

It remains for the present a singular fact that these relations are by much the closest with the Silurian districts in the extreme west and north-east of Europe, at a distance of 800 to 1200 miles. We speak of Ireland, Great Britain, France, Spain, Russia, &c. These countries have 207 species in common with Bohemia, and in the following proportions:—

								Species.					S	pecies.
England								81	Baltic Russia					32
Wales								0.000000	Russia					28
Scotland								32	Sweden					47
Ireland								47	Norway					35
France								48	The Harz .					41
Spain (li	ttle	ex	an	nine	ed)			25						

The above little list tells its own story; but a still closer insight into the relations of these countries is afforded by the subjoined Table.

TABLE P.

alegan bespress po ale begann attions of dissertings Asso solvestibling and	Direction from Bohemia.	Cœlenterata.	Cystidea.	Trilobites.	Graptolites.	Brachiopoda.	Monomyaria.	Dimyaria.	Gasteropoda,	Heteropoda.	Annelida.	Cephalopoda.	Total Appearances.
EnglandWales	W.N.W.	8		6 8	5 7	35 26	1 1	2	3	2	4	15 11	81 66
Scotland	"	7 5		3	5	10	1		1	2 2	3 2 3	4	32
Ireland	"	4		6	2	18			î	1	3	12	47
France	w.s.w.			17	4	15		3 2		1 2	1	7 2	
Spain	S.W.	1	1	14		3		2		2		2	48 25 9 41
Sardinia	S.	1			2	5						1 8	9
Harz	N.W.	1		2	10	17					3		41
Baltie Russia	"	5	***	4		15		***	1	1	•••	6	32
Russia Proper	Ñ.	6		1 6		15	***		1	***	177	6	28
Sweden	N.	5 5		1	2 2	26	***		1 1		1	6	47 35
Norway	* **	5		1	2	18	•••	•••	1	1	1	0	30
Total Appearances		48	1	68	39	203	2	7	9	12	18	84	491

The appearances enumerated in this Table are 491 against 207 species, showing that the same species is used to people several regions. Instances will be given hereafter of the same species inhabiting thirty or more countries.

Every one of these affiliated areas (and many more will in future be added to them) is connected with Bohemia by different groups of extinct life, different in the connecting genera and species both in kind and proportions—these peculiarities being regulated by local circumstances.

England, Wales, and Ireland are remarkable for the great number of their Brachiopoda and Cephalopoda identical with species in Bohemia.

If from these western frontiers of Europe we cross the Atlantic, we shall find in North-east America forty-three species of Mollusca identical with those of Bohemia,—a very suggestive fact, on which the space allotted here will not allow me to speak.

In Great Britain, France, and Spain the Bohemian species are much the same, but each country has a few peculiar to itself. Scotland has Calymene brevicapitata, Rhynchonella cuneata, &c. Wales has Chonetes minima, Leptæna aquila, Orthis lineata, a Calymene, an Agnostis and a Remopleurides. France has Graptolites testis, Orthis redux, Rhynchonella Ceres, a Homalonotus, a Bronteus, &c. In every region the nature of the fauna depends on the fact of deposition or non-deposition of certain beds, and on the effects of denudation.

M. Deshayes shows very forcibly how close are the vital relations of these portions of the Silurian deposit of Europe, by asserting that any two basins have intimate relationship when they each possess twenty identical species, for a still larger identity of genera is sure to follow. But there are areas coeval, or nearly so, which have scarcely a species in common, because peopled under different conditions—such as Canada East (Quebec) and Western Newfoundland, such as the eastern and western ends of the Clinton group (New York). The connexion of the Prague basin with others appears to be much closer than could have been expected, looking at distances and the ever active influence of locality.

The Bohemian species in England and Wales must be considered a very large number. The Table P shows their distribution. Hitherto Scotland has not yielded its full tribute of life; it therefore exhibits a less prominent amount of unity with Bohemia.

The similarity of the Silurian life of France, Spain, Portugal, and Sardinia to that of Bohemia is very striking, and it is rendered the more so by the imperfect manner in which these countries have been searched. France came under the careful survey of very eminent men at atime when organic remains were little regarded. Since that period MM. De Verneuil, Rouault, Triger, Caillaud, and Bureau have made considerable collections, not wholly published.

At the time when the Silurian mollusks of Spain and France were deposited the Pyrenees did not exist, and one great Silurian ocean, filling those two broad regions, occupied much of the interval between these western frontiers of Europe and Bohemia, stretching with many a devious shore of Laurentian and other rocks far into the east and north.

Table N shows that the most remarkable points in the fauna of Spain and France are the abundance of Trilobites in species identical with those of Bohemia, the paucity of identical Brachiopoda and Cephalopoda, and the absence of Gasteropoda.

Two species of Spanish Trilobites met with in Bohemia are Primordial (an Arionellus and a Conocoryphe); and eleven or twelve of them are of the Caradoc age, the equivalent, more or less exactly, of the Bohemian stage D. But in France no Primordial Trilobites are known; while thirteen of its species are in the stage D, just mentioned, and two, Bronteus Thysanopellis, Cyphaspis Burmeisteri, are Upper-Silurian in Bohemia and France. The places of first appearance of these species are therefore mostly doubtful at present.

These two great regions are apparently poor in the other Silurian orders. Spain at present only yields twenty-five Bohemian species, but France, having been better worked, gives forty-eight—numbers, however, which are merely temporary.

Russia maintains her connexion with Bohemia only by a few Brachiopoda, one Trilobite, six Cœlenterata, and six Cephalopoda,—and this not for want of research; for a celebrated visit of three distinguished geologists made palæontology fashionable in Russia. Baltic Russia is nearly as poor in Bohemian life.

Instead of only four Bohemian orders, as in Russia, England contains nine orders, Norway eight, Sweden and Ireland each seven—together, in each country, with a plentiful supply of species.

If we are to believe that the Bohemian sea overspread a large portion of Europe in the early stages of the Silurian epoch, it shows the same amplitude and magnificence of design which is exhibited by the Silurian areas of North-east America, whether we regard their more complete exhibition in the valleys of the Mississippi and the St. Lawrence, or the vast expanse of Upper Silurian strata in Northern and Arctic America, where it is most probable that the Lower Silurian stages never existed. only in 2 offets.

Communities.—The natural history of the communities of this epoch has not as yet received due attention. Professor M'Coy and Mr. Billings have given several interesting skeleton lists of this kind, but they have gone no further. Neither analysis nor conclusions belonged to their immediate duties. Instructive instances of these groupings lie ready in every land. Some of the earliest life with which we are acquainted is found to be in societies, consisting of individuals drawn together by their instincts, and retained for a longer or shorter time by a sense of ease and safety; but no mollusk is absolutely fixed to any one community. Removals are common, andt hey are called acts of migration or of recurrence. What species or genera can or cannot coexist in the same community, the incompatibles and compatibles, from powers, wants, or external conditions, is only partially ascertained.

The bed e. 2 of the Bohemian stage E possesses unusual interest from the number, diversity, and rank of the life it contains.

Of the sixteen * subdivisions established in this basin by M. Barrande, that which he has named E. e. 2 (the seventh from the bottom) is by far the most prolific. Of the 2093 marine forms held by the whole basin, nearly one-half (921) are in this bed, of no great thickness (150 feet?), and principally within a space of fifteen miles by seven. They evidently form one society; for there are no barriers between different parts of the subdivision, and there never were any.

About Kozorz and Lochkov, and for seven miles around these villages, the rocks are the most crowded (see Map), and especially by Cephalopoda, distributed with some irregularity:—the Brachiopoda often at Dlauha Hora, Lodenitz, Luzetz, &c.; the Gasteropoda at Lochkov, Karlstein, Dlauha Hora, Dvoretz, &c.; the Dimyaria at Dvoretz, Karlstein, &c.; and so on, still on the same horizon, E. e. 2.

The Cephalopoda and Gasteropoda are in numbers especially astonishing when we remember that each species brings its thousands or millions of highly endowed individuals. These two orders give us 714 species, or about four-fifths of the organic remains of this bed (E. e. 2). The parishes of Lochkov and Kozorz seem to be the headquarters of the Cephalopoda. They have seventy-five species in common; while Lochkov has 220, and Kozorz 102, exclusively its own.

The following Table (Q) gives, in a condensed form, the known population of fauna E. e. 2 (numerically).

Fauna C. 1 * Fauna D, 5; fauna E, 4; fauna F, 2; fauna G, 3; fauna H, 2; = 16.

Table Q.—Bohemian Life as exhibited in Fauna E. e. 2.

Orders &c.	Species. Total.	Genera, with their Species.
Plantæ		service beautiful to the control of
Amorphozoa	5	Ischadites, 1; Stromatopora, 4.
Cœlenterata	12	Cystiphyllum, 2; Favosites, 3; Halysites, 1; Heliolithus, 5; Omphyma, 1.
Cystidea		Scyphocrinites, 1.
Annelida		Cornulites, 1.
Cirripedes		1:1:00 1 1 : 1 01 1 01: 1 7 - 2
Trilobita	76	Acidaspis, 20; Arethusina, 1; Calymene, 4; Cheirurus, 7; Bronteus, 7; Cromus, 2; Deiphon, 1; Cyphaspis, 5; Harpes, 5; Illænus, 2; Phacops, 6; Proetus, 7; Lichas, 5; Sphærexochus, 2; Staurocephalus, 1; Trilobita, 1.
Entomostraca	4	Ceratiocaris, 2; Eurypterus, 1; Leperditia, 1.
Polyzoa	5	Dictyonema, 2; Fenestella, 1; Retepora, 1; Retiolites, 1.
Brachiopoda	46	Atrypa, 11; Chonetes, 3; Discina, 1; Lingula, 1; Orthis, 4; Pentamerus, 3; Porambonites, 1; Mimulus, 2; Retzia, 1; Rhynchonella, 2; Spirifer, 11; Strophomena, 5; Trematis, 1.
Monomyaria	7	Avicula, 7.
Dimyaria	36	Antipleura, 2; Astarte, 1; Cardiomorpha, 1; Cardiola, 4; Cardium, 4; Cypricardium, 3; Hemicardium, 3; Isocardia, 3; Lucina, 3; Lunulacardium, 3; Mytilus, 4; Pholadomya, 2; Silurina, 3.
Pteropoda	13	Conularia, 1; Cyrtolites (Bellerophon), 8; Ecculiomphalus, 2; Phragmotheca, 1; Pterotheca, 1.
Gasteropoda	125	Acroculia, 29; Calyptræa, 1; Cirrus, 6; Delphinula, 3; Euomphalus, 18; Gyrotrema, 2; Loxonema, 4; Murchisonia, 8; Natica, 4; Naticella, 4; Patella, 1; Pilidion, 1; Porcellia, 3; Pleurotomaria, 9; Rotella, 2; Subulites, 1; Trochus, 9; Tubina, 4; Turbo, 12; Turritella, 4.
Cephalopoda	590	Ascoceras, 10; Aphragmites, 2; Glossoceras, 2; Cyrtoceras, 199; Gomphoceras, 59; Nautilus, 5; Orthoceras, 252; Phragmoceras, 25; Trochoceras, 36.
Class uncertain	1	Lobolithus, 1.
Total	922	The spirit out of a supply of a few man characteristics of the

This Table contains 94 genera and 922 species.

It is difficult to discover any mutual dependence among the numbers of this community as at present open to our examination.

The carnivorous animals could not have subsisted on what we now see, unless they fed on each other; for they greatly outnumber the herbivorous or infusorial feeders, contrary to the usual proportions. I have twice found Bellerophons in the chambers of *Orthocera*; M. Barrande has found young Orthocerata there. The simpler organisms are in this bed exceedingly few.

The Brachiopoda are in patches, the genera very poor in species, except Atrypa and Spirifer. M. Barrande expressly states that there is not the vestige of a plant in all the beds (Défense des Colonies, 1865, p. 304).

Compensation must have been found in animals of a soft structure, which of course have left no traces.

The five orders Trilobita (sixteen genera), Dimyaria (thirteen genera), Brachiopoda (thirteen genera), Gasteropoda (twenty genera), and Cephalopoda (nine genera) exhibit remarkable variety in their forms of life, and the last two are wonderfully abundant; and we miss among others the large order Echinodermata. If we look at the species in this subdivision, we find the genera Calymene and Phacops but poor, and the others, except Acidaspis, very poor. Orthis, Rhynchonella, Pentamerus, and some more Brachiopodal genera are slenderly represented.

M. Barrande's new genera Mimulus, Antipleura, Gyrotrema, and Silurina are here.

It is evident from the argillaceo-calcareous nature of the sediment, from the predominance of free-swimmers, and from the absence of vegetation and of the Annelida, that the Silurian sea was then deep, but not too much so for the coexistence of numerous Dimyaria and Gasteropoda.

Although the mineral passage from any one of M. Barrande's subdivisions into the next is always insensible, or at least slow, the species belonging to bed E. e. 2 very rarely ascend into E. e. 3 or 4, while it is very common for a species first appearing in E. e. 1 to find its way into E. e. 2, and then to disappear for ever.

It is well to add here that the ground occupied by the Upper Silurian strata near Prague, now spoken of, is somewhat irregular, and even rather hilly; so that a large proportion of the parishes show, each of them, several horizons, belonging to stages E, F, G, and H. M. Barrande has enumerated eighteen parishes in which this occurs. Of these I shall only name Lochkov, Dvoretz, Konieprus, Hlubocep. In the foregoing observations we only deal with the one community residing on the bed E. e. 2.

Universality.—In the spirit of the following definition it would appear that the Silurian system of rocks is universal in extent (that is, it overspreads the whole earth more or less completely, covering up its predecessors), and that its component parts were laid down at a proximate time, and in like manner ceased to be laid down, statements approved by M. Barrande. (Bull. Soc. Géol. de France, n. s. xii. 361.)

Definition.—A formation may be considered to be universal when it occupies large and small areas in very many parts of the earth, often remote from, and even antipodal to each other, when it is always of like stratigraphical relations, is composed of like materials, and contains numerous genera of existences in common, together with some representative and some identical species.

In support of our applying this definition to the Silurian system, the 'Thesaurus' exhibits the widest possible distribution of its fauna—a fauna, it must be remembered, which is pure from admixture with that of any other epoch which might possibly have been progressing at the same time. But we have to except, it must be recollected, the few members of the prior period which have strayed into ours.

The 'Thesaurus' contains many examples of the same species of mollusk being in from twenty to twenty-five different countries, countries extensive and far apart, the same creature or creatures marking the route from land to land. This is greatly aided by the power enjoyed by very many mollusks of living on several sediments. In this way the *Theca triangularis* is found in all the many sediments of the Hudson-River group of America.

From a Table drawn up under the inspection of Mr. Salter, we find (in 1866) 195 species common to regions very remote from each other, some of them being antipodal—a fact which tells the more forcibly from the tenacity with which the larger part of Silurian life clings to locality as well as to horizon.

Two hundred and ten species are common to Europe and America. Sixty Silurian genera (truly European) have been brought from South Australia by Mr. Selwyn, the Chief Geological Surveyor of that colony; and Professor M'Coy has met with in that country a Siphonotreta, a Phacops, and eighteen species of Graptolites absolutely identical with those of North America and of Europe. The Professor strongly expresses his surprise and delight.

According to M. Barrande, Orthoceras bullatum (Sowerby) is at Melbourne (South Australia), in Ireland, Bohemia, Germany, and Russia; Conocoryphe depressa is in Wales and Texas (N. A.). Western Tasmania, the Himalayas, Russia, South and North America, and many other large divisions of the earth afford ample evidence of the general presence of the constituents, zoological and mineral, of this period.

The following Silurian remains are so widely distributed that they may almost be said to be universal:—Calymene Blumenbachii, Orthoceras annulatum, O. ibex, O. nummularium, Graptolithus priodon, G. sagittarius, Leptæna depressa, L. sericea, Orthis testudinaria, O. elegantula, O. hybrida, O. Wilsoni, Atrypa marginalis, A. reticularis, Pentamerus galeatus, P. Knightii, P. oblongus, Strophomena pecten, S. rhomboidalis, Bellerophon bilobatus, Conularia Sowerbyii, Cornulites serpularius, Tentaculites Anglicus, &c.

The Silurian beds, it must be borne in mind, are usually visible in mere shreds and remainders in the best-worked places. They are apt to consist in any one place of a stage or a part of a stage, the other portion being removed by denudation, or covered up by later deposits for hundreds of square miles; or they never existed, the locality in the last case having been in a state of emergence during certain periods.

It is in the Arctic seas of America, South-eastern Hudson's Bay, Sardinia, Spain, and such like imperfectly known countries that certain important stages are said to be wanting *. But the visible geographic spread of these strata is often very great. So extensive are the easily traceable Silurian areas of North America (2000 miles across) and the more disturbed and fractional areas of Western Europe (1200 miles across?), that it only needs a short and easy step in advance to induce a belief in a former universal prevalence and external domination of this system.

Sufficient territory resting on Silurian rocks has been spared from oscillatory action to enable us to trace it, in one or other of its parts, over a large part of the earth. We follow it, with many a bend and gap, from England, through France or Spain, into Germany, Turkey, Russia, and so on, to India and Australia. Or we arrive in North America, the interspaces being filled up either by sea, by newer rocks, or by kindred Palæozoic rocks, which themselves irresistibly bespeak our strata near at hand. Here, as well as in South America, this period is in abundant display. More than fifty great terrestrial spaces, scattered over the whole earth, are occupied with some portion of the Silurian succession of rocks, with their proper stratigraphical habitudes, connexions, &c.

This is only a very small fragment of the argument in favour of the universality of epochs as defined above. It is a great fact, and it enables us to apply to one end of the earth information and reasoning gathered at another.

Locality.—The 'Thesaurus' brings conspicuously into view the great influence of locality on the nature and amount of life.

It is a *power*, in the strongest sense of the word, universal and great; or rather we ought to say that it operates by a concentration of powers peculiar to itself. We shall see in some thousands of instances that localities had exclusive privileges in regard to life, as far as we now know.

In every considerable region the collector finds much that is new and peculiar, the union with other Silurian districts being often mainly generic. And it is so at the present day. Every tolerably large space of sea-bottom has its own conditions and its own fauna. The exact nature of that sea-bottom cannot be safely predicated; for it is only to be learnt by actual examination. The physical state of land and sea was and is as local as the population; for it is produced by plutonic and other agencies, all limited in space. So the dwellers among these local changes must be local too, and subject to removal at any moment. Thus, if we suppose a rocky islet to be placed to-day in the sea, then immediately a new set of actions begin to operate upon materials around, organic and inorganic. Most of the old things and conditions disappear. New shore-lines, new currents, new depths, and new life appear. The first occupants of any portion of the globe who shall point out?

The maximum of life is usually local, meaning, by that expression, the largest combination of abundance, variety, and rank. It may show itself in any country, in any part of an epoch, or of a stage, in the middle or at the end of either, being governed principally by the nature of the sediment.

The rich Primordial beds of Western Newfoundland and of Quebec, the crowded Pleta beds of Esthonia and Russia, the Trenton limestone of the State of New York, the Bohemian beds E. e. 1, 2, some of the Welsh beds near the same horizon as those of Prague, the Lower Helderberg rocks of New York, are all striking examples of localization in time and place.

Parts of the Middle Silurian of Wales and New York present great dearth of life, and for a well-known reason. Even the rich Silurian strata of Bohemia are occasionally only so in the form of oases, the sediments around them having scarcely a single tenant. The Potsdam sandstone of the St. Lawrence and Mississippi valleys gives no signs of life for many thousand square miles, except in patches, peopled chiefly with Lingulæ in incalculable myriads.

North-east Central America (the United States and the Canadas) has probably received in an equal degree with Europe the attention of the palæontologist; but the latter, up to the year 1866,

^{*} Dr. Hayes is said to have met with a patch of Lower Silurian in the Arctic seas.

has proved the richer by about 1200 species. This is to be attributed partly to the nature of the two regions *, and partly to the successful labours of M. Barrande †. The Table (R) placed below is intended to show this.

Orders.	America.	Europe.	Or	ders.	America.	Europe.
Olders.	Spe	cies.		ucro.	Spec	ies.
Plantæ (Kingdom)	56	20	Brought	forward	1045	1021
Amorphozoa	58	64	Constant	Trilobita Entomostraca	396	1008
Foraminifera		25	Crustacea	Entomostraca	75	170
Annelida	36	98	Brachiopoda		678	721
Hetero-Pteropoda		144	Monomyaria		78	56
Polyzoa		177	Dimyaria		181	241
Cœlenterata	262	245	Gasteropoda		421	274
Echinodermata		156	Cephalopoda		321	861
Cystidea		63	Pisces		2?	34
Asteridea	29	29	Sedis incerta	8	4	2
	1045	1021	Total		3201	4388

Although this Table contains 1500 species less than the number with which we are now (1868) acquainted, it is believed that the reader will be led into no serious error by adopting it.

We see from it that the Cephalopoda, Crustacea, Brachiopoda, and Annelida of Europe largely exceed in number of species those of North America, while in nine orders the two hemispheres are about equally provided. America surpasses Europe in the number and variety of its Echinodermata and Gasteropoda, as well as, to a smaller extent, in the Polyzoa and Cœlenterata. There are also here other particulars worthy of note.

I am not prepared with any inferences from these facts. We know, however, that the mineral constitution and the external influences of these several parts of the earth were different—not that the first is of so much importance as was supposed.

Many species are marked as undefined in the 'Thesaurus,' because they are often only known by fragments.

Out of 9030 species of marine creatures now (1868) registered as belonging to the Silurian period, 4628 are only set down as met with in one locality of a certain radius. This has been ascertained by careful search into the writings of the most accredited palæontologists; and it is applicable to the works of Barrande, Billings, Hall, M'Coy, Sowerby, Salter, and many others, especially to those of the very able explorers of the United States (Conrad, Shumard, Meek, &c.).

There has been no further inquiry into the *number* of places (ranging from one to twenty-five or more) inhabited by the same species, excepting among the Cephalopoda of Bohemia; of these, 190 more appear, each only in two places.

From our total flora and fauna, therefore, there remain 4402 species to people the Silurian strata, each in two and many more places; this they do amply. In 4628 species typical of one place, we hear little about varieties or transitional forms, although the former of these are common. Neither can it be safely said that natural selection in these cases has perfected its work; for these species usually belong to communities consisting of several genera.

Such a very great number of species being each restricted to a single locality, is an important fact. They are so many specific centres, and probably will never be much curtailed. It indicates that

^{*} Some countries yield a smaller harvest than others because the rocks are accessible with difficulty, as in all forest-lands, plains, and all hills buried in sand (Africa)—where the coasts are flat, the rivers few, and their banks low—where metamorphism has been active, as in the interior of Newfoundland (Murray)—where no rock-sections are made for public purposes.

[†] Large additions to the fauna of Bohemia have been most kindly sent to me by M. Barrande since Table R was constructed.

when species are common to two sets of beds more or less apart, the connexion between the latter is closer than has been hitherto thought, and, further, that the absence of identical species in the two beds does not forbid considerable relationship. Edward Forbes goes further, and says that a large proportion of all known species of fossils are founded on a single specimen, &c. (Proc. Geol. Soc. Lond. vii. 52). It certainly seems that there was considerable stagnation of movement in those times—a great arrest, cosmic, because universal.

Multiple creation is implied, going on everywhere, and affecting every form of life. The grand mystery of creation has been in operation all through the epoch in thousands of places. Ordinarily the Crinoid and the Cephalopod found graves in argillaceous limestone, the Lamellibranchiate in a mixed sandy mud, and so on.

When we find a species only in one set of conditions, we obtain but a partial acquaintance with its habits and modifications; we appear to be only at the beginning of our work.

By way of bringing these facts before the reader in some little detail, the following Table (S) has been prepared.

Compared with the totals given in p. vii, it will be seen that in each order the tendency of the species inhabiting only one place is to one-half of the whole number. The Trilobita, Brachiopoda, Gasteropoda, and others fall short of it; while Crinoidea and Entomostraca (as might be expected), together with Dimyaria, are all three in excess of their respective moieties. All the species of Pisces and incertæ sedis belong each to one separate place.

Table S.—Exhibiting the number of Silurian species known only in one place.

Orders.	Nos.	Orders.	Nos.	Orders.	Nos.
Plantæ (kingdom) Amorphozoa Cœlenterata Crinoidea Cystidea Asteridea Annelida	220 229	Brought forward Cirripedes Trilobita Entomostraca Polyzoa Brachiopoda Monomyaria	812 6 708 198 265 699 87	Brought forward Dimyaria Pteropoda Gasteropoda Cephalopoda Pisces Incertæ sedis.	2775 287 210 454 858 26 10
	812		2775	Total	4620

We will proceed to mention a few of the more striking facts connected with locality.

Silurian fish are only spoken of as existing in Bohemia, Britain, Russia, and the State of New York; but they must be in other countries.

Out of our sixty species of the genus Asaphus, only one is known in Bohemia—and no Olenus, a large genus elsewhere. The genus Dikelocephalus (Trilobita) contains thirty species, but only three exist in two areas; twelve are near Quebec, and there only; nine others are in Minnesota; and Texas with Vermont have each one,—all distinct species.

Each of the twenty-seven known species of *Maclurea* is confined to one spot. Twenty are American only; and of these, eleven are seen on the western coast of Newfoundland, and principally at Point Rich.

Together with many members of other orders, at least 112 species of the genus *Cyrtoceras*, twenty-seven of the genus *Trochoceras*, and thirty species of *Orthoceras* are huddled together in the adjoining little parishes of Lochkov and Kozorz, near Prague. As with the many other Mollusca placed there, these species are unknown elsewhere; migration seems to have been impossible.

Most of the Bohemian Brachiopoda are in the rocks around Konieprus and Mnienian, and are peculiar to them. Out of the general body of the *Orthides*, numbering 331 species, only two are supposed to be in Nova Scotia. Of the 132 species of *Murchisonia*, again, but two species are there, and not one of the 171 species of *Pleurotomaria*, a conspicuous shell. On the other hand, Nova Scotia holds one half of the genus *Cleidophorus*, and Tasmania is singularly rich in the

Palæarcæ, while the shales of Point Lévis, near Quebec (and the shales only), are crowded with various species of Graptolites, seen for the most part nowhere else.

These singularities in the geographical distribution of the Mollusca will be explained at the same time with those of the present fauna of Australia, South America, Madagascar, &c.; but the manner of so doing is still to be wished for.

The sedimentary strata containing our 9030 organic remains exhibit ample traces of localization. Upon this subject our space admonishes us to be very brief. The sedimentary strata consist of a few simple forms, about eleven in number, varying in the proportions of their ingredients, in aggregation, and in mass; but still the limestones, schists, &c. of the most distant countries, and of different parts of the epoch, may be undistinguishable. Many a time, of hand specimens from the Silurian, Triassic, and Jurassic periods, &c., the same may be said. All strata and masses of rock are local, as well as their mineral variations, in breadths of greater or less size. Here a bed is missing, there another, while intercalations, overlaps, and breaks are not unfrequent. Beds being local is not perceived and acknowledged except when they are so small as to permit of being easily traced. In North-east America the Oneida conglomerate, the Onondago-salt group, and the Oriskany sand-stone are striking instances of intercalation—of beds only occupying portions of a basin. Doubtless the same occurs in the Old World.

The Oriskany sandstone is particularly worthy of our study. It is now known to extend to the south of New York, and very far to the north-east of that State (Dana). It is composed of the unaltered débris of granite, gneiss, and mica, in the form of sand, gravel, and lumps, largely infiltrated with lime. Usually without organic connexion with the limestones below, it indicates the beginning of a new period, and is in fact the base of the Devonian.

First Appearance.—This may be considered, practically, only another term for the date of its creation, liable indeed to mistake in individual cases, which, however, sooner or later meets with correction. While I give my full belief to the sublime utterance of the prophet, "I have made the earth, the man and the creatures that are thereon, by my great power" (Jer. xxvii. 5), the present observations rest wholly on natural-history facts derived from the 'Thesaurus' and similar sources.

By far the most important part of a geological formation is its life. Mineral substances, always few in number, are simply ministerial to life.

The first appearance of individual existences seems to be a normal transaction, not a casual, as it appears to be; for the great result is beneficial and harmonious. It takes place (we know not how; no eye saw it) among conditions prearranged for healthy subsistence, and not by transmutation.

Life started into being, necessarily, in societies both composite and simple; the composite at once, in the beginning of a stage or at any other time—Radiata, Mollusca, Annelida, Articulata, all showing themselves simultaneously, or nearly so, for they subsist on each other. The sporadic method is common to all parts of an epoch; for there has always been a sowing of solitary forms, together with considerable retention of the old population; and there was a growth in numbers until a change in conditions came. All this is well known.

It is a very striking fact that the great majority of the Silurian fauna made their first appearance on the same horizon—that is, everywhere on, proximately, the same stage or subdivision of the epoch. The same strata can occasionally be traced with accuracy, and often with little change of constitution, for more than 1000 miles (Potsdam sandstone), but oftener not. In this manner we learn that the conditions were similar in these regions. The recurrent species form the exceptions.

The lowest traceable place in the succession of strata in which a mollusk is found must be held to be that of its origination or first appearance; and the fact may be reasoned from with tolerable safety. Thus we all believe in the various periods at which the *Goniatite*, *Ammonite*, *Trigonia*, and *Helix* first showed themselves. When treating on recurrency, this subject will receive further consideration.

On the Duration of Species (chiefly).—This is an important part of vital statistics, which, running up the whole scale of existences, reaches and deeply interests man himself. This subject introduces us to masses of time beyond our conception, but not beyond the vital force of some genera and species to endure. Families and orders are little affected by the flux of time, or of conditions, but genera more so—some, however, living through many periods. We shall see that, with certain exceptions, the life of a species is far shorter, while that of an individual is incomparably so. So numerous are their generations, that it is idle to speak of them as less than hundreds of thousands.

Continually liable to unforeseen occurrences, the duration of Molluscan communities is very precarious; it may be stopped by the loss of a genus.

Oscillation is the parent of many of the direct causes interfering with organic existence of all classes.

As a general law, the viability of a species is in the inverse ratio of its organic rank—each species, nevertheless, having its own quantity of endurance. With individuals this law is reversed; the higher the rank the greater the viability. While the wants remain the same, the means of satisfying them are more effective. The points of contact with external things less expose them to damage, than they are means of support and safety. The individual man lives longer than the monkey, the horse than the fowl, the bird than the oyster. The duration of individual life may perhaps be measured by the rate of development (M. Dufo). This subject is yet in its infancy.

We suppose the various stages, whether Primordial, Oslo, Caradoc, Wenlock, or Niagara, to have occupied a deal of solar time, while individual life was short. It might have been, as at present, a day, a season, a year, or a term of years—periods very brief in comparison with a stage, a subdivision.

The simpler organization of the Protozoa and Diatomacea, but especially their extreme fecundity, enables them to resist successfully all the agents of extinction.

Passing by the several vague opinions on this subject previously put forth, I shall only mention that of Prof. Bronn and Mr. S. P. Woodward (with the priority here I am not acquainted). They have concluded that a species generally lives through one-third or one-half of the duration of the set of beds in which it appears. Although this statement wants precision, it was an approach to the truth. M. Bronn, after much consideration, tells us that only a quarter or a sixth of the fauna of a stage has a duration equal to that of the "terrain" containing it (Prize Essay, p. 357), and in further proof quotes an interesting table from Mr. Searles Wood's Monograph on the Crag fossils (Palæontograph. Soc. 1848). This Table, with others, proves that the species ordinarily thought to represent a "terrain," or a fauna, only continue through a part of it. Darwin (Origin of Species, p. 293) says that insuperable difficulties prevent any just conclusions on this point.

Whatever may be thought of the above paragraphs, M. Barrande has poured a flood of light upon us. For Bohemia he has given us a true relative measurement of organic duration, and therefore more or less applicable to all other countries. M. Barrande has supplied the great want—a careful assignment of fossils to their proper places in their one or more stage-subdivisions. He subdivides all the fossiliferous strata of Central Bohemia into parts 1, 2, 3, 4, 5, according to observed peculiarities: see pp. xxiv, xxv.

M. Barrande shows that of 396 species of Bohemian Orthoceratites, thirty-two began and ended their existence in the first subdivision (E. e. 1), thirty-eight more passing into E. e. 2, there to perish, and that one hundred and ninety-six appeared in E. e. 2 exclusively, not a single Orthoceratite reaching E. e. 3, a subdivision entirely destitute of them (and of Cyrtoceras). Fauna F. f. 1 has only five typical species; F. f. 2 has seventeen, G. g. 1 has twenty-three, while G. g. 2 has three, and G. g. 3 thirteen, H. h. 1 having only two. All cease to exist with their respective little group of beds. Some recurrents have been omitted, but not many.

The genus Cyrtoceras of Bohemia exhibits the following remarkable evidence of the brief life allotted to its species. In fauna E. e. 1 there are twenty-seven species appearing and disappearing within that subdivision, save ten, which ascend into E. e. 2, but no further; while in E. e. 2 alone

there are 199 which are never seen elsewhere. The remaining thirty-two species, which make up the 258 existing near Prague, are scattered about in faunas F. f. 1, 2, and G. g. 1, 3—each species in one subdivision only.

The Bohemian Brachiopoda are 321 in number as known at present. Out of this aggregate, 223 species (my stock until within a few weeks), only thirty-nine live in one horizon, or about one-sixth; but the determinations being sometimes imperfect, this statement is only partially reliable. Ninety-eight more species from the same generous hand have reached me recently. They are in fourteen genera. Of these only four species appear in more than one part of a subdivision.

The Bohemian Trilobita are in 352 species; respecting half of them there are good data. Of this half (189 really), 127 live only in one part of a subdivision, thirty-four go into the next stage, and twenty-eight into several parts of the same faunal subdivision.

The Bohemian species of Pteropoda are ninety-seven in number. Seventy-seven do not outlive their native subdivision, such as D. d. 5, E. e. 2, or F. f. 2, &c.

This Prague area has 248 known species of Gasteropoda. Of these, 232 die out at the close of their respective subdivisions, in whatever stage they may be.

An examination of the other orders, Dimyaria &c., would only lead us into a repetition of the above statements. We see that, leaving the recurrents out for the present, a species only exists in Bohemia during a part of a stage-subdivision, and that the organic separation of part from part is very sharp—leaving but a brief interval for the exercise of natural selection.

The fauna of the earth appears in these times to have been renewed incomparably more frequently than has been supposed. In a Presidential Address by Prof. Ramsay (Quart. Journ. Geol. Soc. vol. xx. p. 59) are many valuable statements on this subject. They were arranged and prepared by R. Etheridge, Esq., F.R.S.E., and, although directly applicable to the Oolitic formations, agree in the main with the observations just made on the Silurian fauna of Bohemia. Every geologist should make himself familiar with this address.

We can only stop for the present to draw two important conclusions.

The act of creation was continuous and frequent throughout every part of every stage of an epoch, conditions permitting.

Some species had a prodigious duration; that of the greater number we have seen to be short relatively. Measured by solar time, by the vast extent of molluscan dispersion, and by the rate of sedimental accumulation in recent times, this duration was always great.

EXTINCTION.—All beings are made finite by the action of two laws. The great First Cause has impressed upon all creatures a certain rate of progress (during youth), maturity, and decadence, ending in extinction. Then, again, all beings are subject to external conditions, favourable and unfavourable, which assist in the production of an average longevity. These may be called the laws of *impress* and of *conditions*. Extinction of life is commonly slow, continuous, individual, and sometimes is more rapid than replacement from without or than by acts of creation. Sudden acts of extermination are exceptional, brief in time, and limited in space.

The extinction of an *order* is very rare: it implies the lapse of more than one epoch or era. In the same way the disappearance of a *genus* is of more importance than that of a *species*, because it tells of a greater change of conditions.

Local groups consisting of one species are not uncommon; but the great bulk of animal life is formed into societies more or less complex, their members living in a state of mutual dependence. A number of their species, or even of their genera, may disappear without the dissolution of the society, because compensations may arise from various sources. Examples of these societies are numerous in the great work of Sedgwick and M'Coy (Benson Knot, Dudley, &c.), in the writings of Mr. Billings (to whom I owe so much), and others; but they may be constructed in almost any number, with singular exactitude, from the Silurian basin of Bohemia *.

* Mr. Lycett (Journ. Geol. Soc. Lond. vol. iv. p. 42) gives an interesting example of a community from the Great Oolite near Minchinhampton.

The causes of extinction are in universal operation. They are cosmical. Silurian life was discontinued everywhere at the same time, proximately.

There is no example, as far as I know, of a Silurian *community* rising, by migration or otherwise, into Devonian or Carboniferous strata; but single species do, and somewhat largely, just as we see in every epoch up to the present.

Little appears to suffice for extinction, so obscure, delicate, and slow are some of its causes. They are of course of a mixed nature, as was observed at the beginning of these remarks. The chief of those which are mechanical is oscillation. Oscillation alters the form and the proportions of land and sea, changes sea-bottoms, depths, currents, and temperatures, and this in various degrees of intensity, from merely occasioning uneasiness, to the infliction of immediate death. Examples of all this are plentiful. Under the last mentioned state of things the oscillation is irresistible. After a period of confusion and agony, existence ceases, except in cases where the summons to depart was instantly obeyed. This fatality happened to the beautiful Devonian Crinoid, Hypanthocrinus, on the Pennsylvanian shore of Lake Erie; it was suffocated by a sudden mud-flow. In palæozoic times changes in climate were probably rare; but a lowering of temperature is always a powerful cause of extinction. When the change of level is moderate, life may be continued with diminished energies. Readjustments, reparations, and slow accretions of new life now take place.

Oscillation does not permanently lessen the amount of Silurian or other life; it changes its forms, and perhaps the precise locality. It may confer new food and shelter, take away or modify either. As long as levels are stationary, genera and species make healthy and happy use of their instincts, with but few intrusions or desertions; but a change of level brings both.

When sea-levels are being depressed, all the zones of life are in distress, in proportion to the rate and extent of the process. It is a process which is always visibly going on now, in some part of the earth or other. The whole marine population then move upwards, with some few exceptions. In times of elevation the general life-movement is downwards, the littoral mollusks being left high and dry to perish; the red-weed-loving animals are ill at ease on the new littoral, covered with rotting algae, and the nullipore-browsers are equally so in their new place; probably the deep-sea mollusks lose in quietude, nourishment, and temperature; so that let there be oscillation, and all animated existence is set in motion, not only within, but beyond the disturbed area; for wanderers will inconveniently crowd the outer residents in quiet seas.

But this unstable area may become a place of rest, when it will be gradually peopled by suitable organizations, driven from troubled homes, and glad to occupy the void. This new peopling seabottoms from a distance need not perplex the naturalist; it is an affair of causes, all within the epoch. No form of life alien from the existing epoch can enter, except a few recurrents. There is no mingling of epochs.

The first Great Cause has granted to all His creatures great liberty of action. Zones of residence are very broad, except for a few. Neither depths nor sediments are adhered to very strictly by the Silurian or any other fauna, the sediments themselves (sea-bottoms) being formed at almost every level.

After this digression, we add a few words on the vital or physiological causes of extinction. The genus, species, or individual may exhaust its term of life. We see this term (average viability) in all animals. In conformity with it each dies, if permitted by external events. The life-term of species varies exceedingly. By far the larger number of them we have seen to have a very brief existence. The species simplest in point of structure, the Amorphozoa, Cœlenterata, Polyzoa, &c., do not enjoy any peculiar longevity, if we are to believe the 'Thesaurus'—with certain exceptions.

The mutual relations of the members of a molluscan community have great influence on its preservation or destruction. The carnivorous portion may be too active, or the herbivorous too few; and the same may happen to other branches of it. Epidemics arise, touching only one form of life, but nevertheless fatal to the whole. The population may become so large as to press severely on subsistence, when one of two things, or both, will take place—an unusual fatality, or a forced

migration. This is very liable to happen if two or three species (or genera) reach their maximum of quantity and power at the same time and at the same place; the equilibrium between want and supply is destroyed. Deaths may exceed the births in number, from an unusually hot or cold season, from scanty food, or from a change in the mineral ingredients in the sea; it may have become brackish, fresh, or too salt. Instances of such conditions abound. The operations of man have but slight effect on marine life.

MIGRATION.—Any considerable removal of a living creature from place to place is called migration, whether directly by its own act or not. It is called transport when life has ceased. At present we speak only of the inhabitants of the Silurian sea. Migration has always been a great fact, and must often occur to an animal of fixed wants living among varying conditions. It colonizes unoccupied spots by swarming from crowded places, throws foreign life into old communities, thereby conferring variety, perhaps together with some advantages.

The processes of nature are in ceaseless operation; portions of the sea-grounds are continually being made unfit for the occupation of organic beings, and then again are restored to their use: so it has always been. Here migration comes into play and builds up comparatively permanent societies. A living individual is set in motion by external agencies; and sooner or later it fixes upon some one spot, there it remains, and it either dies, languishes, or prospers. Living, it spreads by reproduction; meanwhile it is joined by other individuals in growing numbers. Some of these, finding appropriate conditions, flourish, and a community is eventually established, which divides and subdivides, and flits about (within narrow limits, it is true) in search of food, shelter, and other necessaries. Communities (genera and species) take action, and remove when necessary; but the impulse is from the individual: it is in his interest. Migration in Silurian times must have been hazardous, but more so now, when exterminating agencies are more numerous.

In those times (as now) there must have been failure upon failure in changing their abodes, down the measureless flow of time from the Silurian to the Permian formation; and we know of generic forms which have made this long voyage.

We usually trace the march of the migrant but imperfectly, but at other times pretty well, from land to land, because it often forms settlements as it goes.

Every free animal is by nature a wanderer in search of pasture and security, the lowest forms having the greatest migratory power. This process may be in abeyance; for a community may be stopped by great depths, hedged in by high sea-cliffs or by sea-deserts of sand and shingle, impassable, especially by the herbivor—just as some of the Bohemian Trilobites occupy small patches in the midst of an untenanted waste. Extent of dispersion is in proportion to these and other obstacles, as well as to viability. Or the creatures may have been content with their quarters; for the individual stops on the instant that his wants are supplied, the next move perhaps being made by his uneasy progeny. Communities sometimes leave their abodes all in a body: they are either swept away by a high tide, or some such strong current, or, as must often happen, the herbivorous division move away in search of food and shelter, and the carnivorous must go with them necessarily. Each act of migration has its own direction, distance, and method, about which something will be said in the sequel.

Whole communities have been known to return together to the country they had long abandoned. Mr. Godwin-Austen gives a remarkable instance of this kind of repossession in the Palæozoic rocks near Boulogne (France). Here alternations of level have introduced into the same area, successively, distinct assemblages of suitable marine life, one or two of them actually accomplishing a repetition of occupancy (Journ. Geol. Soc. Lond. lx. 244).

The only entirely satisfactory proof of a fossil having begun to exist in another place or horizon than that in which it is first seen is its being so found; but the following marks taken together (more or fewer) will leave little room for mistake. The migrant is apt to be solitary, with no kindred, young or old, around it. It may be in a coarse foreign sediment, travel-

stained, abraded, or greatly damaged. The facies of the new neighbourhood and its fauna may be inconsistent with the idea of the new fossil being a native.

In the power of migration the Mollusca vary greatly. Many mollusca, fixed during the early portion of their life, are free to rove at pleasure afterwards, and *vice'versā*. They travel much in the ova, or as fry. In the Lake of the Woods (Rupert's Land) great numbers of minute, yet delicately elaborated, trilobites were found in a Ludlow rock. The same occurred in Wales to Mr. J. W. Salter. These creatures were easily transportable.

The sum of migratory power seems pretty equably distributed among the several orders, except the Echinodermata and one or two more,—the sources of this power, it is to be recollected, being of different kinds.

The Brachiopoda, Cœlenterata, and other sea-life are swept away by currents, and take their chance of survival at new stations.

The oceanic free swimmers, Cephalopoda, Pteropoda, &c. travel far and near, Gasteropoda beginning life in the Pteropod form (E. Forbes, Edin. Phil. Journ. xxxvi.).

The many modes of migration over sea-bottoms, active and passive, are well known.

The faculty of sustaining great bathymetric range must essentially assist the migrant; and it was common and powerful in the Silurian epoch, as we learn from the numerous "grounds" frequented by many of its faune. This is well shown in Table xix. (Quart. Journ. Geol. Soc. Lond. vol. xv. p. 315) *, as corrected by Mr. J. W. Salter. Together with the accompanying text this Table contains much matter concerning Silurian nature, which need not be repeated here.

Here that portion of the fauna which, from their wide distribution, have been called "universal" are found in eight, nine, and ten different sediments. In proof of this I subjoin the following little Table. It is merely a selection of some of the more striking instances in the several orders,—neglecting the number of sediments below seven. Where the mollusca can exist in health on many sediments, they can travel far; for considerable changes of depth are implied.

Sediments. Sediments. Sediments. Species. Species. Species. 8 7 10 9 7 Favosites alveolaris ... Asaphus tyrannus ... Theca triangularis + Cornulites serpularius Encrinurus punctatus Pterinæa retroflexa ++ Stenopora fibrosa Bevrichia Klædeni ... * Cyclonema crebristria ... Bellerophon bilobatus Atrypa reticularis Orthoceras subundulatum Tentaculites anglicus... Graptolithus priodon ... Orthis elegantula

TABLE T.

Mollusca, except free swimmers, are slow travellers; but like the Crustacea, with a sufficient allowance of time they move to great distances when assisted by shore-lines and some steadiness of ocean depths. The fauna of the north-east coast of North America, from Nova Scotia to Virginia, is nearly the same.

The directions taken by Silurian mollusks in leaving their birthplace must have often depended, as now, on oscillatory movements. They had to follow the level most advantageous to them; neglecting this they must have suffered, and perhaps perished.

The Silurian areas in both the New and the Old Worlds were so extraordinarily large that their inhabitants had very free range. The directions taken by the majority are easily obtained from the 'Thesaurus,' through a knowledge of their points of origin.

There are many modes of treating the subject of direction in migration. We have already taken Bohemia as a fixed point of centre, and ascertained the directions from which, and to which,

[.] On the habitats of the fauna of Wales.

various species came and went. This might be done profitably with Great Britain, Esthonia, or any other tolerably worked country. But here we have not space for what can easily be done by any student from the 'Thesaurus.'

We shall now trace the directions pursued by the 210 species which are common to North-east America and Europe (western especially). They are set down in the following Table (U).

Table U.—The Directions (east and west) of Species in transitu between North America and Europe, together with the Isozonals of both Hemispheres.

Directions.	Plantæ.	Amorphozoa.	Cœlenterata.	Echinodermata.	Annelida.	Trilobita.	Entomostraca.	Polyzoa.	Brachiopoda.	Monomyaria.	Dimyaria.	Heteropoda.	Gasteropoda.	Cephalopoda.	Pisces.	Uncertain Class.	Total.
From Europe to America (W.)	2	2	7		2	8		1	6			4		3			35
From America to Europe (E.)		1	4			1	3		14	1		2	1	3			30
The Isozonals in both hemispheres	1	2	6			15	1	30	52	4	8	10	7	9			145
Total	3	5	17		2	24	4	31	72	5	8	16	8	15			210

But first some necessary observations must be made.

The sedimentary differences between the hemispheres, persistent more or less through the whole succession, together with the great interval between the areas, and the size of these latter, forbid the idea of there being very intimate fossil connexion in this case. The differences begin in the Primordial sediments, which are remarkably dissimilar; while in the lower stage the ingredients, quantities, mechanical condition, and time of deposit agree but little, and the like must be said of the middle and upper stages.

The summit beds of the British Upper Silurian are arenaceous mudstones, with a little lime, all capped by a red ferruginous sandstone (Devonian). Those of New York and the British provinces are mostly argillaceous or shally limestone, covered up with a vast coating of crystalline grit, from the detritus of granite, gneiss, and mica-slate, unaltered, except in being saturated with calcareous matters (Oriskany sandstone).

The influence of sedimentary differences, although it has been exaggerated, is still very great.

The Atlantic ocean possibly contains Silurian areas, and also possibly conceals migrant stations along the route across. Both sides of this broad sea exhibit long stretches of Silurian coasts.

Norway gives up twenty-six American species, and Sweden thirty-eight—many of the latter country being Norwegian also.

Ireland has several remains characteristically American. The Silurian strata of the north-west end of Scotland are notorious for being intensely American. They contain some of the most remarkable and rarest fossils of the West, of the genera *Piloceras*, *Maclurea*, *Ophileta*, &c.

The half of specific Silurian life being at present only known at one place, we are compelled therefore to look to the other half for the migrants. From these also, for certain reasons, a further deduction of 400 species at least must be made; so that we have little more than 4000 to deal with.

The Table U, although seemingly on a small scale, is extremely interesting. Every known area * has been searched; and most parts of Europe send their quota. Each order being kept apart, every species going east or west is in its proper place in the Table, together with the Isozonals, by which expression is signified that numerous body the species of which are scattered over the world on the same level.

Many Australian Graptolitidea also are plentiful in Canada, but they have not been inserted in the Table, in order to preserve oneness of subject.

The Isozonals in the Table U are more than double the number of the migrants, these latter being somewhat few, because of the distance traversed, and because this is only one of many such lines of molluscan journeying.

We remark that the number of migrants from America to Europe is less than that of those going in the opposite direction, so that the exchange is against the West—an unexpected and disappointing conclusion; and we see that the orders likely or unlikely to travel behave as might have been expected, Cœlenterata, Trilobita, and Brachiopoda being the most active of all, while the two last, together with Polyzoa, most abound with isozonal species common to the two hemispheres. This Table contains six orders having no species making this traverse, not even the Dimyaria, an order holding 526 species.

In 1866–7, before I received further contributions from M. Barrande, the species registered were 7767, and the appearances were 10,447. But as it has already been explained that we have to do only with half the former number, it results that every species which moved at all passed into two other countries, or nearly (3883 species, 10,447 appearances), because the appearances were in very numerous instances not set down for want of space.

But this statement affords a very imperfect view of Silurian migration or dispersion; for a certain number of species of almost every order are planted east, west, south, and north, in 5, 7, 10, 15, 22 countries, almost belting the world; whether by radiation from a common centre, or by ordinary migration, is not yet known.

This is true of the quasi-universal species already mentioned, and of many others. As a rule, but with exceptions, this scattered fauna is always on the same stratigraphical level, whether that be of the lower or of the upper stage.

A Montreal fossil we trace southwards to Pennsylvania, westwards into Minnesota, and eastwards to Anticosti; Minnesotans are found in the Texas &c. The Australian *Diplograpsus pristis* (Hisinger) also flourished in Britain and Canada on the same zone.

The Illænus crassicauda, Favosites Gothlandica, several Leptænæ, Orthides, and other genera mark with their presence lines 6000 miles long, attracting notice first in Canada, Russia, or Britain, &c.

Recurrence or Vertical Range.—What can be more unexpected or more wonderful than the upward passage of a mollusk by successive generations, through stages and epochs, during centuries almost countless? What a vast train of descendants must have followed the first ancestor! And it is a fact which grows in importance as we ascend the sedimentary column to its present summit. The doctrine of limited duration in species must sometimes require an elastic interpretation.

"Recurrence," a phrase of one of my masters, Prof. John Phillips, is simply the reappearance of a plant or animal in a zone of rocks higher than that in which it was first observed. It implies progress upwards, either on the same spot or on another by migration. Instances of both kinds are plentiful.

Recurrency is the more worthy of our attention, because Edward Forbes * thinks " that there often prevails an extreme and unwholesome tendency on the part of many palæontologists to insist on the real distinctness of the species found in different stages, and to force their diagnoses accordingly." A few years ago many of our best naturalists forbade the belief in vertical range, except in rare cases—M. Agassiz asserting that the number of supposed instances was daily diminishing with advancing knowledge; but a far greater latitude is now very generally granted to this operation. Thomas Davidson, F.R.S., a very high authority, remarks †, "It is now acknowledged that many species have lived through several stages of the Silurian system, and are even perpetuated beyond it; and this applies equally to palæozoic and jurassic fossils. To narrow too strictly the stratigraphical limits of species is to expose ourselves to adopt even false and puerile characters in fossils

^{*} Quart. Journ. Geol. Soc. Lond. vol. x. p. 40.

when they are found in two different stages." These statements favour the present inclination to obliterate all sharp lines of demarcation. Beautiful examples abound in Wales and New York of these transitions, by minute and prolonged shadings, mineral and organic. We have a striking instance of this in Pennsylvania, in the passage of the Devonian series into Coal-measures (H. D. Rogers). Recurrence usually deals with life, but it may be effected after death, by means of transport, without our knowing it. When organic transition is sharp and sudden, between conformable strata, denudation may be suspected, as we see in the Black-River limestone of the Mohawk valley (New York); but when it is seen in discordant rocks, there has been a positive break.

Species are the principal time-tests; genera and families run through so many stages and epochs that they characterize none. Thus Lingulidæ, Craniadæ, Asteridæ, Aviculidæ, Nautilidæ, &c. have dwelt in the beds of almost every age (S. P. Woodward). In this point of view recurrents are often of little value; but they may be, nevertheless, essential to the well-being of a community. Thus a ravenous Gasteropod in the course of his upward range, or a legion of them, may be sent in to prevent the herbivorous class from exhausting the public store of food.

The Table (X) now subjoined, presents a synoptical view of Silurian life in relation to the subject in hand, as far as was known in 1865. It shows that out of 5968 species, whose places are well known, 784 are recurrents, or 13 per cent. This leaves 5184 species faithful to one horizon. Primordial recurrency has been left to another occasion; it grows in importance.

Table X.—A Synoptical View of Silurian Life in reference to Vertical Range or Recurrency (as known in 1865). The Primordial stage is treated apart.

			typica orizor						Spec	ies l	Recu	ırrei	nt.				ź	Species.
Kingdom, Classes, Orders, Genera, and Species.		0.1	1		-	Silu	wer rian		-	Silu	ddle		-	Silu	per		Total Recurrents.	Per cent. on all Species.
	Lower Silurian.	Middle Silurian	Upper	Total Typical.	_		izon		-		zons		-	Hor	izon		tal F	r cen
	Sil	Sil	Sil	T,T	2.	3.	4.	5.	2.	3.	4.	5.	2.		4.	5.	To	Pe
Plantæ Amorphozoa Annelida	37 56 34	8	5 25 26	88 68	4 6 4		4			··· 1			1 1 2	 1			5 11 13	8 11 16
Hetero-Pteropoda Polyzoa Cœlenterata	98 149 97	9 26 35	38 64 179		17 30	13	4 4 8	1	3 6 12	2			3 1 5				32 38 70	12 14 18
Crinoidea	99 64 24	10 2 4	132 31 21	241 97 49	13	1	1		3	2			7	3			26 2 4	9 2 8
Trilobita Entomostraca Brachiopoda:—	538 55	43 4	264 115		4		5	2	2	1 1			27		2		139	14 5
Orthis	113 20 29 216	12 22 9 80	56 73 15	115 53	21 7 7 24	8 2 8	2 2 4	1	2 7 19	2 3 6			4 4 19	1 6	 1		37 25 25 94	17 18 32
All other species Monomyaria Dimyaria Gasteropoda:—	27 211	5 25	299 70 127	595 102 363	5 29	3	1		3 8	1	1		6 10	2			19 57	14 16 14
Murchisonia	37 56 171	6 11 23	26 20 131	69 87 325	15 15 12	 1	 ï		1 7	1 3			4 1 5	 1			21 17 29	23 16 8
Cephalopoda:— Gomphoceras Cyrtoceras	4 36	58	16 35	78 296	2 7				2				2 9				4 18	5 6
Orthoceras	128 111	96	95 69	319 285	28 11	10	5 2		5 1	3			14 8				65 23	17 8
	2410	842	1932	5184	354	98	44	5	95	29	3		138	15	3		784	13 average

This Table may be looked upon in several important aspects. The typical species of different kinds are placed in succession, numerically, in their proper stages, together with their various

amounts. The recurrents are treated in like manner, but the number of horizons which they occupy is also shown. Thus, of recurrent Trilobites in the lower stage sixty-nine are seen in two horizons, fifteen are in three, and two in five; while the middle and upper stages are similarly treated. Recurrent Trilobites are 14 per cent. of the whole order. In like manner Table X gives the percentage of recurrent species throughout the entire Silurian fauna.

We have not yet learnt always to distinguish a recurrent from a typical species; but this may sometimes be done from its retaining the peculiarities of the native stage, and from the marks of migration it may carry. The individual we happen to take in our hands may not have changed its horizon, being the offspring of old residents, partaking, however, of the epigenic alterations passed through by the deposit holding it *.

The vegetation of the Silurian epoch enjoys some vertical range, but chiefly affecting its genera. Table X shows that out of fifty-nine species (known in 1866), five pass into other stages, but only into such as are coterminous. Generically plants enter many horizons. Of the genus *Palæophycus*, ten species are in the Primordial of Labrador, New York, &c.; others arrive at the middle stage; and one has been discovered in the Upper Silurian of the Baltic sea.

Among the Annelida, *Buthotrephis* has four Primordial forms, most of the others being Middle-Silurian, while *B. succulens*, according to Prof. Geinitz, is in the Primordial at Lobenstein (Reuss, Germany), and in the Trenton limestone of New York.

The three species of Rusophycus occupy (each separately) the Chazy beds, the Clinton group, and the Eurypterus-limestone of North-east America, three horizons of very different dates.

The conditions favouring recurrence, or rendering it possible, are simplicity of structure, fecundity in reproduction, longevity, the power of locomotion, facility of transportation, and conditions continuous, or nearly so. While sediment is slowly accumulating, generations mount up with the increasing thickness, until they often find themselves among strange life, and they themselves are called recurrents. All this is greatly aided by a steady medium like the sea, and an occasional failing in power on the part of opposing circumstances.

Recurrency in marine life, ancient or modern, is universal, and is common to all forms of organic existence, and to every part of time, the act growing in frequency through every succeeding epoch up to the present day.

Mollusks may have recurred in companies, as they must often travel in groups; but instances are unknown to me, nor are they easy of detection. The fact which we are discussing shows that a marine creature is not necessarily confined to any one community, but that both it and its young may find good homes in several successively.

Recurrence is a measure of viability, that is, of capacity for enduring change of food, pressure, temperature, &c.; and the number of recurrents becomes a measure of new conditions, the more numerous the recurrents the less being the change.

By far the greater number of derived fossils congregate about the first layers of new stratal subdivisions, and then are replaced by the *Autochthones* of Agassiz, the native mollusks. This is well exemplified in the Trilobites of Bohemia. Pennsylvania and New York exhibit similar facts, together with a remarkably great intermingling of fossils in the contiguous beds of two stages. In Tennessee, the Niagara and Lower-Helderberg groups, so widely apart in New York, are inseparable in their molluscan life and mineral condition for the thickness of thirty feet †; but under these circumstances we cannot be said to be dealing with full and true recurrency.

^{*} It is well to give a summary of these alterations (metamorphisms). Many rocks are apparently barren which certainly once contained extinct life. They and their contents have been more or less transformed, and the latter even obliterated. The rock has become hardened by assumed cleavages or crystalline forms. It may now be vesicular, have received magnesia, lime, iron, sulphur, &c. by way of addition to its original composition; and it may have developed new minerals.

[†] Bull. Soc. Géol. de France, xviii.; Canad. Journ. i. 220, ii. 138; Geol. Report Tennessee, Prof. Safford; Geol. Report Pennsylvania, H. D. Rogers; Geol. Report, Logan, 1857, pp. 152, 156.

In Bohemia and some other countries appearance and disappearance of species go on so rapidly that the life at the top and bottom of a stage would be completely dissimilar but for the recurrents; and opportunities for vertical range are constantly occurring in the dispersion and reconstruction of societies, a state of things which leads to new abodes, new combinations, and perhaps to increased well-being.

The Upper-Silurian fossils which people the Prague colonies in fauna D. d, except as they come from another area, are not recurrents, are not the posterity of Bohemian mollusks. They are the precursors of an identical and larger coming fauna. Signs are not wanting that they came from a country where the Silurian epoch was more advanced than in Bohemia; and they become of great value by indicating local inequality of progress in the act of deposition during this epoch—suggesting, moreover, that any of the Silurian stages may be in process of formation about the same time with another in different parts of the world.

Recurrents tolerate many sediments. This has always been a common and useful property of marine life. So it is with the greater portion of our present marine fauna. This they are enabled to do by the fact that different plants are able directly or indirectly to furnish acceptable food for the same animal. The orders which are under disadvantage in this respect are the Echinodermata, Entomostraca, and some Gasteropoda.

Some recurrent species enjoy enormous longevity, but we may treat on this subject more fully elsewhere. When found in very distant areas they are often ultra-epochal (or serial), and they start up when least expected; but there are terms of arrest, or horizons of finality, above which neither single nor grouped existence can pass (Bronn, Deshayes, &c.).

Recurrence varies in its amount with the locality, because no two localities are at all points alike. It is common in Sweden and Canada, and still more abundant in Wales, where the interval between the Lower and Upper Silurian is tolerably well supplied with life. In the Wenlock and Ludlow beds of that district and its vicinity eighty-nine of the fossils are the same (1858). Vertical range is feeble in Bohemia and Russia, which in the latter country is strange, because no disturbing causes seem to have been present, and none of much power in Bohemia.

In one region a species may be restricted to a single set of beds, without being so in another. We have this exemplified in the Silurian fauna of Britain and Bohemia, as in the following Table.

	В	oh	emi	ia.		W	ales			В	ohe	em	ia.	_	Wa	les	
Fossil Species.	E.	F.	G.	H	L. Silurian.	Wenlock.	Ludlow.	Passage-beds.	Fossil Species.	E.	F.	G.	н.	L. Silurian.	Wenlock.	Ludlow.	Passage, hode
Cardiola interrupta	*			a		*	*		Leptæna sericea	*				*	b		
Euomphalus funatus	*				*	*	*		Merista tumida	*				*	*	*	
Graptolites priodon?						*	装		Rhynchonella Wilsoni						*	*	
Staurocephalus Murchisoni	*				*	*	*		,, navicula	*					*	*	
Atrypa marginata?						*	*		Strophomena euglypha	*				*	*	*	
									" funiculata	*				*	*	*	

Table Y .- Some Fossil Species Typical or Recurrent, according to their Basin.

These restricted or typical fossils, except one, are from the Upper-Silurian stage E, mainly because it is the principal depository of fossils, G and H having comparatively few. A few species, on the contrary, are recurrent in Bohemia, and confined to one stage in Wales. Among others may be mentioned *Leptæna euglypha*, which is in Caradoc in Wales, and in both E and F in Bohemia. Some are recurrent in both these basins, but not always beginning on the same zone.

The same genus recurs differently in different countries, and necessarily. Thus of forty

species of Orthoceratite in New York, one eighth outlive their native deposit, while in Britain twice that number do (twelve species out of fifty-one). In Britain all the *Pleurotomaria* are constants; but in other areas many make short runs upwards.

The species and genera probably differ, in their tendency to recur, according to the stage in which they make their first appearance; and it is believed that considerable diversities of behaviour are discernible in them. Time has not permitted the recurrency of the higher portions of the Silurian system to be looked at with sufficient care; but we see it to be large, and to become doubly interesting from the near approach of the Devonian system, and of the extra-epochal or serial recurrents it initiates.

The question may arise whether a fossil apparently recurrent be not in truth a new and independent creation—not a recurrent, but the identical species of a past horizon, brought into existence a second time. The possibility of such an occurrence is denied by most of the authors of the present day. But on such a subject it is better not to be too confident. Creation is a mystery which all our efforts to penetrate, as Elie de Beaumont says, have only raised a very small corner of the thick veil under which nature has concealed her immense work. It is the opinion of Agassiz that animals undistinguishable from each other may appear, without tie or connexion of any sort, in different fauna (Proc. Acad. Nat. Science, Philad. 1859, p. 186). Dana (Ann. Nat. Hist. 2nd ser. vol. xvii. p. 43) affirms and advocates the doctrine of independent creations. Bronn, from reasons altogether different from Dana, broadly states that "there is no doubt but that the return of identical life-conditions can cause groups of animal species to appear a second time"*. Analogous observations relating to the Oolite near Cheltenham†, and to the Cornbrash near Cirencester‡, are in accord with this. The mixed beds of Petite Cœur in the Tarentaise, and consisting of Carboniferous, Liassic, and Jurassic rocks, as investigated by Elie de Beaumont §, Mortillet ||, Heer ¶, and others, greatly favour the opinions of the Heidelberg and Newhaven Professors.

I beg to express a waiting belief in this hypothesis, without being quite able to conceive the possibility of any organism resisting the plutonic and other agencies so terrible and so active during the long interval with which we are dealing. But Edward Forbes, Pictet, Deshayes, and a numerous company of good naturalists, who do not believe in a second creation, doubtless have offered strong reasons in support of their incredulity.

DIVERGENCE.—A few words on this subject may be useful. By this expression is meant a change of residence made by any member of a molluscan fauna from ground to ground, once or more than once. With sediment, in fact, its connexion is often indirect and at second hand.

Divergence is rendered possible by a pliable organization, and it is necessary in order to enable mollusks to travel (migrate), to pass over and feed on a plurality of grounds, and also to tolerate changes in the nature of their habitats.

The present state of the ocean-floor, as far as inorganic matter is concerned, I believe, reflects very tolerably that of any part of the earth's history. The materials and the agencies have always been much the same; but with living beings it is different.

Although a sediment may be, and often is, the same in two or more epochs to every test of the chemical analyst, each of these epochs, as was taught by Mr. S. P. Woodward, had its own appointed and very different forms of life.

Composed of few mineral substances, sediments still vary in the proportions of their ingredients so much and so frequently as often to break up the bottoms into small and irregular areas. Of course any quantitative mineral analysis has only a very limited application as to place.

- Bronn, Essai pour la Prix, 1856, Acad. des Sciences; Comptes Rendus, tom. ii. p. 724.
- † Lycett, Morris, Ann. Nat. Hist. 1848, vol. ii. p. 248 &c. Palæontogr. Soc. 1850-3. Brodie, Geol. Journ. Lond. vol. vi. p. 239.
 - † Buckman, Ann. Nat. Hist. vol. xii. p. 324 (1853).
- § Bullet. Soc. Géol. de France, vol. xii. pp. 534, 676.
- || Bullet. Soc. Géol. de France, vol. x. p. 18.
- ¶ Jahrbuch f. Mineral, 1850, pp. 657, 674.

An inquiry into the nature and position of sea-grounds, conducted with considerable care, results in the fact that every kind of ground, except rock, exists at one place or other at almost all depths, small and great—the nature of the successive depths being, in a rough way, that which has been adopted in Table Z. The exceptions are numerous. The following are instances of the greatest; the others I must neglect.

Blocks of stone at 200 fathoms (Greenland, Dr. Wallich). Shingle at 1675 fathoms (Capt. Dayman). Gravel at 2330 fathoms (Atlantic Telegraph route, Dayman). Sand at 954 fathoms (Atlantic Telegraph route, Dayman). Brown mud, clays principally, at 180 fathoms (Ægean Sea, Forbes). Weed; Dr. Wallich has met with no "Algæ proper" below 200 fathoms. Nullipore at 130 fathoms (Algiers, Milne-Edwards). Shelly ground at 54 fathoms. Coralline at 145 fathoms, at which depth Mr. Gwyn Jeffreys finds Chiton cinereus and Trochus granulatus. White mud; this ground in an especial manner belongs to the deepest parts of the sea, but it is found at all levels in areas of smaller sizes.

The presence of this or that ground may usually be accounted for by local circumstances—by ocean depths, contours of and distance from land, by the constituents of the nearest coasts, by the presence or absence of headlands, of great rivers, of steady, variable or conflicting currents, by prevailing temperatures, and other well-known influences. These are all cosmic agencies.

The causes of divergence, as they now occur to me, are the following:-

- 1. Currents (tides &c.) driving the fauna from their grounds.
- Changes of level, damaging or removing their grounds, rendering them in fact less desirable for shelter or pasture.
- 3. Injurious changes in the nature of the faunal community; the carnivorous mollusca have devoured all the herbivorous, or the latter all the plants.
- The free swimmers, Cephalopoda and Pteropoda, are dropped in a dead state into various grounds, because they live independently of all sediment.

We now lay before the reader the Table Z. It exhibits, with a certain degree of accuracy, the distribution of a large number of marine species of mollusks among the principal sea-grounds of the present day, as seen in eleven large regions.

							100								
Marine Regions.	Rock.	Stones.	Gravel.	Shingle.	Sand.	Brown Mud.	Weed.	Shelly Ground.	Nullipore.	Coralline.	White Mud.	Number of Appearances.	Number of Species.	Number of Species constant.	Number of Spe- cies divergent.
* Edward Forbes, N.W. Scotland * "S. & W. England * "The Ægean Sea † J. G. Jeffreys, British Seas † M'Andrew, N.E. Atlantic † "Vigo Bay, Spain † "Carthagena Bay Norway * Norway Cuming, E. & W. Pacific * C. B. Adams, Panama, S. America ** Hinds, West Pacific	43 84 6 20 54	111 81 4 46 74 1 94 113 4	197 115 5 33 51 5 123 7 2	154 99 1 2 	227 140 82 97 475 71 59 81 79 28 25	97	108 31 29 1 12 23 	 2 17 21 1 17 17 17	100 61 77 10 8 20 57 	4 3 24 4 24 2 2	 5 1 1 1	1099 618 463 310 938 163 142 368 552 223 111	410 225 411a 213b 664 156 82 232 441 193 H1	66 48 287 99 66 134 44 95 111 95 100 96	344 177 124 114 598 22 38 137 330 98 11
Marine Fauna	313	528	538	256	1364	1151	357	75	333	63	9	4987	3138	1145	1993

Table Z.—Molluscan Sea-grounds.

⁽a) In twenty-three cases grounds are omitted by the authors.

⁽b) In fifteen here also.

Report British Association, 1850.

[‡] Reports British Association, 1850 and 1856.

^{||} Ibid. 1856.

[¶] Ibid. 1856.

[†] British Conchology, 1863.

[§] M'Andrew & Barrett, ibid.

^{**} Ibid. 1856.

This Table gives the results of 5000 acts of dredging (minus two), as performed by experienced naturalists in eleven large districts, in eleven sea-bottoms. Edward Forbes, M'Andrew, and Gwyn Jeffreys conducted these operations as their only object, as also did Cuming; but both Cuming and Hinds passed rapidly over large spaces of sea in irregular pursuit of the animals only, and not as investigators of any district. Adams evidently moved over littoral and other small depths, for he was often among rocks and stones. Forbes laboured in laminarian and medium depths; for gravel, shingle, sand, and weeds figure largely in his lists, while there is little mention of rock, and none of white mud. Hinds worked a good deal over the same level, but rested nowhere, so that most of his species are constant to two, often intermixed, grounds. Perhaps Forbes, M'Andrew, and Cuming swept over the largest extent of sea.

Every one of these eleven districts carries with it its own interpretation, and deserves an independent study. Some were nearly closed basins; others ran down latitudes along shores oftenstraight; others, again, consisted of open sea. They presented many other differences, local and climatal.

The object of this Table (Z) is to show, to measure, the extent of modern divergence in 3137 species of marine life taken in the mass, throwing aside for a moment any further artificial arrangement.

Taking the sums total of the grounds, it points out the comparative faunal occupancy of each over large regions. Rock presents 313 appearances, for instance, one sixteenth of the whole appearances; stones and gravel a tenth; shingle one twentieth; sand considerably above a quarter. By inference it tells the extent and importance to living creatures of these grounds, their depths, and other particulars.

The total number of appearances in this Table (as already defined) is 4987, being 1849 above the actual species,—an excess spread irregularly over all the grounds. The species constant to one ground are 1145; to what particular grounds especially, I do not know. The divergent species (1993) are nearly double this number—a fact of great importance, as assisting in the act of migration, our main concern here.

The constant and divergent mollusks vary in number with the kind of sea they inhabit. In the open sea the former are few and the latter are numerous; in close waters this is reversed. Thus we see in Vigo and Carthagena bays, and perhaps on the British coasts, the constants are many, and wanderers are seldom seen. In support of this statement we find that in the above-named bays, of 141 Gasteropoda, 94 are constants; and of 117 Acephala, 100 are constants. These two orders represent the bulk of the animal life of the localities. Here M'Andrew worked assiduously for fourteen weeks.

Brown mud (argillaceous) with some siliceous sand, or a little lime, is the seat of one-third of the marine population of Table Z; and quartzose sand, more or less pure, contains a still larger fauna. Stones and gravel are well frequented; rock, weed, and nullipore much less so (in these lists), and about equally. White mud is barely mentioned by five of the dredgers.

As the following Table (2 A) occupies very little space, and brings to view many noteworthy particulars, I venture to insert it.

	So	uth a	nd V	Vest (Coasta	of E	ngla	nd.			Nor	th an	d We	st Co	asts o	f Sco	tland		
	Number			Gr	ound	s.			al.	Number				Grou	nds.				al.
	Species.	1.	2.	3.	4.	5.	6.	7.	Total.	Species.	1.	2.	3.	4.	5.	6.	7.	8.	Total
Gasteropoda Acephala Echinodermata	90 105 26	11 25 8	25 19 3	27 22 4	14 18 7	4 10 3	3 5 	 ï	84 99 26	125 100 18	37 17 7	27 21 8	15 13 2	13 13 1	8 12 	12 15 	8 6 	ï	120 98 18
	221	44	47	53	39	17	8	1	209	243	61	56	30	27	20	27	14	1	236

Table 2 A.—Molluscan Orders.

It is constructed from the Dredging-Tables of Edward Forbes, for certain parts of the coast of Great Britain. We see that the majority of the three orders, selected on account of their numbers, inhabit 1, 2, 3, 4 grounds. An Echinoderm (Ophiocoma rosula), an order in palæozoic times rigidly confined to one or two calcareous grounds, is found now in seven.

POSTSCRIPT.

I.—Time and space will only permit the introduction into these pages of the foregoing twelve short sketches, almost entirely unaided by illustrative remarks drawn from palæozoic literature. It is probable that a calmer and more deliberate examination of the lights scattered throughout the 'Thesaurus' would have suggested some still more striking truths which therefore remain yet latent. For this an apology has been already offered.

The following further list of geological subjects, partly already treated of in MS., will show how important are the omissions we know of. Full and comprehensive as the standard works are, the rapid progress of the science has left even now more to be said.

Additional Subjects.—Oscillation, its effects on life. Silurian areas of Europe and America compared—in strata, and their contents, country with country, stage with stage. The Silurian selvages of N.W. Scotland and Ireland, peculiarly American, carefully examined. Silurian and recent sea-beds compared. The bathometry of molluscan life in the Silurian and present periods. The increment and decrement of Silurian life, species, and genera, separately tabulated for all countries. The greater or less synchronism of strata far apart; measured, where possible. Was America inhabited before Europe &c.?—as seems probable. During the existence of an epoch may the foreshadowing of the next become perceptible? We see this in Nova Scotia (Devonian) and in Pennsylvania (Carboniferous formation). The transport or removal of dead organisms from place to place; the "remaniement" of the French. Extra-epochal recurrence is of all time and place, and full of interest.

II .- An Extract from an Address to a Meeting of Geologists at Chambéry, Savoy, 1844.

"Il n'y a qu'un demi- siècle, un orateur chrétien, se défiant des hommes de la science leur disait: 'Arrêtez-vous enfin, et ne creusez pas jusqu'aux enfers. Aujourd'hui, Messieurs, rassurés sur l'inébranlable constance de notre foi, nous vous disons: creusez, creusez encore: plus vous descendrez, plus vous rapprocherez du grand mystère de l'impuissance de l'homme et de la vérité de la religion. Creusez donc, creusez: et quand la science aura donné son dernier coup de marteau sur les fondements de la terre, vous pourrez à la lueur du feu qu'il fera jaillir, lire encore l'idée de Dieu et contempler l'empreinte de sa main'"*.—Monseigneur Rendu, Bishop of Annecy, Savoy.

^{*} Bullet. Soc. Géol. de France, n. s. tome i. p. 857.

III.—Primordial Fossils (26) from New Brunswick (N. A.).

(See Acadian Geology, J. W. Dawson, 2nd Edit. p. 641.)

Eocystites primævus,	Billings.	Coll. Hartt, Coldbrook, St. John's.	Conocephalites tener, Hartt, MS., ,, Aurora, ,,	Coldbrook. Ratcliffe's Mill.
Lingula Matthewi, A	Tartt, MS.	Coldbrook.	Thersites,	
" n. s.	**	Ratcliffe's Mill, Hartt.	,, gemini-spi-	
Obolella transversa,	,,	Coldbrook.	nosus,	St. John's.
Discina Acadica,	,,	Ratcliffe's Mill.	" Hallii, "	Ratcliffe's Mill.
Orthis Billingsi,	,,	,,	" quadratus, "	Coldbrook.
,, n. s.		St. John's Slates.	" neglectus, "	,,
Conocephalites Baylei,	17	Ratcliffe's Millstream.	" formosus, "	Ratcliffe's Mill.
" Matthewi		" " and St. John's.	Microdiscus Dawsoni, Billings.	Coldbrook.
Robbii,	11	Ratcliffe's Mill.	Agnostus Acadicus, "	St. John's.
,, Orestes,	. "	,,	" similis, "	Ratcliffe's Mill.
,, elegans,	,,	**	Paradoxides lamellatus, ,,	St. John's?
, Ouangone	dia-		,, micmac, ,,	St. John's.
nus	33			

N.B.—There are several other undetermined species, and some orders of Mollusca not yet examined. (Received August 26th, 1868, J. J. B.)

NOTES ON "FACTS AND OBSERVATIONS."

PAGE

xxvii. Calymene complicata should be C. duplicata. Phacops apiculatus must be erased.

xxvii (note*). Polyeres Dufresnoyi=Acidaspis Buchii. Polytomurus euglypta=Dionide euglypta.

xxviii. The three species of Euomphalus must be erased.

xxxi. The 2093 species mentioned are those which are already described (1868).

xxxi (note). The subdivisions are:—in stage (fauna) C, 1; D, 5; E, 2; F, 2; G, 3; H, 3; =16.

xxxii. Erase the 17th and 18th lines from the bottom of the page. Two lines from the bottom also, for E. e. 3 or 4 substitute F. f. 1.

xxxiii. M. Barrande does not vouch for Orthoceras bullatum being in Bohemia.

xxxvi. There are two species of Asaphus in Bohemia.

Errata in Sketch Map.—Colony Zippe (Bruska) is on the north of the River Moldau. Colonies Branik, and Haidinger near Radotin, are both outside of the boundary line of stage E.

ABBREVIATIONS IN NOMENCLATURE.

CANAD.	A AND THE ADJACENT UNITED	STATES OF		вонеміа.	
	AMERICA.		Stages.	Parts of Stages.	Abbreviations.
Stages.	Parts of Stages.	Abbreviations.	. (iii (Schists culminant	H. h. 1. 2. 3
Upper.	Lower Helderb.Gr. Up. Pentam.Lst. Delth. Sh. Lst. Low. Pent. Lst. Waterline Gr The Guelph Series (Le Clair and Galt Limestones). Onondaga-Salt Group Coralline Limestone of Schoharie	0. S. G.	Second Fauna. Third Fauna.	Upper Limestone Middle Limestone Lower Linestone Quartzite #\$\mathref{E}\$.	G. g. 1, 2, 3. F. f. 1, 2. E. e. 1, 2.
le.	Niagara Series (Racine or Le Clair, Illinois). Clinton Group	CL.	1		
Middle.	Medina Sandstone Oneida Conglomerate Hudson-River Group (Blue Lst. Ohio)	M. Sa. O.C. H. R. G.	Primordial.	Protozoic Schists	C. c. 1.
Lower.	UticaSlate = ShalesaboveTr.(D.D.Owen) Trenton Limestone (Galena Limestone) Black-River Lst. (Buff Limestone) Bird's-eye Limestone Chazy Limestone (and Sandstone)	Tr. BL. B.	(4)	Azoic Schists	
_ }	Calciferous Sandstone	CS.		SWEDEN.	
(Taconic) Primordial.	$ \begin{aligned} \text{Quebec Group} &= \left\{ \begin{array}{l} \text{Chazy L. (part)} \\ \text{Calciferous Sa} \\ \text{Point-Lévis Rocks} \end{array} \right. \\ \text{Potsdam Sandstone} \end{aligned} $	Queb. G.	Lower.	Regiones	F, E, ED. D, C, CB.
	ANTICOSTI ISLAND. ons and the Equivalents.—Geology of Ca	node 1969	Primordial.	Regiones (Alum Slates &c.)	В, А.
Divisio		A. Gr.=		RUSSIA.	
	Divisions 4, 3=Mayhill, J. W. Salter , 2, 1=Llandovery, ,,	Anticosti Group.	pper.	Coralline Limestone (base)	Corall. L.
	BRITAIN.	TIT	wer.U	Brandschiefer Schist	
Middle. Upper	Upper Ludlow (Tilestone) Lower Ludlow Wenlock Upper Llandovery (Mayhill)	U.L. L. W. U.Llandov.	Primordial.Lower.Upper	Obolus Sandstone?	P.
	Lower Llandovery Caradoc (Bala) = American (Tr.) Upper Llandeilo	L.Llandov. Carad. U. Llan.	3 Group	Lower Malmö=Llandovery.	v.
Primordial.Lower.	Lower Llandeilo, Skiddaw Slates, Arenig Stiper Stones, Tremadoc Slate, Lingula Flags, Harleck Grits, Llanberris Slate	L.Llan. P.	3 ,,	Oscarsal = Caradoc. Upper Oslo = Llandeilo. Lower Oslo = Stiper Stones. (Kjerulf, Journ. Geol. Soc. Lo	ond. xiv. 36.)

Specimen of the Catalogue of the Primordial Fossils of Western and Northern Newfoundland, as represented by letters.—Edw. Billings, Palæontologist. (Sir W. E. Logan's Report, 1863.)

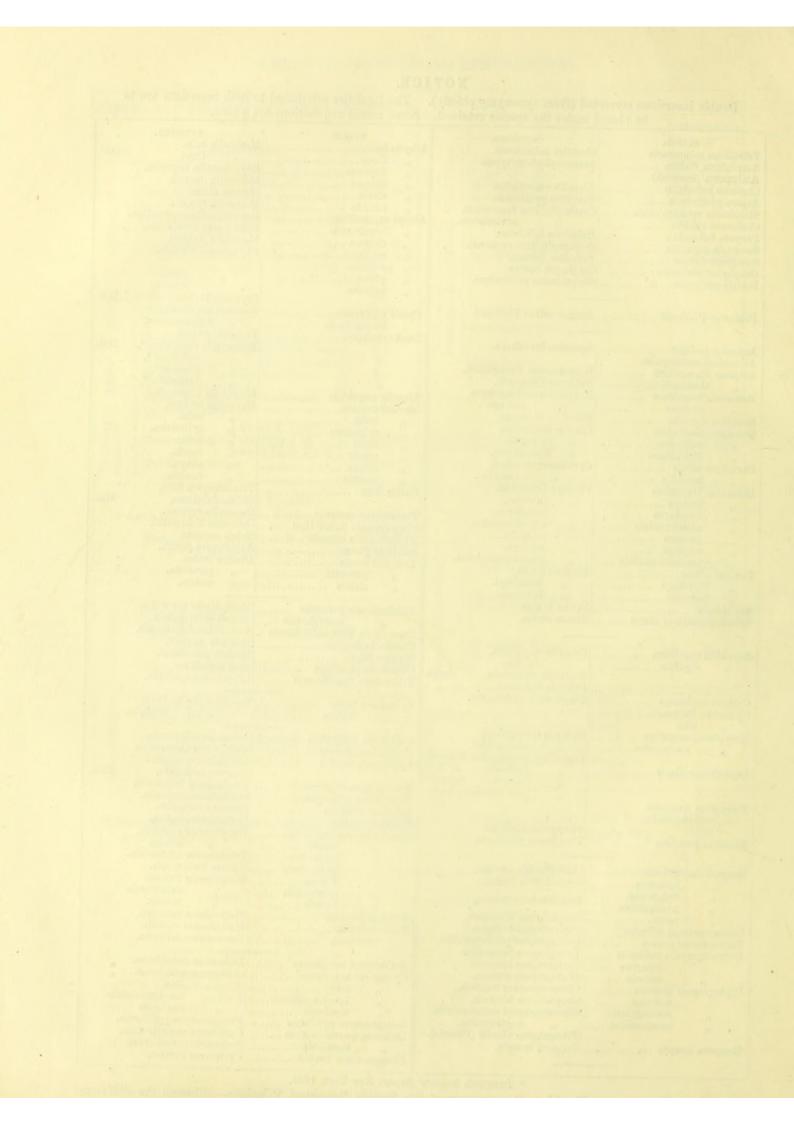
	P	otsda	m.	= (Calcif	erous	Sand	lst.		ot BI			=P0	oint I	Lévi
Species.	20)20 fe	et.		1839	feet	thick.			1084	feet.		16	377 fe	et.
	Α.	В.	C.	D.	E.	F.	G.	H.	I.	K.	L.	M.	N.	0.	P.
Leptæna decipiens Eopteria typica							+								+
Holopea Ophelia Bathyurus perplexus, &c. &c. &c.		+						***	+						

Double insertions corrected (from synonymy chiefly). The localities attributed to both insertions are to be placed under the species retained. Some recent acquisitions are added.

be prace	a under the species retained.	Bome recent acquisitions a	re added.
ERASED.	RETAINED.	ERASED.	RETAINED.
Tetradium columnaris	Chætetes columnaris.	Athyris bella	Meristella bella.
Acervularia Baltica	Arachnophyllum typus.	" Circe	" Circe.
Aulopora (inserted).		", depressa	Rhynchonella depressa.
Chætetes annulatus	Alveolites annulatus.	,, didyma	Meristella didyma.
Aspera pyriformis Strephodes vermiculoides	Favosites pyriformis.	" nitida	Merista nitida.
Strephodes vermiculoides	Cyathophyllum truncatum.	,, tumida	Meristella tumida.
Cladocora sulcata	,, articulatum.	Atrypa æquiradiata	Rhynchonella æquiradiata.
Propora tubulata	Heliolites tubulatus.	" brevirostris	Pentamerus brevirostris.
Sarcinula organum	Syringophyllum organum.	" didyma	Meristella didyma.
Stenopora fibrosa	Favosites fibrosa.	" nitida	Rhynchonella nitida.
Omphyma turbinata	Omphyma canina.	" nucleus.	
Petraia profunda	Streptelasma profundum.	" phoca	
		" robusta.	" robusta.
Delmoston Phillippii	Pohinoanatitas Phillipsii		Cryptonella (Hall) eximia, L.H.C
Palæaster Phillipsii	Echinocystites Philipsii.	Cyrtia exporrecta	Spirifera exporrecta.
-		,, trapezoidalis	" trapezoidalis.
Agnostus nodiger	Agnostus brevifrons	Discina cælata	Trematis cælata.
Arionellus acutangulus.	-6		Eichwaldia corallifera *, Hal
Asaphus Brongniarti	Homalonotus Brongniarti.		" concinna *, "
" Guettardi	Basilicus Guettardi.		" gibbosa *, "
Barrandia longifrons	Homalopteon-longifrons		" reticulata *, "
radians	radians.	Lingula unguicula	Lingulella unguicula.
Bronteus signatus	Bronteus laticauda.	Merista arcuata	
Bumastes Barriensis	Illænus Barriensis.	,, bella	" bella.
,, carinatus		,, cylindrica	,, cylindrica.
" M'Cullumi	,, Maccullumi.	" lævis " nitida	" lævis.
Cheirurus affinis	Cyrtometopus affinis.	" nitida	" nitida.
,, tumidus	" tumidus.	" oblata " tumida Orthis Ella	,, oblata.
Dalmania Dujardini	Phacops Dujardini.	tumida	" tumida.
incerta	incertus.	Orthis Ella	Trematospira Ella.
limulurus	limulurus.		Orthis flabellites, Hal
obtusicaudata	obtusicaudatus.	Pentamerus reversus	Camerella reversa.
,, proavia	, proavius.	Platystrophia Tcheffkinii	Orthisina Tcheffkini.
" sclerops	sclerops.	Rhynchonella cuneata	Retzia cuneata.
truncato-caudata	" truncato-caudatus.	Spirifera pisum	Nucleospira pisum.
Isotelus affinis	Asaphus affinis.	Trematis crassa	Discina crassa.
., Homfrayi	,, Homfrayi.	" punctata	,, punctata.
,, Iowensis	, Iowensis.	,, striata	,, striata.
Sao hirsuta	Not in Wales.	4 1 1 1 1 1 1 1 1 1	Mr. Malanaia mananalia
Sphærophthalmus alatus	Olenus alatus.	Anodontopsis perovalis	Modiolopsis perovalis.
		Ctanadanta Edmandinformia	Axinus securiformis.
	D 100	Ctenodonta Edmondiæformis	Podonia Anglica
Beyrichia rugulifera	Primitia rugulifera.	Cucullella Anglica	Medioloneia Norai
,, sigillata	" sigillata.	Mytilus Nerei	Anna primitiva
	Beyrichia Salteriana, Jones.	Orthonota primitiva Tellinomya lingulicomes	Lingulalla unquicula
0.4	Primitia Solvensis, "	Termiomya miganeomes	Dinguieria diigdicdia.
Cythere umbonata	Ceratiocaris umbonatus.	Cyrtotheca lævis	Footliomphalus lavis
Cytherina Baltica.		, Scotica	Santiana
n, alta.	C4-1	-,, Scottes	,, Scotteus.
Eurypterus megalops	Stylonurus megalops.	Calyptræa calyptrata	Acroculia calvatrata
" scorpioides	,, scorpioides.	Chiton Canadensis	Metontoma Canadensis
Languditia analania	Leperditia brachynotus, Schmidt.	Cyclonema corallii	Murchisonia corallii
Leperditia scalaris	111 (1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1		Eunema trilineata, Hall
	" obliqua, Schmidt. ", punctatissima, Salter.	Euomphalus triporeatus	
Pterygotus Anglicus.	" punctatissima, Saiter.	Helicotoma uniangulata	Ophileta uniangulata.
		Litorina striatella	Holopæa striatella.
1	Pterygotus raniceps.	Ophileta anglica	Helicotoma anglica.
Slimonia punetata	Eurypterus punctatus	Pleurotomaria angulata	Murchisonia angulata.
panotata	Theras baneans.	,, inflata	" inflata.
a		" latifasciata	" inflata. Trochonema latifasciata.
Graptolithus gracilis	Cladograptus gracilis.	lenticularis	Scalites lenticularis.
,, lobiferus	Graptolithus Beckii.	,, Prycea	Murchisonia Pryceæ.
" Sedgwickii	Rastrites triangulatus.	" subrotunda	" subrotunda.
,, triangulatus	Ct-Vill- TI:	turrita	u turrita.
Climacographic bulleting	Graptolithus Hisingeri.	Trochus helicites	Platychisma helicites.
Climacograptus bullatus	Dishearents outlatus.	Turbo corallii	Murchisonia corallii.
Dichograptus aranea	Totas on physical desired and the control of the co	" tricinetes	Trochonema tricineta.
Didymograpsus caduceus	Curtograptus bryonoides.		
,, hamatus	Cyrtograptus hamatus.	Actinoceras conoideum	Discoceras conoideum.
Diplograpsus bicornis	Diplograpsus sextans.	Cycloceras annulatum	
nodoeus	Graptolithus bicornis.	,, ibex	" ibex.
,, nodosus	Climacograptus rectangularis.	,, tenuiannulatum	
,, rectangularis	teretiusculus.	,, tracheale	" tracheale.
. ,, teretiuscuitis	Tetragraptus Headii (Canada).	Gomphoceras pyriforme	Phragmoceras pyriforme.
Retepora incepta	Propora incenta.	Orthoceras arcuoliratum	Cycloceras arcuoliratum.
Para Maria			Endoceras cancellatum.
A Committee of the Comm		Phragmoceras Brateri	Cyrtoceras Brateri.
		D . N II 1 1000	

* Twentieth Regents' Report, New York, 1868.

P.S.—These Corrections will add to the accuracy of the Specific Numerical Relations—although the difference made is only 1.4 per cent. on the whole Silurian life. The double insertions are useful to beginners.



KINGDOM PLANTÆ.

Subdivision.	Genera, Species, and Author.	Lower Stage.	Middle Stage.	Upper Stage.
U. L		iilli ps, 1847 (a calciphyte allied	to Acetabularia, J.W.S.)	England.
	Arthrophycus, Hale	18 52.		
M. Sa	Harlani, H	all.		
			Canada W., Pennsylv.	,
			Virginia, Mifflin co.	10 Lan 10 St 18
	sp. ind.		(N. York) Orleans county.	
	Beatricea, Billings, 1		Antiqueti I Din 1	The state of the s
H. R. G., M. Sa.		ngs. Anticosti Isle (Gulf St.Lawr.) Anticosti Isle, Lakes St.John		
H. R. G	unuunus, ,,	(C.E.) and Huron (C.W.)		
	Buthotrephis, Hall	18 46.		
CS	The second secon	all. (N. York) Clinton county.		
P		ns. Georgia Township (Vermt.)		
Marly Lst	biplex, Eic	w. Lyckholm, &c. (Esthonia).		
H. R. G	? flexuosa, Emm	ns. Georgia Towns. (Vermont).		
		(N. York) Washington co.		
Fr., CL		all. Pennsylv. (N.Y.) Herkm. co.		
CL	1 1		"	
"			(N York) Now Hautfand	
	Managan M a			
		ns. Georgia Towns. (Vermont).		
H. R. G		all. (N. York) Lewis county,		
		N.W. Michigan.		
Fr	succulens	(N.York) Glens' Falls, N.W.	The state of the s	
		Michigan.		
P. Lingula Fl	sp. ind. Williams	on. (Wales) Dolgelly.		
	Dictyolites, Hall, 183	s. 11.	(N. Vouls) Oulsman	
M. Sa	chnophycus, Hall,	g5.9	(N. 10rk) Orleans county.	
T.	ridactylus n s H	11.	(N. York) Oneida county	(Doubtful.)
1	Laminarites, Sternb	1 838.	(21. 2012) Onerdia county.	(Doublin)
		w. St. Petersb., Czarskoe-selo,		
		&c. (Russia).		
		ng n. (only the spores are know		
		<i>a</i>		England and Wales (Dov
	sphærica, Hook			ton beds, passim).
	Licrophycus, Billing			
I. R. G 6 B., BL., Tr 1	Trees.	gs. (Anticosti) English head. (L.Huron) Is.St.Jos.(C.W.).		
I. R. G I	I. damina	(L.Huron)Manitouline Isles.	SHIES.	
,, v		(Anticosti) West End.		
r n		(C.W.) Ottawa city.		
I. R. G r	obustus, "	(Anticosti Isle) English hd.		
r	Ottawaënsis, ,,	(C.W.)Ottawa city, W.shore.	AMPER SHOWING	
		of Lake Ontario.		
	Nullipora, (the name			
		w. Poulkova (Russia).	d-humana TWO	
Jan		1 849. (These are filled Annel y. Kirkfell, Douglas(Is.of Man),	u-ourrows, J. W.S.)	
austiniani II	aujor, nr Co	Scawgill (Westmoreland),		
		D'Erras, &c. (Esthon.).		
.(Vermt. slate) n	narina, Fit	h. Georgia Township(Vermt.).		
dann	ninor, M'Co	y. Undereg.(Westmd.), Scawgl.		
. (schists) te	enuis, Fite	h. Georgia Township (Vermt.).		
lan te	eres, Harkne	s. (S.W. Scotl.) Barlæ Quarry.		
	alæophycus, Hall,			1. 0. 1/D 1/12
urypterus L a			I	sle Oesel (Baltic).
Potsd. Sa a		l. Wisconsin.		
Potsd., CS B	laward amounts	(Canada E.) Beauharnois. (Canada W.) Beverley.		
	on amounting	(N. Vermont) Highgate,		
. ,, ,,	ongregatus, ,,	(Canada E.) St. Armand.		
. CS fu	miculus, ,,	(Canada W.) Napierville,&c.		
	aipiana	(Labrador) Straits of Belle-		
. Potsd in				
Potsd	icipiens ,,	isle, Anse au Loup., Swan-		

Subdivision.	Genera, Species, and Author.	Lower Stage.	Middle Stage.	Upper Stage.
P. Potsd	informis, Winchell.	Wisconsin.		
OS	irregularis, n. s. Hall.	(N. York) Mohawk Valley, &c.		
Fr		C.W. Ottawa city.		
		(N York) Middleville &c.	-	
" ČĽ	simplex n s.	(N.York)Middleville, &c. (N. York) Herkimer county.		
er.	striatus n s	(11. 1014) Heranice councy.	(N. York) Oneida county.	_ may lo tur
MSa			(N.York)GeneseeR.mouth	
P. CS	tubularis, n. s. ,,	(N. York) Mohawk Valley,	(11.1 of a) Genesee It. mouth	
	tubiliaris, ii. s. ,,	N.W. Michigan.		
H. R. G	ringstus n s	(N. York) Washington.		and the second of the
			(N. Vouls) On side south	
OL	sp. ma. ",			The second secon
T' B C		V V1	"	
H. K. G	Delinetone bin P. "	New York.		
	Palæotrochis, Emmons,	1856.		
۲	major, Emmons.	N. Carolina, Washington,		
"	minor, ,,	N. York county.		
	Phycodes, Ramer.			
	circinatus, Semer.	Thuringia.		
	Phytopsis, Hall, 1846.			
		N. York, Mohawk Valley, N.W. Michigan.		3 14
BL. B	cellulosum, ,,	N. York, Mohawk V., Canada.		
	Rusophycus, Hall, 1852	(short species of Cruziana,	J.W.S.)	
eT.	bilobatus, n. s. Hall	(caste species of	(N. York) Oneida county	
	clavatus, n. s		(-11 Zora) Cheida coming.	
Eurypt. Lst	embolus? Eichw	(C.E.) I Ou D:	,, ,,	Isle Oesel (Baltic) Room
H	Grenvillensis Billings	(C.E.) Lower Ottawa River.		kulle, &c.
	pudicus, n. s. Hall.	(0.21) 20001 00000 221001	(N Vork) New Hartford	Ruite, de.
.,	subangulatus, n. s.		(N. Vork) Opeida countr	
	Sphenothallus, Hall, 1		(IV. TOTK) Offeida county.	
		(N. York) Mohawk Valley.		
	latifolius, n. s.,	(N. York) Schoharie.		
	Spongovine W Ed.	1839 (a calciphyte: the name		
L	spongarium, mraw.,	1859 (a caterpayte: the name	remains, J. W.S.).	D V V1-1
V T	Edmand: M'Coy.			Benson Knot, Kendal.
V. L	Edwardsi, Murch.	•••••• •• ••••		Dinas Bran (N. Wales
	35.0			Aymestry (England).
L	interlineatum, M'Coy.			
4 4 4				steer, &c.
	interruptum, "			Kendal, Spital (Westmore
	Trichoides, Harkness, 1			
		S. W. of Scotland.		
	Vexillum, Rouault, 1850.			
	Desglandi, Rouault.	Bain, &c. (France).		
		Soulevache, &c. (France).		
		Goven, Bain, &c. (France).		

Summary (Geographical).

Genera.		Species.	Commen	Species.			
Genera.	America. Europe. Common.		America.	Europe.	Common		
Actinophyllum Arthrophycus Beatricea Buthotrephis Dictyolites Ichnophycus Laminarites Lepidostrobus Licrophycus Nullipora	2 12 1 1 	1 2 1 1	Palæophycus Palæotrochis Phycodes Phytopsis, Rusophycus Sphenothallus Spongarium Trichoides Vexillum	2 2 5 2 	1 1 1 4 .1 3		
Palæochorda	2	3		56	20	None.	

KINGDOM ANIMALIA. SUBKINGDOM PROTOZOA. PROVINCE ASTOMATA. CLASS AMORPHOZOA.

Subdivision.	Genera, Species, and Author.	Lower Stage.	Middle Stage.	Upper Stage.
20 22	Acanthospongia, M.Co	y, 1846.		
Llandov	Siluriensis, M'Coy.	1840?, Goldf.	Galway (Ireland).	
	Achilleum, Schweigger,	1840?, Goldf.		
Marly Lst,	cerasus, Eichw. oleraceum, ,,	Poulkova (Russia).		
Orthoc. L., Pleta.	oleraceum		Name to a little and a second	
	Amphispongia, Salter,	1865 (a sponge allied to G	rantia, Bowerbank, J.W.	S.).
	sp. ind			Pentland Hills (Edinburgh)
	Archæocyathus, Billin	gs, 1861.		
P. Potsd	Atlanticus, n. s. Billings.	(Labrador) Forteau Bay,		
		Straits of Belleisle.		
1) 1)	Minganensis, n. s. ,,	(Labrador)PorteauBay,Min-		
		gan Isles (G. St. Lawr.).		
,, ,,	profundus, n. s. ,, sp. ind. ,,	(Labrador)Strts. of Belleisle.		
,, ,,	sp. ind.	N. W. Vermont.		
	Astræcspongia, Ramer,	1860.		all the state of t
Orthoc. L., Pleta.	ashinaides Eisher	Poulkova (Russia).		v.
Niag	meniscus, Safford.	routkova (Russia).		Tennessee, Decatur count
	Astylospongia, Ramer.	1860.		(most abundant).
?	castanea. Romer	Sadewitz (Lower Silesia).		(most adminant).
Niag	imbricato-articulata, "	(20 ner bireau).		(Tennessee W.) Decatur co
9	incisa ,,	Sadewitz (Lower Silesia)		(Zemicosce W.) Decarde Co
Carad Niag	incisa, ,,, inciso-lobata, ,,, parvula, Billings.	Sadewitz (Lower Silesia). Sholes Hook? (Low. Silesia).		
Tu	parvula Billings	(CW) Ottown city		" "
9	nilula Roman	Sadowitz (Lower Sileria)		The state of the s
	pitula, Remer.	Sadewitz (Lower Silesia). Popova (Russia), L. Silesia.		(Tonnonce W \ Decetors
Pleta, W	The state of the s			
Ni.	stallation sulasts			Sweden, (Indiana) Wald
Niag	Colothians Dilling 10	05	***************************************	(Tennessee W.) Decatur co.
D 00 0 1 0	Calathium, Billings, 18	(N - 6 - 31 - 3 N)		
P. CS. Queb. G	alline, n. s. Billings.	(Newfoundland, N. shore),		
39 39		Cape Norman.		
	Anstedi, n. s. ,,	(Newfoundl.N.)Schooner Isl.		
CH	Canadense, n. s. ,,	Mingan Isles (G. St. Lawr.).		
P.Div.K.Queb.G.	Fittoni, n. s. ,,	(Newfoundl. W.) Pt. Rich.		
CS. Queb. G	formosum, n. s. "	(Newfoundl. N.) C. Norman.		
Queb. G	pannosum, n. s. "	Port Levi, Quebec, C.E.		
CS	Anstedl, n. s. ,, Canadense, n. s. ,, Fittoni, n. s. ,, formosum, n. s. ,, pannosum, n. s. ,, paradoxicum? ,, Caunopora, Phillips (see junciformis, Hall.	Mingan Isles (G. St. Lawr.).		
Water Street	Caunopora, Phillips (see	Stromatopora).		
CL	junciformis, Hall.		N. York.	
	Cliona (= Vioa), Portlock	(a boring sponge in shells.	J.W.S.).	1
Carad	antiqua, Portlock.	(Tyrone) Desertcreate.		
,,	prisca, M'Coy.		Malvern (England).	
L	sp. ind. Salter.	(Tyrone) Desertcreate.		Ludlow, Shropshire.
	Cnemidium. Goldf., 18	30.	Commence of the Commence of th	
Compact L	radiatum, Eichw.	Wesenberg (Esthonia).		
Orthoc. L	rimosum, Hising.	Wesenberg (Esthonia). Poulkova (Russia).	and the second state of the second	
W. (Shale)	tenue, Lonsdale.	••••		Dudley, Worcester.
	Coscinium, Keyserling.	1846 = Clathropora,		
	flabellatum, Billings.	Canada.		The state of the s
CH., B., Bl., Tr.			Pentam. Lst.; Borkholm	she will be in the same
Pleta.			(Esthonia)?	
	Coscinopora, Goldfuss,	1830.		Photos III
		Upper Mississippi?		
	Dædalus, Rouault, 1850.			
	Newtoni Rouault	(France) Guichen.		
	Konincki,			
	sp. ind. Salter.	Normandy ; Budl. Saltn. (De-		
	P. Indiana	vonian pebbles).		
	sp. ind. Rouault.	Normandy.		Townson of the same of the sam
	Eospongia, Billings, 186	1		
		Mingan Isles (G. St. Lawr.).		
	varians,	Tingui Isios (O. De Imwr.).		7 2 3 10
	Intricaria Defrance 189	2 (probably a Vioa, J.W.S.).		
		Tyrone (Ireland).	Secretary and the second	
		(N. York) Jefferson co., Can.		5.5
	Ischadites Kania Man	ch. 1839 (clearly a regularly	formed sponge with roots	JWS)
			formed sponge with roots,	0. W.S.).
(Arenig)		N. Wales.		
Orthoc. Lst		Wesenb. Haljal. (Esthonia).		Champhia
	.97			
	torgallatur Winch & Manon			Chicago (Illinois).
Niag				
Niag L	sp. ind. "			Shropshire.
Niag	sp. ind. "			Section (and an analysis)

Subdivision.	Genera, Species, and Author.	Lower Stage.	Middle Stage.	Upper Stage.
Woolhope	sp. (Grindrodi) Salte	r		Woolhone Dudley Walsell
	Manon, Goldf., 1830 = 1	errucospongia, D'Orb.		Malvern, Mayhill, &c.
		v. Poulkova, &c. (Russia).		
	globosum, ,, sulcatum, ,,		Dining all resident	parameter.
"	verrucosum, "	" "		physical and the second
"	Nidulites, Salter, 1851	a reticular, flat plate; cups of	n both sides, J.W.S.).	
L.Llan., U.Llan-	favus, Salte	r. Pembrokeshire (Wales)	Haverfordwest, (S.W.	
dov.	Palæomanon, Ramer,	1 860. r.	Scotland) Dalquharran	
Niag	Protospongia, Salter, 1	r. e.e.a		(Tennessee W.) Decatur co.
Up. Tremad., P.,	diffusa. Salte	r. St. David's (S. Wales).		Parameter .
L. Ling. Sa.	flabella, Hick	8. ,, ,,		
,,	diffusa, Salte flabella, Hick fenestrata, Salte sp. ind. ,,	r. ", ",		The same of the sa
"	sp. ind.	, 1827 (a Rhizopod?).		
	Australia Salta	, 1827 (a Khizopod ?).	Vanuadana (NS Wales)	with release and the
Pleta	Bronni. Eichy	v. Réval (Balt.), Ropscha, &c	. Tarradong (N.S. Wales).	
		(R.).		
CS	calciferus, Billing	s. Mingan Isles (G. St. Lawr.)		
Mid. Sil	Canadensis, ,,	W	Anticosti Island (Canada)	
CS Galena = Tr	fungasus,	Mingan Isles (G. St. Lawr.)		
Garena = Ir	globularis Billing	Wisconsin (U. S. America).		
Niag.	hemisphæricus. Hal	s. " "	Administration of the second	Wisconsin (U.S. America)
Div. 1. A	insularis, Billings		Gamache Bay, Anticosti.	
T TT" a	infundibulum, Hall			27 27 11 H
L. H. Gr	infundibuliformis, Eaton		•••••	N. York.
Galena - Tu	Jonesi, Billings	Upper Iowa (U.S. Amer.).		Gaspe (Canada E.).
y	Murchisoni, Eichw	Russia.	ALP THE X	and the same of the same
Tr., L	Neptuni, Murch	L.St.John, Malbay(Can. E.).		Ludlow (England).
B., BL., Tr	occidentalis, Salter	L. St. John (C.E.), Mid-		, , ,
		Ottaw. (C.W.), N. York,		
		Lake Winnipeg, Rupert's		100
Tr	whicularis Hall	Land. N. York?		
Orthoc. Lst	orbis. Eichw	Ropscha (R.), Isle Odins-		
		holm, Réval (Baltic).		
Galena=Tr	Oweni, Hall	Illinois, Wisconsin	Constitution of the little	
Niags	ubturbinatus, "	(Missouri) Salt River Bluff.		N. York.
Frs Galena Ls	n ind Hall	. Iowa (U.S. America).		
	Retioulites, Eichw., 1829		Tours of the second	
Orthoc. L b	oletiformis, Eichw	Poulkova (Russia).		-
,,0	leformatus, "	Czarskoe-selo (Russia).	100 C 100 C 100 C	
ne I	Rhabdaria, Billings, 18	Minera Talas (C. St. Tama)	and the second of the second of	
CSf		Mingan Isles (G. St. Lawr.).	and the state of t	
"f	Scyphia, Oken, 1815.	" "		The second second
Dolomite?	onula, Eichw	Kirna (Esthonia).		
Pleta p	ygmæa, "	Poulkova, &c. (Russia).		
Corall. Lst r		136 1011		IsleOesel, Arensbourg (Balt.),
Zlandeilo. Pyro-c	Siphonia, Parkinson, Go	Czarskoe-selo, St. Petersburg	The state of the s	
xenic quartz?	Januarica, Parkinson	(Russia).		
Niage				Tennessee W.
Pyroxenic quartz, p		St. Petersburg (Russia), Ré-		Tennessee W. (Ræmer).
Niag. e	xcavata.	val, &c. (Baltic, Esthonia),	Isle Dago.	That is
	Sphærospongia, Salter	Shuonshino		
Zaradh	The American	Shropshire. Niti, Himalaya (E.I.).		
	noscularis, ,, nelliflua, ,,	" " "		
	p. ind. ,,	Thibet.		
	,,	(7)	DIV 4 1 0 110	1
		(Bronn?), 1830 = Caunapor	a, Phil.; Aulopora, Goldf. (a calcareous sponge, J.W.S.).
H. R. G		(Newfoundld, W.) Pt. Rich.		
CL., Niag., Corall. c	ompacta, ,, oncentrica, Hall	(Newfoundid, W.) Ft. Mcn.	(N. York) Lockport	(N. York) Schoharie co.,
6,, 50,1111	22011		A CONTRACTOR OF THE PROPERTY O	N.W. Mich.(L.S.), Gothld.
orall.Lst., Scho-e	onstellata, ,,			(N. York) Schoharie co.
THE RESERVE AND ADDRESS OF THE PARTY OF THE				
harie.	41 1 10 10 10 10 10 10 10 10 10 10 10 10		NAME AND ADDRESS OF THE OWNER, WHEN PARTY OF THE OWNER, WHEN THE PARTY OF THE OWNER, WHEN THE PARTY OF THE OWNER, WHEN THE OWN	the second of the second secon
W. shale, Lst n	ummulisimilis, Lonsdale		•••••	(Engl.) Aymest., Marvern, &c.
		(Newfoundl. N.) Cape Nor- man, Highgate Springs,		(Engl.) Aymest., Marvern, &c.

Dolom. Orth. Lst. sulcata, "" L sp. ind. M'Coy Trachium, Billings, 18 65. G. Div., CS cyathiforme, Billings, rugosum, "Trichospongia, Billings, 1865." CS sericea, n. s. Billings, Mingan Isles (G. St. Lawr.). Verticillopora, Defrance, 1828. Kirna (Esthonia). Kendal (Westmoreland). Kendal (Westmoreland).	Subdivision.	Genera, Species, and Author.	Lower Stage.	Middle Stage.	Upper Stage.
sp. ind. Hitchcock Stromatocerium, Hall, BL					
sp. ind. Hitchcock. Stromatocerium, Hall, 1846 (closely allied to Stromatopora, J.W.S.) BL	Onon.St.Group				
Stromatocerium, Hall, 1846 (closely allied to Stro matopora, J.W.S.) SW. Scot. ?, N. York, Tennessee, L. St. John (C.E.), (Cand.W.) Mid-Ottawa R. Tetradium, Hall, Dana? apertum, Safford. Mid-Tennessee, Kentucky. Canada W.) Ottawa River. N. York. Tr. MSa. columnaris, "M'Coy Canada E.) Montreal, Murray Bay. Mid-Tennessee, Kentucky. Tetragonis, Eichw., 185 Danbyi, M'Coy Mid-Ottawa R. Tetragonis, Eichw., 185 Danbyi, M'Coy Mid-Tennessee, Kentucky. Tetragonis, Eichw., 185 Danbyi, M'Coy Mid-Tennessee, Kentucky. Tennessee (Canada E.) Montreal, Murray Bay. Mid-Tennessee, Kentucky. Pennessee (Canada E.) Montreal, Murray Bay. Mid-Tennessee, Kentucky. Sevil (Baltic), Ropscha (Russia). Réval (Baltic), Kirna (Esthonia). Kendal (Westmoreland)		sp. ind. Hitchcock.	6		N. Vermont (U. S. America)
BL		Stromatocerium, Hall,	1846 (closely allied to Stro	matopora, J.W.S.)	
messee, L. St. John (C.E.), (Cand.W.) Mid-Ottawa R. Tetradium, Hall, Dana? apertum, Safford. Tr., MSa. columnaris, Tr. Tetragonis, Eichw., 185 L. Danbyi, M'Coy Orthoc. Lst. Murchisoni, Eichw. Murchisoni, Eichw. Cleta) Orth.Lst. Dolom. Orth.Lst. Dolom. Orth.Lst. Dolom. Orth.Lst. Dolom. Orth.Lst. Dolom. Orth.Lst. Dolom. Orth.Lst. Sp. ind. Safford. M'Coy Trachium, Billings, 18 65. G. Div., CS. cyathiforme, Billings. Trichospongia, Billings, 1865. Sericea, n. s. Billings, Mingan Isles (G. St. Lawr.). Verticillopora, Defrance, 1828.		rugosum, Hall,	S.W. Scot. ?, N. York, Ten-		
Tr			nessee, L. St. John (C.E.),		
Tetradium, Hall, Dana? apertum, Safford. B., BL., Tr cellulosum, Hall. Canada W.) Ottawa River. N. York. Tr fibratum, Safford. Tennessee (Canada E.) Montreal, Murray Bay. Mid-Tennessee, Kentucky. Tetragonis, Eichw., 185 Danbyi, M'Coy Orthoc. Lst Murchisoni, Eichw. Cellulosum, Hall. Canada W.) Ottawa River. N. York. Tennessee (Canada E.) Montreal, Murray Bay. Mid-Tennessee, Kentucky. Tetragonis, Eichw., 185 S. Sevial (Baltic), Ropscha (Russia). Kéval (Baltic). Kirna (Esthonia). Kirna (Esthonia). Kendal (Westmoreland). Kendal (Westmoreland). Kendal (Westmoreland). Kendal (Westmoreland). Kendal (Westmoreland). Trachium, Billings, 1865. Cyathiforme, Billings, 1865. Cyathiforme, Billings, S. Trichospongia, Billings, Mingan Isles (G. St. Lawr.). Verticillopora, Defrance, 1828.	_T-	en ind Saltan	Tasmania West		
apertum, Safford. Mid-Tennessee, Kentucky. Cellulosum, Hall. (Canada W.) Ottawa River. N. York. Tr. MSa. columnaris, Safford. Mid-Tennessee, Kentucky. Tennessee (Canada E.) Montreal, Murray Bay. Mid-Tennessee, Kentucky. Tetragonis, Eichw., 185 Danbyi, M'Coy Orthoc. Lst. Murchisoni, Eichw. Orthoc. Lst. Murchisoni, Eichw. Parvipora, Réval (Baltic), Ropscha (Russia). Réval (Baltic). Sulcata, Réval (Baltic). Sulcata, Sp. ind. M'Coy Trachium, Billings, 18 65. G. Div., CS. cyathiforme, Billings, Wingan Isles (G. St. Lawr.). Trichospongia, Billings, Mingan Isles (G. St. Lawr.). Verticillopora, Defrance, 1828.					
B., BL., Tr cellulosum, columnaris, columnaris, minus, minus, minus, minus, modern columnaris, minus,		apertum. Safford.	Mid-Tennessee, Kentucky.		
Tr., MSa					
Tr					
minus, Tetragonis, Eichw., 185 L. Danbyi, M'Coy Orthoc. Lst. Murchisoni, Eichw. Réval (Baltic), Ropscha (Russia). (Pleta) Orth. Lst. parvipora, , , , , , , , , , , , , , , , , , ,					
minus, "Tetragonis, Eichw., 185" 9. L. Danbyi, M'Coy Orthoc. Lst. Murchisoni, Eichw. Réval (Baltic), Ropscha (Russia). (Pleta) Orth. Lst. parvipora, "Réval (Baltic). Dolom. Orth. Lst. sulcata, "Russia). L. sp. ind. M'Coy Kreval (Baltic). Trachium, Billings, 18 65. Cyathiforme, Billings. rugosum, "Trichospongia, Billings, rugosum, "Trichospongia, Billings, sericea, n. s. Billings, Mingan Isles (G. St. Lawr.). Verticillopora, Defrance, 1828. Mid-Tennessee, Kentucky. 9. Kendal (Westmoreland). Kendal (Westmoreland).					
Tetragonis, Eichw., 185 9. Danbyi, M*Coy Orthoc. Lst. Murchisoni, Eichw. (Pleta) Orth.Lst. Dolom. Orth.Lst. Dolom. Orth.Lst. Dolom. Orth.Lst. Dolom. Orth.Lst. Sp. ind. M*Coy Trachium, Billings, 18 65. G. Div., CS. cyathiforme, Billings. rugosum, Trichospongia, Billings, Mingan Isles (G. St. Lawr.). CS. Billings, Mingan Isles (G. St. Lawr.). Verticillopora, Defrance, 1828. Kendal (Westmoreland). Kendal (Westmoreland).		minus, ,,	Mid-Tennessee, Kentucky.		
Orthoc. Lst		Tetragonis, Eichw., 185	9.		
(Pleta) Orth.Lst. parvipora, sulcata, sulcata, sulcata, sp. ind. M'Coy Trachium, Billings, 18-65. G. Div., CS. cyathiforme, rugosum, rugosum, Trichospongia, Billings, sericea, n. s. Billings, Sericea, n. s. Billings, Werticillopora, Defrance, 1828. (Russia). Réval (Baltic). Kirna (Esthonia). Kendal (Westmoreland). Kendal (Westmoreland).	L				Kendal (Westmoreland).
(Pleta) Orth.Lst. parvipora, "Billings, 18 (CS. Sericea, n. s. Billings, Newfoundland) C. Norman. Trichospongia, Billings, 18 (CS. Sericea, n. s. Billings, 18 (CS.	Orthoc. Lst	Murchisoni, Eichw.			
Dolom. Orth. Lst. sulcata, "Kirna (Esthonia). L. sp. ind. M*Coy Trachium, Billings, 18 65. G. Div., CS. cyathiforme, Billings. rugosum, "Trichospongia, Billings, s. 1865. CS. sericea, n. s. Billings, Mingan Isles (G. St. Lawr.). Verticillopora, Defrance, 1828.	(Pleta) Orth.Lst.	parvipora, ,,	Réval (Baltic).		
L	Dolom. Orth. Lst.	sulcata, ,,	Kirna (Esthonia).		
G. Div., CS cyathiforme, Billings. (Newfoundland) C. Norman. rugosum, "Trichospongia, Billing s, 1865." CS Billings, Mingan Isles (G. St. Lawr.). Verticillopora, Defrance, 1828.	L	sp. ind. M'Coy			Kendal (Westmoreland).
rugosum, Trichospongia, Billing s, 1865." CS		Trachium, Billings, 18	65.		
CS	G. Div., CS	cyathiforme, Billings.	(Newfoundland) C. Norman.		
CSsericea, n. s. Billings, Mingan Isles (G. St. Lawr.). Verticillopora, Defrance, 1828.		rugosum,	1005" "		
Verticillopora, Defrance, 1828.	og.	Trichospongia, Billing	s, 1865.		
	CS	sericea, n. s. Billings,	Mingan Isles (G. St. Lawr.).		
W apportus Lonsdale. Britain, Pyrton Passage.					Deltain Deuton Donner for
	w	aonormis Lonsdale.			Britain, Pyrton Passage, &c

Summary.—(Geographical.)

Acanthospongia 1 Continued 26 35 Achilleum 2 Palæomanon 1		8	pecie	s.				Spe	cies.		
Achilleum 2 Palæomanon 1 <t< th=""><th>Genera.</th><th>America.</th><th>Europe.</th><th>Common.</th><th>Genera.</th><th>America.</th><th>Europe.</th><th>N.S.Wales.</th><th>Tibet.</th><th>Tasmania.</th><th>Common.</th></t<>	Genera.	America.	Europe.	Common.	Genera.	America.	Europe.	N.S.Wales.	Tibet.	Tasmania.	Common.
00 02 1	Achilleum Amphispongia Archæocyathus Astræospongia Astylospongia Calathium Caunopora Cliona Cnemidium Coscinium Coscinium Coscinopora Dædalus Espongia Intricaria Ischadites	4 1 6 7 1 2 1 1 1	2 1 5 3 3 1 4 1 8	2 	Palæomanon Protospongia Receptaculites Reticulites Rhabdaria Scyphia Siphonia Siphonia Stromatopora Stromatocerium Tetradium Tetragonis Trachium Trichospongia	1 18 2 3 8 1 5 2 2 1	 4 4 2 3 2 1 4 1 5 	···	4		3

RHIZOPODA.

Ehrenberg's Lower-Silurian Foraminifera, 1858.

Fig.	2.	Vaginulina?	?	ACCOUNT OF THE PARTY OF THE PAR	Fig	10.	Rotalia palæoceras Dexiospira triarchæa	?	Globigerina.
	3.	Textularia initialis	?			11.	" hexarchæa	?	Rotalina.
	4.	Polymorphina Abaira	?	Bulimina.			Aristerospira octrachæa		
	5.	" avia	?	Bulimina.			Nonionina archetypus		
	6.	Guttulina Silurica	?	Bulimina.		14.	Spirocerium priscum	9	
		8. Rotalia palæotrias				-	-F Price and Illinois	100	

There is not one of the above determinations that can be definitely accepted. Some of the grains are possibly parts of Eozoon. They can only be spoken of as Textulariform, Rotaline, and such like; but of course Prof. Ehrenberg's names can be put in a catalogue as being really Foraminifera.—Prof. T. Rupert Jones.

Monatsbericht der Kön. Preuss. Akad. der Wissens., p. 445, 1861. Prof. Ehrenberg finds, near St. Petersburg, in the Lower-Silurian clayey green sandstone, the following Infusoria:—

Panderella silurica.	Panderella crepusculum.	Tiedemannia? antiquissima.	Criseis ? falx.
,, depressa.	Cymbulia? brachiospira.	" ? silurica.	" ? hemicyclus.
,, lobata.	,, vetustissima.	,, ? lunata.	

ZOOPHYTES.

Subkingdom CŒLENTERATA=Zoophyta, Linn.=Anthozoa, Ehrenb. Class ACTINOZOA. Subclass CORALLARIA, Edw.=Actinoidea, Dana. Orders ZOANTHARIA RUGOSA, Z. TABULATA.

Subdivision.	Genera, Species, and Author.	Lower Stage.	Middle Stage.	Upper Stage.
	Acervularia, Schweigg	er, 1820 = Lithostrotion (p	ars), D' Orbigny (Astræa, S	ow.).
Car., Woolh., W.	Ananas, Linn.	Coniston (Lancashire)	•••••••	Dudley,Staffordsh.,Ledbury Herefordsh., Finl., Gothl
	antiqua, MEdw.			Petchora (Russ.).
Llandov., W		35.0		(Engl.) Aymestry &c., Irel.
Corall.Lst., Wlh.,	=arachnophyllum typus, luxurians, MEdw. & H.	M'Coy.		Isle Oesel (Balt.), Dudley
W.	Alveolites, Lamarck, 18	01.		Gothl., Dalecarlia.
	annulatus, Eichw. apiculatus, ,,	Poulkova (Russia). Poulkova, Popowa (Russia).		
	Fougti, MEdw. & H.			Gothland.
W	Gravi, MEdw.			Dudley, Wenlock.
U. Llandov, W.	hemisphæricus, Eichw. Labechii. MEdw.	Poulkova (Kussia).	Wales, Galway, Ireland	Dudley, Westmorel, ?. (Irel.
Div. I. A. G.			(W.), (Anticosti) South-	Ferriter's Cove, Dingle
9	lobatus, Meningh.	Sardinia.	west Point &c.	(Russ.) Hapsal, Réval.
Orthoc. L	pyriformis, Eichw.	Poulkova &c. (Russia).		
Carad., Pleta., W.		Réval, Hapsal (Baltic)	Norway, Wales	Aymestry, Dudley (Engl.) Canad., Tennessee, De
	= millepora.			catur co., Kentucky.
W	serrato-poroides, MEdw.			Dudley, Wenlock Edge.
Guelph	Amplexus? Sowerby, 18	14.	Bay of Chaleurs, Gaspé.	Walsall (Engl.).
	laxatus, ,,	w. & H., 1850.		Guelph (Canad. Central).
L H G	Anisophyllum, MEdw. & H.	w. & H., 1850.		Tennessee, Wayne co. W. (De
2. 12. 0. 1	Arachnophyllum, Dan	a. 1846.	PARTICIPATION OF THE PROPERTY OF THE PARTICIPATION	vonian.test. MEdw.& H.
	Richardsoni, Salter			(Amer. Arctic Seas) Welling ton Channel.
w	typus, M'Coy			Ireland, Aymestry, Dudley
	= Acervularia-Baltica.			Wenlock, Walsall, May hill, &c.
Niag	Astrocerium, Hall, 1852 constrictum, Hall			
W				
Niag	parasiticum, Hall pyriforme, "			(Nova Scotia) New Canaan
				(N. York) Lockport &c.
Orthoc. L., Pent L., Corall. L.		Lyckholm (Esthonia)	Kattentack (Esthon.)	Isle Oesel (Baltic).
Niag	venustum, n. s. Hall			(N.York) Lockport &c. Nov
	Aulacophyllum, MI. Bolboporites, Pander	dw. & H., 1850=mitratum	(W.), Gothland, Dudley, Walsall.	Scotia, New Canaan, N.W. Michigan, Drummond I
СН	Americanus, Billings	Canada.	Transmir.	L. Huron.
Orthoc.L. = Pleta	mitralis, Pander	Ropscha, Zarskoe-selo, &c. (Russia).		

Subdivision.	Genera, Species, and Author.	Lower Stage.	Middle Stage.	Upper Stage.
Orthoc.L. = Pleta	semiglobosus. Pand	Ropscha, Czarskoe-selo (R.)		
" "		Poulkova &c. (Russia).		THE RESERVE OF THE PARTY OF THE
" "	triangularis, Pander	Ropscha, Czarskoe-selo (R.).		
" "	Boliviana, Salter, 1861.	"		
LS.?		Valley of Unduava, Bolivian		
13	orponio,	Andes, south side (S.A.).		
1)	melocactus, ,,	Aceromarka Vall., Illimani		
	1	Andes (S.A.).		
"	proboscidea, ,, Calceola, Lamarck, 1809	" " "		
W	americana, Rœmer			Tennessee West.
Del. Sh. L				
Pleta				Tennessee W., Norw., Sweden
***	Campophyllum, MH	dw. & H., 1850.		Tellifessee Wighter Wigoweden
Pleta., Corall. Lst.	flexuosum,	Réval (Baltic)		Pyhalep, Isle Daga (Baltic)
D'- 1 4 G (T1)	Calapoecia, Billings, 18	65,	G I D I II II	
Div.1.A.G.(Llan.) BL	Canadensis, Billings	Ottawa City (C.W.).	Gamache Bay, Anticosti.	
H. R. G	Huronensis, ,,	C. Smyth, Lake Huron.		1-1/4
	Callopora, Hall, 1852.	The second secon		
Niag	aspera, Hall			N Vanley
	elegantula, ,,, florida, ,,			
	laminata			"
. ,	nummiformis, ,,			,, ,,
Onon. S. Gr. ?	sp. ind.	040		Mackinaw (L. Huron).
	Calophyllum, Dana, 1 phragmoceras, Salt	848.		Wellington Channel, Arctic
	Cannopora, Hall, 1852.		and the same of th	America.
CL	junciformis, Hall		(N. York) Wayne county.	
	Chætetes, Fischer, 1837.			Canada V V.
Niag	alveolaris, Vern. annulatus, Eichw.	Poulkova, Papova (Russia).	••••••	Canada, N. York.
Lst. w. pyroxene.				
Pleta, W	aspera, D'Orb.	Esthonia",		Dudley (England).
	favosites.			Dudley Sedenley West
W.? Tr., M. Sa. &c	columnaris. Hall	Tenness.?, N.Y., Lewis co	N. York.	Oanada.
	tetradium.			
	01:	Ohio (U.S.A.).		
	filiasa, ,, monticulipora.	Frankfort (Kentucky), Cin-		
	Flotobowi	cinnati, &c. (Ohio).		Dudley (England).
H. R. G	frondosa,	(Ohio) Cincinnati, Oxford.		
Niag. L. H. G	Gothlandica, Hall?			
Pleta, Corall.Lst.	nemisphærica, Eichw.	Poulk. &c. (R.), Réval &c. (Estho.), I. Dago&c. (Balt.).	***************************************	Orynme (Kamenatz-Podsk.)
	heterosolen, MEdw. & H.	Ylytch, Petschora (Russia).		
B., BL., Tr.,		Tenn., Missouri, N.W. Mi-		
H. R. G.		chigan, Virginia, L. St.		
-		John (Can. E.), Canada W., N. York, Lockpt., &c.		
	var. nodosa "	N.W.Michigan (U.S.A.), Red		
		River (Hudson's Bay).		
H. R. G	mammulata, MEdw. & H.	(Ohio) Cincinn., Dayton, &c.		
	monticulipora. Panderi, De Vern.	St. Petersburg (Russia).		
Pleta, Llandeilo,		(C.W.) Mid-Ottawa, N.W.		
Car., Llandov.,		Vermont, Kentucky, Ten-		
W., CH., B.,		nessee, Ohio, Low. Silesia,		
BL., Tr.		Esthonia, Russia, Norway, Sweden, Wales, Ireland.		
	pavonia, MEdw. & H.	(Ohio) Cincinnati.		
W	pulchella, ,,			Dudley (England).
Dieto	pyriformis, Eichw.	Poulkova, Papova (Russia).		
Marie Marie And		(Ohio)Cinci. (Ind.)Madison. (Ohio) Cincinnati, (N. York)		
H. R. G		(Caro) Cancinnati, (A. LOFK)		
H. R. G		Herkimer county.		
H. R. G., W	tuberculata, MEdw. & H.	Herkimer county. (Ohio) Cincinn., Springf.,&c.		
H. R. G., W	tuberculata, MEdw. & H. yak, Salter.	(Ohio) Cincinn., Springf.,&c. Niti, Himalaya (E.I.).		
H. R. G., W	tuberculata, MEdw. & H. yak, Salter. sp. ind. Sharpe.	(Ohio) Cincinn., Springf.,&c.		

Subdivision.	Genera, Species, and Author.	Lower Stage.	Middle Stage.	Upper Stage.
CL	Chonophyllum, MEd	w. & H., 1850.	West Des Maritalia I	
ОБ	Belli, Billings.		L. Huron.	
W	perfoliatum, MEdw. & H.		II. Hulon.	England ?. Gothland
	Cladopora, Hall, 1852.	and the second s		
Niag	cæspitosa, Hall.			(N. York) Lockpt., Can. W.
**	cervicornis, ,,			(N. York) Lockport.
"	The state of the s			" "
.,	macrophora, ,, multipora, ,,			(N York) Lookport Con W
,,	multipora, ,, reticulata, ,,			(N.York)Lockport, Call.
,,	seriata,			(N.York) Lockport, Canad
N	Clathropora, Hall, 1852.			W., Tennessee.
Niag Tr	alcicornis, Hall.	(N. Wissensin) D. Francha		(N. York) Lockport.
Niag.	francisca, ,,	(N. Wisconsin) R. Escanaba.		Grimshy (Can Wast) (
	Clisiophyllum, Dana, 1	846.		York) Lockport.
Corall. Lst	buceros. Eichw.			Pyhalep, Isle Oesel (Baltic
	Danaanum, De Vern.			(Tennessee) Perry county.
Corall. Lst	cristatum,			Pyhalep, Isle Oesel (Baltic
,,	eminens, Eichw. Hisingeri De Vern.			" " "
	Salteri Haughton			(Arctic Amer.) Beechev Isl
W	vortex, M'Coy.			Shropshire (England).
	sp. ind			
w	Comites, Eichw., 1820	(Limaria, Steininger).		Lodbow Lincola III 411
***	ciathrata, Sow.			ley Hills, Dudley (Engl.
	enata, Hall.			N. York (U.S.A.).
W				
	and the second second			Norway.
Niag. U. Llandov., W.,	fruticosa? Hall.		(Norman) Malma Tala	(N. York) Lockport.
Corall. Lst.	intertextus, Eichw.		(Norway) Maimo Isie	Aymestry, Wilna (Russ.
Corum 1200.				Ireland
Woolh., W	juniperinus, ,,		Wales	Presteign, Mayhill, Dudley
				Ireland, Wilna (drift
U. Llandov., W.,		California de la Califo		(Russ.), Gothland.
Corall. Lst = Carad	labrosus, MEdw. & H.	Wesenberg, D'Erras (Estho.).		Dudley.
CL., Niag	laminata n. s. Hall.	Wesenberg, D Erras (Escho.).	Anticosti Isl. (G.S.L.)	(N. York) Lockport.
W	linearis, MEdw. & H.			Dudley, Kamenetz, Podoli
Corall. Lst	Linnæi, Eichw.		STATE OF THE STATE	Isle Oesel (Baltic), Lod
Corall. Lst				Sweden.
Coran. Lst	nodulosus, ,,			eichen.
Niag	ramulosus, n. s. Hall.			
W	strigatus, M'Cov.			Dudley (England).
		00		
RI.	Columnaria, Goldf., 18	C.E., Murray Bay, RedRiver,		fith's Island &c.
1012	arveolata, Hall & Billings.	Fort Garry, (C.W.) Mid-		
		Ottawa.		Personal Control of the Control of t
M. Sa	Blainvilli, Billings.	(N. York) Mohawk Valley,	Canada.	
		(Tenn.) Wisconsin, Nash-		
		ville, Highgate Springs, N. Vermont, and N. York,		Malata -
		Watertown, ChazyVillage,		
		Madison(Indiana),&c. &c.,		
m		Lake St. John (C.E.).		
Tr		Lake St. John (C.E.).		
CH Corall.Lst.,Scho-	incerta,	(Canad. E.) Lower Ottawa.		(N. Vork) Schoheric ac
harie.	mequano, m. s. Hall.			(11. LOLE) SCHOHAFIE CO.
Guelph H. R. G. ?	Galtensis, Billings.			Guelph (Canad. Central).
H. R. G.?	Goldfussi	St. John Lake (C.E.).		
сн		Canada		Gothland.
	rigida Billings	Canada. Lake St. John (C.E.).	1000	THE RESERVE TO SERVE THE S
H. R. G	stellata, Safford.	Stone's River, Tennessee.		
CH., BL	sulcata, De Vern.	N. York, Canada		Russia (course from the W.
	Sutherlandi, Salter.			Arctic Seas (America), Gar
Niag	en ind D.D.O.			nier Bay, &c.
g	Conophyllum, Hall, 18			opper mississippi.
	Niagarense, Hall.	02.		NV Looks to NWW

9

Subdivision.	Genera, Species, and Author.	Lower Stage.	Middle Stage.	Upper Stage.
Low. Sil	Constellaria, Dana, 1849. antheloidea,	Cincinnati, Dayton, Oxford (Ohio), Madison (Indiana), Lowville (N. York).		alasti -
,,	Cvathaxonia, Michelini.	867. Dobbs'Linn &c., Moffat(Df.). 1846.	1000	
	Dalmani, MEdw. & H.			
W., UL	Siluriensis, M [*] Coy. Cyathophyllum, Goldf.	, 1826. (Under this head are	many species truly referab	kendal (Westmoreland). le to other genera, but lef here for convenience of re ference, J.W.S.).
LLlandov., W	angustum, Lonsdale.		Lickey (Engl.), Llan.(W.)	
Div. 4=Mayhill	Anticostiense, n. s. Billings.		S.W. Point Anticosti Isle	
A. G.			(G. St. Lawr.).	
LLlandov., W	articulatum, Wahlenb. = Cladocora sulcata,			Mt. Klinteberg, Esthonia Russia, ArcticSeas (Amer.)
Niag	cesnitosum Hall			Pyhalep (Isle Dago), &c. N Vork Wise Chicag (III)
Corall. Lst	coralligerum, Eichw.			Isle Oesel (Baltic), Ficht,
Div. 4=Mayhill A. G.	Eriphyle, n. s. Billings. Euryone, n. s. ,,		Bay of Chalcurs (Gaspé). " (C.E.) The Jumpers (Anticosti)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Orthoc. L., W	flexuosum, Lonsd.	Réval (Baltie), Russia	Campero (Zantecostr).	Gothland, Isles Dago and
				Oesel (Baltic), Wenlock Malvern, &c. (Irel.) Fer riter's Cove and Dingle.
	interruptum, n. s. Billings.		Bay of Chaleurs (Gaspé).	
W	nymphale, n. s. Billings.		Bay of Chaleurs (Gaspé).	Wren's Nest near Dudley Gothland.
	Pasithea, n. s. "		Auticost"T (G. St. Tarm)	and the same of th
			Becsie River Bay.	
Corall. Lst	pileolus, Eichw.			(Isle Oesel, Baltic) Lodé.
w				Dudley, Gothland.
				(L. Huron) Portage Bay Manitoulin Island.
CL., Niag Devon.?				
Bala, W	turbinatum. Sow.	Prolimoor Well		(Shronshire) Wenlock Due
				lev. Malvern.
Woolh., W	truncatum, Linn. = Strephodes vermiculoides,	M'Coy.		ley, Irel., (Gothl.) Holm strand, Russ. (Isle Dago Lodé.
Mayhill				
	sp. ind. Salter.			(ArcticAmer.) Beechey I. &
	Cyclolites, Lamarck, 18	01		(N. New Brunswick) Rest gouché.
CL	rotuloides, n. s. Hall. Cylindripora, Eichw., 18	59.		
Dalom Carrell T				Wilna, Russia (drift).
Dolom., Corall.L. W	Cystiphyllum, Lonsd.	1839.		
	andle an and days Tana			
Llandov., W., Co- rall. Lst.		Waschkina (Petschora)		ley, (Isle Oesel) Lodé. Irel., Benthall Edge (Wes
w	Grayi, MEdw. & H.			moreland), Isle Oesel. Dudley.
CL., Niag	helianthoides ?			
Pentam. Lst.?	impunctum, Lonsd.		. (Pentam.Lst.) Bogoslofsk Ural.	(L. Huron) Huronia P.
		Datashawa N Dusais	Bay of Chaleurs (Gaspé).	TEN TO THE OWNER THE TEN
Llandov., W	obliquum, Keyserling Siluriense, Lonsd	Petschora, N. Russia.	Galway (Treland)	Dudley (England)
Liandov, W	turbinatum, Romer.			Thuringia.
	so ind Duncan	Tasmania West		
	sp. ind. Salter.	Tachana II Con		Arctic Seas(Amer.) Griffith'
	sp. ind. Hall.			Island, S.E. Wisconsin.

Subdivision.	Genera, Spe Auth		Lower Stage.	Middle Stage.	Upper Stage.
	Dania, ME	dw. & H., 18	49.		
	Huronica	" "	Isle Drumm., Lake Huron. 1851.	Service of the service of	
	Dekayia, M.	-Edw. & H.,	1851.		
Sil. Inf	aspera, M	Edw. & H.	Cincinnati, Ohio. De Vern.		
	Dendropora	, Michelini,	1845 (Rhabdopora).		
?	suffruticosa,	Menenghi.	Sardinia.		
	Dianulites,	Eichw., 1829.			
Pleta	detritus,	Eichw.	Poulkova, Popova, &c. (Russ.) Réval (Baltic).		
,,	fastigiatus,	77 77 1	Réval (Baltic).		
(D . D . 1)	Diplophyllu	im, Hall, 1	802.		
viag.(Dev.Engl.)	cæspitosum, n.	s. Hall.			(N. York) Lockport, N.W.
Con I. Sabahawia	oorallifamum				Michigan.
W	flexnosum.	D'Orb			Dudley? Malvern Ferritor
					Cove (Ireland)
Guelph	irregularis,	Billings.			Guelph (Central Canada).
H. R. G	sp. ind.	,,	(N. York) Oneida Co. &c.,		S.E. Wisconsin?
			Ohio.		
	Discophyllu	am, Hall, 18	46.		
I. R. G	peltatum,	Hall.	N. York.		
ZL	sp. ind.		7 1015 / 0 0 1 1 1	N. York.	
	Diphyphyll	um, Lonsa	ale, 1845 (see Cyathophyllu	m).	
71:40 T -4	Emmonsia,	M.Faw. g	п., 1691.	The state of the s	(01:08 : 611 /m
Unii Lst	nemispherica,	MEdw.&H.			
	? cylindrica				see) Perry county.
	Enallopora.	" ? "			(Kentucky) Louisville.
	Chartersi, n.s.				(archivery) abunsville.
	Eridophylli	um. MEdw	. & H., 1850.		
	rugosum?	MEdw.			Gothland.
CL	Vennori,	Billings.		Manitóuline I., L. Huron.	
	Favistella,	Hall, 1847	(Dana, 1846?).		
Carad	alveolaris,	Blainville.	(N. & S. Wales) Glyn Ceriog,		
D TY #		0.116	Meifod, &c.	y-Craig.	
B., BL., Tr	alveolata,	Goldiuss.	(Can. E. & W.) Pt. St. Clair,		
			Tennessee, L. Winnipeg,		
	favosidea,	Hall	Rupert's Land.	(N V Poshest Wayne oo	
H. R. G	favosa	Han.	Manitouline I., Lake Huron.	(N.1.) Mochest., Wayne co.	
	Franklini.	Salter.			(Arctic Amer.) Beechey Isl
	reticulata,				Griffith's Is
H. R. G		Hall.	Anticosti (G. St. Lawr.), N.		
24-7-100			York, Tennessee, Indiana,		
			Upper Mississippi River,		
	_	1.010	N.W. Michigan.		
	Favosites, L		= Calamopora, Goldf.		
	acanthopora,	Goldfuss.		(The all Mental the first	The state of the s
Car., L.ULlan-	alveolaris,	Goldiuss.	S.W. Scotl., Coniston (Lan-		
dov., W., L.				(Wales)Llandov,,Pen-y- lan,Oberpahlen(Livon.).	
			val (Baltic).	ian, Oberpamen (Livon.).	Sea, (Russ.) Altai.
	var a multipo	ra Lonsdale.	var (Danie).	Wales Tortworth May-	(Wales) Marlo Bay&c (Irel
	- ar ar arreigo	- i, zonomici		hill, &c.	Ardaun &c.,(Sw.)Malmo
Carad., Llandov.,	aspera,	D'Orbigny.	(Wales)Cefn-y-Garrig,Powis		Dudley, Malverns, Aymestr
W., L., Pentam.,		0.7	Castle.	(Livonia).	Woolhope, &c.
Corall. Lst.		the street of	Section of the section of the section		
G. g. 1, 3	Bohemica,	Barr.			(Bohemia) Hlubocep.
***	capax,	Billings.			
Niag		750	C ' C L' SW		Thorold (Canada S.W.).
Carad	crassa,	M'Coy.	Coniston (Lancashire), S.W.		
W., L	amieteta	Rhumanhaah	Scotland.	Malyama Calman (Tuel)	(Tonn) Desetur es Call
W., I	cristatii,	Diumenoach.		Marverns, Garway (1rel.).	
					Dudley, Wenlock, Réva Hapsal.
Mayhill, H.R.G.,	favosa. F	fall, Billings	Anticosti Isle	(Anticosti) The Jumpers.	(Esthonia)Katchukof, Oura
MSa., &c.		6		, and ounipoles	(Russ.), Tennessee (Car
					W.), L. Tematscaming, I
1				Marie	Huron, West end, Uppe
1				100	Mississippi River.
X		Goldfuss.	(Portugal) Busaco, (Can.E.)		(Tennessee W.) Decatur c
Tr., Ning	fibrosa,		The state of the s		
Tr., Niag			Lorette.	(33 1) 55	0 11 15 1 1 7 1
Tr., Ning Corall. Lst., L.U	Forbesii, M		Lorette.		
Tr., Niag	Forbesii, M			(Engl.) Tortworth, Glou- cestershire, Galway.	Dudley, Wenlk., Tortwort
Tr., Niag Corall. Lst., L.U	Forbesii, M	MEdw. & H.		cestershire, Galway.	Gothland, Dalecarlia, I. Oese Dudley, Wenlk., Tortwort Benthal Edge (Westml.) Tennessee, Decatur count

Subdivision.	Genera, Species, and Author.	Lower Stage.	Middle Stage.	Upper Stage.
Carad., Llandov., W., Corall. Lst.		(N.Wales)Llangollen, (Irel.) Maam, Tortworth (Glou- cestershire).	(Anticosti) passim, Kil- bride, Tortworth, Gal- way, Mayhill, Talkhoff (Livonia).	Wisconsin, Chicago, (Ill.
Tr., H. R. G., MSa., Niag., W.		Montreal, Mid. Ottawa R., N. York, Pennsylv., Mis- souri, RedRiv., (Huds.Ba.).		Swed., Norway, Russ., Thu ring., Bohemia, Esthonia Norway, Sweden, Russia.
	Lycoperdon, Billings		AnticostiIsle(G.St.Lawr.).	
Carad., L.ULlan- dov., W., Corall.	megastomum, Haughton multipora, M'Coy	Norbury, Haverfordwest, (Shropsh.), Quarry Hope.	(Wales) Craig-Gwyddon &c., Galway, Mayhill,	Arctic Seas (Amer.) Fury Pt Malvern, Marls.Bay(Wales
Lst. Niag.	niagarensis?, Hall		Fennern (Livonia).	(N. York) Niagara Falls Schoharie county, N.W Michigan, S. Wisconsin.
	patellaria, Kutorga	Esthonia.	The state of the s	Aymestry (Engl.), Gothland
Guelph, E. e. 1?, Pleta, Corall. Lst., Pentam.	polymorpha, Goldfuss	Polkova (Russia), D'Erras (Esthonia).	Oberpahlen (Livonia), Bo- hemia.	Arctic Seas, America. (Can. W.) Guelph, Isle Oesel Lodé, (Baltic), Petschor (Arctic Russia).
Lst., W., L. Mayhill &c., H. R. G. &c.	prolificus, Billings	Anticosti Isle, passim	Anticosti Isle, passim.	
?	ramosa, De Vern			Russia.
	reticulata, Blainville. Troosti, De Vern.	Réval, Wesenberg (Esthonia).		I.Oesel (Balt.), Petschora(R. Iowa (U.S.A.).
Niag	sp. ind. Salter.			(ArcticAmer.)Beechey Is. &c
?	" Selwyn	Tasmania West.	Victoria (Australia).	" Griffith's I. &c
w	decipiens, M·Coy. Fletcheri, MEdw. & H.	1850.		
	Goniophyllum, MEd	w. & H., 1850.		Gothland.
Llandov., W	pyramidale, Hising.		Galway (Irel.)	Dudley, Wenlock (Engl.). Wales, Gothland.
=Tr	sp. ind. Halysites, Fischer, 1813	Tasmania West.	The state of	others.
Niag.	agglomerata, Hall.			(N. & S.E. Wisconsin) Mil waukee, (N. York) Ogden
Pleta Llan.,Car., Llan- dov., W.		Isle Dago (Baltic). Anticosti, Canada E., N. York, Up. Miss., Ireland, Wales, S.W. Scotl., I. Dago, Norw.		Sweden Town, Monro co
?	communicans, Lamarck. dissimilis, Eichw.	Wilna (Russia), drift.	Kattentack, Esthonia.	Amer.), L. Tematscaming (C.W.), Thorold (C.W.)
Pentam. Lst H. R. G	exilis, ", gracilis, "Hall.	Wisconsin (U.S.A.).	Hapsal, Esthonia.	S. & N. Wisconsin, Ken tucky, L. Huron.
	Heliolites Dana 1846 =	The state of the s	and the second s	Dudley, Shropshire, Here- fordshire. Nova Scotia, N. York
Llan., Carad., Llandov., W.		S.W.Scotland		Thorold (Can. West).
W. Llan., Car., U Llandov., W.	inordinatus, Lonsdale.	(Wales) Pembrokeshire, Ro- beston, Wathen.	Ireland?	Dudley (England). Ferriter's Cove, Doonquin (Ireland).?
(Drift) Llandeilo, Car., Llandov., W., Pleta.		Lower Silesia. (Wales) Llangoll., Scotland, Ireland, Russia, Sweden.		Tennessee, Decatur co., Ca- nada, N.York, Irel., Scotl., Malverns, Bohem., Swed.
Car., W.	var. subtubulata, M'Coy. macrostylum. Hall	Coniston (Lancashire)		Aymestry (England).
Car., Llandov., W., Corall. Lst.	megastoma, Billings, M'Coy.	Anticosti, Can., Norw., Russ., (Wales) Glen Ciriog, &c., Coniston (Lancashire).	(Wales) Mathyrafal, Mal-	Canada, S. Wisconsin, Isle

Subdivision.		pecies, and hor.	Lower Stage.	Middle Stage.	Upper Stage.
Corall. Lst	microporus,	Eichw.			Hansal (Esthonia).
Niag., W	Murchisoni,	MEdw. & H.			Dudley (Engl.), Gothland
Con Tlandon	mataliformia	T	Continue (Town 1) Mr	W 1 01 1:	Tennessee.
Car,, Llandov., W.	petamormis,	Lonso.	Coniston (Lancash.), Man- dinam (W.).	Wales, Shropshire	Dudley, Walsall, &c. (Engl.) Ireland.
Corall. Lst	porosus, 1	MEdw. & H.			Isle Dago (Baltic), N. York
a v					Arctic America.
Car., Niag		Hall.	(S.W. Scotl.) Mulock Hill.	Chicatta D. Anticati	Bohemia, Norway, Sweder
(Mayhill) Div. 4, A. G.	sparsus,	Billings.		Chicotte A., Anticosti.	(Wales) Marloes Bay (Engl.) Dudley, Gothland
(Mayhill) Div. 1,	speciosus,	,,		(Anticosti) Junction Cliff	Upper Mississippi River
A. G.		PF 11			S. Wisconsin, Tennessee,
Niag Car., L.U Lland.		M'Cov	(S.W. Scotland) Mulock	S.W. Scotland	
Lland. = Div. 1,	tenuis,	Billings.	(S.W. Scotland) Muloca	Gamache Bay, Anticosti Is	Lockport, L. Hot Creek, Novada, California, (L. Hur
A. G.				***************************************	Drummond's Island, N.W
Car., W	tubulatua	Tonal	(S.W. Seetl.) Medeals The	C-119/W-1>	Michigan.
Car., w	= Propora.	Lonsu.	(S.W. Scotl.) Mulock, Llan- fyllin (Wales), Coniston	Golengoed r (Wales)	Bohemia.
	2.020		(Lancashire).		Donemia.
70.	tubulosus,		(S.W. Scotland) Girvan.		No. of the least o
Tr	vetustus, sp. ind.	Hall.	(N. York) Jefferson county.		(Austin America Chimala T
	sp. mu.	Saiter.	Ireland.		(Arctic Amer.) Griffith's Is
	=inordinatus	8?	-		
	Helopora,	Hall, 1852.			
Div. 2, A.G., Llan. Div. 2, 3, A. G		The state of the s		C I TV C	
Div.3,A.G.Mayh.	Circe.				
Div. 2, 3, Llan.,	concava,	,,		" East Point &c.	
Mavhill.					
CL., L. H. G	fragilis,	Hall.		(N. York) Rochester &c., Canada West.	Arisaig (Nova Scotia).
	var. Acadiens	is			, ,
Div. 2, 3, A. G.,	formosa,	Billings.		(Anticosti) East Point.	" "
Llan., Mayhill.					
Div.3, A.G. Mayh. Div.1, A.G. Llan.		"		T (1 COL:00	
Div.3, A.G. Mayh.		"		Y TI.	
?	micropora,		Lower Silesia (drift).		
Div. 2, 3, A. G.	nodosa,	Billings.		" Jupiter, R. &c.	
Llan., Mayhill. Div.3, A.G. Mayh.	striatonora	,,		" near S.W. Pt.	
Div.1, A.G. Llan.		"		" Junction Cliff	
Div. 1, 2, 3, A. G.	varipora,	"		" East Pt. &c.	
Llan., Mayhill.	sp. ind.	Hall		(Nova Sootia) Anisais	
	Heteropora	, Blainville,	1830.	(Nova Scotta) Arisaig.	Market Ma
W	crassa,	Lonsdale.	1851; Monticularia, Lons		Benthal Edge.
F1 1 777	Labechia,	MEdw, & H.,	1851; Monticularia, Lons	dale.	W 1 1 D 0 1 D 1
Llandov., W Tr.		Billings	Lake St. John (Can. East).	England, Galway	(Engl.), (Isle Oesel) Ho
					1. 5.6.
Corall. Lst		Eichw.		73 (1	Kamenetz (Podolia).
	Sternbergii,	Eichw., 185	9	Esthonia.	
,,	cribrosa,	Eichw.			Isle Oesel, Hoheneichen
	Tithoutmeti	am Thund	1000 . Floring 1007		(Daltia)
,,	antiquum, 1	300 104	1000; Fleming, 1021.		(T) (A)
w	Lonsdaieia Wenlockensis	M'Coy, 184	9.		(Russia). Dudley (England).
	Lvellia, M.	Edw. & H. 1	851.		
	Americana, 1	MEdw. & H.		(L. Huron) Drummond's	The same of the sa
	alabas	D D Owen		Island.	Town /TISAN
	glabra, sarcinula.	D. D. Owen.			Iowa (U.S.A.)
	Millepora,		all likely; one of the Mill		
G. g. 1					
w	repens,	Sow.		•••••	Dudley (Engl.), Coalbroo. Dale, &c.
G. g. 1	sp. ind.	Barr.			(Bohemia) Chotecz.
	Myriolites,	Eichw., 1859.			
		T00 - 1	Davilleams (Durania)		
Pleta		Michael 184	Poulkova (Russia).	1950. Monmons	
Pleta		, M. Coy, 184	9; Monticulipora, D'Orb.,		England?

Subdivision.	Genera, Species, and	Lower Stage.	Middle Stage.	Upper Stage.
	Author.			
Carad	= Monticulipora.	Coniston (Lancashire), N. Wales.		
Llan	favulosa, Phill.	(N. & S. Wales) Llan Mill,		
ULlan., Carad.	var. lens, M'Coy.	Dolwyddelan, &c. (Wales) Horderley, Bala,	aranti a	
	=Monticulipora.	&c., Scotland, Ireland,&c.,		
Pleta, Pent. Lst.		Leisley (Westmoreland). Poulkova (Russia)		
Car., W., UL	papillata, M'Coy. =Monticulipora.	Coniston Flags (Lancash.).		Dudley, Kendal (Westmore land).
Tr	Petropolitana, Pander.	(Can.W.)Mid.Ottawa River.		auto,
	sp. ind. Dunean. Oldhamia, Forbes, 1850.	Tasmania West.		
"	antiqua, Forbes.	Wicklow (Ireland).		
***	discreta, Kinahan. radiata, Forbes,	Wicklow, St. David's (S.W.).		
,,	sp. ind. Wyatt-Edgell.	Clifford, 1820; MEdw., 18		
Car. Llandov.W.	canina, Billings.	010000, 1020, 221-2200, 10		Dudley (England).
CL., Niag	= turbinata, Linn. congregata, Billings.	0.000, 10.20, 11.2200, 10	Huronia Pt, Lake Huron	Lake Huron, Cockburn Isl.
Corall. Lst			(Canada W.).	the same of the sa
				Hoheneichen, Isle Oesel (Baltic).
CL., Niag	Drummondi, MEdw.&H.		L. Huron, Cockburn Isl.	Lake Huron, Cockburn Isl. Ficht, Isle Occel
	grandis, Barr.			(Bohemia) Beraun.
w	= Cyathophyllum. Murchisoni, MEdw. & H.			Wenlock, Dudley (England)
	= Cystiphyllum.			
Pleta, W	subturbinatum, D'Orb.	Réval (Baltic).		Lodé, Ficht, Oesel I., Ura
				(Russia), Gothl. Djupvi ken, (Engl.) Ledbury &c.
Car., U.Llandov.,	turbinatum, Goldf.	(Wales) Llangollen, Westml.	(Wales) Cefn, Marloes	Wenl.Edge, Dudley, Westml
W.	verrucosa, MEdw.		Bay &c.	(Engl.), Wales, Gothl. (Lake Huron) Drummond's
the state of the s	Orbipora, Eichw., 1856.	Poulkova (Russia), Wesen-		Island.
		berg (Esthonia).		No. of the latest the
** ************************************	fungiformis, ,, Pachyphyllum, MEd	Popowa (R.), I.Dago (Balt.). w. & H., 1850.		
Corall. Lst	gibberosum, Eichw. Palæocyclus, MEdw.4			Hoheneichen, I.Oesel(Balt.)
Pleta, Corall. Lst.,	Fletcheri, MEdw.	Poulkova (Russia)		
W. Pleta	mitreolus, Eichw.	,, ,,		(Podolia).
U.Llandov, W	porpita Linn.			
w. ", ",	præacutus, Lonsd. rugosus, MEdw. & H.	***************************************		Dudley, Isle Dago (Baltic)
	Palæophyllum, Billing			(drift).
	Petraia, Münster, 1839;	TURBINOLOPSIS, Phill.; ST	REPTELASMA, Hall.	
Car., U.Llandov.	æquisulcata, M'Coy.	Westmoreland, Lancashire, (N. Wales) Glyn Ceriog,		
HPC	an enlete Dilli	(S.W. Scotl.) Mulock.		
H. R. G	angulata, Billings.	Anticosti Isl. west end (G. St. Lawr.).		
B., BL Car., Llandov., L.		Mid-Ottawa R.(CanadaW.). Malvern (Engl.), Horderley		Downton (Shropsh) Mon
Cari, mandovi, Li	oma, Lonsdate.	(W.), (Engl.) Shropshire,		Seisiog, Presteign, Fury
G. g. 1, 2	Bohemica. Barr.	Hope Quarry, Lancashire.		Point, Arctic America. (Bohemia) Vavrovitz, Hlu-
Niag.				bocep, &c.
Tr., H. R. G	corniculum, Hall.	L. St. John (Can. E.), Mid-		Thorold (Can. W.),(N. York) Lockport, Walcot, Esthon
		Ottawa (Can. W.), N.W. Michigan, New Mexico,		
		Missouri.		
Car., Llandov.,	costata, Meneghini. elongata, Phill.	Sardinia. Tyrone ?, (Wales) Bala ?	S.W.Scotl.,(Wales)Pen-v-	
W.			lan &c., (Engl.) Tort- worth.	
	latuscula Billings		White Cliff &c., Anticosti	
Llandov., May- hill=Div. 2, 3,	metalettin, minings.		Isle (G. St. Lawr.).	

Subdivision.	Genera, Species, and Author.	Lower Stage.	Middle Stage.	Upper Stage.
Tr BL., Tr		Ottawa City (Can. W.). Wisconsin, Mid-Ottawa R. (Can. W.).		
Llandov. = Div.1, A. G.	pulchella, Billings		White Cliff &c.	
ULlandov	pygmæa, ,, reticulata, Salter		(Wales) Pen-y-lan, Llan-	
Car., Llandov	rugosa, Phill	(N. Wales) Peniarth, Castel Craig &c.	dovery. (Wales) Penlas, Llando- very.	
H. R. G H. R. G., Div. 1, A. G., Llan- dov.	selecta, ,,	Lake St. John (Can. E.). Anticosti, West end		
Car., U.Llandov., W., L.		(S.W.Scotl.) Mulock, (West- morel.) Leisley, Pullscar (Westmoreland).	(N. & S.Wales) Cefn, Pan- y-lan, Shropshire.	(Wales) Plas Madoc.
Car., L.ULlan- dov.	uniserialis, M'Coy.		(Wales) Denbighshire&c. Pen-y-Craig, Llangynyw &c. (Wales). (Wales) Llandevery	
L.ULlandov	var. gracilis, ,, ziczac ? ,, sp. ind. Menegh.		Ardaun, Galway (Irel.)	
	Phacites? Wahlenberg.		The state of the s	
	Gothlandica, Wahlenb. Plasmopora, MEdw. &	H., 1849=Palæopora; Prop	ora, M'Cov.	
Niag W				Decatur counties.
Niag	Propora, MEdw. & H.,	1849 = Heliolites.		Dudley (England).
Car., Llandov., Pleta, W.	tubulata, Lonsd.	Isle Dago (Baltic), Canada.	AnticostiIsle(G.St.Lawr.).	Borekholm &c. (Esthonia). Shropshire, Dudley, N. & S Wales, Gothland, (Bohe-
Asserted to the same of		Alexanderville (Ohio). Canada, (Ohio) Cincinn. &c., (Indiana) Madison, (N. York) Jefferson Co.		mia) Beraun.
Div. 4 = Mayhill.	Ptychophyllum, MEd Canadense, Billings.	w. & H., 1850=Strombodes	, pars. AnticostiIsle(G.St.Lawr.), S.W. Point.	and the same of th
	patellatum, MEdw. & H.	••••		Arctic America. (Irel.) Doonquin, Dudley. Malvern, Gothl., Norway.
				Island.
	Rhinopora, Hall, 1852.			Isle.
	tuberculosa,			New York.
CL., Niag	verrucosa, ", Rhizophyllum, Lindstr	öm, 1866.	New York	New York.
	Sarcinula, Lamarck, 18	16=Syringophyllum, ME	dw. & H., 1850.	Gothland. Upper Mississippi River.
	obsoleta Hall	(Wisconsin) Green Bay. (Britain)Coniston &c.,Lower Silesia, Sweden, Norway,		Norway, Dudley, Westmore- land, Isle of Worms, Hap-
(A group?) CH., B., Corall.	Stauria, MEdw. & H. astræaformis, MEdw.	Esthonia. (N. York) Watertown, Chazy		sal (Esthonia). Isle Dago, Pyhalep (Baltic),
Lst.	Stellipora, Hall, 1847.	Village. (N.York) Lewis County, Up.		Gothland, Esthonia.
	Stenopora, Lonsdale, 184 adhærens, Billings.	Mississippi River. 5.		
	= incrustans?		Gamache Bay, Anticosti.	

Subdivision.	Genera, Species, and Author.	Lower Stage.	Middle Stage.	Upper Stage.
Llan., Carad. Llandov,, W. L., Queb. Gr. CS., Div. P.		N. Wales passim, S.W. Scot land, (S.Wales) Pembroke shire &c., Lancash., Nor way, Réval (Baltic), Sar dinia, Newfoundl. West (Can. E.) Murray Bay (Can. W.) Bellville, Anti costi.	yrafal, (Engl.) Mayhill Anticosti Isl. passim.	
Carad	var. incrustans, M'Coy var. Lycoperdon, Hall	Wales, Westmoreland, Nor		Ludlow, Hereford, Wales Westmoreland.
Car., W	var. ramulosa, Phill	way, N. York, Canada. (Shropshire) Aston Scott Westmorel., S.W. Scotl.	,	Dudley, Westmorel., (Wales Mercklin.
	Meneg	Sardinia, (Wales) Conway Meifod &c.		
Fr	Huronensis, Billings. globosa, Chapman	Cape Smith, Lake Huron. (Can. W.) Bellville.		Kendal, Dent (Yorkshire).
H. R. G CH H. R. G	patula, ,,	Wreck Point, Anticosti. Canada. English Head, Anticosti.		
CH., B., BL., Tr.	Petropolitana, Pand. ramosa, Chapman.	Canada. (Can. W.) Bellville.		
Llan., Car., Llan- dov., W. Queb. G	regularis, Goldf. var. fibrosa. rugosa, Billings.	Wales, Shropshire, Yorksh. Lancashire, Westmorel. Newfoundland West.		
L. H. G	Tasmaniensis, Lonsd. sp. ind. Honeyman.	Tasmania (C. Darwin).		Arisaig (Nova Scotia). (North New Brunswick) Res
JL?	Strephodes, M.Coy,	1848,	Victoria (Australia).	tigouche.
	Craigensis McCov	(S.W. Scotland) Girvan.		Fury Point (Arctic America) Griffith's Isl. (Arctic Amer
W	plicatus, Goldf.		***************************************	Wenlock, Malvern, Ireland Gothland, Sweden.
				Dudley (Engl.), Presteign (Wales). Dudley.
w	undulatum, Ræmer. vermiculoides, M'Coy.			Lower Harz (Germany). Aymestry (Herefordshire)
J.Llandov	Streptelasma, Hall, 184	7 = Petraia.	(Wales) Llandovery, Cas- tel Craig, Gwyddon.	Wenlock (Shropshire).
Эн	Europæum, Ræmer.	(N.York, N.E.) Chazy Village. Lower Silesia (drift).		
Fr	parvulum, ,,	(N.York)Jefferson Co. &c. Tennessee, (N. York) Water-	and the same	
	Striatopora, Hall, 1852.	town, N.W. Michigan, (Can. E.) Lake St. John.		
liag	flexuosa, Hall. Strombodes Schweigger	1820		Dundas(Can. W.), (N.York) Lockport.
Iayhill, W., Div. 1, A. G. L., Niag.	The state of the s		A STATE OF THE PARTY OF THE PAR	Much Wenlock (Shropsh.).
liag.			West Point.	Manitoulin Isl., L. Huron
L., Niag	Labechii, MEdw.			(Can. N.W.) Dudley &c. (England). Dudley &c., Eggol &c. (Irel.)
iag.	pentagonus, Billings.			Canada, Up. Mississippi R.
Viag	striatus, Billings.			(Can. N.W.) L. Tematscam- ing, L. Huron West End.
leta, Corall.Lst.	Syringophyllum, $M-E$	dw. & H., 1850 (Sarcinula, Gothland,(Esthon.)Réval&c.	Dana).	(Esthon.), Dudley(Engl.). Dudley (England).
	Syringopora, Goldf., 18	26 (including Aulopora, its N.W. Michigan, Ohio, Ken-	creeping stem, J.W.S.).	, (8).
dandov W., L.	bifurcata, Lonsd.	tucky.	Llandovery (Wales)	Wenlock, Dudley, Scotland, Ireland, Dingle, (Kame- netz Podolsk) Orynine.

Subdivision.	Genera, Spec		Lower Stage.	Middle Stage.	Upper Stage.
G. g. 1, 2	Bohemica	Barr			(Bohem.) Pekarkov., Chotecz
W		Lonsd.			Wenlock, Dudley &c. (Engl.)
Pentam. Lst		Eichw.		Fennern (Livonia).	Welloca, Dualey des(Dings.)
Niag		Billings.			(Can. E.) Gaspé, L'Anse d
					la Vielle, (C.E.) Dudswell
(W.) Pleta		Goldf.	Isle Dago &c. (Baltic)		Dudley (Engl.), (Lonsdale).
	= Aulopora.	-			
Niag		Billings.	* 1 D (D 141)		Anticosti, L. Tematscaming
Pleta			Isle Dago &c. (Baltic).		Up. Ottawa R. (Can. W.)
Corall. Lst	= Aulopora.	Titalen			O
U Llandor W	faccionlania G	oldf Linn			Develor Unit Lollows Por
C.Liandov., w	= geniculata,	Haughton.			thal Edge (Engl.), &
	-genicinua,	Haugitton.			Wales, Isle Oesel (Baltic
		L			Gothland, Arctic America
					Griffith's Island.
W	filiformis?,	Goldf.			Gronigren (Germ.), (Engl
					Ledbury, Usk &c.
Pleta, Mid-Sil.,	intricata,	Eichw.	Lyckholm (Esthonia)	Fennern (Livonia)	Orynine, Kamenetz (Podolia
Cor. Lst.					
	irregularis,	D'Orb.			Benthal Edge (Westmorel.
	=Aulopora.				
Car., W	Lonsdaleana,	M'Coy.	Portrane (Ireland)		
Ni	T 111	Delle			(England).
Niag		Billings.			N W Mighiaga (T Same)
H. R. G		Hall.	N.W.Michigan (L.Superior).		N. W. Mienigan (L. Superior
Corall. Lst		re & Walah	N.W.Michigan (L.Superior).		Isle Oesel (Baltic)
Colain List	= Aulopora.	tr de waten.			Isic Ocean (Dante).
	reticulata ?.	Hanghton			(Arctic Amer.) Beechey Isl
L					
Niag	retiformis.	Billings.			(L. Huron) Isthmus Bay.
U.Llandov., W		Lonsd.		Wales	Ireland, Dudley, Woolhop
					Benthal Edge, S. Wale
					Upper Mississippi River
Corall. Lst	serpuloides,	Eichw.			Esthonia.
	= Aulopora.				
	tabulata,				Ohio, Delaware &c. (U.S.A.
Corall. Lst					Borolowsk, Ural (Russia).
,,	tubus,	Eichw.			Isle Oesel (Baltic).
Niag	= Aulopora.	Calde			(Can E) Gasná I. Huma
Mag	verticinata,	Goldi.			Drummond's Island.
	sp. ind.	Billings.			
	-Pr mar		and the second s		Ottawa River).
	,,,	Meek.			Arctic America, Kennedy
					Channel.
	,,	Salter.			(Arctic America) Griffith
	0.000				Island &c.
	,,	Whitney.		•••••	Hot Creek, Nevada (Calif
***	,,	Salter.			
UL		Billings.	040		(North New Brunswick)Re
Cowell Tet	Thecia, ME	aw. & H., 1	849.		Fight Isla Ossal (Baltic)
Corall. Lst Pentam. Lst.	approximata, cauliculus,			Fennern (Livonia)	Ficht, Isle Oesel (Baltic).
Pleta		"	D'Erras, Wesenberg (Estho.).	Peimern (Livoma).	
W	www.cows.com	Loned	D Erras, weschoerg(Estato.).		Dudley, BenthalEdge(Wes
	= Palæopora,	M'Cov.			moreland).
Car., W		MEdw			Dudley (England).
	petaliformis,	Lonsd	Coniston (Lancashire), Man-		
			dinam (Wales)		
Woolhope, W., L.	Swindernana,	Goldf.	umani (maico).	•••••	(Tennessee) Decatur Co
	CHARLES TO SERVICE				Dudley, Benthal Edg
	4				Coalbrook Dale, Woo
					hope, Gothland.
	sp. ind.	Vern.	6 77 1050	•••••	(Tennessee) Perry Co.
N:	Thecostegite	es, MEdw.	g H., 1850.		Tannassaa Wast Danston C
Niag	hemisphærica,	Ræmer.	1000 Commi		Tennessee, West Decatur C
H P C Tland	Zaphrentis,	Rafinesque,	1820 = CANINIA.	Anticosti Isla Din 1	(U.S.A.).
H.R.G., Llandov.	hallistriat	Billings.	Anticosti I., Wreck Point,&c. Anticosti I., Wreck Point	Anticosti I Wwood Dt for	
	bellistriata,	"	Anticosti I., Wreck Point	(L. Huron) Huronia Point	(L. Huron)Cockburn Isl. &
CL., Niag		" H-11		(N. York) Lockport &c.,	
,, ,,	bilateralis,	Hail.	Anticosti I. (G. St. Lawr.).	Canada, Anticosti Isle.	A STATE OF THE STA
H. R. G	Canadensis	Billings	Drummond's Isl., L. Huron.	Cumula, microsti 1816.	Name of the last o
CL., Niag			Drummond s Isi., Iz Huron.	(L.Huron) Owen's Sd. &c.	Name of the second second
DL, Mag	Cinctood,	"		- Total of the control of the contro	Company of the second

Subdivision. Gene		Species, and uthor.	Lower Stage.	Middle Stage.	Upper Stage.
Niag	denticulata,	MEdw. & H.			Niagara River (Can. W. Middle Carboniferous Ka
Pleta	dilatata, Hayesi,		I. Dago, Hohenholm (Balt.).		louge (Russia). CapeFrazier,Kennedy Chan
w		M'Coy.			nel, Arctic Seas. Wenlock (England).
CL Pentam. Lst		Billings.		Canada, (N.York) Lockp ^t .	
Maybill	Contract Con				
Del. Sh. Lst	Rœmeri,				(N. York) Bethlehem, He derb. M ^{ts} .
CH	Stokesii,	Billings.			Canada, Drummond's Islan (L. Huron).
Corall. Lst		MEdw. & H.			
U.Bala, W	turbinata,	Linn., Hall.	Craighead (Ayrshire)		Pyhalep, Isle Dago (Esthon. Dudley, Ledbury (England
Niag	sp. ind.		North Vermont (U.S.A.).		N. York, Chicago, Illinoi N.W.Michigan (L.Superior
UL					

1				Spe	cies.					377.55	Sp	ecies.		
	Genera.	America.	Europe.	Australia.	India.	Tasmania.	Common.	Genera.	America.	Europe.	Australia.	India.	Tasmania.	Common.
	Acervularia Alveolites Amplexus Anisophyllum Arachnophyllum Astrocerium Aulacophyllum Bolboporites Calceola Callopora Calophyllum Cannopora Campophyllum Cannopora Clampophyllum Cannopora Clathropora Clathropora Clisiophyllum Constellaria Conophyllum Constellaria Corynoides Cyathaxonia Cyathophyllum Cyelolites Cylindropora Cystiphyllum Conai Cystiphyllum Conai Cystiphyllum Constellaria Corynoides Cyathaxonia Cyathophyllum Cyelolites Cylindropora Clisiophyllum Constellaria Corynoides Cyathaxonia Cyathophyllum Cyelolites Cylindropora Cystiphyllum Consie Cystiphyllum Cyelolites Cylindropora Cystiphyllum Consie Cystiphyllum Cyelolites Cylindropora Cystiphyllum Cyelophyllum Cyelophyllum Consie Cystiphyllum Cyelophyllum Cyelophyllum Cyelophyllum Cyelophyllum Cyelophyllum Cyelophyllum Cyelophyllum Cyelopora Cystiphyllum Cyelophyllum Cyelophylum C	2 2 1 1 1 4 4 1 3 3 6 6 1 3 1 17 1 7 7 3 3 3 5 5 13 1 1 1 13 1 1 14 1 1 1 14 2 2 2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1 · · · · · · · · · · · · · · · · · · ·		1	Continued Fletcheri Goniophyllum Halysites Heliolites Helopora Heteropora Labechia Laceripora Lithostrotion Lonsdaleia Lyellia Millepora Myriolites Nebulipora Oldhamia Omphyma Orbipora Pachyphyllum Palæocyclus Palæophyllum Petraia Phacites? Plasmopora Protarea Ptychophyllum Rhinopora Rhizophyllum Stauria Stellipora Stenopora Strephodes Streptelasma Striatopora Strombodes Syringophyllum Syringopora	130	102 1 3 8 20 1 1 3 1 1 1 1 3 1 6 4 4 8 2 1 1 5 1				11
13	Favistella	18	1 16 1	"i		"i	 6t	Thecia Thecostegites Zaphrentis	1	7 6				1
		130	102	1	1	1	11		269	249	2	2	4	32

[†] America and Europe.

SUBKINGDOM ANNULOSA. PROVINCE ANNULOIDA. CLASS ECHINODERMATA. ORDER CRINOIDEA.

Subdivision.	Genera, Spec Author		Lower Stage.	Middle Stage.	Upper Stage.
	Actinocrinus	Miller, 1	321.		
	costatus,		Poulkova (Russia).		
Pleta.					
Orthoc. Lst	dubius,		,, ,,		Isle Oesel) Hoheneichen.
Niag	Meeki,	Lyon.			Kentucky) Louisville, Oer
					nant &c Kendal (West
	the state of the s				morel.), Llangollen (W.)
,,	obpyramidalis, V	Winchell &	Marey		Chicago (Illinois, U.S.A.).
ULlandov., W	pulcher,	Salter.	Gameswell, Ulverston (Lan-		
		** **	cashire).		
CH	tenuiradiatus, n.	s. Hall:	(N. York) Chazy Village.		
Niag	Whitfieldi,	37	0 1 2 2 1		(Wisconsin) Racine, Wa
CH	sp. ma.	C-1	Canada, N. York.		kesha, Indiana.
	"	Saiter.			
?		Solwen		Viotoria (Australia)	America).
	Aspidocrinus	Hall 185	9	victoria (Australia).	
Delth. Sh. L	callosus	Hall			Schohavia Co N Vork
Detell. Oll. 12	digitatus, n. s.	Alan.			
Scutella Lst.,	scutelliformis.				" "
L. H. G.	ocute in or mino,	,,			,, ,,
	Asterocrinus	Münster.	1843 (see Pterocrinus).	The second second	
L. Pleta with			Poulkova (Russia).		
green grains.		and the same of th			
L. Pent. Lst		Vanuxem.			N. York.
L. Pleta with		De Vern.	Poulkova (Russia).		
green grains.				7	
	Balanocrinus	, Agassiz,	1845.		Market Company
	inflatus,	Hall.	Canada?		Wisconsin.
~**	Blastoidocrin	us, Billin	gs, 1859.		
CH	carchariædens,	Billings.	(Canada E.) Montreal.		
D 141 CL T	Brachiocrinu	IS, Hall, 18	59.		(N. VI.) Hald-at. Mts. 6.
Delth. Sn. L	nodosarius, n. s. Calliocrinus,	Tronk 10	477		(N.10rk) Heiderb, M. &
	camocrinus,	Durochor 9	***		Norway Gothland
	Calyx, Rouaul				Norway, Gottiland.
	Sedgwickii,	Ronault	(France) Vitré, La Couyère.		
	Carabocrinus				
Tr	radiatus,	Billings.	Ottawa City (Can. W.).		
H. R. G	tuberculatus,	,,	OttawaCity(Can.W.),or An-		
			ticosti, Charleton Point.		The state of the s
Tr	Van-Courtlandt	i, "	Ottawa City (Can. W.).		
	Caryocrinus,	Say, 1825.			
	globosus?	Troost.			(Tennessee) Decatur Co.
	granulatus,				
**	hexagonus,				
	insculptus, loricatus,				
	meconoideus,	Troopt			(Tennessee) Decetus Co
CL., Niag		Sav		Lockport(N.York) South-	Lockpt. (Tennessee) Deca
- 20, 21mg	U.S. SALES SALOY	Day.		east Wisconsin.	Co., Grimsby (Can. W
	1.1.			1000111111	Chicago (Illinois), Ko
	Cheirocrinus	, Salter, 18	59.		tucky.
Niag	chrysalis,	Hall.			N. York.
	giganteus, D. de	Leuchtenb.	Popova, Poulkova (Russia).		
	ornatus,	Eichw.	Poulkova (Russia).		
Pleta	penniger,	"	Wesenberg (Esthonia), Poul-		
***			kova (Russia).		
W					
Niag.					
W., Niag	sp. ind.	Fletcher.			(England) Dudley.
141ag	Claicerinus	Billings 19	5.7		" "
Tr	Cleiocrinus,	Billings	(Canada) Ottawa River.	Total Inc. of the last	
	magnificus.				
"	regius,	"	" "		
,,	Closterocrin	us. Hall 1	852."		
CL	elongatus, n. s.	Hall	002.	(N. York) Lockport.	and the second second second
	Coccocrinus	Ramer, 18	60.		
Niag		Ræmer			(Tennessee W.) Perry a
	Condylocrin				Decatur Counties.
Orthoc. Lst			Bogolowsk (Ural).		a state of the second
				bearing motion of the of	ome in mud TWS
	Cophinus, K	oni q , 1839 (the markings made by the t	ransverse motion of the st	ems in muu, o. w.s.).

Subdivision.	Genera, Species, and Author.	Lower Stage.	Middle Stage.	Upper Stage.
	Coronocrinus, Hall, 18	59.		
Delth. Sh. Lst	polydactylus, n. s. Hall	0.40		Schoharie Co. (N. York).
C II T at Diate	Crotalocrinus, Austin,	Russia	- Salt	Desir Conde Nome Tel
Corall.Lst.,Pleta.	rugosus, Saiter	. Russia		. Russia, Sweden, Norway, Islo Oesel (Baltic), Esthonia
				(England) Dudley.
	sp. ind.	ch, 1845. Popova Poulkova&c.(Russ.)		. (Arctic America) Wellington
	Cryptocrinites, Von Bu	ch, 1845.		Channel.
Orthoc. Lst		Popova, Poulkova (Russia).	The second secon	parameter and the same
Orthoe. Lst. =	Ctenocrinus, Bronn, 18	Poulkova (Russia).	A STREET, SQUARE, SQUA	
Pleta.	motatus, Bichw	. I outhorn (Itussia).	The second second	
,, ,,	punctatus, ,,	,, ,,	A STATE OF THE STA	
	stellaris, Rœmer			
Orthoc., Corall.	typus, Bronn	Réval, D'Erras (Balt.), Poul-		
Lst.	Cyathocrinus, Miller,	kova (Russia).	NO TOTAL STATE OF	Pank.
w	arthriticus Phillins	021.		Dudley &c. (England).
	capillaris,			Dudley.
Niag	Cora. Hall			(Wisconsin) Racine.
Pleta, Corall. Lst.	exilis, Eichw	Poulkova (St. Petersburg,		(Isle Oesel, Baltic) Ficht.
w	gamindanteles musi	Russia).		Dudley.
Niag.	ornatus Billings			Canada West
	penniger. De Vern			Russia.
Corall. Lst	pinnatus, Goldf			(Isle Oesel) Ilpen &c.
,,	Polyxo, Hall			(Indiana) Waldron.
N:"	pusillus, ","			N: " D :" W: :
Niag	? sp. ind. Selwyn		Viotonia (Austrolia)	Niagara, Racine, Wisconsin
	Cyclocrinus Eichw 185	9 (Pasceolus, Billings, 185	7)	
Tr		Ottawa River (Can. W.).	.,-	
MidSilurian	Halli, "	Anticosti Isle (G. St. Lawr.).		
Low. Silurian		St. Petersburg and Réval.		
Niam	Cystocrinus, Ramer, 18 Tennessee-ensis, Ramer	60.	- Auren	(Town asses West) Desetus Co
	Cytocrinus, Ramer, 186			(Tennessee West) Decatur Co
,,	lævis, Ræmer			. ,, ,,
	Cupressocrinus, Goldf.	1832.		
Orthoc. Lst. (=	pentaporus, Eichw	Narva, Poulkova and Gdow		
Pleta).	Dendrocrinus, Hall, 18	(Russia).	SHIPS SHIPS SHIPS IN PRO-	The second second second second
T	Dendrocriffus, Ham, 10	02.		
		Ottawa City (Can W.) Mon-		
1r	acutidactylus, billings	Ottawa City (Can.W.), Mon- treal?, Shum.		
,,	angulatus	Ottawa City (Can.W.), Mon- treal?, Shum. Ottawa City (Can. W.).		
,,	angulatus, ,, conjugans, ,,	treal?, Shum. Ottawa City (Can. W.).		
,,	angulatus, ,, conjugans, ,, cylindricus, ,,	treal?, Shum. Ottawa City (Can. W.). Montreal (Can. E.).		
,,	angulatus, ,, conjugans, ,, cylindricus, ,, gregarius, ,,	treal ?, Shum. Ottawa City (Can. W.). Montreal (Can. E.). Ottawa City (Can. W.).		
" "	angulatus, ,, conjugans, ,, cylindricus, ,, gregarius, ,, humilis, ,,	treal?, Shum. Ottawa City (Can. W.). Montreal (Can. E.).		
" " " " "	angulatus, ,, conjugans, ,, cylindricus, ,, gregarius, ,, humilis, ,,	treal?, Shum. Ottawa City (Can. W.). Montreal (Can. E.). Ottawa City (Can. W.). Montreal (Can. E.), Ottawa City. Quinté Bay, Lake Ontario.		
", ", ",	angulatus, ,, ,, conjugans, ,, ,, cylindricus, ,, ,, gregarius, ,, ,, humilis, ,, ,, ,, latibrachiatus, ,, ,,	treal?, Shum. Ottawa City (Can. W.). Montreal (Can. E.). Ottawa City (Can. W.). Montreal (Can. E.), Ottawa City. Quinté Bay, Lake Ontario. (Anticosti Isle) Charlton P ^t .		
", ", ", ", ", ", ", ", ", ", ", ", ", "	angulatus, ,, ,, conjugans, ,, ,, cylindricus, ,, ,, munilis, ,, ,, humilis, ,, ,, latibrachiatus, ,, longidactylus, n. s. Hall.	treal?, Shum. Ottawa City (Can. W.). Montreal (Can. E.). Ottawa City (Can. W.). Montreal (Can. E.), Ottawa City. Quinté Bay, Lake Ontario. (Anticosti Isle) Charlton P ^t .		(N. York) Lockport Shale.
", ", ", ", ", ", ", ", ", ", ", ", ", "	angulatus, ,, ,, conjugans, ,, ,, cylindricus, ,, ,, munilis, ,, ,, humilis, ,, ,, latibrachiatus, ,, longidactylus, n. s. Hall.	treal?, Shum. Ottawa City (Can. W.). "Montreal (Can. E.). Ottawa City (Can. W.). Montreal (Can. E.), Ottawa City. Quinté Bay, Lake Ontario. (Anticosti Isle) Charlton Pt. Ottawa City (Can. W.) Mon-		(N. York) Lockport Shale.
" " " " " " " " " " " " " " " " " " "	angulatus, ,, conjugans, ,, cylindricus, ,, gregarius, ,, humilis, ,, latibrachiatus, ,, longidactylus, n. s. Hall. proboscidiatus, Billings.	treal?, Shum. Ottawa City (Can. W.). Montreal (Can. E.). Ottawa City (Can. W.). Montreal (Can. E.), Ottawa City. Quinté Bay, Lake Ontario. (Anticosti Isle) Charlton P ^t . Ottawa City (Can. W.) Montreal.		(N. York) Lockport Shale.
", ", ", ", ", ", ", ", ", ", ", ", ", "	angulatus, ", conjugans, ", cylindricus, ", gregarius, ", humilis, ", ", latibrachiatus, ", longidactylus, n. s. Hall. proboscidiatus, Billings. rusticus, ", similis.	treal?, Shum. Ottawa City (Can. W.). Montreal (Can. E.). Ottawa City (Can. W.). Montreal (Can. E.), Ottawa City. Quinté Bay, Lake Ontario. (Anticosti Isle) Charlton P ^t . Ottawa City (Can. W.) Montreal. Ottawa City (Can. W.).		(N. York) Lockport Shale.
", ", ", ", ", ", ", ", ", ", ", ", ", "	angulatus, ", conjugans, ", cylindricus, ", gregarius, ", humilis, ", ", latibrachiatus, longidactylus, n. s. Hall. proboscidiatus, Billings. rusticus, ", similis, tener, ", "	treal?, Shum. Ottawa City (Can. W.). Montreal (Can. E.). Ottawa City (Can. W.). Montreal (Can. E.), Ottawa City. Quinté Bay, Lake Ontario. (Anticosti Isle) Charlton P ^t . Ottawa City (Can. W.) Montreal. Ottawa City (Can. W.).		(N. York) Lockport Shale.
", ",	angulatus, conjugans, cylindricus, gregarius, humilis, Jewetti, latibrachiatus, longidactylus, n. s. Hall. proboscidiatus, Billings. rusticus, similis, tener, Dictyocrinus, Conrad.	treal?, Shum. Ottawa City (Can. W.). Montreal (Can. E.). Ottawa City (Can. W.). Montreal (Can. E.), Ottawa City. Quinté Bay, Lake Ontario. (Anticosti Isle) Charlton Pt. Ottawa City (Can. W.) Montreal. Ottawa City (Can. W.). Anticosti, West end. 1841.		
", ", ", ", ", ", ", ", ", ", ", ", ", "	angulatus, conjugans, cylindricus, gregarius, humilis, Jewetti, latibrachiatus, longidactylus, n. s. Hall. proboscidiatus, Billings. rusticus, similis, tener, Dictyocrinus, Conrad.	treal?, Shum. Ottawa City (Can. W.). Montreal (Can. E.). Ottawa City (Can. W.). Montreal (Can. E.), Ottawa City. Quinté Bay, Lake Ontario. (Anticosti Isle) Charlton P ^t . Ottawa City (Can. W.) Montreal. Ottawa City (Can. W.).		
", ", ", ", ", ", ", ", ", ", ", ", ", "	angulatus, conjugans, conjugans, cylindricus, gregarius, humilis, Jewetti, latibrachiatus, longidactylus, n. s. Hall. proboscidiatus, similis, tener, Dictyocrinus, squamiferus, n. s. Hall. Dimerocrinus, Phillips	treal?, Shum. Ottawa City (Can. W.). "Montreal (Can. E.). Ottawa City (Can. W.). Montreal (Can. E.), Ottawa City. Quinté Bay, Lake Ontario. (Anticosti Isle) Charlton Pt. Ottawa City (Can. W.) Montreal. Ottawa City (Can. W.). "Montreal. Ottawa City (Can. W.). Anticosti, West end. 1841. New York.		
H. R. G. H. R. G. H. R. G. H. R. G. H. R. G., Delth. Shaly Lst.	angulatus, conjugans, conjugans, cylindricus, gregarius, humilis, Jewetti, latibrachiatus, longidactylus, n. s. Hall. proboscidiatus, Billings. rusticus, similis, tener, Dictyocrinus, squamiferus, n. s. Dimerocrinus, decadactylus, Phillips,	treal?, Shum. Ottawa City (Can. W.). "Montreal (Can. E.). Ottawa City (Can. W.). Montreal (Can. E.), Ottawa City. Quinté Bay, Lake Ontario. (Anticosti Isle) Charlton Pt. Ottawa City (Can. W.) Montreal. Ottawa City (Can. W.). "Montreal. Ottawa City (Can. W.). Anticosti, West end. 1841. New York.		(N. York) Schoharie Co.
", ", ", ", ", ", ", ", ", ", ", ", ", "	angulatus, conjugans, cylindricus, gregarius, humilis, Jewetti, latibrachiatus, longidactylus, n. s. Hall. proboscidiatus, similis, tener, Dictyocrinus, squamiferus, n. s. Dimerocrinus, decadactylus, lioosidactylus, phillips, lioosidactylus, lioosidacty	treal?, Shum. Ottawa City (Can. W.). Montreal (Can. E.). Ottawa City (Can. W.). Montreal (Can. E.), Ottawa City. Quinté Bay, Lake Ontario. (Anticosti Isle) Charlton P ^t . Ottawa City (Can. W.) Montreal. Ottawa City (Can. W.). Anticosti, West end. 1841. New York.		(N. York) Schoharie Co. Dudley (England).
", ", ", ", ", ", ", ", ", ", ", ", ", "	angulatus, conjugans, cylindricus, gregarius, humilis, Jewetti, latibrachiatus, longidactylus, n. s. Hall. proboscidiatus, similis, tener, Dictyocrinus, squamiferus, n. s. Dimerocrinus, decadactylus, licosidactylus, licos	treal?, Shum. Ottawa City (Can. W.). Montreal (Can. E.). Ottawa City (Can. W.). Montreal (Can. E.), Ottawa City. Quinté Bay, Lake Ontario. (Anticosti Isle) Charlton Pt. Ottawa City (Can. W.) Montreal. Ottawa City (Can. W.). Anticosti, West end. 1841. New York.		(N. York) Schoharie Co. Dudley (England).
H. R. G. Niag. Fr. H. R. G. H. R. G. Delth. Shaly Lst. W.	angulatus, conjugans, cylindricus, gregarius, humilis, Jewetti, latibrachiatus, longidactylus, n. s. Hall. proboscidiatus, similis, tener, Dictyocrinus, squamiferus, n. s. Dimerocrinus, decadactylus, licosidactylus, licos	treal?, Shum. Ottawa City (Can. W.). Montreal (Can. E.). Ottawa City (Can. W.). Montreal (Can. E.), Ottawa City. Quinté Bay, Lake Ontario. (Anticosti Isle) Charlton P ^t . Ottawa City (Can. W.) Montreal. Ottawa City (Can. W.). Anticosti, West end. 1841. New York.		(N. York) Schoharie Co. Dudley (England).
H. R. G. Niag. Tr. H. R. G. H. R. G. Delth. Shaly Lst. W. Corall., Dolom. Lst.	angulatus, conjugans, cylindricus, gregarius, humilis, Jewetti, latibrachiatus, longidactylus, n. s. Hall. proboscidiatus, similis, tener, Dictyocrinus, squamiferus, n. s. Dimerocrinus, decadactylus, icosidactylus, phillips, icosidactylus, Echinocrinus, Agassiz, striatus,	treal?, Shum. Ottawa City (Can. W.). Montreal (Can. E.). Ottawa City (Can. W.). Montreal (Can. E.), Ottawa City. Quinté Bay, Lake Ontario. (Anticosti Isle) Charlton Pt. Ottawa City (Can. W.) Montreal. Ottawa City (Can. W.). Anticosti, West end. 1841. New York. 1839.		(N. York) Schoharie Co. Dudley (England).
H. R. G. H. R. G. H. R. G. Delth. Shaly Lst. W. Corall., Dolom. Lst. H. R. G., Delth.	angulatus, conjugans, conjugans, cylindricus, gregarius, humilis, Jewetti, latibrachiatus, longidactylus, n. s. Hall. proboscidiatus, Billings. rusticus, similis, tener, Dictyocrinus, squamiferus, n. s. Dimerocrinus, decadactylus, licosidactylus, phillips, licosidactylus, Echinocrinus, striatus, Edriocrinus, Hall, 1859.	treal?, Shum. Ottawa City (Can. W.). Montreal (Can. E.). Ottawa City (Can. W.). Montreal (Can. E.), Ottawa City. Quinté Bay, Lake Ontario. (Anticosti Isle) Charlton Pt. Ottawa City (Can. W.) Montreal. Ottawa City (Can. W.). Anticosti, West end. 1841. New York. 1839.		(N. York) Schoharie Co. Dudley (England). "" Bogoslowsk, N. Ural?
H. R. G. Niag. Tr. H. R. G. H. R. G. Delth. Shaly Lst. W. Corall., Dolom. Lst. H. R. G., Delth. Shaly Lst.	angulatus, conjugans, cylindricus, gregarius, humilis, Jewetti, latibrachiatus, longidactylus, n. s. Hall. proboscidiatus, Billings. rusticus, similis, tener, Dictyocrinus, squamiferus, n. s. Dimerocrinus, decadactylus, licosidactylus, Echinocrinus, striatus, Edriocrinus, Hall, 1859. pocilliformis, n. s. Hall.	treal?, Shum. Ottawa City (Can. W.). Montreal (Can. E.). Ottawa City (Can. W.). Montreal (Can. E.), Ottawa City. Quinté Bay, Lake Ontario. (Anticosti Isle) Charlton Pt. Ottawa City (Can. W.) Montreal. Ottawa City (Can. W.). Anticosti, West end. 1841. New York. 1839.		(N. York) Schoharie Co. Dudley (England). "" Bogoslowsk, N. Ural?
H. R. G. Corall, Dolom. Lst. H. R. G., Delth. Shaly Lst.	angulatus, conjugans, cylindricus, gregarius, humilis, Jewetti, latibrachiatus, longidactylus, n. s. Hall. proboscidiatus, similis, tener, Dictyocrinus, squamiferus, n. s. Hall. Dimerocrinus, decadactylus, ticosidactylus, phillips, icosidactylus, techinocrinus, striatus, Edriocrinus, Hall, 1859. pocilliformis, n. s. Hall. Enallocrinus, D' Orbign	treal?, Shum. Ottawa City (Can. W.). Montreal (Can. E.). Ottawa City (Can. W.). Montreal (Can. E.), Ottawa City. Quinté Bay, Lake Ontario. (Anticosti Isle) Charlton Pt. Ottawa City (Can. W.) Montreal. Ottawa City (Can. W.). Anticosti, West end. 1841. New York. 1839. 1841.		(N. York) Schoharie Co. Dudley (England). "" Bogoslowsk, N. Ural? (N. York) Albany Co.
H. R. G. Niag. Tr. H. R. G. H. R. G. Delth. Shaly Lst. W. Corall., Dolom. Lst. H. R. G., Delth. Shaly Lst. W.	angulatus, conjugans, cylindricus, gregarius, humilis, Jewetti, latibrachiatus, longidactylus, n. s. Hall. proboscidiatus, similis, tener, Dictyocrinus, squamiferus, n. s. Hall. Dimerocrinus, decadactylus, ticosidactylus, phillips, icosidactylus, techinocrinus, decadactylus, phillips, icosidactylus, triatus, Edriocrinus, Hall, 1859. pocilliformis, n. s. Hall. Enallocrinus, D'Orbign punctatus, Hising.	treal?, Shum. Ottawa City (Can. W.). Montreal (Can. E.). Ottawa City (Can. W.). Montreal (Can. E.), Ottawa City. Quinté Bay, Lake Ontario. (Anticosti Isle) Charlton Pt. Ottawa City (Can. W.) Montreal. Ottawa City (Can. W.). Anticosti, West end. 1841. New York. 1839. 1841.		(N. York) Schoharie Co. Dudley (England). "" Bogoslowsk, N. Ural? (N. York) Albany Co. Dudley (England), Sweden.
H. R. G. Niag. Tr. H. R. G. H. R. G., Delth. Shaly Lst. W. Corall., Dolom. Lst. H. R. G., Delth. Shaly Lst. W.	angulatus, conjugans, cylindricus, gregarius, humilis, Jewetti, latibrachiatus, longidactylus, n. s. Hall. proboscidiatus, similis, tener, Dictyocrinus, squamiferus, n. s. Hall. Dimerocrinus, decadactylus, ticosidactylus, phillips, icosidactylus, techinocrinus, decadactylus, phillips, icosidactylus, triatus, Edriocrinus, Hall, 1859. pocilliformis, n. s. Hall. Enallocrinus, D'Orbign punctatus, Hising.	treal?, Shum. Ottawa City (Can. W.). Montreal (Can. E.). Ottawa City (Can. W.). Montreal (Can. E.), Ottawa City. Quinté Bay, Lake Ontario. (Anticosti Isle) Charlton Pt. Ottawa City (Can. W.) Montreal. Ottawa City (Can. W.). Anticosti, West end. 1841. New York. 1839.		(N. York) Schoharie Co. Dudley (England). "" Bogoslowsk, N. Ural? (N. York) Albany Co. Dudley (England), Sweden.

Subdivision.	Genera, Species, and Author.	Lower Stage.	Middle Stage.	Upper Stage.
Carad. &c Niag	basalis, M'Coy.	7=Sagenocrinus, Austin, 1 Wales, Shropsh., Horderley.	Wales.	(Indiana) Waldron, Chicag
H. R. G		(Can. W.) Humber R.,(Can. E.) Montreal, (Ohio) Cin- cinnati, Madison (Indiana),	New York, Pennsylvania.	(Illinois).
w	expansus, Phillips.	Kentucky.		England.
Tr	fimbriatus, Shumard. lacunosus, Billings.	Ottawa City (Can. W.).		Cape Girardeau (Missouri
Niag.	nobilis. Hall.	,, ,,		Racine (Wisconsin)
Fr	ornatus, Billings.	Ottawa City (Can. W.).	(N. Vork) Medina Ca-	
			nada West.	
	quinque-partitus, "	Mid-Ottawa (Can. W.). Ottawa River (Can. W.).		will red
B., BL Niag		(Can.W.) Ottawa R. (lower).		N. York.
,,	sp. ind. Winchell & Marcy.			Chicago (Illinois, U.S.A.
ÜLlandov	,, Hall. Salter.			(N. York) Reynale's Basin
W	,,		(and) smile more.	(Wales) Mwdwl Eithin, Pl
Comell Tet	Grammocrinus, Eichw.,	1859.		Madoe &c.
Corall. Lst Orthoc. Lst	lineatus, ,,	Poulkova (Russia).	***************************************	isie Oesei (Baitic).
,,	Haplocrinus, Steininger, annularis, Eichw. monilis	1834; Ræmer, 1863. Poulkova (Russia).		The state of the s
	monilis, Heliocrinites, Eichw., 1			
19 19	Balticus, Eichw.	Réval (Baltic).		
	echino-sphærites.		A Control and	
Inflamm. Shale.	radiatus. Eichw.	Réval (Balt.), D'Erras (Es- thonia).		Pibotyo Smuran diff
Tr	Heterocrinus, Hall, 18 articulosus, Billings.	47. (Can. W.) Ottawa River.		and the same of
H R G	articulosus, Billings. Canadensis, ,, crassus, Meek & Worthen.	(Canada) Mid-Ottawa River.		The state of the s
,,	gracilis, Hall.	(N. York) Lake Saratoga. (N. York) Lewis Co. &c.,	in the last of the last	minus C
,,	heterodactylus, "	(Ohio) Cincinnati, Upper Mississippi, Rockingham.		
	inæqualis, Billings.	(Canada) Ottawa River.		
	? incurvus, Meek&Worthen. simplex, Hall.	(Canada) Montreal, N.York,		
,,	subcrassus, Meek&Worthen.			
I'r. H. R. G		(Canada) Ottawa River. Pennsylvania.		
Carad	Salter.	Montgomeryshire, Meifod. (a most simple form; 5 ar	ms JWS)	Indiana de la companya della companya della companya de la companya de la companya della company
Гг	alternatus, Hall.	(N. York) Herkimer and Lewis Counties.	110, 0.11.0.	
Niag., Tentacu- lite Lst.	cylindricus, n. s. "	Lewis Counties.		(N. York) Lockport &c.
	depentas, D. de Leuchtenb.	Poulkova (Russia), D'Erras (Esthonia).		STATE OF STA
L.Held. G Niag.		(assionia).		Cape Girardeau (Missouri N. York, Lockport.
H. R. G	polydactylus, Christie.	Richmond (Indiana).		The state of the s
Pentaculite Lst	sp. ind. Swallow.	Missouri.		Schoharie and HerkimerCo (N. York).
Fr	Hybocrinus, Billings, 1 conicus, Billings.	857. (Can. W.) Ottawa River.		
AL WAR	pristinus	(Can. E.) Montreal Isle.	Control of the second	man to the same
	Hypanthocrinus, Phill	(Can. W.) Ottawa River.	s, Goldfuss, 1826.	Jel (etc.)
Racine Lst	armosus, n. s. cælatus, Hall.	Racine (Wisconsin).		(N. York) Lockport, Was
				kesha (Wisconsin). Chicago (Illinois).

Subdivision.	Genera, Species, and Author.	d	Lower Stage.	Middle Stage.	Upper Stage.
Niag	cornutus. F	Iall			Waukesha, Racine (Wis
					consin).
,,	crassus,	,,			Waldron, Racine (Wis
CL., Niag., UL	docorne D	0.311		minute Alas de la	consin). Dudley, England, Norway
CL.,Niag.,CL	decorus, r.	mii			N. Gothl., Can. W., (N.Y
					Lockport, Rochester &c.
				the party of the same	Decatur County (Ten
Niag	ortenene Too	anet			nessee).
Niag	71.1				
	Goldfussi,	,,			,, ,,
W					
Niag	Nashvillæ,				Decatur Co. (Tennessee).
				***************************************	Racine (Wisconsin).
Niag., Waterlin		,,			New York, Wisconsin, Chi
Group.					cago (Illinois), Gothland.
Niag					Decatur Co. (Tennessee).
**					Decatur Co. (Tennessee).
W	polydactylus, M'C	Coy			Dudley (Engl.), Norway.
Niag				•••••••••••••••••••••••••••••••••••••••	(Tennessee W.) Decatur Co England, Scotland?, Norway
w,	rosaceus, GC	oldi		••••••	Sweden.
Niag	splendidus, Tro	oost			
,,	Tennesseeæ, ,	,,			,, ,,
CL	2 Clintopensis	rad, 1	842 (a very compact Crin	(N. Vork) Wayne Co	es, J.W.S.).
			· · · · · · · · · · · · · · · · · · ·		Chicago (Illinois).
,,	lævis, Con	rad	·····		(N. York) Lockport, South
					Wisconsin, N.A.
W., UL	pyriformis, Phil	lips			Dudley, Kendal, Under barrow (Westmoreland)
					New York.
Niag	subangularis, H	Iall			Waldron (Indiana), Chicago
	= corbis.		1000		(Illinois).
	Lampterocrinus, Reinflatus.		1860.		Racine (Wisconsin).
					(Tennessee W.) Decatur Co
	Lecanocrinus, Hall,	185 2.			
Niag.,Corall.Lst.,	caliculus, I	Iall			(N. York) Lockport Shale.
Schoh. Tr	elegans Billi	ings (C	Canada W.) Ottawa River.		
	lævis, "	(0	Canada W.) Ottawa City.	term for all the	
Niag., Corall. Lst.,	macropetalus, H	Iall			"
Schoh.	ownatus				
Niag. " Niag.	pusillus, Winchell&Ma	arcy.	· · · · · · · · · · · · · · · · · · ·		Chicago (Illinois).
Niag Schoh.Lst.	simplex, I	Hall			(N. York) Lockport.
	Lepocrinus, Conrad,	1840	(or Lepadocrinus).		
	Gebhardii, Vanus Conra				(N. York E.) Cherry Valle &c., Cumberland (Mary
	Conra				land).
	Lyriocrinus, Hall, 1	1852 (Marsupiocrinites, Hall, 1	843, non Phill., 1839.	
docrinus.	daetylus	Hall			(N Vonk) Lashment Cuir L
Niag	dactyrus, I	Tall.	•••••••		(N.York) Lockport, Grimsb (Can. W.).
	sculptilis,				(Wisconsin) Waukesha.
	Macrostylocrinus,	Hall.	1852.	CONTRACTOR OF STREET	
,,					
			near to Periechocrinus,		
UPentam. Lst	macropetalus, I				Schoharie County &c. (N
Donton	a a Lillianian and				York).
Pentam. " Pentam. "	pachydactylus,				Herkimer Co. (N. York). Schoharie Co. &c. (N. York)
L. H. G.	party ducty rue,				Continue Co. de. (IV. TOPK)
"	paucidactylus,	."			(N. York) Herkimer Co.
W. ""			ISS		
Pentam. Lst. Sh., L. H. G.	pramosus, 1	itali			Herkimer Co. (N. York) England, Sweden?.
L. H. G		,,			
					Schoharie Co. (N. York).
Delth. Sh. L					
			•••••••••••		Shalkar, Spiti, Himalaya (E.I.).

Subdivision.	Genera, Species Author.	s, and	Lower Stage.	Middle Stage.	Upper Stage.
w	Marsupiccrinu	s, Philli	ps (allied to Hypanthocrin	us, J.W.S.)	Dudley (Engl.) Tennessee
	Megictocrinuc	Onnen A	Shumard		Now Vanle
Niag	infelix. Wind	h& Mar.			Chicago (Illinois)
	Marcouanus				Cincago (Tinnois).
	necis.	"			" "
,,	Melocrinites.	Goldfuss.	1826 (Melocrinus).		" "
Pleta, Corall. Lst.,		Goldf	Nyby (Esthonia)	Kirns and Kattentak (Fe.	Isla Ossal Fight (Poltic
Pentam. Lst.	100,120				
Corall. Lst	lamallogue	Fichw		thomas).	(Podolia) Orynine.
Ning	obeonicus,	Hall			Waldran (Indiana)
	sculptus,	Han.		***************************************	(N. Vh) T. h
	Verneuili,	"			(N. 10rk) Lockport.
,,	Myelodactylus	Hall 1	859		Decatur Co. (Tennessee).
	heachiatus n e	Hall			(N Voult) Looknowt
	convolutus, n. s.	Train.			(IV. TOPK) LOCKPOPT.
		"			
,,	Nucleocrinus,	Hall 186	2 · Convad 1843		" "
Tr	sp. ind.	Hall	New York		
A.E	Pachyocrinus,	Rillings	1859		
CH	massi-basalia	Billings,	(Canada E.) Montreal.		A THE LAND BY
VII	Palæocrinus, B	illings.	850		
Tw	angulatus, B	Billings, 1	Montreal (Canada E.).		
A.L	nulchellus	Dinings.	Ottowa City (Canada W.)		
,,	pulchellus,	37	Ottawa City (Canada W.).		
,,	rhombiferus, striatus,	**	Montreal (Canada E.).		
,,	Pontromitos	Zaw "1890	=Pentrematites, Ramer, 1	860	
Niag	Reinwardtii	Troopt	= FENTREMATITES, Ramer, 1	000.	(Tonness) Doneton Co (T
Niag	Keinwardtii,	Troost.			(Tenness.) Decatur Co.,(Ken
	Doriochooring	Audin	1949 (the laws our liberal	wis and long make like at	tucky) Louisville.
	refrechocimus	, Austin,	1843 (the large cup-like pel	vis, and long snake-like st	
					the slabs of Dudley Lime
W	antiquilanus	Ametin			stone, J.W.S.).
W Llandov., W., W.	moniliformia	Millen	(Upper part of Lower Silu-	Llandonous (W.)	Dudley (England).
Liandov., W., W.	monimormis,	Miller.			
			rian), (Engl.) Gt. Barr, Staffordshire.		Hoburg &c.
Llandov	an ind		Stanordsnire.		
UI landor	sp. ma.	Calton	***************************************	Tostworth Clausestank	
ULiandov	Phialocrinus, I	Santer.	1950	Tortworth, Gloucestersh.	
Pleta	Finalocrinus, I	Wielen	Poulkore (Pussia)		
Pieta	Pisocrinus, Kon				
Ning	Anna Divani	Troopt	00.		Decetur Co (Tonnesso)
W	ownotne	Koninek		***************************************	Dudley (Fugland)
Woolh., W		Kommek.			Dudley (Isigiand).
Woomi, W		iller 189	1=Actinocrinus.		" "
Corell Let	inenlarie	Eichw	I — ACHAOGRISUS.		Isle Oesel (Boltie) Upon
Pentam. Lst.	parvus,	Hall.			Herkimer Co. (N. Vork)
L. H. G.	Par rus,	Lian.			Terminer Co. (14. Tork).
L. H. G., Pentam.	nlumosus				Herkimer Co. (Tennessee).
Lst. (Shale).	Prumosus,	"			Terminer Co. (Tennessee).
	ramulosus,				A STATE OF THE STA
w. ""	retiarine	Philline			(England) Dudley."
Pleta.		Eichw.	D'Erras (Esthonia)		(Isle Oesel) Taggamois
	Tennessee-ensis,		D Erras (Estilolita)		
T. 116.	z cillicocc-ciloloj	Accinct.			County.
Delth. Sh. Lst	tentaculatus	Hall			Schoharie Co. (E. New York
Ludlow		The second second second			Shropshire (England).
	" Meek & V				Transe (Implanta).
	CUPELLECRINUS (ubgenus	of Platycrinus), Troost, 1850;	Platucrinus, Romer 1860	A HOLD AND AND AND AND AND AND AND AND AND AN
Niag		Troost	012 targer that 5, 2100st, 1000 ;	January 2000	Decatur Co. (Tennessee)
	corrugatus,	,,			
99 *********					" "
		"			
,,	The state of the s				22
,,	lævis,	"			
" ········	lævis, magnificus,	,,			44
,,, ,,,	lævis, magnificus, pentagonalis,	"			
,, ,,	lævis, magnificus, pentagonalis, rosæformis,	,,			11
" ············· " ············ " ·······	lævis, magnificus, pentagonalis, rosæformis, stellatus,	"			" "
,, ,,	lævis, magnificus, pentagonalis, rosæformis, stellatus, striatus,	"			11 11 21 12
" ············ " ··········· " ········	lævis, magnificus, pentagonalis, rosæformis, stellatus, striatus, Poteriocrinus,	", ", ", Miller, 1	821.		" "
"	lævis, magnificus, pentagonalis, rosæformis, stellatus, striatus, Poteriocrinus, alternatus, n. s.	", ", ", Miller, 1 Hall.	821. (N. York) Herkimer Co. &c.		" "
" ··········· " ········· " ········· " ······	lævis, magnificus, pentagonalis, rosæformis, stellatus, striatus, Poteriocrinus, alternatus, n. s. biblex,	Miller, 1 Hall. Eichw.	821. (N. York) Herkimer Co. &c. Poulkova (Russia).		" " " " " "
"	lavis, magnificus, pentagonalis, roseformis, stellatus, striatus, Poteriocrinus, alternatus, n. s. biblex, crassiformis.	Miller, 1 Hall. Eichw.	821. (N. York) Herkimer Co. &c. Poulkova (Russia).		" " " " " "
"	lavis, magnificus, pentagonalis, roseformis, stellatus, striatus, Poteriocrinus, alternatus, n. s. biblex, crassiformis. Dudleyensis,	Miller, 1 Hall. Eichw.	821. (N. York) Herkimer Co. &c. Poulkova (Russia).		" " " " " "
"	lavis, magnificus, pentagonalis, rosæformis, stellatus, striatus, Poteriocrinus, alternatus, n. s. biblex, crassiformis. Dudleyensis, Cyathocrinus.	Miller, 1 Hall. Eichw. Eichw. Austin.	821. (N. York) Herkimer Co. &c. Poulkova (Russia).		" " " " " "
"	lavis, magnificus, pentagonalis, rosæformis, stellatus, striatus, Poteriocrinus, alternatus, n. s. biblex, crassiformis. Dudleyensis, Cyathocrinus. gracilis,	Miller, 1 Hall. Eichw. Austin. Hall.	821. (N. York) Herkimer Co. &c. Poulkova (Russia).		Dudley (England).

Subdivision.	Genera, Species, and Author.	Lower Stage.	Middle Stage.	Upper Stage.
	Porocrinus, Billings, 18	7.		
H. R. G	crassus, Meek & Worthen	Kendall Co., Illinois.		
Fr		(Can. W.) Ottawa River,		
		Montreal, near Quebec.		
	pentagonus, Meek&Worth	Dixon (Illinois).		0
	Protocrinus, Eichw., 185			
Pleta	foveolatus, Eichw	Poulkova (Russia).	The state of the s	
,,	fragum, ,,	Czarskoe-selo (Russia).		
,,	Leuchtenbergii, Volborth	Popowa, Poulkova (Russia).	The state of the s	
		Spitham (Esthonia), Narva		
,,		(Russia).	7.7	
	Pterocrinus, Billings?	,	The state of the s	
	Retiocrinus, Billings, 18	59.		
H. R. G	fimbriatus Billings	(Anticosti Island) Charleton	The latest the same of the sam	
LL AV. O. III	amorana, zamago	Point.		
Fr	stellaris	(Can. W.) Ottawa River.		
	Rhodocrinus Miller 18	21 (THYSANOCRINUS). (It is	rather doubtful whether	these be Rhodocrini J.W.S.
OH	asperatus Rillings	(Can, E.) Montreal.	The transfer winding	The second secon
L. H. G	Halli Lron	(Can, E.) Montreal.		Jefferson Co (Kentneky)
Niag.	Moliega Lyon			Waldron (Indiana)
	micropheedie Dillings	Middle Ottawa (Can. W.).		maturon (muiana).
Tr	presiformic Dillings	Ottown City (Car. W.).		
B., CH		Ottawa City (Can. W.).		
		England (or Wales).		
		St. Petersburg(Russ.), Estho.		
		Vitré &c. (France).		
	Saccocrinus, Hall, 1852			OT T 1) T 1 4 61 1
N1ag	speciosus, Hall			
	Sagenocrinus, Austin,	843.		(Tennessee) Decatur Co.
W	giganteus, Austin	010.		Dudley (England).
	Schizocrinus, Hall, 18-	7.		
Tr	nodosus, Hall	(N.York) Mohawk Valley &c.,		of the second se
		Wisconsin, River Escanaba,		
and the second second		Mid-Ottawa, Canada W.		Mark Control
(Shales) Tr		(N. York) Middleville.		
	sp. ind. ,,	(N. York) Lewis Co.		
	Scyphocrinus, Hall, 18	47 (non Scyphocrinus, Ze	nker).	
Tr	heterocostalis, Hall	(N. York) Herkimer Co.		
	elegans, Zenker		Sweden.	
?	sp. ind. Meneghini	Sardinia.		
	Sphenocrinus, Eichwa	ld, 1859.		
Orthoc. Lst. with	obtusus, Eichw	Poulkova (Russia), Odins-		
green grains.		holm Isle (Baltic).		
	Stephanocrinus, Hall	, 1852; Conrad, 1842.		
Niag	angulatus, Conrad			(N.York) Lockport, Grimsb
			The state of the s	(Can. W.), and Thorold.
Niag., Corall. L.,	gemmiformis, Hall			(N. York) Lockport.
Schoharie.				
	Synbathocrinus, Phill			
Niag	Tennessee-ensis, Romer			(Tennessee W.) Decatur Co
	Syringocrinus, Billings	, 1859.		
Tr	paradoxicus, Billings	Beauport, Quebec (Can. E.).		
	Taxocrinus, Phillips	. 1843.		
UL	Orbignyi, M'Cov			Kendall, Highthorns, Under
				barrow (Westmoreland).
W	simplex, Phillips			Dudley, Gothland.
,,	tesseracontadactylus. His			
	tuberculatus, Miller			Dudley, New York.
11				
"	= Cyathocrinus.	The state of the s		
,,	= Cyathocrinus. Tetrameocrinus. Aust	in. 1843.		
,,,	Tetrameocrinus, Aust		Supplied to the supplied to th	Dudley (England)
w	Tetrameocrinus, Austin			Dudley (England).
W. Subgenus of Rho-	Tetrameocrinus, Aust			Dudley (England).
WSubgenus of Rho- docrinus.	Tetrameocrinus, Austin formosus, Austin Thysanocrinus, Hall,	852.		
W. Subgenus of Rhodocrinus.	Tetrameocrinus, Austin formosus, Austin Thysanocrinus, Hall, aculeatus, Hall	852.		(N. York) Lockport.
W. Subgenus of Rhodocrinus. Niag.	Tetrameocrinus, Austin formosus, Austin Thysanocrinus, Hall, aculeatus, Hall, caniculatus, "	852.		(N. York) Lockport.
W. Subgenus of Rhodocrinus. Niag.	Tetrameocrinus, Austin formosus, Austin Thysanocrinus, Hall, aculeatus, Hall caniculatus, immaturus, "	852.		(N. York) Lockport.
W. Subgenus of Rhodocrinus. Niag. " Niag.	Tetrameocrinus, Austin formosus, Austin Thysanocrinus, Hall, aculeatus, Hall caniculatus, immaturus, lilliiformis, Hall	852.		(N. York) Lockport.
W. Subgenus of Rhodocrinus. Niag. Niag. Tr.	Tetrameocrinus, Austin formosus, Austin Thysanocrinus, Hall, aculeatus, Eaniculatus, Immaturus, Ililliiformis, Hall, microbasalis, Billings	852. Ottawa City (Can. W.).		(N. York) Lockport.
W. Subgenus of Rhodocrinus. Niag. Niag. Tr.	Tetrameocrinus, Austin formosus, Austin Thysanocrinus, Hall, aculeatus, caniculatus, immaturus, lilliiformis, Hall microbasalis, Billings pyriformis, Billings Billings	Ottawa City (Can. W.). Ottawa River (Can. W.).		(N. York) Lockport.
W. Subgenus of Rhodocrinus. Niag. Niag. Tr.	Tetrameocrinus, Austin formosus, Austin Thysanocrinus, Hall, aculeatus, immaturus, lilliiformis, Hall microbasalis, Billings pyriformis, Billings Trochocrinus, Portlock	Ottawa City (Can. W.). Ottawa River (Can. W.). , 1843 (probably only Grever	ocrinus, J.W.S.)	(N. York) Lockport.
W. Subgenus of Rhodocrinus. Niag. Niag. Tr.	Tetrameocrinus, Austin formosus, Austin Thysanocrinus, Hall, aculeatus, immaturus, lilliiformis, Hall microbasalis, pyriformis, Billings Trochocrinus, Portlock Gothlandi, Pander	Ottawa City (Can. W.). Ottawa River (Can. W.).	ocrinus, J.W.S.)	(N. York) Lockport.

Summary.—(Geographical.)

Genera		S	Species.				Spec	cies.	
Aspidocrinus	Genera.	America.	Europe. Australia.	Common.	Genera.	America.	Europe.	Australia.	Common.
Crotalocrinus 1 1 Pentremites 1	Aspidocrinus Asterocrinus Balanocrinus Balanocrinus Blastoidocrinus Caltiocrinus Caltiocrinus Calyx Carabocrinus Caryocrinus Cheirocrinus Cleicocrinus Closterocrinus Coccocrinus Coccocrinus Coccocrinus Coctocrinus Coccocrinus Coccocrinus Coctocrinus Coccocrinus Coccocrinus Coctocrinus Coccocrinus Coctocrinus Coccocrinus Coctocrinus Coctocrinus	3	2 2 1 1 6 1 1 1		Hybocrinus Hypanthocrinus Ichthyocrinus Lampterocrinus Lecanocrinus Lepocrinus Lyriocrinus Macrostylocrinus Mariacrinus Marsupiocrinus Megistocrinus Melocrinites Myelodactylus Nucleocrinus Pachyocrinus	3 19 3 2 7 1 2 2 7 1 3 3 3 1 1	5 1 3 1 2		1 1 2 1
Edriocrinus	Crotalocrinus Cryptocrinus Ctenocrinus Cyathocrinus Cystocrinus Cystocrinus Cytocrinus Cytocrinus Cupellæcrinus Cupellæcrinus Dendrocrinus Dictyocrinus Dimerocrinus Echinocrinus Edriocrinus Edriocrinus Edriocrinus Enallocrinus Eugeniacrinus Glyptocrinus Grammocrinus Haplocrinus Heliocrinites Heterocrinus	1	1 2 1 1 2 1 2 1 2 2 1 2 2 1 2 1 2 1 2 1 2 1 2 1 1 1 2 1		Pentremites Periechocrinus Phialocrinus Phialocrinus Pisocrinus Platycrinus Porocrinus Poteriocrinus Poteriocrinus Reteocrinus Reteocrinus Rateocrinus Sagenocrinus Sagenocrinus Schizocrinus Schizocrinus Schizocrinus Sphenocrinus Sphenocrinus Synbathocrinus Syringocrinus Taxocrinus Tetramerocrinus Thysanocrinus	1 6 3 3 3 2 5 1 3 1 2 1 1 1 6 6	3 1 2 4 3 4 3 1 2 1 4 1 1 2		

SUBKINGDOM ANNULOSA. PROVINCE ANNULOIDA. CLASS ECHINODERMATA. ORDER CYSTIDEA.

Subdivision.	Genera, Species, and Author.	Lower Stage.	Middle Stage.	Upper Stage.
Tr	radiatus, "," tenuistriatus, "," Anomalocystites, Hall,	Ottawa City (Can. W.).		(N. York) Herkimer Co.
L. H. G. Niag.	Apiocystites, Forbes, 18 Canadensis, Billings.	48.		(Central Can.) Grimsby.
L."H. G	Gebhardi, Dana			(N. York) Lockport only. (N. York) Ulster & Schoh. C
CL., Niag Niag.	imago, Hall			(Wisconsin) Racine. Dudley (England).
	scriptus, Hising			New York, Gothland. (Can. W.) L. Huron, Mar
	Tecumseth, Billings sp. ind. Romer			touline Isle, South Bay. (Tennessee W.) Decatur C

Subdivision.	Genera, Species, and Author.	Lower Stage.	Middle Stage.	Upper Stage.
	Ateleocystites, Billing	s. 1858.		
Tr			and the state of t	The second second
W	sp. ind. Salte	s. (Can. W.) Mid-Ottawa R. r. ll, 1852.		England.
***	Callocystites, Ha	u, 1852.	The Control of the Land of the Land	(N. W. 1) T. 1. (6)
Niag	Jewettii, n. s. Hai	1		W.) Grimsby.
2 300000	,, var. ,,			N. York.
The American	Caryocystites, Von B	cuch, 1845 (a subgenus of E	CHINOSPHERITES, J.W.S.).	
Niag.	eylindricus, Hal	1.		Wisconsin, Chicago (Illin.
Carad	Davisii, M'Co	y. Yspatty Evan (Wales), Co	Man description and the	A STATE OF THE STA
	granatum, Wah	niston (Lancashire). Dalecararlia (Sweden)		A 100 March 1980
,,	= granatum, Forbe	s.		
Orthoc. Lst		v. Poulkova (Russia).		
	testudinarius, Duroche	r. Sweden, Norway.		
T-	Comarocystites, Billing punctatus, Billing	g s, 1854.	THE RESIDENCE OF THE PARTY OF T	2
	Shumardi, Meek & Worth	n. Cape Girardeau (Missouri).		
	var. obconicus,			
	Crinocystites, Hall, 1	8 64.		,
Niag	chrysalis, Hal	l. Racine, Wisconsin.	The second second	production of the same of the
?	cryptocrinites, Von	Ruch 1845 "		
Pleta	lavis, Pander	Russia) St. Petersburg, &c.		
	var. cerasus, Von Buch	(Russia) Poulkova, Narowa.		
	var. regularis, "	Russia.		
	Cyclocystoides, Billin	g s & Salter, 1858 (a most an	omalous genus; its relati	ons not yet clear, J.W.S.).
ULlandov	Davisii, Salter	g s g Satter, 1858 (a most an 	(Wales) Radnorshire.	
Tr	Hain, Billings	St. John		
HRG	Huronensis, ,,	Lake Huron (N.A.).		
Carad.	sp. ind. Salter	Horderley (Shropshire).		
,,	Marstoni, Salter	N. Wales.		
	Echinocystites, Wy	Thompson, 1861.	Mr. I. Ch. I. IV	
Llandov	Phillipsii, Forbes		Malvern (England).	Leintwardine.
	uva.			Domewardine.
	Echino-encrinus, Von	Meyer, 1826 = Sycocystites,	Von Buch; GONOCRINUS, E	ichwald; ECHINOSPHÆRITES.
Гг., Н. R. G	anatiformis, n. s. Hall	(Can.E.) Montreal, (N.York)		Pander.
		Lewis Co., Upper Missis- sippi River.	A STATE OF THE STA	
Pleta	angulosus Pander	Poulkova, Popova &c., St.	Commence of the Commence of th	de la companya de la
. 1000	anguisone, z ander	Petersburg.		
W	arenatus, Forbes			(Engl.) Walsall, Malvern.
	baccatus, ,,	T		(Engl.) Dudley.
		Russia, Tennessee? (Troost).	and the second	
	giganteus, ,, intermedius, Eichw	(Russia) Ontolowo nearPau-		
		lowsk.		
**	Senkenbergii, ,,	(Russia) St. Petersburg.		
		(Russia) Poulkova, Popova.		
	sp. ind. Hall	N. York. lenberg, 1821 = Sphæronites	Wising 1997 (Sunface	covered all over with war
		(S. Wales) Pembrokeshire.	, minny. 1001. (Surface	covered all over with pore- channels, J.W.S.)
		(Esthon.) Réval, D'Erras.		
Carad., Orthoc.	aurantium, Wahlenb.	(S. Wales) Pembrokeshire,		
Lst.	Gyllenhall		THE STREET STREET	STORES WILLIAM
Carad., Pleta	Balticus, Vern.	Poulkova &c. (Russia). Ireland, (N. Wales) Llan-		
	= granatus, Wahlenb.		- 11	
	J' Trumento.	Řéval &c., Paulowsk (Rus-		Transfer of the second
		sia).		
		Sweden.		The second second
Carad.?	Manage Broken	Réval (Baltic).		
Pleta		Carrickacia con (Indiand)		
Pleta	granulatus, M'Coy.	Carrickadaggan (Ireland). (Spain)Romeral, Almadenos.		
Pleta	granulatus, M'Coy. Murchisoni, Verneuil.	Carrickadaggan (Ireland). (Spain)Romeral,Almadenos. Poulkova, Tosna (St. Peters-	4	CHAIR .
Pleta	granulatus, M'Coy. Murchisoni, Verneuil.	(Spain)Romeral, Almadenos. Poulkova, Tosna (St. Peters- burg), (Swed.) Isle Œland,		Column House
Pleta Carad. Pleta. 1	granulatus, M'Coy. Murchisoni, Verneuil. Gyllenhall.	(Spain)Romeral,Almadenos. Poulkova, Tosna (St. Peters- burg),(Swed.) Isle Œland, Réval, (Esthonia).		
Pleta Carad Pleta Pleta Pleta Parad Pleta Pleta Pleta Parad Pleta	granulatus, M'Coy. Murchisoni, Verneuil. Gyllenhall. punctatus, Forbes.	(Spain)Romeral,Almadenos. Poulkova, Tosna (St. Peters- burg),(Swed.) Isle Œland, Réval, (Esthonia). N. & S. Wales.		
Pleta Carad Pleta	granulatus, M'Coy. Murchisoni, Verneuil. Gyllenhall. punctatus, Forbes. adiatus, Gyllenhall.	(Spain)Romeral,Almadenos. Poulkova, Tosna (St. Peters- burg),(Swed.) Isle Œland, Réval, (Esthonia). N. & S. Wales.		
Pleta Carad Pleta	granulatus, Murchisoni, pomum, punctatus, radiatus, Wahlenbergii, Wahlenbergii, M'Coy. Verneuil. Gyllenhall. Forbes. Gyllenhall. Esmark.	(Spain)Romeral,Almadenos. Poulkova, Tosna (St. Peters- burg),(Swed.) Isle Œland, Réval, (Esthonia). N. & S. Wales. ? Norway.	sys, but with many rhomb	s, J.W.S.)
Pleta Carad Pleta	murchisoni, pomum, Wcoy. punctatus, adiatus, Wahlenbergii, Esmark. Glyptocystites, Billing	(Spain)Romeral, Almadenos. Poulkova, Tosna (St. Petersburg), (Swed.) Isle Œland, Réval, (Esthonia). N. & S. Wales. ? Norway. s, 1854 (allied to Echinocristal Montreal (Can. E.).	sus, but with many rhom b	s, J.W.S.)
Pleta Carad Pleta Carad Carad Carad Carad Carad Carad Carad Carad Carad Cara Cara	granulatus, Murchisoni, pomum, punctatus, radiatus, Wahlenbergii, Glyptocystites, Forbesi, Esmark. Glyptocystites, Billings. Logani, M'Coy. Verneuil. Gyllenhall. Gyllenhall. Esmark. Billings.	(Spain)Romeral, Almadenos. Poulkova, Tosna (St. Petersburg), (Swed.) Isle Œland, Réval, (Esthonia). N. & S. Wales. ? Norway. s, 1854 (allied to Есніноскі	sus, but with many rhom b	s, J.W.S.)

Subdivision.	Genera, Species, a	and	Lower Stage.	Middle Stage.	Upper Stage.
Comed	en ind	Salton	Denbighsh., Cerrig-y-Druida.		
Carad					
Tr	multiporus, Di	mings.	Montreal, Beauport (Can.E.),		
	G1	. 16:1	Ottawa City (Can. W.).		
DI . T	Glyptosphærites				
Pleta L			(Russia) Poulkova, Sweden.	The state of the s	
	Gomphocystites,	, Hall,	1864.		
Niag	The second secon				Racine, Wisconsin.
,,	glans,	"			" "
,,	tenax,	. "			Lockport (N. York).
	Hemicosmites,	on Bu	ch, 1840. (The pore-chann	els only show at their end	s as rows of pores, the cana
Pleta			Spitham (Esthonia).	themselves being cover	ed by a shelly plate, J.W.S
Carad	oblongus, P	ander.	Sholes Hook (W. Pembroke-	Property of the Assessment of	
			shire).	The Park and All Street	Street Street
Pleta	porosus,	Eichw.	Czarskoe-selo (Russ.), Hap-	THE CANADA CONTRACTOR	See House I was a land to
		_ :	sal (Esthonia).	The state of the s	
Carad	pyriformis, Von	Buch.	Rhiwlas, Bala (N.W.), Sholes		Triangle Control
			Hook (Pembrokeshire),	· ·	The state of the s
			(Russia) St. Petersburg.	STREET, STREET	
,,	squamosus, I	Forbes.	Bala (N. W.), Montgomery-	No.	the second second
			shire, Llanfyllin.	AND THE RESERVE	
Niag	subglobosus,	Hall.			Racine (Wisconsin).
Pleta			Presquisle Nouk (Esthonia).		
			North Shore, Lake Superior		told ma
			(N. America), (drift),		
	Hemicystites, Ha	all, 185	2. (Probably a sessile Star	fish of the same genus as	AGELACRINUS; but the who
					base seems attached,
		1		start is true to a manifest	J.W.S
Fr., Niag., Cor.L.	parasitica,	Hall.	N. York?		(N. York) Lockport.
of Schoh.					
	Heterocystites,	Hall, 1	852.		The second section is
Niag					
	Holocystites, Ha	all, 186	1.		
,,	abnormis,	Hall.			Racine (Wisconsin).
	alternatus,	,,			
	cylindricus,	,,			Racine and Waukesha (Wis.
,,					Waukesha (Wisconsin).
**	scutellatus,				
					Chicago (Illinois).
	Winchelli,				
,,		Conrad.	1840 (LEPOCRINUS). (A C	vstid. J.W.S.)	(1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1
Pentam. Lst.,	Gebhardi, C	Conrad.	1010 (201000000) (2010	, , , , , , , , , , , , , , , , , , , ,	Schoharie Co. &c. (N. York
L. H. G.					Cumberland (Maryland)
20. 22. 0.	Malocystites Bill	linas. 1	858.		Canal (annual)
CH			Montreal Island (Can. E.).		No. of the last of
	Murchisoni,				The state of the s
.,	Palæocystites, B	illinas.	1858.		The state of the s
CH	Chapmanni, B	illings.	Clarence (Can. W.).	37	
			Montreal (Can. E.).	(A. 120) A. (A. 1)	
,,			Canada.		
	tenui-radiatus,		Montreal(Can.E.), N.E. New		CONTROL OF THE PARTY OF THE PAR
,,	ecitar-radiately	ALGIT.	York.		The state of the s
	Pleurocustitos P	lillings	1854. (A prone species, th	e lower surface minutaly	plated, the upper large
			Isle Anticosti (G. St. Lawr.),		plated, J.W.S.)
HRG		go.			Panen, or it ior)
H. R. G	Zinereoerienezo, 2		Charleton Point		
	A CONTRACTOR OF THE	3	Charleton Point. Ottowa City (Can W.) Mon-		A CONTRACTOR OF THE PARTY OF TH
H. R. G Tr	A CONTRACTOR OF THE	,,	Ottawa City (Can.W.), Mon-		
Tr	elegans,		Ottawa City (Can.W.), Mon- treal (Can. E.).		
	elegans,		Ottawa City (Can.W.), Mon- treal (Can. E.). Ottawa City (Can.W.), Mon-		
Tr	elegans, exornatus,	,,	Ottawa City (Can.W.), Mon- treal (Can. E.).		
Tr	elegans, exornatus, filitextus,	,,	Ottawa City (Can.W.), Mon- treal (Can. E.). Ottawa City (Can.W.), Mon- treal.		
Tr	elegans, exornatus, filitextus, robustus,	"	Ottawa City (Can.W.), Mon- treal (Can. E.). Ottawa City (Can.W.), Mon- treal. Ottawa City (Can. W.).		
Tr	elegans, exornatus, filitextus, robustus, Rugeri,	,,	Ottawa City (Can.W.), Mon- treal (Can. E.). Ottawa City (Can.W.), Mon- treal.		
Гг	elegans, exornatus, filitextus, robustus, Rugeri, Glyptocystites.	,, ,, Salter.	Ottawa City (Can.W.), Mon- treal (Can. E.). Ottawa City (Can.W.), Mon- treal. Ottawa City (Can. W.).		
Carad.	elegans, exornatus, filitextus, robustus, Rugeri, Glyptocystites. sp. ind.	,, ,, Salter.	Ottawa City (Can.W.), Mon- treal (Can. E.). Ottawa City (Can.W.), Mon- treal. Ottawa City (Can. W.).	Llandovery (Wales).	
Tr	elegans, exornatus, filitextus, robustus, Rugeri, Glyptocystites. sp. ind.	,, ,, Salter.	Ottawa City (Can.W.), Mon- treal (Can. E.). Ottawa City (Can.W.), Mon- treal. Ottawa City (Can. W.). Rhiwlas (Bala). Ottawa City (Can.W.), Mon-	Llandovery (Wales).	
Tr	elegans, exornatus, filitextus, robustus, Rugeri, Glyptocystites. sp. ind. squamosus, B	,, Salter. Sillings.	Ottawa City (Can.W.), Montreal (Can. E.). Ottawa City (Can.W.), Montreal. Ottawa City (Can. W.). Rhiwlas (Bala). Ottawa City (Can.W.), Montreal (Can. E.).	Llandovery (Wales).	
Tr	elegans, exornatus, filitextus, robustus, Rugeri, Glyptocystites. sp. ind. squamosus, B Protocystites, Sai	", Salter. Sillings.	Ottawa City (Can.W.), Montreal (Can. E.). Ottawa City (Can.W.), Montreal. Ottawa City (Can. W.). Rhiwlas (Bala). Ottawa City (Can.W.), Montreal (Can. E.).	Llandovery (Wales).	
Tr	elegans, exornatus, filitextus, robustus, Rugeri, Glyptocystites. sp. ind. squamosus, B Protocystites, Sat sp. ind.	"Salter. Sillings. lter, 18 Salter.	Ottawa City (Can.W.), Montreal (Can. E.). Ottawa City (Can.W.), Montreal. Ottawa City (Can. W.). Rhiwlas (Bala). Ottawa City (Can.W.), Montreal (Can. E.). 65. St. David's (Wales).	Llandovery (Wales).	
Tr	elegans, exornatus, filitextus, robustus, Rugeri, Glyptocystites. sp. ind. squamosus, B Protocystites, Sat sp. ind. Prunocystites, Fo	"Salter. "Salter. liter, 18 Salter. orbes, 1	Ottawa City (Can.W.), Montreal (Can. E.). Ottawa City (Can.W.), Montreal. Ottawa City (Can. W.). Rhiwlas (Bala). Ottawa City (Can.W.), Montreal (Can. E.). 65. St. David's (Wales). 849. (Subglobular, small, wi	Llandovery (Wales).	
Tr	elegans, exornatus, filitextus, robustus, Rugeri, Glyptocystites. sp. ind. squamosus, B. Protocystites, Sai sp. ind. Prunocystites, Fo Fletcheri,	"" Salter. "" Salter. "" Salter. "" Forbes, 1	Ottawa City (Can.W.), Montreal (Can. E.). Ottawa City (Can.W.), Montreal. Ottawa City (Can. W.). Rhiwlas (Bala). Ottawa City (Can.W.), Montreal (Can. E.). 65. 85. David's (Wales). 849. (Subglobular, small, wi	Llandovery (Wales). th three rhombs only, J.	Dudley (England).
Tr	elegans, exornatus, filitextus, robustus, Rugeri, Glyptocystites. sp. ind. squamosus, B. Protocystites, Sai sp. ind. Prunocystites, Fo Fletcheri,	"" Salter. "" Salter. "" Salter. "" Salter. "" Forbes, 1	Ottawa City (Can.W.), Montreal (Can. E.). Ottawa City (Can.W.), Montreal. Ottawa City (Can. W.). Rhiwlas (Bala). Ottawa City (Can.W.), Montreal (Can. E.). 65. St. David's (Wales). 849. (Subglobular, small, wi	Llandovery (Wales). th three rhombs only, J. ies compressed, arms 2-4,	Dudley (England). carried back and covered wit
Tr	elegans, exornatus, filitextus, robustus, Rugeri, Glyptocystites. sp. ind. squamosus, B Protocystites, Sat sp. ind. Prunocystites, Fe Fletcheri, Pseudocrinites,	"Salter. "Salter. "Salter. Salter. Forbes, 1. Forbes. Pearce,	Ottawa City (Can.W.), Montreal (Can. E.). Ottawa City (Can.W.), Montreal. Ottawa City (Can. W.). Rhiwlas (Bala). Ottawa City (Can.W.), Montreal (Can. E.). 65. St. David's (Wales). 849. (Subglobular, small, wi	Llandovery (Wales). th three rhombs only, J. ies compressed, arms 2-4, tentacles, 3 rhombs,	Dudley (England). carried back and covered wit J.W.S.)
Tr	elegans, exornatus, filitextus, robustus, Rugeri, Glyptocystites. sp. ind. squamosus, B Protocystites, Sat sp. ind. Prunocystites, Fa Fletcheri, Pseudocrinites, bicopula-digiti, G	"Salter. Sillings. Mer, 18 Salter. orbes, 1 Forbes. Pearce, Garnet.	Ottawa City (Can.W.), Montreal (Can. E.). Ottawa City (Can.W.), Montreal. Ottawa City (Can. W.). Rhiwlas (Bala). Ottawa City (Can.W.), Montreal (Can. E.). 65. St. David's (Wales). 849. (Subglobular, small, winested).	Llandovery (Wales). th three rhombs only, J. ies compressed, arms 2-4, tentacles, 3 rhombs,	Dudley (England). carried back and covered wit J.W.S.) Staffordshire?
Tr	elegans, exornatus, filitextus, robustus, Rugeri, Glyptocystites. sp. ind. squamosus, B Protocystites, Sat sp. ind. Prunocystites, Fa Fletcheri, Pseudocrinites, bicopula-digiti, G	"Salter. Sillings. Mer, 18 Salter. orbes, 1 Forbes. Pearce, Garnet.	Ottawa City (Can.W.), Montreal (Can. E.). Ottawa City (Can.W.), Montreal. Ottawa City (Can. W.). Rhiwlas (Bala). Ottawa City (Can.W.), Montreal (Can. E.). 65. St. David's (Wales). 849. (Subglobular, small, wi	Llandovery (Wales). th three rhombs only, J. ies compressed, arms 2-4, tentacles, 3 rhombs,	Dudley (England). carried back and covered wit J.W.S.) Staffordshire?
Tr	elegans, exornatus, filitextus, robustus, Rugeri, Glyptocystites. sp. ind. squamosus, B Protocystites, Sai sp. ind. Prunocystites, Fo Fletcheri, Pseudocrinites, bicopula-digiti, bifasciatus,	"Salter. "Salter. lter, 18 Salter. orbes, 1 Forbes. Pearce, Garnet. Pearce.	Ottawa City (Can.W.), Montreal (Can. E.). Ottawa City (Can.W.), Montreal. Ottawa City (Can. W.). Rhiwlas (Bala). Ottawa City (Can.W.), Montreal (Can. E.). 65. St. David's (Wales). 849. (Subglobular, small, winested).	Llandovery (Wales). th three rhombs only, J. ies compressed, arms 2-4, tentacles, 3 rhombs,	Dudley (England). carried back and covered wit J.W.S.) Staffordshire?
Tr	elegans, exornatus, filitextus, robustus, Rugeri, Glyptocystites. sp. ind. squamosus, B: Protocystites, Sat sp. ind. Prunocystites, For Fletcheri, Pseudocrinites, bicopula-digiti, bifasciatus, magnificus,	"" Salter. Sillings. Iter, 18 Salter. orbes, 1 Forbes. Pearce, Garnet. Pearce. Forbes.	Ottawa City (Can.W.), Montreal (Can. E.). Ottawa City (Can.W.), Montreal. Ottawa City (Can. W.). Rhiwlas (Bala). Ottawa City (Can.W.), Montreal (Can. E.). 65. St. David's (Wales). 849. (Subglobular, small, winested).	Llandovery (Wales). th three rhombs only, J. ies compressed, arms 2-4, tentacles, 3 rhombs,	Dudley (England). carried back and covered wit J.W.S.) Staffordshire?

Subdi	ivision.	Genera, Species, and Author.	Lower Stage.	Middle Stage.	Upper Stage.
L. Н. G	¥		, 1828–37. (Globular bodie Dalecarlia, Isle Soller.	s consisting of many tesse	Cumberland(Maryl. U.S.A.). llated plates, J.W.S.)
Carad.		Leuchtenbergi, Volborth Litchi, Forbes munitus, ,,	. (Russia) Popova, Poulkova. (N. & S. Wales) Merioneth, Bala, Sholes Hook. Rhiwlas (N. Wales).		
	••••••	punctatus, ", pyriformis, ", stelliferus, ", Sycccrinites, Austin, 18			
		Sycocystites, Von Buch angulosus, Von Buch = Senkenbergii. granatus.			
Primore		Trochocystites, Barr	(The oldest known Cystide Bohemia, (Spain) Almaden.	an save Protocystites, J.	W.S.)

		Spe	cies.				Spe	cies.	
Genera.	America.	Europe.	Australia.	Common.	Genera.	America.	Europe.	Australia (Selwyn).	Common.
Amygdalocystites Anomalocystites Apiocystites Ateleocystites Callocystites Caryocystites Comarocystites Crinocystites Cryptocrinites Cyclocystoides Echinocystites Echino-encrinus Echinosphærites Glyptocystites Glyptocystites Gomphocystites Hemicosmites	1 9 1 2 1 3 2 3 4	2 1 4 3 2 3 3 8 12 1 1 7		 1 1 	Continued Hemicystites Heterocystites Holocystites Lepadocrinus Malocystites Palæocystites Pentatrematites Pleurocystites Protocystites Prunocystites Prunocystites Prunocystites Sphærocystites Sphærocystites Sphærocystites Sycocystites Trochocystites	 1	44	Species unknown.	3

Subkingdom Annulosa. Province Annuloida. Class Echinodermata. Order Asteridea.

Subdivision.	Genera, Species, and Author.	Lower Stage.	Middle Stage.	Upper Stage.
	Agelacrinites, Vanuxe	m, 1842 (Edrioasteridæ, B	illings),	
		Canada West.		
Carad., Tr	Buchianus, Forbes. = Edrioaster.	Yspatty-Evan (N.W.).		Section of the last
H. R. G		Cincinnati (Ohio).		
		Ottawa City (Can. W.)		of the same of the
, ,	Bothriocidaris, Eichw.		RECORDED TO	the state of the s
Pentam. Lst			Talkhof (Livonia).	
Pleta	globosus, ,,	Poulkova (Russ.), Isle Dago (Baltic).		A CONTRACTOR OF THE PARTY OF TH
	Edricaster Rillings	(Subglobular depressed Sta	rfishes JWS)	The state of the s
Tr	Bigsbyi. Billings.	Ottawa City (Can.W.), Lake	Thanes, 6.17 los)	
	-geograf	St. John (Can. E.).		
the same of the sa	Glyptaster, Hall, 1852.	(3.00.00)		
CH., H. R. G.,	brachiatus, n. s. Hall.	New York	New York	(N. York) Lockport Shale.
CL., Niag.				, 1
Niag	inornatus, ,,			(Indiana) Waldron.

Subdivision.	Genera, Sp Aut	pecies, and hor.	Lower Stage.	Middle Stage.	Upper Stage.
Niag	occidentalis,	Hall.			Waldron (Indiana), Racine (Wisconsin).
w	Lepidaster,	Forbes, 185 Forbes.	0 (a many-armed tubercular	Starfish, J.W.S.).	
,,	Palæaster,	Hall, 1842.	(The palæozoic form of Sta (W.) Welchpool, Guilsfield.	rfish, the ambulacra very	simple, J.W.S.)
LGreen Schists. ULlandov L	constellata, coronella,	Thorent. Salter.	Mondrepuis (Aisné, France).	(Malvern) Gunwick Mill.	Potter's Fell, Kendal (West
Carad	imbricata, n.	s. Salter.	(Wales) Montgomeryshire, Llanfyllin.		moreland).
Fr., H. R. G Niag Carad	Niagarensis, n	. 8	(N. York) Trenton Falls &c. Drumcannon, Waterf. (Irel.),		(N. York) Lockport.
CL	parviuscula,	Billings.	Bala (N. Wales).	(Nova Scotia) Arisaig.	Underbarrow (Westmorel.)
Tr Pleta	pulchella, pygmæa,	Billings.	Ottawa City (Can. W.). Poulkova (Russia).		
L	Ruthveni, Palæchinus	s, Scouler, 18	40.		Kendal, Highthorns (West- moreland)
ULlandov	Phillipsii, = Echinocysti	Forbes.	(Membranous Starfish, flat		"Palempes," J.W.S.)
W L	Colvini, cygnipes,	Salter.		***************************************	Shropshire.
Tr	Marstoni, pyrotechnica,	Salter.	Mid-Ottawa River(Can.W.).		Shropshire.
Tr L	spinosa, vermiformis, Palæodiscu	Billings. Salter.	(Can. E.) Falls of Montmor.		
,,	ferox, gotlucus,	Salter.			
H. R. G	antiqua,	Hising. Locke.	 (Flat, discoid Starfish, J. Cincinnati (Ohio). 	W.o.)	Sweden.
L. ". Tr.	primæva, rigida,	Forbes.	Ottawa City (Can. W.).		Leintwardine (Shropshire) Kendal (Westmoreland).
H. R. G Tr.	rugosa,		Anticosti Isle, Charlton Point. Ottawa City (Can. W.).		
Niag.	? antiqua, bellulus,	Troost.	Davidson Co. (Tennessee).		Grimsby (Can. W.).
	Wilberanus, 1		Mid-Ottawa (Can. W.). (N. York) Oswego, Kendal Co. (Illinois).		
L. H. G L	Forbesi,	Hall.	(Long-armed Ophiurid-loo		(N. York) Herkimer County
Carad	Miltoni,		(Wales)Denbighshire,Cerrig		
W., L	Sedgwickii,	.,,	-y-Druidion.		Docker Park, and Benson
Div. 1. Queb. Gr.			8. (Closely allied, if not id (Newfoundland W.) Port		Knot, Kendal. W.S.)
Tr		"	Rich. Mid-Ottawa (Can. W.). Belleville, Lake Ontario,		
		Billings,1858.	(Can. W.). (Very like <i>Protaster</i> , J.W. Ottawa City (Can. W.).	S.)	
,,			Montmorenci Falls (Can. E.), (Can. W.) Ottawa River.		teres (III)

	Species.				Species.		
Genera.	America.	Europe.	Common.	Genera.	America.	Europe.	Common.
Agelacrinites Bothriocidaris Edrioaster Glyptaster Lepidaster Palæaster Palæchinus Palæocoma	3 1 4 4 2	1 2 1 2 9 1 5	1 	Continued Palæodiscus Palasterina Petraster Protaster Stenaster Tæniaster	14 5 4 1 3 2	21 2 2 4 	1

SUBKINGDOM ANNULOSA. PROVINCE ANNULATA. CLASS ANNELIDA.

				1
Subdivision.	Genera, Species, and Author.	Lower Stage.	Middle Stage.	Upper Stage.
Carad	Arenicolites, Salter, 18	Fermanagh (Ireland). 56. (Allied in habits to the (Shropshire) Church Stret-		W.S.)
Potsd. Sa., Llan.	linearis, Hall. = Scolithus.	ton &c. (N. York) Canada, (Engl.) Shropshire.		
Longmynd		(Shropshire) Church Stret- ton &c.		
	Boliviana, Salter, 1861. bipennis, Salter.			
		Aceromarka Valley, N.E. Il- limani (S. America).		
Corall. Lst	proboscidea ", Campylites, Sowerby, 1 longissimus, Murch.			Isle Oesel (Baltic), Wales.
,,	sp. ind. Sowerby. Chondrites, Sternberg, 1	833. (Almost certainly the	filled up burrows of wor	Isle Oesel (Baltic) &c.
P. LingulaFlags.		Low Fell, Whitless (Čumberland).	A CONTRACTOR OF THE PARTY OF TH	Ludlow (Shropshire).
Pleta Llandeilo	" Sternbergii.	Narva, Réval(Balt.), Livonia.		
P. Blue Clay	regularis, Harkness. tener, Eichw.	(S.W. Scotland) Barlae. Paulosk (Russia), Tokenhof (Finland).		Mark Sand mile
	tribulus, ,,		Kirna, Wesenberg &c. (Esthonia).	
P CL., L. H. G	Cornulites. Schlotheim.	Near Bangor, N. Wales. 1820. (Calcareous tubes, c	ellular, J.W.S.)	(N. Saatia) Amienia Niataur
	var. gracilis,			
CL., Niag, L.H.G., Car., Llandov., W., L.	serpularius, Schloth.	N. America, Britain, Goth- land, Norway.	Scotland, Mayhill, Wales.	York, Wales, Britain, Ire land, Bohemia, Gothland
Onondag. S. Gr.	Crossopodia, M. Cov. 18	48.		
W., L Llan., Carad	lata, M'Coy. Scotica,	Inverleithen (S.W. Scotl.).		
Carad	Bronni, Rouault. Carpetana, C. de Prado.	842; Frena, Rouault. (An Taille(France), Castile (Sp.). Castile (Spain).	annelid tube, somewhat c	oriaceous, J.W.S.)
,,	Cordieri, Rouault.	Tailly (France). Unduava and Aceromarka Valleys, Bolivia (South America).		
		Goven &c. (France), Bolivia (S. America?).	1	
,,	Goldfussi, "	Tailly (France).		

Subdivision.	Genera, Species, and Author.	Lower Stage.	Middle Stage.	Upper Stage.
	Harlani, Hall?	N. York (U.S.A.).		
arad		Gauné, Guichen (France).		
		Castile (Spain).		
,,		Bain &c. (France), Castile		
		(Spain).		
-7 12		Bolivia (S. America).		
Carad	St. Hilaire, Rouault.	Guichen &c. (France).		
P. Lingula Flags.	semiplicata, Salter.	(N. Wales) Bangor, Maent-		THE STATE OF THE S
		wrog, Llanberris.		
	Torrubiæ, C. de Prado.	Castile (Spain).	The state of the s	Military
3	Unduavi, Salter.	Unduava and Aceromarka		
	v:	Valleys, Bolivia(S.Amer.).		
v. Gr		Castile (Spain).		
tiper Stones		Shropshire (England).		The state of the s
Corall. Lst	Disophonus, Eichwald,	1000.		Populately Unal (Pussia)
Corani. List	Forallites, Rouault, 185	0		Bogoloisk, Urai (Russia).
		Guichen (France).		
	Pomeli, "	Bain, Goven &c. (France.)		
	Fucoides,	(All are burrows of worms	in matrix ? J.W.S.)	
		Calvados (France), Bohemia.		
B	demissus, Hall?	N. York (U.S.A.).		
P., Potsd.Sa	duplex, ,,	N.W. Michigan, U.S.A.,		
	, ,	Pennsylvania.	The second of the second of	
	gracilis, ,,	Malvern (Engl.), N. York.	*	
Faun. D. E. G. g.		Branik, Hostin &c. (Bohem.).		Hostin, Borek &c.
2, 3, H. 1. h			The state of the s	and property land
	Haughtonia, Kinahan, 1			
?		Brayhead (Ireland).		The state of the s
	Helmintholites, Salter,			
Llan. &c	sp. ind.	(Engl.) Stiper Stones, (W.)		Constitution in the same
		Tremadoc, (N. Scotland)		
	Trintindamin Vivalou	Durness.	- C	TWO
		1858. (The curved burrow	of a worm with tentacies	, J. W.S.)
		Brayhead (Ireland).		
	Humilis, Rouault, 1850			
	Habout!	Guichen (France).		
	Localli	,, ,,		
	Mandani	" "		
	Visqueneli, ,,	" "	the state of the state of the state of	
		1826. (Only the cast of the	trail on mud. J.W.S.)	
Carad		Desertcreate (Tyrone).	,	
.,	gregaria, ,,			Control of the Contro
		39. (Probably the cast of t	he animal in silty mud, J.	W.S.)
Llan		Lampeter (S. Wales).		
Carad	tenuis, M'Coy	(S.W. Scotland) Grieston.		All of the second second
	Nemertites, Macleay, 183	9. (Long, involved, narrow	trails; casts only, J.W.S.	
Llan	Ollivantii, Murchison	. Lampeter (Pembrokeshire).		
	Nereites, Macleay, 1839	(Impressions of worms wit	h branchiæ; supposed by	
Llan., Carad	Cambrensis, Murchison	Lampeter (Wales), Ashestiel		J.W.S
0 10		(S.W. Scotland).		
Carad.?		Waterville (Maine, U.S.A.).		
Llan		(S.W. Scotl.)Kirkeudbright.		
Carad		Lampeter, Aberystwith (W.).		
T. 19	tenuis, M'Coy	(S.W. Scotland)		A STATE OF THE PARTY OF THE PAR
Llan		Skiddaw (Cumberland).		
P	. ,, Harkness			
Pleta	Palæonereis, Eichwald	Odinsholm Isle (Baltic).		
1 leta		, 1846.	to the second second	
В		(Can. E.) Port St. Clair,		
	Titli	N. York (U.S.A.).		
	tubulosum,	New York.	100000000000000000000000000000000000000	
	Platysolenites, Pander			The second secon
Oldest Blue Clay		Narva, Poulkova &c. (Russ.).		The second secon
- Little Clay	Psephidium, Eichwald	, 1859.		STATES OF THE PARTY OF THE PART
Pleta		Poulkova (Russia).		Control of the same of the sam
		50. (Supposed to be an Alc	yonarian zoophyte by M	Coy, J.W.S.)
Llan	. fasciculus, M'Coy	.(Wales) Tregib.		
	Scolecoderma, Salter	, 1866. (Membranous tubes	in mud, J.W.S.)	and the same of th
P	tuberculata, Salter	Tremadoc (Wales).		
Carad	sp. ind.	(Wales) Bala Lake.		
	Scolicolithus, Haldeman			and the second second
Marly Lst	chordaria, Haldeman	. Wesenberg, Haljal (Estho.), Lower Silesia.	1.2	

Subdivision.		pecies, and thor.	Lower Stage.	Middle Stage.	Upper Stage.
P., Potsdam Sa.	Scolithus, Canadensis,		Tigillites, Rouault, 1850. N. Vermont, (C. W.) Brock- ville, (C. E.) Beauharnois.		ms in sand, J.W.S.)
	Danieloi, = Tigillites.	Rouault.	(France) Aquidam &c.	remolities and the same	A W III
(eleman)	Desfontaines, = Tigillites.	"	(France) Guichen &c.		line les
	Dufresnoyi, = Tigillites.	,, ,, ,, ,,	" "	The design of the second	A STATE OF THE STA
P.Potsdam., Tre- mad., Llan., Llandov.	linearis,	Safford?	N. Scotland, (Wales) Stiper Stones, (France) Calvados, Canada E., N. York, Penn- sylvania, Tennessee, Wis- consin.		
	verticalis, Serpula, Li	innaus, 1758?	(Not likely to be the mode	rn genus, J.W.S.).	- The same of the
Pleta, Pentam.L. Corall. Lst	striatula,	"	Isle Odinsholm (Baltic)		Isle Oesel (Baltic), Lodé.
w	Serpulites,	Macleay, 183	Berrigal, New South Wales. 9.		Abberley (Worcester).
	depressus, dispar,		(S.Wales) Tan-y-Craig, Hol-		
W., L.			lies, Shropshire. (Can. E.) Montreal, River		Llangollen (Wales).
P., Mid-Lingula Flags	fistula,	Hall.	Ottawa, lower. Malvern, Hollybush (Wor- cester).		
Car., Llandov., W., L., UL.	longissimus,	Murchison.	(Wales) Llanwddyn, Ber- wyn Mountains.		Kington, Ludlow, Radnor Isle Oesel (Baltic).
P., Potsdam	M'Cullochi, Murchisoni,		S. Wales, (N.Scotl.) Durness. La Grange Mountain, Min-		
W			nesota (U.S.A.).		Tortworth (Gloucester).
	spiendens, Spirorbis, . Laxus.	Lamarck, 181	(Can. E.) Montreal. 8. (Minute, curled, and att	ached Serpula, J.W.S.)	(Eastern N. York) Scho-
(L. H. G.) ULlandov., W.,				Galway, Shropshire, May-	harie Co. Bohemia, W.Scotland, N.&S
L. Corall. Lst	Siluricus,	Eichw.		hill.	
L	tenuis, Tentaculite	Sowerby.	820. (Shelly tubes with cla	vate-headed animal J.W.	gorod (Russia). Leintwardine, Shropshire. S.)
Faun. G	acuarius.	Richter.	Mount Ararat (Armenia).		Bohemia, Thuringia.
Llandov., a. n.	anglicus,	Salter.	Bohemia, (N. & S. Wales) Bala &c., Shropsh., Scotl., Coniston (Lancashire).	N. & S. Wales, Presteign,	
Car. &c		Schloth.	Horderley &c., Shropshire, Coniston (Lancashire), (Wales) Glen Ceriog &c.		
Faun. G	approximatus cancellatus,		Mount Ararat (Armenia).		Bohemia, Thuringia.
G. g. 1, 2, H.h. 1.	clavulus,	Barr.			(Bohemia) Kozorz, Holin Vavrovitz, Chotecz, Hlu-
CL., L. G. H	costulatus, distans.	Meneghini. Hall.	Sardinia.	(Can. W.) Flambro Head.	boceps &c. Arisaig (Nova Scotia).
F. G. g. 1, 2, 3,				Arisaig (Nova Scotia).	(Bohemia) Hlubocep, Hos-
H. h. l. Del. Sh. Lst	elongatus	Hall			tin, Frantatetin, Lockhov, Dvoratz &c. (N. York E.) Schoharie Co.
Tr., H. R. G	flexuosus,		(Kentucky) Mayville, (N.Y.) Lewis Co., (Ohio) Cincin-		and any constant co.
	fissurellus, incurvus,	Shumani	nati, Indiana.	New York.	Cono Girandon (Missouri)
(Tentac. Lst.) .,	irregularis,				Cape Girardeau (Missouri). (Cent.&E. N. York) Hudson, Carlisle.
F. G. g. 1	longulus,	Barr.			(Bohemia) Divoretz, Tetin, Slichow, Mnienan, Konie-
CL					prus. (N. York) Rochester Shale.
Niag	Niagarensis,	,,			New York.

Subdivision.	Genera, Species, and Author.	Lower Stage.	Middle Stage.	Upper Stage.
Car., Llan., W., UL. (L. H. G.)		(S.W. Scotland) Saugh Hill.		Dudley, Montgomeryshire Sweden, (N. York) Cherry Valley.
H. R. G	Oswego-ensis, Meek&Worth	Oswego and Kendall Coun-		
A CONTRACTOR OF THE PARTY OF TH		ties, Illinois.		
	Saienzii, Salter.			Bolivia (S. America).
Carad., UL	scalaris, Schloth.	(Wales) Penmachus &c.,		(N. York) Herkimer Co.
	Conrad.	(Engl.) Delbury, Bradnor Hill&c., Brittany ?,(Spain) Almadenejos, Entrodicho &c.		Spain?
	Stirlingensis, Meek&Worth.			
	supremus, Salter.			Illampa (Bolivia)
	tenuis. Sowerby.			Russia Usk (Monmouthsh
HRG	tennistriatus Meek& Worth	Alexander Co., Illinois.		Kendal, Westmoreland.
Carad	sp. ind. Stevens.	Moffat Shales, Dumfries.		
W	sp. ind. Stevens. " Salter.			(Wales) Plas Madoc.
	,, Hall.			Arisaig (Nova Scotia).
and the same of	,, Vern.?	(Spain) Sierra Morena.		
MuthSeries, Stro- liczka.	and the second of the second	Himalaya, E. Indies, Ku- maon.		The second of
	Trachyderma, Phillips,	1848. (Coriaceous wrinkle	d tubes, J.W.S.)	the state of the s
P. Ling. Flags	antiquissima, Salter.	Hollybush, Malvern(Worc.).		
L	coriacea, Phillips.			Abberley (Shropshire).
Carad		Acton Scott (Shropshire).		
And the second		Normandy, Budleigh S., De- vonshire.		
UL	squamosa, Phillips.			Ireland, Shropshire, Kendal
	Vermiculites, Rouault,	1850.		Westmoreland.
	Panderi, Rouault.	Guichen (France).		A CONTRACTOR OF THE PARTY OF TH

	Z. J.	Spe	cies.		The state of the s		Spe	cies.	
Genera.	America.	Europe.	N.S.Wales	Common.	Genera.	America.	Europe.	N.S.Wales	Common.
Aphrodita Arenicolites Boliviana Campylites Chondrites Cornulites Crossopodia Cruziana Disophonus Forallites Fucoides	3 4 4 2	1 3 2 8 1 2 13 1 2 3		1 1 2?	Continued Nemertites. Nereites Phytopsis Platysolenites Psephidium Pyrotenema Scolecoderma Scolicolithus Scolithus Serpula	 3	48 1 6 1 1 1 2 1 4 2	 	1
Haughtonia Helmintholites Histioderma Humilis Lumbricaria Myrianites	14	1 1 5 2 2 2			Serpulites Spirorbis Tentaculites Trachyderma Vermiculites	3 1 15 	7 3 17 5 1	···· ···· ··· 1	2

SUBKINGDOM ANNULOSA. PROVINCE ARTICULATA. CLASS CRUSTACEA. ORDER TRILOBITA.

Subdivision.	Genera, Species, and Author.	Primordial.	Lower Stage.	Middle Stage.	Upper Stage.
	Acanthopyge, Corda,	1847.		144	(B. 1. D. D. 11
w	anglica, Acerocare, Angelin, 18	52 (see Olenus).		······	(England) Dudley.
P. regio A	ecorne, Angelin.	(Sweden) Scania.		ALUES A	
Norw. Reg.E	Acidaspis, Murchison,	1839.	***		Sweden, Norway.
W	Barrandii, Ketley.				Dudley (England).
regio E Carad	" Angel.		(Incland) Kildow	••••	Sweden.
Carad. Car., U.Llandov,	Brightii. Murchison.		(Wales)Glyn Ceiriog,	(Wales) Llandovery	Wales, Shropshire
W., L			Blain-y-Cwm.	&c., Glyn Ceiriog.	Dudley.
D. d. 3	Buchii, Barr.		(France) Angers &c., (Bohemia) Mount		
			Drabow, Winice,		
			Trubin, Zahorzan &c.		
Llandov	callipareos, Wyv. Thom.		(S.W. Scotl.) Girvan.		
Carad	Caractaci, Salter.		Wales, (Shropshire) Gretton.	and a sulf	the same of the
W., LL	coronatus, ,,		Gredon.		Ludlow, Vinnal Hi
and the same of the same of					Dudley.
Corall.Lst., W., Low. L., Reg.					Gothland, (Englan Dudley, Ludlo
E.	the state of the s				Isles Moon & Oes
W Niag	dama, Salter & Fletcher.				(England) Dudley. U. Mississippi Rive
	Account Contract Contract				Chicago (Illinois
Fauna G. g. 1,2. ,, E.	derelictus, Barr.	••••••			(Bohemia) Hosti Hlubocep, Teti
					Pekarkovitz.
	desideratus, ,,		(Bohem.) Coly. Motol.	(Pohomio) St. Tonon	
	Dormitzerus, Corda. Dufrenovi, Barr.			(Bohemia) St. Iwan. (Bohemia) St. Iwan.	
				Kolednik, Lodenitz	
Fauna E	dumetosus, Salt. & Fletch. Geinitzianus Barr.				(England) Dudley. (Boh.) Dlauha Hor
Regio D-E			Mounts Olleberg and		(Dom) Dimini IIo
			Mosseberg (Vestro- gothia).		
Fauna E					(Bohemia) Listice.
Delth. Sh. L					U. Mississippi Rive (N.Y.)Albany Co. &
Fauna E					(Bohemia) Listice.
F. G. g. 1	Hoernesi, ,.	••••			(Bohem.) Wilkocill
Fr	Horani, Billings.		Cape Tourment, St.		Mnienian, Hostin
			Lawr. River, L. St.	50 C C	
Upper Bala	hystrix, Wyv. Thomson.		John (Canada E.). (S.W. Scotl.) Ayrsh.		
Niag	Ida, Winchell & Marcy,				Chicago (Illinois).
Llan. Flags	Jamesii, Salter.		(Irel.) Newton, Wa- terford Co., and		
			Duncannon, Wex-		
Very Micac. Sch.,	Keyserlingii, Barr.		ford Co. (Bohemia) Beraun,	DATE OF THE REAL PROPERTY.	
Fauna D.			Lodenitz &c.	male l	
,, F	laceratus, ,,				(Bohem.) Koniepru
Carad	Lalage, Wyv. Thomson.		Scotl. (S.W.) Ayrsh.	S.W. Scotland.	Mnienian.
Fauna F	Laportei, Corda.				(Bohem.) Mnieniar
" E, F	Leonardi, ,,				(Bohemia) Dlaul Hora, Borek, Kole
- 31 11 23		Later Control (II)		to be a second	nick, Tachlowit
				0	Dworetz, St. Iwa &c.
Reg. E	Marklini, Angel.				(Sweden) Gothland
Fauna E	minutus, Barr.				(Bohemia) Dlaul
" E.e.1	mirus,			(Bohem.) Tachlowitz.	Hora, Kolednik.
				Butowitz &c.	(Dal 1) D
3. g. 1	monstrosus, Barrande.	***************************************			(Bohemia) Dworet Lochkov.
Reg. E	multicuspis, Angelin.				(Sweden) Gothland

Subdivision.	Genera, Speci Author		Primordial.	Lower Stage.	Middle Stage.	Upper Stage.
Reg. E	pectinatus.	Angelin.				(Sweden) Gothland.
Fauna E	pectiniferus,	Barr.			Bohemia?	(Bohemia) Kozel.
,, ,,	Portlocki,	Corda.				(Bohemia) Listice.
" E. e. 1	Prevostii,					
apli III The	J. Harrison	min			Borek, Hinterco- panina &c.	
" D. d. 3,	primordialis.			(Bohem.) MountDra-	Parama det	
4. 5.				bow, Praskoles		
				Wraz, Lodenitz,		
				Beraun &c.		
E	propinquus,					(Bohem.) Lodenit
,,	propandane,	"				Kozel, Sedletz.
W	quadrimucronati	ns. Murch.				
	quinquespinosa,	Fletcher.				and (anguary)
Fauna E, F	radiatus.	Barr.				(Bohemia) Dlau
		-				Hora, Mnienian.
,, E	rebellis,	,,				(Bohemia) Listice.
	Rœmeri,	,,				
" G. g. 1	ruderalis,					(Bohemia) Tetin.
"	Selcana,					Thuringia.
	solitarius,	Barr.				(Bohemia) Dlau
						Hora.
Tr	spinigerus, n. s.	Hall.		(N. York) Mohawk	The state of the s	
				Valley, (Canada)		
	Total Control of the		The state of the s	Valley, (Canada) Montreal.	The state of the s	
Fauna F	subter-armatus,	Barr.				(Bohemia) Mnienia
	2					Konieprus.
Very Micae. Sch.,	tremendus,	,,,		(Bohemia), Praskoles,		
Fauna D.				Lodenitz.		
Tr	Trentonensis,	Hall.		Canada, B. of Quinté,		
		-	the second second second second	Lake Ontario.	THE RESERVE	
Fauna E	tricornis,	Barr.			Böhemia?	(Bohemia) Dlau
				a construction of the construction of	Action and the second	Hora, Kolednik.
" F	truncatus,	Corda.				(Bohemia) Mnienia
Delth. Sh. L	tuberculatus,	Hall.				(N.York) Albany ar
						Schoharie Cos.
Fauna E.e.l &c.	Verneuilli,	Barr.			(Bohemia) Butowitz.	(Bohem.) Wohrad
						Konieprus, Mn
						nian &c.
" F	vesiculosus,	37				(Bohem.) Koniepro
						Lochkov &c.
CL					New York.	
	Acontheus, A	Ingelin, 18	52 (Arionellus?).			
Reg. B			Andrarum, Scania.			
0 1	Actinopeltis,	Corda, 18	47 (Cheirurus).	a 1 or 1) will		
Carad	clavitrons,	Dalman.		Sweden, (Irel.) Kil		
				dare, (Wales) Bala,		
				(Westmorel.) Ap-	3	
		CI.		plethwaite Comm.		
D 10 15	alaha "	Sars.		Norway.		
D. d. 3, 4, 5	giobosus,	Barr.		(Bohemia) Königs-		
	1			hof, Karlshütte,		
Carad	invenie	Salton		Lieben &c. Ireland, S.W. Scotl.,	5//	
Carad	Juvenis,	Suiter.		(Wales) Denbighs.		
				Bala, Cerrig-e-Dru-		
				The state of the s		
	Æglina, Barre	ande 1846		idion.		
LLlan		Salter.		(Shropshire) west of		
Lilian.	. omouosa,	Carter.	***************************************	Stip. Stones, Outer-		THE PARTY OF THE P
			100	side near Coldgate		
				Cumberland.		
Arenig rock	Boia.	Hicks	Ramsay Isl., White-			
B 100m 11		2270110	sand Bay, St. Da-			
			vid's (S. Wales).			
LLlan., Carad	caliginosa.	Salter		(N.Wales) Ty-obry.		
Llan.				St. David's Head (S.		
		0		Wales).		
,,	major.	,,				
,,	1			gors, Anglesea.		
Llan., Carad	mirabilis.	Forbes		(Ireland) Portrane		
Reg. E						. (Sweden) Mount M
	, and the same of	and or		The state of the s		seberg.
	nachweenhala	Barr.		(Bohemia) Trubin		8
D. d. 4				The second section in		
D. d. 4	. pachycephaia,			Winice &c.		
D. d. 1				Winice &c. (Bohemia) Rokitzau		

Subdivsion.	Genera, Species, and Author.	Primordial.	Lower Stage.	Middle Stage.	Upper Stage.
D. d. 3, 4, 5			Lodenitz, Trubin.	-10	
Fauna D. d. 1, 4, 5.	speciosa, Angelin. Corda.	·····	Swed., (Bohem.) Kö- nigshof, Karlshütte.		
D. d. 1, 5	sulcata, Barr.	1959 (and Amounts	Bohemia.		
	Agacanthus, Angelin, Aglaspis, Hall, 1863.	and the second second	and the second second		
Potsd. Sa	Barrandii, Hall.	(Minnesota) Minisca, Mazomania.			
,,	sp. ind. ,, Agnostus, Brongniart,	(Wisconsin) Black R. 1822.	er i samme son s		
Reg. B Queb. G	aculeatus, Angelin.	(Sweden) Andrarum. Point Levi (Can. E.),		,	
		in Lst. No. 1.			
Menevian G Fauna C	bibullatus, Barr.	St.David's (S.Wales). (Bohemia) Skrey.	The state of the s		5
Reg. B	bituberculatus, Angelin. brevifrons, ,,	Sweden, Andrarum. (Sweden) Andrarum,			
Lst. 3, Queb. G.	= nodiger.	Okhotzk, Kamskat. Point Levi (Can. E.).			and the
Potsd	Colorado-ensis, B.F.Shum.	Texas, Clear Ch.			
Ling. Flags Potsd		(S.Wales) St.Davids. (Upper Mississippi)	W bullion was		(63)
Reg. B	exsculptus, Angelin.	Oceola Mills. (Sweden) Andrarum.			
Div.N.P., Queb. G.		(Newfoundland W.) Portland Creek &c.			
Div. M. N. P., P. L., &c.	Galba, "	,, ,,			
Reg. D	glabratus, Angelin	(Swed.) Mt. Mosseb.			
"B (Sch.) Fauna C.		(Sweden) Andrarum. (Bohemia) Skrey, Gi-			
Arenig Rocks	hirundo, Salter	metz. Whitesand Bay and Ramsay Isl.(S.W.).			
P. Sch., Fauna C.	integer, Barr	(Bohem.) Skrey, Gi-			
Potsd	Josepha, Hall	netz. (L.Pepin, Wisconsin) Trempaleau.		should sell	The second
Reg. C			(Sweden)Gudhem &c.	of single chronic	P. A.
100			(Sweden) Fagelsang, Russia.	Laper L.	-
Carad H. R. G	limbatus, Salter lobatus, Hall		(Ireland) Wexford. (N.York)Troy, Penn-		
U.Llan	Maccovi, Salter		sylvania. (S.& N.Wales)Builth,		
Llan		Stiper Stones (Shrop.	(Shropsh.) Shelve.		
	aroret, Santa	shire),Skiddaw,N.E. Westmoreland.			
Pleta Fauna C		Skrey (Bohemia).	Riv.Amour(Kamsk.).		
Lst. No. 1,	Orion, Billings	Point Levi (Can. E.).			
Queb. G. Pleta	paradoxus, Eichw	NT:	(Russia) Poulkova.		
Potsd. Sa		Lake Pepin (Up.Mis-			
Alum Schists,		sissippi River. (Sweden) Andrarum,			
Reg.A., Pleta.		Malvern (Engl.), (Wales)PenCerrig, Builth, Dolgelly.			
Reg. B		(Sweden) Andrarum.			
L. & U. Ling., U. Tremad.	princeps.	England, (Wales) P y-Rhaw, Maent- wrog, Festiniog,			Red Town M
	*	Criccieth, Dolgelly			
Reg. B?	punctuosus, ,,	(Sweden) Andrarum.			
Fauna C	Rex, Barr	(Bohem.)Skrey, (W.)			
P. L. Lingula	scutalis, Salter	Dolgelly. (Wales) St. David's.			
Flags. Fauna D.d. 1-5.			(Bohem.) Karlshütte,	# In Contract of the Contract	
	1		Beraun, Königshof.		

Subdivision.	Genera, Spec Autho		Primordial.	Lower Stage.	Middle Stage.	Upper Stage.
P. Carad	trinodus,	Salter.	Dolgelly (Wales)	Newfoundland, Irel., (N. & S. Wales)Rhi- wlas &c.		
Ling. Flags	trisectus.	22	Malvern (England).	wias ecc.	12	
Reg. B	tuberculatus,		(Sweden) Andrarum.			
L. Ling. Flags.	sp. ind.	Salter.	St. David's (Wales).			
	" (many),	De Vern.		Cantabrian Mounts.,		
L. Llan		Salton		Spain.		
Carad	"	Saiter.		Tai-hirion (Wales). Bala Lake (N. Wales). (Swed) Ostrogothia		
	Amphion, Pa	nder,1830.				
media ma services	actinurus,	TATILITIES.		(Shear) Contogosina		
Div. I, K, L, M,	Barrandei,	Billings.	(Newfoundland W.)			
N,P, Queb. G. Carad.	benevolene	Solton	Cowhead.	Ireland		
CH		Billings.		Canada, Mingan Isles.		
Queb. G	Caylei,	,,	Point Levi (Can. E.).		-	
, "a Ti	convexus,		Staubridge (Can. E.).		000	
Reg. C., Pleta	Fischeri,	Eichw.		Norw., Swed., (Russ.)		
				Humelasaari &c. near Czarskoe-selo,		
				L. Ladoga.		
Div. G. (CS.),	insularis,	Billings.	(Newfoundland W.)		material services and the	
Queb. G.			Port au Choix.			
Div. P., Queb. G.	Julius,	29	Newfoundland West.			
Pleta	Lindaueri	Eicher		(Russia) Poulkova		
D. d. 1						
				Rokitzan.		
D. 4. 3	Mathesii,	Angel.	(NT NT)	(Swed.) Vestrogothia.		
Potsd	? matutinus,	Hall.	(N. Wisc.) Trempa-			
Carad	nauner	Salton	leau.	Ireland.		
,,	pseudo-articula				100	
CS., Queb. G	Salteri,	Billings.	Phillipsburg, Oxford			
			(Canada E.)	all balled a little and a		
	Westoni,	D. Dudle	Stanbridge (Can. E.). (Spain) Leon Sabero.			
P	sp. ma.	Casiano.	(Spain) Leon Sabero.			
	Amphytrio,		(REMOPLEURIDES).			
	Ampyx, Dali	man, 1827.	Service of Parking			
(Boulder)	carinatus,	Angel.		(Sweden) Mt. Kinne-		
Reg. D. a	oostatus	Roack		kulle.		
Reg. D. E		Angel	•	(Sweden) Mount Os-		
				mundb., Dalecarl.	the same of the sa	
CH	Halli,	Billings.		New York (Highgate		
				Springs), N. Ver- mont, Canada.		
Queb. G	læviusenlus	9/	(Newfoundl.) Table-			
	- Insolution	"	head.	Control Control Control	17 30	
Carad	latus,			Builth (Wales).	- Y	
Carad., Reg. D.		-		(Ireland) Waterford,	- 1 - 1 M	
a. ?	=costatus, Boe	ek.	mark at 1 at	(Wales) Garn, Are- nig, (Engl.) Dufton		
				Pike, Westmorel.,		
				Sweden, (Norway)	100	
				Christiania.		
Pleta, Carad	nasutus,	Dalman	Newfoundland W	(Norway)Christiania,		
				Sweden, England, (Russ.) Czarskoe-		
				selo, Popowa &c.		
Div. N,P, Queb.	normalis,	Billings	(Newfoundland W.		Age Land	Maria Company
G.			Tablehead.	19.5 网络花头鱼鱼鱼鱼		
Llan	nudus,	Murch		Builth (Wales), Tre	(Engl.) Abberley.	
Carad., W., L	parvulus	Forbes		Gil, Llandeilo. England.		
Carad				(Engl.) Onny River,		
				Shropshire.		
Fauna D. d. 5				. (Bohem.) Königshof.		
U.P.,Tremad.Sl.			(Wales) Penclogwyn			
Carad	rostratus,	Sars		. Sweden, Norway, Ire- land, Scotland.		
Fauna E. e. 1	Rouaulti,	Barr			(Bohemia)Borek, Bu-	
				William of the second	towitz, Tachlowitz	
			The state of the s	William Control of the Control of th	towitz, Tachlowitz	

Subdivision.	Genera, Species, and Author.	Primordial.	Lower Stage.	Middle Stage.	Upper Stage.
Queb. G	rutilius, Billings	Newfoundland, Port-			
		land Creek.			
Div.N = Pt.Levi,	Salteri, Hicks	Whitesand Bay and			
Arenig Rocks.		Ramsay Isle (S.			
		Wales).			
Div. N, P, Queb.	semicostatus, Billings	(Newfoundland W.)			
Gr.		Tablehead.			
Reg. D					
Carad	tumidus, E. Forbes				
			Llangynnog.		
	Aneuacanthus, Angel		LUS).	The state of the state of	
	Angelina, Salter, 1853				
Up. Tremad.	Sedgwickii, Salter	(Wales) Penclogwyn,			
Slate.		Garth, Dendraeth,			
		Dolgelly, Trema-	and the second second		
		doe &c.			
	subarmata, ,,	050 "			
	Anomocare, Angelin, 1		arranac.		
	Annual Control of the	(Sweden) Andrarum.			
	acuminatum "	" "	A STATE OF THE PARTY OF THE PAR		
	difforme, ,,	" " %a			
	excavatum, ,, limbatum, ,,	" " &c.	The state of the s		THE REPORT OF
	microphthalmum, ,,	,, ,, &c.			
39	Anopocare, Angelin, 18			A COLUMN TO SERVICE SE	
Reg. A	pusillum. Angelin	(Sweden) Andrarum.			
	Anopolenus, Salter, 18	63,		- 7	
Lingula Flags		St. David's, Dolgelly			
0		(Wales).			
" "	Salteri, Hicks.	St. David's (Wales).			
	Arethusina, Barrande,	1846.			
D, E. e. 1	Koninckii, Barr.		Bohemia	(Bohemia) Dlauha	
			A CONTRACTOR OF THE PARTY OF TH	Hora, Beraun, &c.	
E. e. 1	nitida, ,,			(Bohemia) Kozel.	
N'	Arges, Goldfuss,				
Niag	phlyctænodes, Hall				(N.York) Albion, Or
D	Arionellus, Barrande,				leans County.
P	bifurcatus, B.F.Shumard	Sweden.			
Mid. Potsd	binunctatus	Root R., Minnesot.&c.			
Fauna C	ceticenhalus Rare	(Spain) Leon Sabero,			
	cercepharus, Dari	(Bohem.)Slap,Skrey.			
Lst.No.1, Queb.	evlindricus. Billings	Point Levi (Can. E.).			
G.	,				
(Agraulos)Ptsd.	Oweni, Hayden ?	Dacota Territory, N.			
Sa.		America.	No the Control of the	0.000	
	planus, B. F. Shumard	Burnet Co., Texas.			and the first own in
Lst.No. 1, Queb.	subclavatus, Billings.	Point Levi (Can. E.).			
G.			distribution of the		
	Texanus, B. F. Shumard	Burnet Co., Texas.		THE THE PARTY OF	
Potsd. Sa.	- 1-3 TT 11	1177	A Transmission		
		Wisconsin.		1000	
.91 99	" B. F. Shumard. Arraphus, Angelin, 185		24	THE PARTY NAMED IN COLUMN	artists of the second
Reg. D, E		2 (HARPES).	(Swed.) Mt. Olleberg.		Sweden?
	Asaphus, Brongniart, 1	822 (including Isory			o il cacia i
Pleta, Reg. C	acuminatus, Boeck	C22 (including 1801)	Norway, Sweden, Rus-	1-10	
			sia, Esthonia.		
Up. Tremad	affinis, M'Cov.	(N. Wales) Portma-			
		doc, Cae-Ednyfydd			The state of the s
701	and the same of th	&c.			
Pleta	angustifrons, Dalm		Réval, Kunda (Balt.),	7	
			Poulkova &c. (Rus-		
		Marine Marine	sia).		
	auriculatus, Barr		Bohemia.		
	Barrandei, Hall				
			Mary's River (L.		
	Boliviensis, D'Orb		Superior). Rolivia (S. America)		
en 1	brevicaudatus, E. de Beaum		(Normanda) Man		
	D		(Normandy) May.		
*********	Brongmarti, "		" "		
	200 200 200 200 200 200 200 200 200 200		Labottonen Foot and		
U. Slate	Canadensis. Chanman		Lakerinron, page our		
U. Slate Div. F, G, H, I,		Newfoundl.W., Point	LakeHuron, East end (Canada E.).		
		Newfoundl.W., Point Rich, Kitley (Can.	(Canada E.).		

Subdivision.	Genera, Species, and Author.	Primordial.	Lower Stage.	Middle Stage.	Upper Stage.
Ut. Slate?	caudatus, Chapmar		Collingwood Town-		
	The state of the s		ship (Canada W.).		
Pleta	centron, D. de Leuchtenl)	St. Petersb., Paulowsk		
		A CONTRACTOR OF THE PROPERTY O	(Russia).		
	Cianus,		(Spain) Huerto del		
			Llano.		
	contractus, Verr		(Sp.)Ciudad Reale&c.		
	cornutus, ,,	(0) 0 1 12	Russia.		
Queb. G	curiosus, Billing	. (Can.) Standridge.	n .		
	Delphinus, Lawrov		Russia.		
21-4-	Desmaresti, Sharpe	· ······	(Portugal) Vallongo.		
Pleta	devexus, Vern., Eichw		(Portugal) Vallongo,		
Pleta	dilatatus, Eichw		I. Odinsh. (Balt.). I. Odinsholm (Balt.).		
Teta	Emodi, Salter		Himalaya, Niti (Ind.).		
	expansus, Wahlent	(referred to CRYPTO-	Siles Sweden Nor-		
,,	expansus, wanten	NEMUS).	way, (Russ.) Rops-		
		inaco).	cha, Tosna &c., Es-		
			thonia, Isles Roog		
			and Odinsholm.		
3., Tr	extans,				
			York, Canada W.		
	extenuatus, Dalm		(Ostrog.) Heda, Hus-		
			byfjol, &c.		
Reg. C	fallax, ,,		Sweden, Ljung.		
	frontalis, ,,		(Ostrogoth) Ljung.		
	glabratus, Salter				The state of the s
			W.Asturia, Portug.		
st. 3, Queb. G.		Point Levi (Can. E.).			
., Reg. A, B.		Norway.			
arad	Guettardi, Brongu				
			May,(Portug.)Val-		
74 00 4	er iii miii		longo.		
Jt. Slate					
The state of the s	Heros, Dalman				
			(Ostrog.),(Dalecar-		
Jt. Slate	Hineksii Billings		lia) L. Siljan. Canada.		
Jp. Tremad. Sl.	Homfravi Salter	N. Wales, Penmorfa,	Canada.		
(P.).	ikomitayi, banci	Garth, &c.			
iv.N=Pt.Levi,	Huttoni. Billings	control, dec	Canada,(Newfoundl.)		
Queb. G.			Tablehead.		
letal	nvorrhinus, Vern		(Russ.) Humelasaari,		
			Ropscha.		
st. 3, Queb. G.	llænoides, Billings	Point Levi (Can. E.).			
auna D. d. 3 i	ngens, Barr		(Bohemia) Wesela on		
			Mount Drabow.		
aradi			Tramore (Waterf.).		
r.?			(Iowa) Turkey River.		
			Russia.		
arad			Sweden, Ireland.		
leg. D, W	ævigatus, Angel		(Sweden) Vestra, Be-		
	V		storp.		
lan			(Wales) Builth.		
			New York.		
leta	atus, Pander		(Russia) Tosna, Rop-		
	nammillatus, D.D.Owen		scha, &c. Up.MississippiRiver		
H., BL			(N. York) Chazy Vill.		
arad.			Shropshire.		
remad		RamsayIsle,Tremain-	- inoponite		
	11	here (S. Wales).			
iv. N, P. = Pt.	Morrisii. Billings	Newfoundland West,			
Levi, Queb. G.	Ziming-	Tablehead &c.			
	nivalis, Salter	Labiencad de.	Himalaya (India).		
d. 2, 3, 4, 5.			(Bohem.) Lieben, Lo-		
			denitz, Neumatel,		
			Trubin, Wolmitz		
5			&c.,(Spain) Puenta		
			de las Ovejas, Chil-		
			lon, &c.		
r	nodostriatus, Hall		(N.York)Watertown.		
I. R. G	notans, Billings		(Anticosti) Engl. Hd. (Anticos.)GamacheB.	
H., BL	obtusus, ,,	(N. York) Chazy Vill.			
many monant					

Subdivision.	Genera, Species, and Author.	Primordial.	Lower Stage.	Middle Stage.	Upper Stage.
Pleta Div. P, Poir Levi, Queb. (nt Pelops, Billing	Newfoundland, Isl. o Orleans, N.E. end (Canada E.).	f		
Ling. Fl	peltastes, Salte	r. St. David's, S. Wales	Llandeilo, Builth, &c. (Wales).		
CH.,B.,BL.,Tr Ut.Sl., H.R.G		5.	(Can.W.) Humber R., (Can. E.) Murray Bay, (Anticosti) English Head, Rus-		
	platynotus, Dalm		sia, I. Dago (Balt.). (Vestrogoth)Mt.Mos-		
Pleta	platyurus, Angel		(Sweden) Kinne-		
Div. N, P,Queb	quadrati-caudatus, Bill	Newfoundland West, Tablehead &c.	kulle, Œland.		
Carad			(Ireland) Louth		
Reg. C	=expansus var. raniceps Dalman		Sweden, (Russ.) Poul- kova, Tosna &c., Es- thonia.		
Carad Reg. C	rimulosus, Angel		(Swed.) Ostrog., Hus- byfiol.		
Pleta	rotundifrons, Hoffman. Schlotheimi, Eichw		Russia. (Russia)Tosna, Rops- cha &c., (Esthonia) Réval, D'Erras,&c.		Ledbury (Hereford shire).
Carad	scutalis, Salter. Selwynnii, ,,		(Ireland) Tyrone (Wales) Tahirion,		
Tremad	Sulzeri? Dalm.	Solva (S. Wales).			
	Vulcani, Murch.		Russia ?, Corndon Hills (England).		
Pleta, Dolom. L.			(Russia) Popowa &c., Isles Odinsholm, Dago, Gatchina.		
Pleta L. H. G. ?	sp. ind. Shumard.		(Russia) Popowa &c.		Up.MississippiRiver
Р	Atops, Emmons, 1844. punctatus, Emmons.	(N.York)Washington Co., Vermont?	(California).		
,,	trilineatus, Atractopyge, Corda, 1 Barrandia, M [*] Coy, 184	847 (see Cybele). 9.			
Llan	longifrons, Salter.	Abereiddy Bay, Pem- brokeshire.	(W.)Builth,Radnors.		
			Wales.		
			Brittany) Angers, Vi- tré, (Port.) Oporto. Cardigansh. (Wales).		
			Wales) Moel Siabod, Penmachno, (West- moreland) Raven-		
Llan	tyrannus, "	(stone Dale. Wales) Lampeter, R. Towy &c., (Russia) Czarskselo, (Dale-		
	D	*	carlia) Lake Siljan, (S.W. Scotl.) Pee- bles-shire.	1	
P	Bathyurellus, Billings,	Vermont (N.W.). 1865.			
Div. F, G, H, Queb.G. $=$ CS.	abruptus, Billings.	Newfoundl. W. and Keppel Island. Stanbridge (Can. E.).			

Subdivision.	Genera, Species Author.	s, and	Primordial.	Lower Stage.	Middle Stage.	Upper Stage.
Div.P, Queb.G. = CS.	formosus,	Billings.	(Newfoundland W.) Cowhead.			
	fraternus,					
		99	Point Levi (Can. E.).			
	litoreus,	**	Point Levi (Can. E.).			
Div. F, G, H	marginatus,	>>	Newfoundland W.,			
	1.17		Keppel Island &c.			
" P. Queb.	nitidus,	99	(Newfoundland W.)			
$G_{\cdot} = CS_{\cdot}$			Cowhead.			
,, ,, ,,	rarus,	"	Point Levi (Can. E.).			
	validus,	**	(Newfoundland W.)			
			Point Rich.			
	Bathyurus,	Billings,		and the same of th		
	ampli-marginatus,			Mingan Isles (G. St.		
				Lawr.).		
CH	Angelini			Lower Ottawa River		
OH	Angenni,	27				
Out C	ananatus.		No Ough St Antains	(Can.E.),Grenville.		
Queb. G		22	Nr. Queb., St. Antoine.			
Lst. No.1, Queb.	armatus,	12	Point Levi (Can. E.).			
G.						
" " " "	bi-tuberculatus,	"	" "			
Div. G, H, ,,	breviceps,	22	(Newfoundland W.)	The second second		
			Tablehead.			
Lst. 3, 4, ,,	capax,	,,	Point Levi (Can. E.).			
	caudatus,	,,	(Newfoundland W.)			
			Port au Choix.			
CS. "	conicus,	,,	Newfoundland, Beau-			
,,	comency	"	harnois (Can. E.)			
			&c.,(N.York) Com-			
			stock's Landing.			
Div. P, CS	Cowlei		Point Levi, Phillips-			
NV. 1, CO	Cordai,	***				
			burg (C. E.), New-			
			foundland, Cow-			
00	0.1.1		head.	N: 71 D		
CS	Cybele,	***		Mingan Isles, Beau-		
				harnois (Can. E.),		
				Lower Ottawa (Ca-		
				nadaE.), NewYork,		
				Vermont.		
		humard.	Burnet Co., Texas.			
Lst. 3, Queb. G.	dubius,	Billings.	Point Levi (Can. E.).			
Tr		,,		Deschambault (C.E.).		
P	gregarius,	,,	NewfoundlandSouth.			
CS		,,		Mingan Isles (G. St.		
		,,		Lawr.).		
Div. F, G, H,	Nero.	"	Newfoundl. N. & W.,			
Queb. G., CS.		"	Keppel Island &c.			
InLst.No.2, "	oblonous		Point Levi (Can. E.).			
P. Potsdam	norrolus	**	Straits Belleisle, For-			
L. Lotettaill	partuus,	27	teau Bay (Labrad.)			
Potadom	nomlorus					
Potsdam	perplexus,	31	Bonne Bay, New-			
			foundland W.			
,,	perspicator,	17	St. Antoine, Quebec			
0 1 0			(drift).			
Queb. G		**	Point Levi (Can. E.).			
Div.P, Queb. G.	Saffordi,	19	Point Levi and Phi-			
			lipsburg (Can. E.),			
			Newfoundl. N. W.,	1 2 2		
			Cowhead.			
P., Potsd	senectus,	"	(Labrador) Straits			
100000000000000000000000000000000000000			Belleisle, Forteau			
-00.00			Bay.	The second secon		The same
B., BL	Smithii,	"		(Can. W.) Peterbor.,		
				Lake Ontario.		
Queb. G	solitarius.		Newfoundland, Hare		Manager 19	5-1
		27	Bay (drift).			
B., BL., Tr	sniniger			(Can. W.) Lindsay	7/1	The state of the s
D., D.D., 11	epanger,	"		Township.		
Ouch G	etronnue		St Antoine Onel			
Queb. G	strenuus,	"	St. Antoine, Quebec			
Div C H O.	Timon		(drift).			
Div.G,H, Queb.	Timon,	33	Newfoundl. W., Port		The second second	
G., CS.	. 1		au Choix.			
Div. B, C, P.	vetulus,	33	Newfoundland W.,	0.000		
Potsdam.			Bonne Bay.			
100-01/05/10000			66 (see Asaphus).	2012 (23)		
				Incland		
	recent one,	COPUOCK.	******************	Trending.		

Subdivision.	Genera, Spec		Primordial.	Lower Stage.	Middle Stage.	Upper Stage.
	Bronteopsis,	Salter, M	S. 1865.			Maria Maria
market Care	Thomsoni,		1040	S. Scotland.	- 21	
	Bronteus,	Goldfuss,	1843.	No. of the last of	THE RESERVE	(D.1) T
Fauna F	angusticeps,	Barr.	•••••		••••••	(Bohem.) Koniepru Mnienian.
Donton Tot	Barrandei, n. s.	Hall				(N.York) Schohar
Pentam. Lst., L. H. G.	Darrandel, n. s.	man.	***************************************			County.
3. g. 1	Billingsii	Barr				(Bohemia) Chotec
J. g. 1	Dimingon,	Louis I.				Luzetz.
	Bischoffi,	Romer.				Lower Harz (Giebel
Fauna F						(Bohemia) Lodeni
						Konieprus, Mni
	and the second					nian.
" F, G. g. 1	Brongniarti,	,,				(Bohemia) Mnienia
3.4						Listice, Luzetz, D
				THE RESERVE TO VICTORY		mily, &c.
" F	campaniferus,	Beyrich.				(Bohemia) Mnienia
	C	D:11:				Konieprus.
G ~ 1	Canadensis, Clementinus,					Gaspé (Canada). (Bohem.) Wiskocilk
13	colehs					Koniepri
	Dormitzeri,	"				
	Edwardsii,	"			1	The same of the same
" F		,,				" Koniepru
		,,			119	Mnienian.
" G. g. 1	extremus,	,,				(Bohem.) Tetin.
	formosus,	"				,, Dvoretz, Loc
7						kov, Slivenetz, W
						kocilka.
11 11	furcifer,	Corda.				,, Schvagerk
				The second second		Chotecz.
,, G Pentam.Lst.?	gracilis,	Eigher.	***************************************		Altai 2	Bonemia.
Fauna E. e. 1						
" F				***************************************		" Konieprus.
Carad.		Portl.		(Irel.) Desertcreate.		,, itemopras
Fauna G. g. 1				(2701) 2 0001010101		" Dvoretz,(Estho
Corall. Lst		Eichw.				W.) Isle of Worm
Div. 4, A. Gr	**	Billings.			Anticosti Island.	
Fauna F	Kutorgai,	Barr.				(Bohemia) Bubowi
						Lodenitz.
Carad	The second of th			Sweden.	2 3 3 3	
Fauna G	= signatus,	Phill.				Bohemia.
	T					
Cr."	lunatus.	Billings.		Nova Scotia, (C. W.)	•••••	"
	remeter,	zamilgo.		Ottawa City,(C.E.)		
		1000	Asserted Michelle	Murray Bay.		1000 TO 1000 TO 1000
Fauna G. g. 1	magus,	Barr.				(Bohem.) Lochkov.
" G	Memnon,	.,,				Bohemia.
Viag		Hall.				(N.York) Niag. Fal
Fauna E. e. 1						(D-1) 11 : :
,, F		Corda.				(Bohem.) Mnienian
	occasus, Winch. Orbignyanus,					Chicago (Illinois).
	palifer,	Barr.				Bohemia. (Bohem.) Koniepru
" F	Patrice,	"				Mnienian.
" E. e. 1, 3	Partchii.	"			(Bohem.) Butowitz	(Bohemia) Wohran
,,		"			(Donouil) Discourter	Lochkov, Lodenit
		121			and the same	Kozel, &c.
					(Bohem.) Lodenitz.	(Bohem.) Kozel, R
" E. e. 1?	planus,	Corda.				tinka, St. Iwan, &
Lancas and Control	Mallane Y					tilling, De. Lwaii, O
Reg. E	platyactin,					
Reg. E	platyactin, polyactin,	Angel.				(Sweden) Gothland
Reg. E	platyactin, polyactin,	Angel.				(Sweden) Gothland (Bohem.) Mount D
Reg. E Fauna G. g. 1	platyactin, polyactin, porosus,	Angel.		·······		(Sweden) Gothland (Bohem.) Mount D mily, Tetin.
Reg. E	platyactin, polyactin, porosus, pustulatus,	Angel.				(Sweden) Gothland (Bohem.) Mount D mily, Tetin. (Boh.) Tetin, Slicho
Reg. E	platyactin, polyactin, porosus, pustulatus, Richteri,	Angel. Barr.				(Sweden) Gothland "Bohem.) Mount D mily, Tetin. (Boh.) Tetin, Slicho (Bohem.) Luzetz.
Reg. E	platyactin, polyactin, porosus, pustulatus, Richteri, sculptus,	Angel. Barr.				(Sweden) Gothland "Bohem.) Mount D mily, Tetin. (Boh.) Tetin, Slicho (Bohem.) Luzetz. Bohemia.
Reg. E	platyactin, polyactin, porosus, pustulatus, Richteri, sculptus,	Angel. Barr.				(Sweden) Gothland "(Bohem.) Mount D mily, Tetin. (Boh.) Tetin, Slicho (Bohem.) Luzetz. Bohemia. (Bohem.) Koniepru
Reg. E	platyactin, polyactin, porosus, pustulatus, Richteri, sculptus, Sieberi,	Angel. Barr.				(Sweden) Gothland "(Bohem.) Mount D mily, Tetin. (Boh.) Tetin, Slicho (Bohem.) Luzetz. Bohemia. (Bohem.) Koniepru Mnienian.
Reg. E	platyactin, polyactin, porosus, pustulatus, Richteri, sculptus, Sieberi, signatus,	Angel. Barr.				(Sweden) Gothland "(Bohem.) Mount D mily, Tetin. (Boh.) Tetin, Slicho (Bohem.) Luzetz. Bohemia. (Bohem.) Koniepru Mnienian. Esthonia, (Engl.) A
Reg. E	platyactin, polyactin, porosus, pustulatus, Richteri, sculptus, Sieberi, signatus, = laticauda.	Angel. Barr. "" "" Phill.				(Sweden) Gothland "(Bohem.) Mount Demily, Tetin. (Boh.) Tetin, Slichov (Bohem.) Luzetz. Bohemia. (Bohem.) Koniepru Mnienian. Esthonia, (Engl.) Ay mestry.
Reg. E	platyactin, polyactin, porosus, pustulatus, Richteri, sculptus, Sieberi, signatus,	Angel. Barr.				(Sweden) Gothland "(Bohem.) Mount D mily, Tetin. (Boh.) Tetin, Slicho (Bohem.) Luzetz. Bohemia. (Bohem.) Koniepru Mnienian. Esthonia, (Engl.) A

W	rinatus, signis, Hall. rinatus, signis, Hall. rinatus, Salter.	(see Homalonotus).	Canada, (N. York) Hogansburg.	Scotland (S.W.).	Bohemia. (Bohem.) Konieprus (Bohem.) Konieprus (France)Low.Loire (Bohem.) Mnienian. (Bohem.) Wonoklas Slivenetz, Lochkov Dvoretz, Karl stein, &c. (Bohem.) Dvoretz Lochkov, Slichow Bubowitz, Mnie nian &c. (Bohem.) Konieprus Sardinia, Engl. (West morel.), Scotl., An ticosti, Canada (L Huron, East end) N.York (Rocheste &c.), Tennessee (De catur Co.), N. & S Wisconsin. (Engl.) Malvern. England, Upper Mis sissippi. Gothland.
F	rinatus, signis, Hall. rinatus, signis, Hall. rinatus, Salter.	(see Homalonotus).	Canada, (N. York)	Scotland (S.W.).	(Bohem.) Koniepru (Bohem.) Koniepru (France) Low. Loir (Bohem.) Mnienian. (Bohem.) Wonokla. Slivenetz, Lochkov Dvoretz, Kar. stein, &c. (Bohem.) Dvoret Lochkov, Slichov Bubowitz, Mnienian &c. (Bohem.) Koniepru Sardinia, Engl. (Wes morel.), Scotl., Ar ticosti, Canada (I Huron, East end N.York (Rocheste &c.), Tennessee (De catur Co.), N. & S Wisconsin. (Engl.) Malvern. England, Upper Mississippi.
Fauna F Fauna F Fauna F Tr	ppei, amastes, Murchison, 1 arriensis, Hall. rinatus, signis, Hall. rcullumi, Salter, Emmons. atymene, Erongniart, alymene, Erongniart,	(see Homalonotus).	Canada, (N. York)	Scotland (S.W.).	(Bohem.) Konieprus (France)Low.Loire (Bohem.) Mnienian. (Bohem.) Wonoklas Slivenetz, Lochkov Dvoretz, Karl stein, &c. (Bohem.) Dvorets Lochkov, Slichov Bubowitz, Mnie nian &c. (Bohem.) Konieprus Sardinia, Engl. (Wes morel.), Scotl., Ar ticosti, Canada (I Huron, East end N.York (Rocheste &c.), Tennessee (De catur Co.), N. & S Wisconsin. (Engl.) Malvern. England, Upper Mis sissippi.
Fauna F. tra "" Vis "" Vis "" Zip Bu Niag. Ba W. car ins Reg. E Lin Tr. Tr Bu Ca act act act	ator, ", ppei, ", amastes, Murchison, 1 arriensis, Hall. rinatus, Salter. signis, Hall. Cullumi, Salter, rentonensis, Emmons. urmeisteria, 1865 alymene, Brongniart,	(see Homalonotus).	Canada, (N. York)	Scotland (S.W.).	(Bohem.) Mnienian. (Bohem.) Wonoklas Slivenetz, Lochkov Dvoretz, Karl stein, &c. (Bohem.) Dvoretz Lochkov, Slichow Bubowitz, Mnie nian &c. (Bohem.) Konieprus Sardinia, Engl. (West morel.), Scotl., An ticosti, Canada (I Huron, East end N.York (Rocheste &c.), Tennessee (De catur Co.), N. & & Wisconsin. (Engl.) Malvern. England, Upper Mis sissippi.
W. car ins Reg. E Lin Tr. Tr	ator, ", ppei, ", amastes, Murchison, 1 arriensis, Hall. rinatus, Salter. signis, Hall. Cullumi, Salter, rentonensis, Emmons. urmeisteria, 1865 alymene, Brongniart,	(see Homalonotus).	Canada, (N. York)	Scotland (S.W.).	(Bohem.) Wonoklas Slivenetz, Lochkov Dvoretz, Karl stein, &c. (Bohem.) Dvoretz Lochkov, Slichow Bubowitz, Mnie nian &c. (Bohem.) Konieprus Sardinia, Engl. (West morel.), Scotl., An ticosti, Canada (I Huron, East end N.York (Rocheste &c.), Tennessee (De catur Co.), N. & & Wisconsin. (Engl.) Malvern. England, Upper Mis sissippi.
W. car ins Reg. E Lin Tr. Tr Bu Ca act act act	ppei, amastes, Murchison, 1 arriensis, Hall. rinatus, Salter. signis, Hall. Cullumi, Salter, rentonensis, Emmons. urmeisteria, 1865 alymene, Brongniart,	(see Homalonotus).	Canada, (N. York)	Scotland (S.W.).	Slivenetz, Lochkov Dvoretz, Karl stein, &c. (Bohem.) Dvoretz Lochkov, Slichow Bubowitz, Mnie nian &c. (Bohem.) Konieprus Sardinia, Engl. (West morel.), Scotl., An ticosti, Canada (I Huron, East end N.York (Rocheste &c.), Tennessee (De catur Co.), N. & S Wisconsin. (Engl.) Malvern. England, Upper Mis sissippi.
W. car ins Reg. E Lin Tr. Tr Bu Ca A Ca A A Ca A A Ca A A Ca act act act act	ppei, amastes, Murchison, 1 arriensis, Hall. rinatus, Salter. signis, Hall. rCullumi, Salter, rentonensis, Emmons. alymene, Brongniart,	(see Homalonotus).	Canada, (N. York)	Scotland (S.W.).	Dvoretz, Karl stein, &c. (Bohem.) Dvoretz Lochkov, Slichow Bubowitz, Mnie nian &c. (Bohem.) Konieprus Sardinia, Engl. (West morel.), Scotl., An ticosti, Canada (I Huron, East end N.York (Rocheste &c.), Tennessee (Do catur Co.), N. & S Wisconsin. (Engl.) Malvern. England, Upper Mis sissippi.
W. car ins Reg. E Lin Tr. Tr Bu Ca A Ca A A Ca A A Ca A A Ca act act act act	ppei, amastes, Murchison, 1 arriensis, Hall. rinatus, Salter. signis, Hall. rCullumi, Salter, rentonensis, Emmons. alymene, Brongniart,	(see Homalonotus).	Canada, (N. York)	Scotland (S.W.).	stein, &c. (Bohem.) Dvoretz Lochkov, Slichow Bubowitz, Mnie nian &c. (Bohem.) Konieprus Sardinia, Engl. (West morel.), Scotl., An ticosti, Canada (I Huron, East end N.York (Rocheste &c.), Tennessee (De catur Co.), N. & S Wisconsin. (Engl.) Malvern. England, Upper Mis sissippi.
W. car ins Reg. E Lin Tr. Tr Bu Ca A Ca A A Ca A A Ca A A Ca act act act act	ppei, amastes, Murchison, 1 arriensis, Hall. rinatus, Salter. signis, Hall. rCullumi, Salter, rentonensis, Emmons. alymene, Brongniart,	(see Homalonotus).	Canada, (N. York)	Scotland (S.W.).	Lochkov, Slichow Bubowitz, Mnie nian &c. (Bohem.) Konieprus Sardinia, Engl. (West morel.), Scotl., An ticosti, Canada (I Huron, East end N.York (Rocheste &c.), Tennessee (De catur Co.), N. & S Wisconsin. (Engl.) Malvern. England, Upper Mis sissippi.
W. car ins Reg. E Lin Tr. Tr Bu Ca act act	rinatus, Salter. signis, Hall. roundströmi, Angel. Cullumi, Salter, rentonensis, Emmons. urmeisteria, 1865 alymene, Brongniart,	(see Homalonotus).	Canada, (N. York)	Scotland (S.W.).	Bubowitz, Mnie nian &c. (Bohem.) Konieprus Sardinia, Engl. (West morel.), Scotl., An ticosti, Canada (I Huron, East end N.York (Rocheste &c.), Tennessee (De catur Co.), N. & S Wisconsin. (Engl.) Malvern. England, Upper Mis sissippi.
W. car ins Reg. E Lin Tr. Tr Bu Ca act act	rinatus, Salter. signis, Hall. roundströmi, Angel. Cullumi, Salter, rentonensis, Emmons. urmeisteria, 1865 alymene, Brongniart,	(see Homalonotus).	Canada, (N. York)	Scotland (S.W.).	nian &c. (Bohem.) Konieprus Sardinia, Engl. (West morel.), Scotl., An ticosti, Canada (I Huron, East end N.York (Rocheste &c.), Tennessee (De catur Co.), N. & & Wisconsin. (Engl.) Malvern. England, Upper Mis sissippi.
W. car ins Reg. E Lin Tr. Tr Bu Ca act act	rinatus, Salter. signis, Hall. roundströmi, Angel. Cullumi, Salter, rentonensis, Emmons. urmeisteria, 1865 alymene, Brongniart,	(see Homalonotus).	Canada, (N. York)	Scotland (S.W.).	(Bohem.) Konieprus Sardinia, Engl. (West morel.), Scotl., An ticosti, Canada (I Huron, East end' N.York (Rocheste &c.), Tennessee (De catur Co.), N. & S Wisconsin. (Engl.) Malvern. England, Upper Mis sissippi.
W. car ins Reg. E Lin Tr. Tr Bu Ca act act	rinatus, Salter. signis, Hall. roundströmi, Angel. Cullumi, Salter, rentonensis, Emmons. urmeisteria, 1865 alymene, Brongniart,	(see Homalonotus).	Canada, (N. York)	Scotland (S.W.).	Sardinia, Engl. (West morel.), Scotl., An ticosti, Canada (I Huron, East end) N.York (Rocheste &c.), Tennessee (De catur Co.), N. & S Wisconsin. (Engl.) Malvern. England, Upper Mis sissippi.
W. car ins Reg. E Lin Tr. Tr Bu Ca act act act	rinatus, Salter. signis, Hall. Cullumi, Salter, rentonensis, Emmons. urmeisteria, 1865 alymene, Brongniart,	(see Homalonotus).	Canada, (N. York)	Scotland (S.W.).	morel.), Scotl., Anticosti, Canada (I Huron, East end N.York (Rocheste &c.), Tennessee (Docatur Co.), N. & S Wisconsin. (Engl.) Malvern. England, Upper Mississippi.
Reg. E Lin Tr. Tr Bu Ca act act	rinatus, Salter. signis, Hall. ndströmi, Angel. 'Cullumi, Salter, rentonensis, Emmons. urmeisteria, 1865 alymene, Brongniart,	(see Homalonotus).	Canada, (N. York)	Scotland (S.W.).	morel.), Scotl., An ticosti, Canada (I Huron, East end N.York (Rocheste &c.), Tennessee (De catur Co.), N. & S Wisconsin. (Engl.) Malvern. England, Upper Mis sissippi.
Reg. E Lin Tr. Tr Bu Ca act act	signis, Hall. ndströmi, Angel. 'Cullumi, Salter, rentonensis, Emmons. urmeisteria, 1865 alymene, Brongniart,	(see Homalonotus).	Canada, (N. York)	Scotland (S.W.).	ticosti, Canada (I Huron, East end N.York (Rocheste &c.),Tennessee (Do catur Co.), N. & S Wisconsin. (Engl.) Malvern. England, Upper Mis sissippi.
Reg. E Lin Tr. Tr Bu Ca act act	signis, Hall. ndströmi, Angel. 'Cullumi, Salter, rentonensis, Emmons. urmeisteria, 1865 alymene, Brongniart,	(see Homalonotus).	Canada, (N. York)	Scotland (S.W.).	N.York (Rocheste &c.), Tennessee (De catur Co.), N. & & Wisconsin. (Engl.) Malvern. England, Upper Mis sissippi.
Reg. E Lin Tr. Tr Bu Ca act act	signis, Hall. ndströmi, Angel. 'Cullumi, Salter, rentonensis, Emmons. urmeisteria, 1865 alymene, Brongniart,	(see Homalonotus).	Canada, (N. York)	Scotland (S.W.).	&c.), Tennessee (De catur Co.), N. & S Wisconsin. (Engl.) Malvern. England, Upper Mis sissippi.
Reg. E Lin Tr. Tr Bu Ca act act	signis, Hall. ndströmi, Angel. 'Cullumi, Salter, rentonensis, Emmons. urmeisteria, 1865 alymene, Brongniart,	(see Homalonotus).	Canada, (N. York)	Scotland (S.W.).	catur Co.), N. & S Wisconsin. (Engl.) Malvern. England, Upper Mis sissippi.
Reg. E Lin Tr. Tr Bu Ca act act	signis, Hall. ndströmi, Angel. 'Cullumi, Salter, rentonensis, Emmons. urmeisteria, 1865 alymene, Brongniart,	(see Homalonotus).	Canada, (N. York)	Scotland (S.W.).	Wisconsin. (Engl.) Malvern. England, Upper Mis sissippi.
Reg. E Lin Tr. Tr Bu Ca act act	signis, Hall. ndströmi, Angel. 'Cullumi, Salter, rentonensis, Emmons. urmeisteria, 1865 alymene, Brongniart,	(see Homalonotus).	Canada, (N. York)	Scotland (S.W.).	(Engl.) Malvern. England, Upper Mis sissippi.
Reg. E Lin Y M' Tr. Tr Bu Ca act act	ndströmi, Angel. 'Cullumi, Salter, rentonensis, Emmons. urmeisteria, 1865 alymene, Brongniart,	(see Homalonotus). 1822.	Canada, (N. York)	Scotland (S.W.).	sissippi.
Tr	Cullumi, Salter, rentonensis, Emmons. urmeisteria, 1865 alymene, Brongniart,	(see Homalonotus). 1822.	Canada, (N. York)	Scotland (S.W.).	sissippi. Gothland.
Tr	Cullumi, Salter, rentonensis, Emmons. urmeisteria, 1865 alymene, Brongniart,	(see Homalonotus). 1822.	Canada, (N. York)	Scotland (S.W.).	Gothland.
Tr. Tr. Bu	entonensis, Emmons. urmeisteria, 1865 alymene, Brongniart,	(see Homalonotus). 1822.	Canada, (N. York)	Scotland (S.W.).	and a
Bu Ca act acu	urmeisteria, 1865 alymene, Brongniart,	(see Homalonotus). 1822.			proti
Ca act act	alymene, Brongniart,	1822.			
act					
act	inura Dalm				
				75918	
			(France) La Manche		Coain 9
Fauna D. d. 1, Ar. Carad.	ago, nouaun.		St. Leonard, La		Spain :
			Sarthe &c., Spain,		
and the same			Portugal, (Bohem.)		
0 1 77 77 07	Annal Lengtons		Rokitzan.		
Carad., W., E.e.2 Ba	lylei, Barr.			(Bohemia) Wahrada	GoldenGrove(Wales
hol	llatula, Sow.		Llandeilo.	&c.	N. Gothland, Russia
	umenbachii, Blumenb.				
Llan., Carad.,			England, Ireland,		
Llandov., W.,			S.W. Scotl., Pent-	(Britain) Wrekin,	hem.) Slichow &c
L. Corall. Lst.			land Hills, (Wales)		France, (Esthonia
			Dolwyddelan &c., Onny River, Nova		Isle Oesel, England Ireland, Scotland
			Scotia, New York,		(Wales) Craig-hi
			Anticosti Isle.		&c., N. Brunswick
the motion to				Diff. direct	Nova Scotia, Ten
				- 110	nessee, &c.
	var. Allportiana, Salter.		(N. & S. Wales) Craig-		Dudley.
	,, Cambrensis, Saiter.		y-Glyn, Shropsh.		
	" Caractaci, "		Ireland, (Wales) Ma-		
	"		thyrafal, Scotland,		
angel day	The sale of the sale of		Shropshire.	100	****
Comit	,, Niagarensis, Hall.		N	•••••	Wisconsin, U.Misssis
Carad FaunaD,Carad., bro		•••••	Norway. Bohemia, Ireland,		
Llandov., W.	evicapitata, Fortiock.		Shropshire, West-		
234413011, 111			moreland, Esthon.,		Marie Land
	the same of the sa		(N. Wales) Den-		
	Management of		bighshire, Wrex-		Control of the second
			ham &c., S.W.Scot-		
201	llicenhale Green		land, Girvan. New York.		
	llicephala, Green. merata, Hall.		New York.		(N. York) Schoh. Co
Schoharie.	merow, Hall.				Loray Bollour Co
H. R. G Ch	hristyi, Hall.		(Ohio)Cincinnati,Ox-		
	- Adams - Adam		ford (Canada E.).	N T	
CL., Niag Cl	lintoni, "			(N. York) Herkimer	Pennsylvania.
	monhthalma D. 1		Poulkora (Pussia)	Co., Cayuga Co.	
W Da	nophthalma, Boeck.		Poulkova (Russia).		Builth (Wales).

Subdivision.	Genera, Specie Author		Primordial.	Lower Stage.	Middle Stage.	Upper Stage.
Fauna D. d. 3	declinata,	Corda.		(Bohemia) Beraun,		
	and the same of th	2000		Kosow.		
Pleta	denticulata,			Poulkova (Russia).		1 - C - O T
L.Lud.,Faun. E				***************************************		Acton, Scotl., Leint
	= subdiademata,	M'Coy.				(Bohem.) St. Iwan
				The state of the state of		Listice, Lodenitz
			adhermu (Inni)			Wiskocilka, Wah
						rada.
Llan., Carad.,	duplicata,	Murch.	Abereiddy Bay (S.	Wales (Pencerrig,		Bohemia.
Fauna E.	Fischeri,	W	Wales).	Builth), Ireland.		
	r ischeri,	vern.		(Ostrogoth.) Ljung		100
				&c.		10
auna D.d. 3,4,5.	incerta,	Barr.		(Bohemia) Praskoles,	and the same	
		100000000000000000000000000000000000000		Wotmitz, (Belg.)		
-				Gembloux, Lieben,	The second second	1
P.C. a.1				Radausch, &c.		(Pohomie) Tookkor
,, F, G. g. 1	interjecta,	31		***************************************	***************************************	(Bohemia) Lochkov Luzetz, Damily
						Dvoretz,
W	macrophthalma,	Murch.				Norw., Dudley (Eng.
Maria de la companya	=Portlockii.					
	mammillata,	Hall.		Wisconsin, N.A.		
D	minuta,					
В	multicosta,	Hall.		plain.		
Low. Sil	nivalie	Salter		Himalaya Niti (E.I.)	MILL.	The Park of the Pa
Carad						
			Stoly Toles (1914)	byfjol.	Mark and the	
L.Llan	parvifrons,	Salter.		(Wales) Merioneth-		- Market Land
	25 11			shire, Shropshire.		
,,	var. Murchison	11, ,,		Stiper Stones (Shrop- shire), (N. Wales)		
	100			Taihirion &c.		or a summing
Fauna D	parvula.	Barr.		(Bohem.)Mt.Drabow.		
	pediloba,	Ræmer.		?	THE RESERVE THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLU	
	polytoma,	Dalm.		Russia.		
W., L	pulchella,	Hising.		Periver Quarries,		(Gothl.) Djupviken.
	pulchra,	Vous		Cornwall.		
	punctata.					N. Gothland, Russia
Tremad			Ramsey Isle &c. (S.			
			Wales).		No. of the last of	
Carad	Salteri,	Rouault.		(France) Vitré, La		
T. H D C		C		Hunandière.		
Tr., H. R. G	senaria,	Conrad.		Ireland, Engl., Can. W., N.York, Ohio,		
			GAG ING	N.W. Michigan,		April I man in the
				Penns., L. St. John		
			William William	(Can. E.), Montmo-		
			L least and All miles	renci, Missouri,		
			and the same of th	Wisconsin, Red R.,		
Carad	conov	Salter.		Rupert's Land. (England) Budleigh	Marie	
O-681 68-067 1.11111111111111111111111111111111111	schea,	Barrer.		Salterton(pebbles).		
	spectabilis,	Angel.				Sweden, Esthonia.
	tenera,	Barr.			(Bohemia) Dlauha	1
E. e. 1, 2				(Spain) Toledo Mns.,	Hora.	
E. e. 1, 2				(Spain) Toledo Mas		
E. e. 1, 2	transiens,	Verneuil.	••••			
E. e. 1, 2				Romeral, &c.		
E. e. 1, 2 Carad				Romeral, &c. (France) Angers, La-		production and the
E. e. 1, 2				Romeral, &c.		
E. e. 1, 2				Romeral, &c. (France) Angers, La- manche, Mt.Roule, Cherbourg, La Sar- the, May, (Spain)		i pawa
E. e. 1, 2				Romeral, &c. (France) Angers, La- manche, Mt.Roule, Cherbourg, La Sar- the, May, (Spain) W. Asturia, Ciudad		p.1.77.3
E. e. 1, 2				Romeral, &c. (France) Angers, La- manche, Mt. Roule, Cherbourg, La Sar- the, May, (Spain) W. Asturia, Ciudad Real, Sierra Mo-		p.1.77.3
E. e. 1, 2				Romeral, &c. (France) Angers, La- manche, Mt. Roule, Cherbourg, La Sar- the, May, (Spain) W. Asturia, Ciudad Real, Sierra Mo- rena, (Portugal)		D 1 77 3
E. e. 1, 2	Tristani,	Brongn.		Romeral, &c. (France) Angers, La- manche, Mt. Roule, Cherbourg, La Sar- the, May, (Spain) W. Asturia, Ciudad Real, Sierra Mo-		(Engl)Undarbayean
E. e. 1, 2	Tristani,	Brongn.		Romeral, &c. (France) Angers, La- manche, Mt. Roule, Cherbourg, La Sar- the, May, (Spain) W. Asturia, Ciudad Real, Sierra Mo- rena, (Portugal)		. (Engl.)Underbarrow Kendal, Aymestry
E. e. 1, 2 Carad Woolh., W., L	Tristani,	Brongn.	Ramsey I., Tremain-	Romeral, &c. (France) Angers, La- manche, Mt. Roule, Cherbourg, La Sar- the, May, (Spain) W. Asturia, Ciudad Real, Sierra Mo- rena, (Portugal)		Kendal, Aymestry
E. e. 1, 2 Carad Woolh., W., L Tremad	Tristani, tuberculosa,Bronvexata,	Brongn.	Ramsey I., Tremain- here,&c.,(S.Wales).	Romeral, &c. (France) Angers, La- manche, Mt.Roule, Cherbourg, La Sar- the, May, (Spain) W. Asturia, Ciudad Real, Sierra Mo- rena, (Portugal) Vallongo, England.		Kendal, Aymestry
E. e. 1, 2 Carad Woolh., W., L	Tristani, tuberculosa,Bronvexata,	Brongn. gn.&Salt. Salter. Hall.	Ramsey I., Tremain- here,&c. (S.Wales).	Romeral, &c. (France) Angers, La- manche, Mt. Roule, Cherbourg, La Sar- the, May, (Spain) W. Asturia, Ciudad Real, Sierra Mo- rena, (Portugal)		Kendal, Aymestry Ludlow, (Wales

Subdivision.	Genera, Species, and Author.	Primordial.	Lower Stage.	Middle Stage.	Upper Stage.
Carad	sp. ind. Jermyn St.Mus	eu m	Gorvan Haven, Corn	wall.	
	" Ba	rr	Gembloux(Belgium).		
	" Selwy	n	Victoria (Australia).	Annal India	
	., На	11.			Arisaig (NovaScotia)
	Carmon, Barrande, 1	85 0.			
	mutilus, Ba	T			Bohemia.
Page C	Celmus, Angelin, 18	52 = Proetus, Steining	er.		
neg. C	Contropleura Angel	el. in, 1852 [=(in part)Dik	(Swed.) Ostrogotnia.	t\ Danananana	
B C	angusticandata	Norway	ELOCEPHALUS, (in par	t) PARADOXIDES].	
,, ,,	angusticaudata, dicræura, Ang serrata, Sa	el. Sweden			
,, ,,	serrata. Sa	rs. Norway.			
" "	Ceratopyge (see On	EN US).			
	Ceraurus, Green, 18:	2 (see Cheirurus).			
	Chariocephalus, He	dl, 1863.			
Potsd. Sa	Whitfieldii, Ha	ll. Trempaleau (Wis-			
	Ch	consin).			
	Chasmops, M'Coy (s	PHACOPS).			
Inflamm.Schist.	Cheirurus, Beyrich,	w	(Esthania) D'Essas		
	affinis, Ang	el.	(Pussia) Poulkova		
	annue, Ang		(Baltic) Réval.		
Lst. No. 2,	Apollo, Billin	gs. Point Lévis (Can.E.).	(Danielo) Atovai.		
Queb. G.				Hall to the second	
Red Lst	approximatus, Eich	w			Bogoslofsk, Ural.
Fauna E	Beyrichii, Ba	rr			(Bohemia) Dlauha
					Hora.
" E.e.l	bifurcatus, ,				
		. It was to be a second to be a seco		Ratinka.	
Carad., ULlan-	bimucronatus, Mur	2h	(Engl.) Leisley, West-	(England) Newbury,	N. York, (Tennessee
dov., W., LL.			moreland, N. & S. Wales, Bala Lake,		Decat. Co., Dudley
			Sholes Hook.	Castell, Craig-	Ledbury (Engl.) Ireland.
			Sholes Hook.	Gwyddon.	Treianu.
W	var. centralis, Salt	er		Gwyddoll.	Dudley (Ketley)
Carad			(Irel.) Chair of Kild.		Laurey (Laurey).
Fauna D		h			
			Wesela, &c., (Brit-		
		the state of the s	tany) Vitré &c.		
Reg. E	conformis, Ang	el			Gothland.
Fauna F	Cordai, Ba	rr.	(D-144) Wit-1 f-		(Bohem.) Konieprus
		lt		7	Kozor, &c.
Queb. Gr	Erry Rillin	ga. Point Lévis (Can.E.)	Ivussia.		
guess on	mys, Dillin	Phillipsburg?		10.4	
Pleta&c., Reg. C	exsul, Angel		(Swed.) Œland, (Es-		
	Beyri	ch.	thon.) Réval, D'Er-		
			ras, Odinsholm.		
Up. Tremad	Frederici, Salt	er. Tremadoc, Llanerch,	Baltic Drift.	-7	E-UT
0 3	1.0	&c.	(T-1) (D (0.77)		
Carad	gelatinosus, Po	tl			
P C a 1	aibhna D	ch	Scotl.) Craighead.	The District of the Control of the C	(Roham) Vaniar
F, G. g. 1	gibbus, Beyri	CII.			(Bohem.) Konieprus Listice, &c.
F. G	var. interrupta, Ba	rr			Bohemia.
Compact Pleta,		el	(Sweden) Dalecarlia		
Reg. D. E			(Balt.) Isle Dago.	I have all to	
Pleta	gladiator, Eicl	w	Odinsholm, I. Réval.		- L.J. v. 1
Queb. Gr	glaucus, Billin	gs. Stanbridge (Can. E.)			m
Fauna E	Hawlei, Ba	rr		Bohemia?	
H. R. G		gs		Anticosti, S.W.Point.	
D. d. 4, E	insignis, Beyri	ch	Bruska, Motol.		and the or william
			Gross-Kuckel.	Koledine, &c.	
CL., W., A. Gr.	н	11.		Anticosti.	
	insocialis. Be	rr.	(Bohem.) Kosow Mts.		
	1				
Yellow-grey Sc., fauna D.		ga	(Russia) Poulkova,		
Yellow-grey Sc., fauna D.	macrophthalmus, Kutor		Kopscha, Réval &c.		
Yellow-grey Sc., fauna D.					
Yellow-grey Sc., fauna D. Pleta	Marianus, Ve	rn.	(Spain) Ciudad Real.	Charles and the section	
Yellow-grey Sc., fauna D. Pleta	Marianus, Ve	gs. (Newfoundland W.)	(Spain) Ciudad Real.		
Yellow-grey Sc., fauna D. Pleta Div. P, Queb. G.	Marianus, Ve Mercurius, Billin	gs. (Newfoundland W.) Cowhead.	(Spain) Ciudad Real.		(Pohomin) II at
Yellow-grey Sc., fauna D. Pleta Div. P, Queb. G.	Marianus, Ve Mercurius, Billin minutus, Ba	gs. (Newfoundland W.) Cowhead.	(Spain) Ciudad Real.		(Bohemia) Hostin.
Yellow-grey Sc., fauna D.	Marianus, Ve Mercurius, Billin minutus, Ba mitis, Salt	gs. (Newfoundland W.) Cowhead.	(Spain) Ciudad Real. Himalaya, Niti (Ind.).		(Bohemia) Hostin.

Subdivision.	Genera, Spec	cies, and r.	Primordial.	Lower Stage.	Middle Stage.	Upper Stage.
Div. 3, A. Gr.	nuperus,	Billings.			(Anticosti)EastPoint.	
Mayhill. E. e. 1	obtusatus,	Corda.			(Bohemia)Luzetz,Lo- denitz, Tachlowitz,	
	. 11	25.0		* 1 G (1 (W. 1)	Wiskocilka.	
Carad	octo-lobatus,	M'Coy.	••••••	Irel., Scotl., (Wales) Rhiwlas, Cerrig- y-Druidion.		
	ornatus,	Angel.		, , , , , , , , , , , , , , , , , , , ,		
F, G. g. 1	pauper,	Barr.				Husbyfjol. (Bohemia) Mnieniai
L.Llan Div.N, Queb. G.	pectinatus,	Billings	(Newfoundland W.)	Shelve, Cefn Gwynnle.		Luzetz.
		and the same	Tablehead.		(Anticosti) Junction	
Div. 1, A. Gr., BL., Tr., Ut.		Green.		Mid-Ottawa River,	Cliff.	
Slate, H. R. G.				Tennessee, Mis- souri, N. Wisconsin,		
D: N DO 1	D-1-1-	Dilli	(N	Anticosti.		
Div. N, P,Queb. G.	Polydorus,	Billings.	(Newfoundland W.) Tablehead.	All the second second		
CH. or BL	Pompilius	**		Mingan Isles (G. St. Lawr.).		
Chazy & Queb.	prolificus,	19	(Newfoundland W.)			ATTOMICS PLEASE
Gr. Reg. D-E	punctatus,	Angel.	Cowhead, Can. E.	Sweden		Sweden.
Fauna E	Quenstedti,	Barr.				(Bohemia) Dlauh Hora, Luzetz, Tach
Black foliated			· · · · · · · · · · · · · · · · · · ·			lovitz, Wohrada
Schist, fauna D Inflamm. Schist.	scutiger.	Eichw.		(Esthonia) D'Erras.		Hinter - Kopanina Wiskocilka.
Llan				(Wales) Builth, Pem- brokeshire.		
Div. N,P, Queb.		Billings.	(Newfoundland W.)			
G.=Pt.Lévis.	solitarius,	,,	Tablehead. St. Antoine (drift),			
	enonioene		Quebec.			Smaden
Reg. E	and the second s	Dalman.		Réval (Baltic).		
E,F,G.g. 1, 2, H Fauna D	Sternbergii, tumescens,	Boeck. Barr.		(Bohemia) Trubin,	Bohemia	(Bohemia) Dlaur Hora, Koniepru
Pleta				Kosow, &c. (Russia) Narva &c.,	2 3	Davoretz, Branil Hluboceps, Che
		Angel.		Borekholm (Esth.). (N.York)Middleville.		tecz, Bubowit
Tr Queb. G	vigilans, Vulcanus,	Hall. Billings.	Stanbridge (Can. E.),	(N.York)Middleville.		Karlstein, &c.
			(Newfoundl.) Cow- head.			
Up. Bala	Williamsi,	M'Coy.		Golengoed, Myddfai		
Pleta	Zembnitzkii,	Eichw.		(Wales). (Russia) Poulkova.		
	sp. ind.	M'Coy.		(Portugal) Vallongo	Victoria (Australia).	
	37	Swallow.			***************************************	Missouri (U.S.A.)
3	Conocephali	is (see Co	NOCORYPHE).		Victoria (Australia).	
Up.Ling. Flags.			847 = Conocephalite (Wales) Griccieth.	s, Zenker.		
Div.B,C, Potsd.		Billings.	Highgate, Swanton,			
Sa. Potsd. Sa	anatina,	Hall.	N.W.Verm. (U.S.). Trempeleau, L. Pepin			
	antiquata,		(Wisconsin). N.W. Vermont(U.S.).			
LingulaFlags	applanata,	Hicks.	(S. Wales) St. David's.			
Potsd. Sa Ling. Flags			N.W.Vermont(U.S.). (S.Wales) St. David's.			
Potsd. Sa		Shumard.	(Texas) Burnet Co. Up.Mississippi River,			
			Oceola Mills.			The state of the s
	Chippeway-ens	18, ,,	Up. Mississippi River, River Chippeway.			
Fauna C	coronata,	Barr. Zenker	(Spain, Leon) Sabero, (Bohemia) Skrey.		Park Blue Street	
	Dalmanni	Angel	Norway?			
Reg. B L. Tremad			(Wales) Tremadoc,			

Subdivision.	Genera, Speci Author		Primordial.	Lower Stage.	Middle Stage.	Upper Stage.
Potsd. Sa	diademata,	Hall.	N. Wisconsin) Kick-			
			apoo Marine Mills,			
2000	dorsalis,		River St. Croix. Up.MississippiRiver.			
auna C	Emmerichii,		Bohemia.			
Potsd. Sa	Eos,		N.Wisconsin) Trem-			The same of the same
	F		peleau.			
,,	Eryon,	"	(N.Wisconsin) La Crosse, Trempe-			
			leau.			
Reg. B			Norway.			
Potsd. Sa	hamulus,	Hall.	(N.Wisconsin) Me- nisca, Trempeleau.			
Ling. Flags	humerosa,	Hicks.	(S.Wales)St. David's.			
U.Ling. Flags			(Wales) Penmorfa			
T Date & Co	Tomoreio	II.11	Church.			
L.Potsd. Sa	Towensis,	Han.	Iowa, (Wisc.) Trem- peleau, RiverRoot.			
,,	minor,	Shumard.	(Wisconsin) Black			
		T 11	River, Trempelcau.			
"	minuta,	Bradley.	Keeseville (N. York), Vermont? N. Wis-			
			consin.			
Potsd. Sa	misera,	Billings.	(Labrador) Belleisle			Annual Property
			Straits, Forteau			
,,	nacta,	Hall.	Bay &c. Wisconsin.			
	nasuta,	,,	" Kickapoo R.			
Up.Tremad,	olenoides,	Salter.	(Wales) Garth, Port-			
Potsd. Sa	ontata	Hall	madoc. North Wisconsin,			
	Oweni,		(N.Wiscons.) Marine		47	
	Andrew Mary		Mills, St.CroixRiv.			
,,	Pattersoni,	***	(N.Wisconsin) Trem-			
	Perseus,	,,	peleau. (N.Wisconsin) Chip-			
,,	Leading	,,	peway and Kick-			
		0.11	apoo Rivers.		The same of the sa	
Up.Ling. Flags P			(Wales) Moel Gron. (Spain, Leon) Sabero.			A CONTRACTOR OF THE PARTY OF TH
Potsd. Sa			(N.Winscons.) Kick-			
			apoo Marine Mills.			
Fauna C	socialis,	Billings.	(Bohemia) Slap, Gi-			
rauna C	- striata,	Dari.	netz, Czilla.			
,,	. Sulzeri,		(Bohemia) Czilla,			
		Schloth.				
Div.B,C,Potsd.			(Spain, Leon) Sabero. Vermont (U.S.A.),		Total Value	
Sa.			Swanton.			
Ling. Flags			Porth-y-raw (S. W.).			
Up.Tremad	. verisimins,	"	(Wales) Tremadoc, Penmorfa.			
	. vexata,	",	,, ,,			
	. Vulcanus,	Hall	(Vermont) Highgate,	the present of the		
	. Winona,		Swanton. (Wisconsin) Black			
,,	. Willowa,	,,	River.			- OF BUILD
,,	. Wisconsensis,	Shumard	. (Wisconsin) Trem-		Name of the last	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	1		peleau, Chippeway			
Lst. No.1, Quel	Zenkeri.	Billings	River. PointLévis (Can.E.).			
G.	- Lacinaci,	26.	Tomesers (cumas).			- Harrison
D . 3 0	sp. ind.		Hof (Bavaria).			
Potsd. Sa			Texas (U.S.A.). Newfoundland.			
	17	Dinings 11	Missisquoi, L. Cham-		The same of the	
* * * * **			plain (Can. E.)			
L.Ling. Flags.		Salter	Criccieth (Wales).		The same of	A COLOR
U.Ling.Flags,	. "	Plant	Moel Gron (Wales).			
100	Corynexoch	us, Angel	in, 1852 (in part only	=ARIONELLUS, J.V	V. S.).	
Reg. B	spinulosus,		. (Scania) Andrarum.			
" С	umbonatus, Crepicocepi	halus "D	D. Owen, 1852.	(Scania) Fagelsang.		
	OT OBTOOCH!	ment thing I'.	are courting account			

Subdivision.	Genera, Species, and Author.	Primordial.	Lower Stage.	Middle Stage.	Upper Stage.
Potsd	Wisconsensis,	Wisconsin, Pennsyl-			
	H. B. Rogers	vania.			
,,		N. Wisconsin.			
Fauna E	Cromus, Barrande, 185	2.	Employed Control of the Control of t	(Roham) Butowitz	(Rohamia) Lookkov
rauna E	Beaumontal, Barr			(Donem.) Dutowitz.	Tobolka, &c.
,,	Bohemicus, ,,				(Bohemia) Kozor Lochkov, Wohrada
E. e. 1 &c				(Bohemia) Butowitz,	Lochkov.
E. e. 1	transiens, ,,		***************************************	(Bohemia) Reporyje, Leiskow, Wohrada, Dlauha-Hora.	
	sp. ind		Gembloux(Belgium).		
	sp. ind. Crotalurus, Volborth, 1	858 (see Sphærexocii	us).		
	Barrandei, Volborth.		Russia.		
	Cryptonomus, Eichwai		RUS and ASAPHUS).		
Cound	Cybele, Lovén, 1845 = A	TRACTOPYGE, M'Coy.	(Tenland) Cominh		
Carad	arenosa, M'Coy.		(Ireland) Carrick Adaggan.		
9	bellatula, Dalm.				
Reg. D-E	brevicauda, Angel.				
				Osmondberg.	
" ?	dentata, ,,			Norway.	
Pleta &c	parallela, Eichw.		(Russia) Poulkova.		
OT THE	** "	A THE WHOLE	D'Erras (Esthon.).	(N.V. 1. M. 1. V.)	Dist C0 -01
CL., W	punctata, Hall.			(N.York) MedinaVil-	Bishops Castle, Shrop
				lage, Reynal's Ba- sin.	shire.
	Fletcher				Dudley (England)
Carad	rugosa. Portlock.		(Lancash.) Coniston.		budies (England).
			(Westmorel.) Ra-		
		ANNUAL YEAR TO A	venstone Dale,(Ire-		
			land)Carrick Adag-		
			gan, Swed(Wales)		
	someostata Saltan		Meifod &c.		
	sexcostata, Salter. variolaris, Brongn.		Daia, Iviii wias (IV. VV).		Dudley, (W.) Builth
Carad., L.Llan-	verrucosa. Dalm.		Norway, Swed., (Irel.)		Dunier, (111) Danier
dov.			Dublin, Waterford,		
			S.W.Scotl.,(Shrop-	4 4 4	
			shire) Acton Scott,		
lan	and Caltan		(W.)CarneddDafydd		
ман	sp. ind. Saiter.		Arenig Hills, S. side, S. Wales.		
Carad			Denbighsh., (Wales)		
	" "		Cerrig-y-Druidion.		
	Cyphaspis, Burmeister,	1843.			
Faunæ F,G. g. 1	Barrandei, Corda.				(Bohemia) Mnienian
					Lochkov, Slichow
DE	Burmeisteri, Barr.		Bohemia(colony, Be-	(Rohamia) massim	Hostin, Tetin. (France)LowerLoire
11 A/4 A/4 acces	Durmeistert, Darr.		ranka),(Spain)Ciu-	(Donomia) passem.	(Trance) Lower Loire
			dad Real.		
Fauna F	Cerberus, "				(Bohemia) Mnienian
Fauna F	Cerberus, "				" Dvoreta
Fauna F, G. g. 1	Cerberus, ,, convexus, Corda.				Lochkov. Dvoretz
Fauna F, G. g. 1	Cerberus, ,,, convexus, Corda.				,, Dvoretz Lochkov. (Bohemia) Vavrovitz
Fauna F, G. g. 1 ,, G. g. 2 ,, F	Cerberus, ,,, convexus, Corda. coronatus, ,, Davidsoni, ,,				,, Dvoretz Lochkov. (Bohemia) Vavrovitz ,, Mnieniar
Fauna F, G. g. 1 ,, G. g. 2 ,, F	Cerberus, ,,, convexus, Corda.			(Bohemia) Listice,	,, Dvoreta Lochkov. (Bohemia) Vavrovita ,, Mnieniar
Fauna F, G. g. 1 ,, G. g. 2 ,, F	Cerberus, ,,, convexus, Corda. coronatus, ,, Davidsoni, ,,				,, Dvoretz Lochkov. (Bohemia) Vavrovitz ,, Mnieniar
Fauna F, G. g. 1, F, F, E	Cerberus, ,,, convexus, Corda. coronatus, ,,, depressus, ,,, elegantulus, Lovén.			(Bohemia) Listice, Tachlowitz, Woh- rada, &c.	Lochkov. (Bohemia) Vavrovitz ,, Mnieniar Sweden, Isle Oese
Fauna F, G. g. 1, F, F, E	Cerberus, ,,, convexus, Corda. coronatus, ,,, depressus, ,,,			(Bohemia) Listice, Tachlowitz, Woh- rada, &c.	Lochkov. (Bohemia) Vavrovitz ,, Mnieniar Sweden, Isle Oese Karral(Balt.), Dud
Fauna F, G. g. 1, F, F, E	Cerberus, ,,, convexus, Corda. coronatus, ,,, depressus, ,,, elegantulus, Lovén.			(Bohemia) Listice, Tachlowitz, Woh- rada, &c.	Lochkov. (Bohemia) Vavrovitz ,, Mnieniar Sweden, Isle Oese Karral(Balt.), Dud ley (Ketley MSS.)
Fauna F, G. g. 2, F, E	Cerberus, ,,, convexus, Corda. coronatus, ,,, depressus, ,,, elegantulus, Lovén. Angel.	· · · · · · · · · · · · · · · · · · ·		(Bohemia) Listice, Tachlowitz, Woh- rada, &c.	" Dvoretz Lochkov. (Bohemia) Vavrovitz " Mnieniar Sweden, Isle Oese Karral(Balt.), Dud ley (Ketley MSS. Malvern.
Fauna F	Cerberus, ,,, convexus, Corda. coronatus, ,,, depressus, ,,, elegantulus, Lovén. Angel. Girardeau-ensis, Shumard.			(Bohemia) Listice, Tachlowitz, Woh- rada, &c.	" Dvoret. Lochkov. (Bohemia) Vavrovit. " Mnieniar Sweden, Isle Oese Karral(Balt.), Dud ley (Ketley MSS. Malvern. Missouri (U.S.A.).
Fauna F	Cerberus, ,,, convexus, Corda. coronatus, ,,, depressus, ,,, elegantulus, Lovén. Angel. Girardeau-ensis, Shumard. Halli. Barr.			(Bohemia) Listice, Tachlowitz, Woh- rada, &c.	" Dvoretz Lochkov. (Bohemia) Vavrovitz " Mnienian Sweden, Isle Oese Karral(Balt.), Dud ley (Ketley MSS. Malvern. Missouri (U.S.A.). (Bohemia) Dlauh
Fauna F, G. g. 2, F, E	Cerberus, ,,, convexus, Corda. coronatus, ,,, depressus, ,,, elegantulus, Lovén. Angel. Girardeau-ensis, Shumard. Halli. Barr. humillimus, Barr.	,		(Bohemia) Listice, Tachlowitz, Woh- rada, &c.	" Dvoret. Lochkov. (Bohemia) Vavrovit. " Mnieniar Sweden, Isle Oese Karral(Balt.), Dud ley (Ketley MSS. Malvern. Missouri (U.S.A.).
Fauna F, G. g. 2, F, E Corall. Lst., W.	Cerberus, , , , , , , , , , , , , , , , , , ,		Thuringia (Giebel).	(Bohemia) Listice, Tachlowitz, Woh- rada, &c.	Lochkov. (Bohemia) Vavrovitz ,, Mnienian Sweden, Isle Oesel Karral(Balt.), Dud ley (Ketley MSS.) Malvern. Missouri (U.S.A.). (Bohemia) Dlauh Hora.
Fauna F, G. g. 2, F, E	Cerberus, , , , , , , , , , , , , , , , , , ,		Thuringia (<i>Giebel</i>). England, Shropshire, Morrell's Wood,	(Bohemia) Listice, Tachlowitz, Woh- rada, &c.	(Bohemia) Vavrovitz ,, Mnienian Sweden, Isle Oesel Karral(Balt.), Dud ley (Ketley MSS.) Malvern. Missouri (U.S.A.). (Bohemia) Dlauha Hora.
Fauna F, G. g. 2, F, E Corall. Lst., W. L.Held. G Fauna E	Cerberus, , , , , , , , , , , , , , , , , , ,		Thuringia (<i>Giebel</i>). England, Shropshire,	(Bohemia) Listice, Tachlowitz, Wohrada, &c. (Bohemia) Listice. England, (Ireland)	Lochkov. (Bohemia) Vavrovitz ,, Mnienian Sweden, Isle Oesel Karral(Balt.), Dud ley (Ketley MSS.) Malvern. Missouri (U.S.A.). (Bohemia) Dlauh Hora. (Engl.) Dudley, Lud

Subdivision.	Genera, Species, and Author.	Primordial.	Lower Stage.	Middle Stage.	Upper Stage.
Fauna E	novellus, Barr.				(Bohemia) Dlauha
					Hora, Wohrada.
Pleta	planifrons, Eichw.		D'Erras (Esthonia).		
Carad., W	pygmæus, n. s. Salter.		Wexford (Ireland)		(England) Malvern
	Cyphoniscus, Salter, 1	852.			Eastnor Castle.
Carad	socialis, Salter.		(Ireland) Chair of		
			Kildare.		
	Cyrtometopus, Angeli	n, 1852 (Cheirurus).			
Reg. C	affinis, Angelin.		(Swed.) Ostrogothia.		
,, ,,	The state of the s		11		
" D	decacanthus, Angel.		" Vestrogothia.		
" C	diacanthus, ,,				
" D	foveolatus, ,,		" Munkester.		
" C	gibbus, ,,		" Husbyfjol.		
" D	longispinus, "		" Mount Kin-		
The second second		The second second	nekulle.		
,, ,,	octacanthus, ,,		,, ,,		
" C	serobiculatus, "		,, Scania.		
" D. a?	The state of the s				
	Dalmania, Emmerich, 1				
Tr	Achates, Billings.		(Canada W.) Ottawa		
			River, Marmora.		
	affinis, Salter.		Ch. Stretton (Shrop-		
			shire).		
Very Mica.Sch.,	Angelini, Barr.		(Bohem.) Popowitz,		
fauna D			Stromky, Gross-		
			Kuchel.		
D. d. 1	atava,		(Bohemia) Rokitzan.		(T) 1 1 2 T
G. g. 1	auriculata, Dalm.				(Bohemia) Karlstein
Trent	Bebrix, Billings.		(Canada W.) Ottawa		Luzetz, Hostin, &
			City, Marmora, N.		
			York.		
	callicephalus, Hall.		N. York, Missouri.	*** 1	T 1 T 1 C (
Cor. Lst., Niag.,	caudata, Brunn.		(Esthon.) Wesenberg,	Wales	Irel., Engl., Scotl
Pleta, W.	Phacops.		Jewe.		I. Oesel, Chesaare
					Pank, (Canada W.
					Welland Cana
a .					Tennessee.
G. g. 1	cristata, Corda.				(Bohem.) Lochkov.
D 1 0	Danæ, Meek & Worthen		(D.)	•••••	Thebes, Alexander Co
D. d. 3	Deshayesii, "				(Illinois).
D 4 9 4	Jubia Danu		Trubin.		
D. d. 2, 4	dubia, Darr.		(Bohem.) Zarhorzan,		
			Lodenitz, Ra-		
			dausch, Stromky,		
	Dujawlini Pangult		Sterboholy. (France) Angers, La		
	Dujardini, Rouault				
			Couyère, (Spain)		
		A TOTAL STREET	Peralejo,SierraMo- rena.		
Inflamm. Shale.	orilia Fisher		D'Erras and Tolks		
mannin. Shale.	earns, Eichw				
			(Esthonia).		(Bohemia) Karlstei
G a l	Eletcheri Rown			•••••	Dworetz, Lochko
G. g. 1	Fletcheri, Barr		The second secon		
G. g. 1	Fletcheri, Barr				Luzerz.
					Luzetz. (Bohemia) Dworet
	Hausmanni, Dalm.				(Bohemia) Dworet
F, G. g. 1	Hausmanni, Dalm.				(Bohemia) Dworet Wiskocilka, Lock
F, G. g. 1	Hausmanni, Dalm.				(Bohemia) Dworet Wiskocilka, Lock
F, G. g. 1 D. d. 2	Hausmanni, Dalm.: Hall. Hawlei, Barr		(Bohemia) Wesela.		(Bohemia) Dworet Wiskocilka, Lock
F, G. g. 1 D. d. 2	Hausmanni, Dalm.		(Bohemia) Wesela. (France) Domfront,		(Bohemia) Dworet Wiskocilka, Lock
F, G. g. 1 D. d. 2	Hausmanni, Dalm.: Hall. Hawlei, Barr		(Bohemia) Wesela. (France) Domfront, Budleigh Saltert.,		(Bohemia) Dworet Wiskocilka, Lock
F, G. g. 1 D. d. 2 Carad	Hausmanni, Dalm.; Hall. Hawlei, Barr incerta, Deslongchamps		(Bohemia) Wesela. (France) Domfront, Budleigh Saltert., Devonshire.		(Bohemia) Dworet Wiskocilka, Loek kov, N. York &c.
F, G. g. 1 D. d. 2 Carad	Hausmanni, Dalm.; Hall. Hawlei, Barr incerta, Deslongchamps		(Bohemia) Wesela. (France) Domfront, Budleigh Saltert.,	New York, Isle Fitz-	(Bohemia) Dworet Wiskocilka, Loel kov, N. York &c.
F, G. g. 1 D. d. 2 Carad	Hausmanni, Dalm.; Hall. Hawlei, Barr incerta, Deslongchamps		(Bohemia) Wesela. (France) Domfront, Budleigh Saltert., Devonshire.	New York, Isle Fitz- william, L. Huron,	(Bohemia) Dworet Wiskocilka, Loel kov, N. York &c.
F, G. g. 1 D. d. 2 Carad Tr., CL., MSa.	Hausmanni, Dalm.: Hall. Hawlei, Barr incerta, Deslongchamps limulurus, Hall		(Bohemia) Wesela. (France) Domfront, Budleigh Saltert., Devonshire. New York	New York, Isle Fitz- william, L. Huron, East end.	(Bohemia) Dworet Wiskocilka, Loel kov, N. York &c.
F, G. g. 1 D. d. 2 Carad Tr., CL., MSa. L. H. G	Hausmanni, Dalm. Hall. Hawlei, Barr incerta, Deslongchamps limulurus, Hall Logani, ,,		(Bohemia) Wesela. (France) Domfront, Budleigh Saltert., Devonshire. New York	New York, Isle Fitz- william, L. Huron, East end.	(Bohemia) Dworet Wiskocilka, Loci kov, N. York &c.
F, G. g. 1 D. d. 2 Carad Tr., CL., MSa.	Hausmanni, Dalm. Hall. Hawlei, Barr incerta, Deslongchamps limulurus, Hall Logani, ,,		(Bohemia) Wesela. (France) Domfront, Budleigh Saltert., Devonshire. New York	New York, Isle Fitz- william, L. Huron, East end.	(Bohemia) Dworet Wiskocilka, Lockov, N. York &c. Arisaig (Nova Scotia (Bohemia) Karlstei
F, G. g. 1 D. d. 2 Carad Tr., CL., MSa. L. H. G G. g. 1	Hausmanni, Dalm, Hall. Hawlei, Barr incerta, Deslongchamps limulurus, Hall Logani, " Maccoyi, Barr		(Bohemia) Wesela. (France) Domfront, Budleigh Saltert., Devonshire. New York	New York, Isle Fitz- william, L. Huron, East end.	(Bohemia) Dworet Wiskocilka, Loci kov, N. York &c. Arisaig (Nova Scotia (Bohemia) Karlstei Luzetz,Schvagerk
F, G. g. 1 D. d. 2 Carad Tr., CL., MSa. L. H. G G. g. 1 Div. 1, A. Gr.,	Hausmanni, Dalm, Hall. Hawlei, Barr incerta, Deslongchamps limulurus, Hall Logani, " Maccoyi, Barr		(Bohemia) Wesela. (France) Domfront, Budleigh Saltert., Devonshire. New York	New York, Isle Fitz- william, L. Huron, East end.	(Bohemia) Dworet Wiskocilka, Loci kov, N. York &c. Arisaig (Nova Scotia (Bohemia) Karlstei Luzetz,Schvagerk
F, G. g. 1 D. d. 2 Carad Tr., CL., MSa. L. H. G G. g. 1	Hausmanni, Dalm. Hall. Hawlei, Barr incerta, Deslongchamps limulurus, Hall Logani, Maccoyi, Barr macroura? Angel		(Bohemia) Wesela. (France) Domfront, Budleigh Saltert., Devonshire. New York	New York, Isle Fitz- william, L. Huron, East end.	(Bohemia) Dworet Wiskocilka, Loel kov, N. York &c. Arisaig (Nova Scotia (Bohemia) Karlstei Luzetz,Schvagerk
F, G. g. 1 D. d. 2 Carad. Tr., CL., MSa. L. H. G G. g. 1 Div. 1, A. Gr., Llandov.	Hausmanni, Dalm. Hall. Hawlei, Barr incerta, Deslongchamps limulurus, Hall Logani, Maccoyi, Barr macroura? Angel meta, D. D. Owen		(Bohemia) Wesela. (France) Domfront, Budleigh Saltert., Devonshire. New York New York N. Wisconsin.	New York, Isle Fitz- william, L. Huron, East end. (Anticosti) Junction Cliff.	(Bohemia) Dworet Wiskocilka, Loel kov, N. York &c. Arisaig (Nova Scotia (Bohemia) Karlstei Luzetz,Schvagerk
F, G. g. 1 D. d. 2 Carad Tr., CL., MSa. L. H. G G. g. 1 Div. 1, A. Gr., Llandov. Delth. Shale &	Hausmanni, Dalm. Hall. Hawlei, Barr incerta, Deslongchamps limulurus, Hall Logani, Maccoyi, Barr macroura? Angel meta, D. D. Owen		(Bohemia) Wesela. (France) Domfront, Budleigh Saltert., Devonshire. New York	New York, Isle Fitz- william, L. Huron, East end. (Anticosti) Junction Cliff.	(Bohemia) Dworet Wiskocilka, Loek kov, N. York &c. Arisaig (Nova Scotia (Bohemia) Karlstein Luzetz, Schvagerk (New York E.) A
D. d. 2	Hausmanni, Dalm.; Hall. Hawlei, Barr incerta, Deslongchamps limulurus, Hall Logani, Maccoyi, Barr macroura? Angel meta, D. D. Owen micrura, Hall, Conrad		(Bohemia) Wesela. (France) Domfront, Budleigh Saltert., Devonshire. New York New York N. Wisconsin.	New York, Isle Fitz- william, L. Huron, East end. (Anticosti) Junction Cliff.	(Bohemia) Dworet Wiskocilka, Lock kov, N. York &c. Arisaig (Nova Scotia (Bohemia) Karlstein Luzetz,Schvagerk

Subdivision.	Genera, Spec		Primordial.	Lower Stage.	Middle Stage.	Upper Stage.
Delth.Sh. Lst	nasuta.	Conrad				(N. York E.) Coey
						man's &c. Cos.
Carad	optusicaudata,			Coniston (Westmore- land).		
E. e. 1	orba,	Barr.			(Bohemia) Borek.	
Fauna D. 1, 2, 3, 4, 5.	Phillipsii,	Barr.		(France)Angers,(Sp.) AsturiaWest, Gua-		
0, 1, 0.				dalmos, Chillon,	more Alath pres	and the same of the
				(Bohem.) Mount Drabow, Praskoles,		
				Zahorzan, Kœ-		
Delth. Shale &	nleurontervy.	Hall.		nigshof.		Helderb. Mountain
Pentam. Lst.		and the second				(N. York) C.Gasp
	proavia, I	Smmerich.	······	France, Spain, Bo- hemia.	AL MANAGEMENT AND A STATE OF THE STATE OF TH	
F, G. g. 1-3	Reussi,	Barr.				(Bohemia) Konvarka
					W 4915	Mt. Damily, Loch kov, Tetin.
F, G. g. 1	rugosa,	Corda.				(Bohemia) Damily
Pleta	selerons	Dalm		(Russia) River Lena,		Dvoretz, Tetin.
				(Asia) Poulkova.		
D. d. 2, 3, 4, 5	socialis,	Barr.		(France) La Manche, Vitré, Trebœuf,		
				(Spain) Almaden,		
				Ballesteros &c., (Bohemia) passim.		
D (Mica Sch.).	solitaria,	**		(Bohemia) Lodenitz,		
				Gross-Kuckel, Lie- ben.		
G. g. 1	spinifera,	,,		ben.		(Bohem.) Viskocilka
					south all Mary years	Hinter, Kopar Lockhov &c.
	Torrubiæ,	Verneuil.		(Spain) Ballasteros,	2000	Locality &c.
				Puenta de las Ove- gas.	STATE OF THE PARTY OF	
Delth. Sh. Lst	tridens,	Hall.		gas.		(N. York) Schohari
	tridentifera,	Shumand			market and the same	(Missouri) Cana Gi
						rardeau.
M.Sa. &c Pleta, Carad				Canada (Esthon.)Wesenberg,		
ricia, Caraci	ir uncaso-caudau	a, I ofti.		Tyrone, (Shropsh.)	The state of the s	
				(Wales) Blain-y-		
			countil television	ewm.		
Carad	tuberculata, Votillarti			(France) Vitré, An-		Low. Harz, Germany
Caract	vecmare,	Touaur.		gers, (Spain) Bal-		
Niag	vioilane	Hall		lesteros &c.		Wisconsin
	sp. ind.	,,				(Nova Scotia) Arisaig
	" Gosselet	M'Coy.		Condros (Belgium)		Victoria (Australia)
	" Cosseiet,	de Prado.		Sierra Morena (Sp.).	The Part of the	
	Deiphon, Bar		0	(Missouri).		
W., Fauna E		Barr.				France, (Engl.) Dud
				7101 7 1017101		ley, Malvern &c. (Bohemia) St.Ivan
						Lodenitz, Listice
Reg. E	globifrons	Angel				Beraun &c.
,,	lævis,					
" D, E	punctatus, Dikelccepha	lus p"p			•••••	" "
Lst. No.2, Queb.			Point Lévis (Can.E.).			
G. Lst. No.1,Queb.	Belli.			Burney Committee		Stelland and the
and ato. a, Queo.		"	,, ,,			
G.		C1 1.	(MT-1) A 6 33	1		
G. U. Ling. Fl		Salter.	(Wales) Ogof ddu,			
	Centroplura.		Criccieth. Point Lévis (Can.E.).			

Subdivision.	Genera, Species, and Author.	Primordial.	Lower Stage.	Middle Stage.	Upper Stage.
Lst. 2, Queb. G U.Ling. Flags		Point Lévis (Can.E.) (Wales) Criccieth.			
Up. Tremad		,, Moel-y-Gest Penmorfa.			
Potsd. Sa		Minisca R. (Minnes.)			
Lst. 1, Queb. G Potsd. Sa		Point Lévis (Can.E.) Black River, near			
		Mountain Island (Mississ.) Wiscon			
State of the state of the		N. Wisconsin.			
Lst. 1, Queb. G	megalops, ,,	Point Lévis (Can.E.)		The London	
Potsdam	. Miniska-ensis, D.D.Owen	(Minnesota) Miniska River, Pennsylva- nia.			
,,	Minnesotensis, "	(Minnes.) Mazoma- nia, La Grange			
	The control of the Control of	Mt., Madison, (Wis-	The state of the s		
		consin) L.La Croix Stillwater.	Tribution of the last	in the second	
"		(Minnes.) La Grange Mountain.	To the same of the	12.	
CS., Potsd Potsd		Trempeleau, Miniska			
Queb. G		(Minnesota). Philipsburg(Can.E.)			
Potsd. Sa	Osceola, D. D. Owen	Osceola Mills (Wisconsin).	property when		The same of the same
Lst. 1, Queb. G	Oweni, Billings pauper, "	Point Lévis (Can.E.)			
Potsd. Sa	Pepinense, D. D. Owen	Pennsylv., La Grange Mtn. (Minnesota).			
Lst. No.1, Queb G.		Point Lévis (Can.E.)		SUASSIAN SALES	
Potsd. Sa Lst. No.1, Queb G.	Remeri, B. F. Shumard Selectus, Billings	Texas, Burnet &c. Point Lévis (Can.E.)			Bran Francisco
Lst. No.1, Queb G., Potsd.	Sesostris, D. D. Owen	Up.Mississippi,Point Lévis (Can. E.).		Canada and	
Calcar.Magn.S. Potsd. Sa.		Trempeleau, Wis- consin.			
U.Ling. Flags	. Salter	S. Wisconsin. Criccieth (Wales).			
Yellow-greySh. Fauna D.	Dindymene, Corda, 18 Frid-Augusti, Corda	47.	(Bohemia) Beraun.		
,, ,,	Haidingeri, Barr. Dionide, Barrande, 184	6.	39 39		the second second
L.Llan. Flags	atra, Salter.		Portmadoc.		
Faun. D (Boh.).	euglypta, Angel.		Sweden.		
Div. 4, A. Gr			Trubin, Sweden.	(Anticosti) The	
Div. 1, A. Ur	Diplorrhina (see Agno Dolichometopus, Ang	STUS).		Jumpers.	
Div.G,CS.,Queb.		(Newfoundland W.)			The second of the last
G. "	gibberulus? "	(Newfoundland W.)			
		Port au Choix, (Can. E.) Oxford.			
Reg. E	rarus, ,, Suecicus, Angel.	Phillipsb. (Can. E.)?			(Sweden) Andrarum
Llan.Fl., Reg.C.	Dysplanus, Burmeister,	1843.			
,			tiania, (Wales)Ber- wyn Mountains.		
Up. Bala, Pleta.	centrotus, Portl.		(Wales) Berwyns, Sweden, (Norway) Christiania, Irel., (Russ.) St. Petersb., (Esthon.) Jewe, Isle		
	muticus, Volborth.		Odinsholm. Russia.		and a

Subdivision.	Genera, Species, and Author.	Primordial.	Lower Stage.	Middle Stage.	Upper Stage.
	depressus, Germari, Hoffi, Pradoensis, sp. ind. De Prado. Barrande. Encrinurus, Emmerich,	er, 1833. New York. (W.)Wern. Penmorfa (Bohem.) Slap, Skrey. "Ginetz, " Toledo? (Spain). Spain. Hoff, Bavaria. 1845 (includes Cryp	•	W.S.).	Gothland? Arcti Seas (America).
	deltoideus, B.F.Shumard.				Up.MississippiRiver
Div. 4, A. Gr.	elegantulus, Billings.			(Anticosti) The Jum	pers.
w	lævis, Angel.				Sweden, Arctic Sea
Div. N,P, Queb.	mirus Billings	(Newfoundland W. &			(America).
G.		N.) PistoletBay &c.			
	multisegmentatus, Portl.	(Wales) Montgomsh., Tyrone, Ferma-	(Anticosti) Junction Cliff, Galway (Ire-	Dudley, Usk &c. (Engl.), Norway.	
	*****	nagh (Ireland).	land), (Wales).	with sites	
Carad., Lland., W., L. Pleta, Cor. Lst.		(Wales) Pwllheli &c., (Russia) L. Ladoga, (Esthonia) Wesenberg, Great	Malvern, (Anticos.) East Point, &c.	Walsall, Dudley,	
		Barr, Staffordsh.			
19 19	var. arenaceus, Brünn.			thin, Plas Madoc.	
	2 Nianale	D'E-ma Odinahalm	land).		
	rex? Nieszk.	D'Erras, Odinsholm, Wesenberg, &c. (Esthonia).			
Carad		(Wales) Bala, Haver- fordwest, S.W. Scotland.			
W	variolaris, Brongn. vigilans, Hall.		Lake St. John (Can. E.), Canada, New		(Engl.) Dudley, Usl Malvern, Ireland N. & S. Wales.
CL	sp. ind. Billings.		York.	Shickshoch Moun-	
w	Ketley.		Wisconsin (U.S.A.).	tains (Can. E.).	Dudley (England).
	" Hall.		Wisconsin (U.S.A.).		
	" Salter.			••••	Griffith's Island &c (Arctic America).
Pleta	Worthii, Eichw.	······································	Poulkova, Popova (Russia), Réval (Esthonia).	Carl Carl	(inche inche).
	Endymionia, Billings,	1865.			
Div. N,P, Queb. G.		•	Point Lévis (Can.E.), Newfoundl. N. & W., Point Rich, &c.	Seall date	
	sp. ind. Barr. Erinnys, Salter, 1865 (Happinge)	Gembloux(Belgium).	TARA IN	
Ling. Flags	venulosus, Salter.	Britain, St. David's.	700		
Reg. B	Eryx, Angelin, 1852? laticeps, Angelin.	(Scania) Andrarum,			
	Euloma, Angelin, 1852 læve, n. s. Angel.		(Sweden) Berg, Os-	Acres Training	
"В, С		And the second second	trogothia. Sweden, Mount Hun-		
	Eurycare, Angelin, 185	2 (OLENUS).	neberg, (Norway) Opslo.		
" A	angustatum, Angel.	Andrarum (Sweden).			
1.00	brevicauda, "	17 17			
,, ,,		", & Westro- gothia.	When the sounds		
	Goniopleura, Corda, 1 Harpes, Goldfuss, 1841.		Mingan Isles, (G. of		
VAL	miriquaeus, Dinings.		St. Lawr.).		

Subdivision.	Genera, Sp Auth		Primordial.	Lower Stage.	Middle Stage.	Upper Stage.
	Bischoffii,	Ræmer.				Thuringia.
Div. 4, A. Gr.,	consuetus,	Billings.			(Anticosti)S.W.Point	· · · · · · · · · · · · · · · · · · ·
Mayhill. Reg. D, E	costatus	Angel			and the same of th	(Sweden) Dalecarli
reg. D, E	costatus,					Osmundberg.
,, E	crassifrons,	Barr.				
m		72:111		25.3 0.1	tice, Viskocilka.	
Tr	Dentoni,	Billings.		Mid-Ottawa River		
Carad	Doranni.	Portlock.		(Can. W.). England, (Ireland)	El Williams	
				Desertcreate, Den-		
				bighshire, Llangol-		
Potsd. Sa.?	Facanahim	Hall	N.W. Michigan (U.	len, &c.		
I Otsu. Da. i	Liscanaolac,		S.A.).	A CONTRACTOR OF THE PARTY OF TH		
Carad	Flanagani,	Portlock.		(Irel.) Tyrone, De-		
0 1 0	C	D'III	TN 211: 1 (G T)	sertcreate.		
Queb. G W		M:Cor	Phillipsburg(Can.E.)			Dudley (Fredand)
Fauna F	Montagnei,	Corda.				(Bohem.) Koniepru
			And the second s			Suchomast.
" E						
H. R. G	Orbignyanus, Ottawa-ensis	Billings		Ottawa City (C. W.),		" Dvoretz.
11. IV. O	Cuma-cusis,	Diffings.		(Anticosti) Wreck		
				Point, English Hd.		
Carad	parvulus,	M'Coy.		(S.W. Scotl.) Wrae		
D. d. 1	nrimus	Barr	AND THE RESERVE OF THE PARTY OF	Quarry. (Bohemia) Rokitzan.	The state of the s	
BL	pustulosus,	Hall.		(N.York) Watertown.		
Fauna 4, F	reticulatus,	Corda.				
Reg. C	Camiona	Amoul	7,414	(Scania) Fagelsang		Mnienian.
Pleta	Spaskii.	Eichw.		Réval (Baltic)		sweden r
Fauna E	ungula,	Barr.			Bohemia.	
E, F, G. g. 1	venulosus,	Corda.	· ** ······		" Dlauha-Hora.	
				500		ronnière (France (Bohemia) Konie
						prus, Chotecz, Mnie
E	vittatus.	Barr			(Bohemia) Butowitz,	nian.
					Lochkov.	
Reg. D, E		Angel.		(Sweden) Dalecarlia.		Sweden.
	sp. ind.	Salter.		Merioneth, Bala Lake. Leisley (Westmorel.).		
	Harpides,	Corda, 1847.		Leisley (Westinorei.).		
Div.P, Queb. G.	atlanticus,	Billings.	Canada?, Newfound-		malfall	
			land W., Portland		Marine Since	
Reg. B	brevicens	Angel	Creek. Andrarum (Sweden).			
Div. P,Queb. G.	concentricus,		(Newfoundland W.)			
			Cowhead.			
" "	desertus,	Hall.	(Can. E.) Bedford,	4		
Fauna D. d. 1	Grimmi.	Barr	Pike River. (Bohem.) Przibram.			
Reg. B, C			(Norway) Opslo,			
			(Sweden) Mount			
Queb. G	Zenkeri	Billings	Hunneberg. (Can. E.) PointLévis.			
Queen O minim	Hemicrypt	urus. Cord	a,1847 (see ASAPHUS).			
F: 711	Holocephal	lina, Salter,	1864.			
Ling. Flags	primordialis,	Salter.	England, (S. Wales)			
			Port-y-Rhaw, St. David's.			
,,	sp. ind.	,,	(Wales) Maentwrog	- marie - mari	the state of the state of	
	TT-1		and St. David's.			
Reg. D, E	Holometopu		1852.	(Sweden)Mount Kin-		(Swed.) Vestrogothia
	derectine us,	Angel.		nekulle.		(Sieda) restrogotini
	A	Billings.	Point Lévis (Can.E.),			
Div. N, P,Queb.	Angelini,					
Div. N, P,Queb.	Angelini,		Newfoundland W.,			
Div. N, P,Queb. G.		Angol	Pt. Rich.	A STATE OF THE STA	Contract and	
Div. N, P,Queb.	elatifrons,			A STATE OF THE STA	And Landson	
Div. N, P,Queb. G. Reg. B, C	elatifrons, limbatus,	Angel.	Pt. Rich.		Charles and the same of the sa	

Subdivision.	Genera, Species, and Author.	Primordial.	Lower Stage.	Middle Stage.	Upper Stage.
Car., Llandov	Homalonotus, König,	1820.	(N. Wales) Garnedd Meifod, Capel Gar- mon, Tremadoc,&c., (Shropsh.) Acton Scott, (Westmorel.) Ravenstone Dale.		
	var. β minor, ,,				
Fauna D. d. 2 Carad	Bohemicus, Barr brevicaudatus, Deslongch		(Bohem.)Mt.Drabow. Normandy,(Budleigh Salt.) Devonshire		
Carad	Brongniarti, Deslongch		(pebbles). (France)May,(Engl.) BudleighSalterton, (Spain) Almaden, Ballesteras.		
VV.	Dawsoni, Hall			(N. V. IV. II. IV.	Arisaig(Nova Scotia
W	delphinocephalus, Green.			(N. York) Herkimer Co.	Woolhope,(Wales
~ 1					Usk, Canada, (N
Carad	Edgelli, Salter.		Isle Dago (Baltic).		York)Lockport&c Pennsyl., Virginia
L	Johannis, Salter				(Engl.) Usk, Malvern
L. H. G., Up. Ludl.	Knightii, Konig.				(Westmorel.)Kenda Ludlow, Middle
					ton Park, (Wales Radnorsh., Here fordshire, Golder Gr., Builth, (Nov Scotia) Arisaig (Hanover) Harz.
L					Bolivia, S. America. England, Wales.
	=Knightii.		1		
Tremad	minor, Römer.	Pomont to (C.W.)			Thuringia.
Reg. D, E	platynotus, Dalm.	Kamseyi. &c. (S. W.).	(Swed.) Vestrogothia, Mts. Mosseberg &		Sweden.
Carad.,Fauna D	rarus, Barr.		Olleberg. (Bohemia) Mt. Dra- bow, (Spain) Alma- den, Brittany, Nor-	WIIII Z	
Pog F	Airestannie Amerik		mandy, May.		(C
Reg. E Carad	runotropis, Angel. rudis, Salter. = Schusteri?		(Wales) Capel Gar- mon, Denbighsh., Nant Yr. &c.,(Eng- land) Shropshire.		(Swed)Scania,Klinta Gothl., Horburg Bursvick, &c.
,,	Sedgwickii, ,,		(Engl.)Budleigh Sal- terton, Devonsh.?.		
Delth. Sh. Lst.	Vanuxemi, Hall.				(N.York) Helderber
Carad	Vicaryii, Salter.		(Engl.) Budleigh Sal- terton, Devonsh.	7	Mns., Albany & Herkimer Cos.
Llan.	Vulcani, Murch.		(Engl.)Corndon Hills		
Carad	Winwoodii, Salter.		" Budleigh Sal- terton, Devonsh.		
	sp. ind. "				Illampu Mountain
,,	n n	••••••	Capel Garmon (Den- bighshire).		Bolivia (S. Amer.)
,,	27		(Engl.)Budleigh Sal-		
Tremad	"	Ramsey I.(St.David's	terton, Devonsh.		
	" "		" "		(TT) 36 3 1 TH
W Carad	", Green.				(W.) Mwdwl, Eithin New York?
	,, Dawson. Homalopteron, Salter,				Arisaig (Nova Scotia)
	Portlockii. Salter.	Wexford (Ireland).			
	radians, M'Coy.	Builth "			
	Hydrocephalus, Barr	ande, 1846.			
Fauna C	carens, Barr.	(Boh.) Skrey Schists.			
	saturnoides, ,,	" "	No.		

P

Subdivision.	Genera, Species, and Author.	Primordial.	Lower Stage.	Middle Stage.	Upper Stage.
L.Llan	Illænopsis, Salter, 1865. Thomsoni, Salter,		(Engl.) W. of Stiper Stones, Shelve, &c.		A muito
Potsd	-	Osceola Mills, St. Croix River.			
Carad.,Llandov.	Illænus, Dalman, 1826 æmulus, Salter.	(see Bumastus, Dysp	(Shropshire) Pres- teign Radnorshire.		
Tr	Americanus, Billings.		(Can. W.) Ottawa City, Lake Huron.		
BL., Tr	angusticollis, "		River, Michigan, St. Joseph's, &c., Lake Huron.		- And
CH., B., BL	Arcturus, Hall.			VAR Just	Marine .
Queb. G		(Newfoundland W.) Cowhead.		and the same of th	and the state of
Niag	D D Owen		pert's Land).		Chicago (Illinois).
Pleta	atavus, Eichw. = Actinobolus atavus.		Baltischport(Éstho.), (St. Petersburg) Ropsha.		The state of
Carad			Ireland (S.) Duna- brattin Head. U. Mississippi River.		
Corall.L.,Niag., Llandov., W.	Barrandei, D. D. Owen. Barriensis, Murch.		C. Mississippi River.	Malverns	(England) Bogmine Woolhope, Led bury, Dudley, Ma
					vern, Onny Rive (Russ.) L. Ladog (Balt.) Isles Oes & St. Jean, Ne York, Wisconsin.
СН	Bayfieldi, Billings.		(Can. E.) Mingan Isles, Montreal.		
Corall.L., E.e.1.	Bouchardii, Barr.		(Fr.)Angers,Vitré,&c.	(Bohem.)St.Iwan &c.	Isle Oesel, St. Jea
Carad., Llandov.	var. minutus, Corda. Bowmanni, Salter. = Dysplanus.		(Wales)Haverfordw., Berwyns, &c., Kil- dare (Irel.), (S.W. Scotl.) Drummuck.	(Wales) Llandovery, Gwyddon, Chir- bury, Shropshire.	(Baltie
			Himalaya, Niti Pass, East Indies.	4	
W	carinatus. "				Winning's Quarry Malvern, Dudle (England).
CH., B., BL B., BL	clavifrons, Billings.	2	(Œland) Aleböke. Mingan Isles. (Can. E.) River Achi- gan, Mingan Isles.		
BL., CH			(Can. E.) R. Achigan, Hull,Ottawa River.		
Div. L, M, N, Queb. G. Div. P, Queb.G.		(Newfoundland W.) Cowhead.			
Pleta			Ropscha (Russia). (Esthon.) Réval, We- senb., Lyckholm, &c., Norway, Swe- den, (Russia) Lake		
			Ladoga, Ropscha, &c., Angers, LaHu- nandière (France), Mingan Isles (G.		
			St. Lawr.), Red Riv. (Rupert's Land), Missouri, Prairie du Chien (Wiscons).	27	

Subdivision.		species, and thor.	Primordial.	Lower Stage.	Middle Stage.	Upper Stage.
Pleta, Carad	Dalmani, Davisii,			(Engl.) Westmorel., (Wales) Corvan,		
				Rhiwlas, &c. (S.W. Scotland) Stinchar River &c.		
" Carad	Desmaresti,			(Fr.) Vitré, D'Erce, Angers, (Portugal) Vallongo.		
Very Micaeous Sch., D. d. 4.	distinctus,	Barr.		(Bohemia) Wraz, Beraun.		
Div. L, N, P, Queb. G., Pt. Lévis &c.		Billings.	(Newfoundland W. & N.W.) Pt. Rich &c.	The second secon		
Carad	giganteus,	Burm.		(Fr.) Brittany, Vitré,		
				&c. (La Sarthe), Portugal (Vallon.), Spain.		
CH	globosus,	Billings.		(Can. E.) Montreal, Murray Bay, Min-		
Div. 4, A. Gr.,	grandis,	,,		gan Isles. Canada (Anticosti,	Canada (Anticosti,	
H. R. G., MSa.	The state of the s			nassim)	passim).	
Fauna D. d. 5.				Karlshütte. (Spain) Ballesteros,		
	Hispanicus,			Chillon, S.Morena.		
Niag			Stanbridge (Can. E.).		•••••	Wisconsin (U.S.A.)
Niag., W	insignis,	Salter.				Chicago (Illinois
D. d. 1	Katzeri, laticauda,	Barr. Hising		(Bohemia) Rokitzan. (Dalecarlia) Osmuns-		Dudley (England
and the same of th				berg.		
Pleta			•••••••••••	(Russia).		
Tr	latus,	M'Coy.				
Carad	= Bowmanni Lewisii, = Panderia.	Salter.		(Wales) Oswestry.		
	Lusitanus,	Sharpe.		(Portugal) Vallongo.		
Llandov	= giganteus. M'Cullumi, = Bumastus.			(S.W. Scotl.) Girvan, Ayrshire.		
B., BL., Tr				(Can. E.) R. Achigan,	1,000	
				Lower Ottawa River, L. Huron, St. Joseph Isl.		
	Minganens	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Mingan Isles (G. St. Lawr.).		
Carad	Murchisoni,	Salter.		(Wales) Llandeilo,		
				Coniston, Grug, Birds' Hill, Water-		
Llandov	nexilis.			head (Lancashire).	Girvan (S.W. Scotl.).	
Pleta	oblongatus,	Angelin.		L.Ladoga &c.(Russ)		
Carad Div. 1, 2, 3, 4, A.Gr.,H.R.G.,	orbicaudatus	, Billings.		Chair of Kild. (Irel.). Anticosti Isle	Canada, Anticosti, Gamache Bay, &c.	
MSa. H. R. G., B., BL	ovatus,	Conrad.	•••••	(Can.E.)Hull;Ottawa River, (Wisconsin)		
D. d. 3, 4	Panderi,	Barr.		Mineral Point. (Bohem.) Sterboholy, Wotmitz, Bracz,		
Pleta	Parkinsoni,	Eichw.		Czernin, &c. Poulkova&c.(Russia),		
L.Llan	perovalis,	Murch.	Corndon Mt. &c., Shropsh., Abereidy			
			Bay, Pembrokesh.,			
Carad	Portlocki,	Salter.	and St. David's.	(Irel.)Tyrone, Desert-		
	punctulosus,	*. "		create. Himalaya, Niti Pass		
				(India).		

Subdivision.	Genera, Species, Author.	, and	Primordial.	Lower Stage.	Middle Stage.	Upper Stage.
Pleta, Up. Bala.	Rosenbergii,	Eichw.		Coniston, Waterhead		
				(Lancashire), Poul-		
				kova &c. (Russia).		
	var. minutus,	,,				
,,	Rudolphi.			sia). Ropscha &c.(Russia),		
,,	reactorpin,			D'Erras (Esthon.).		
Fauna D. d. 4, 5	Salteri,	Barr.		(Bohemia) Praskole,		
				Wraz, &c., Spain ?,		
	Sanchezi, V	Immonil		(Fr.) La Manche. (Spain) Ballesteros,		
	Sanchezi, V	erneun.		Madronal, Sierra	Carlotte and	
				Morena.		
	Schmidtii, V	olborth.		Russia, Esthonia.		
Queb. G	simulator, I	Billings.	Stanbridge (Can. E.).		m	
É. e. 1	tardus, tauricornis, K	Cutoren	· · · · · · · · · · · · · · · · · · ·	Russia	(Bohemia) Listice.	
Fr	taurus, D. D.		· · · · · · · · · · · · · · · · · · ·			
Llandov		Salter.		Bogmine. Shelve	(S.W. Scotl.) Girvan.	
	=Illanopsis.			(Shropshire). (Bohemia) Praskoles,		
Fauna D	transfugus,	Barr.	······	(Bohemia) Praskoles,		
				MountDrabow,Lo- denitz.		
BL	Trentonensis, E	mmons.		Hull, OttawaR. (C.E.)	1	
	triodonturus, V	olborth.		Russia.		
Div. P., Queb.	tumidofrons, I	Billings.	(Newfoundland W.)	DESTRUCTION OF STREET		
G., Pt. Lévis.	Wahlanhansianna	Down	Cowhead.	(Pohom) Winimbof		
rieta, Fauna D	wantenbergianus,	Darr.		(Bohem.) Königshof, Karleshütte, (Rus-		
				sia) Ropscha, Réval.		
Niag	Wortheanus, Win.	& Mar.		Mingan Isles (G. St.		(Chicago) Illinois.
CH	vindex, I	Billings.				
T. T.L Jan.	an ind	Salton	Chuanahina Wast of	Lawr.).		
L.Llandov	sp. ma.	Saiter.	Shropshire, West of Stiper Stones.			
Queb. G	1	Billings.	Pt Lévis (Can W)			
	"	Meek.				Kennedy Channe
		D				Arctic Seas(Amer
	Isocolus, Angelia					Decatur Co.(Teness.
Reg. D-E	Siogreni.	Angel		(Sweden) Dalecarlia.		Sweden.
	Isotelus, Dekay	, 1824	(see Asaphus).			
Tremad., Carad.			(Wales) Tremadoc		THE RESERVE	
	canalis,			Pennsylvania. N. York, Tennessee,		
Tr., CH	gigus,	Бекау.		Penns., Kentucky.		
				Ohio, N.W. Michi-		
				gan, Up. Mississippi		
				River, (Can. E.)		
	- V 1			Beauport, Lake St. John, &c., Ireland.		
	Homfrayi,	Salter.	(Wales) Tremadoc.	oom, cc., freiadd.		
	Iowensis, D. D.		(Wales) Tremadoo	Up. MississippiRiver.		VARIETY AND V
Div. 1, A. Gr.,		Locke.		Anticosti, (Can. W.)	(Anticosti) Gamache	
Tr.				Kingston, Ohio,		
			Harry Harry Williams	Tennessee, Mis- souri, Wisconsin.		No. of the last of
	Powisii?	Sharpe.		(Portugal) Vallongo.		
?	robustus,	Römer?		Silesia?.		
			(see Homalonotus).	The second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a section in the second section in the section is a section section in the section is a section section in the section is a section section in the section in the section is a section section in the section in the section is a section section in the section in the section is a section section in the section in the section is a section section in the section in the section is a section section in the section in the section section is a section section in the section section in the section section is a section section in the section section in the section section section is a section sect		
Pag A			1852 (see OLENUS).			
	ovatus, raphidophorus,		(Sweden) Andrarum			
	stenotus,	"	" "		Base and the	Service Service
	Lichas, Dalman	ı, 1826.				
" D. b	aculeatus,	Angel.		. (Swed.) Vestrogothia		
DF	affinia			Mount Kinnekulle	·	Sweden.
" D, E	anims,	"		Rosenschalt.		o medelli.
Fauna E, 3	ambiguus,	Barr.		100cmocman.		(Bohemia) Berau
			1			Listice, Ratinka.
W. L				(Table - in) Table		Dudley (England).
Dolom. L. with		Komer		(Esthonia) Isles o Worms and Dago		
Orthoc				(Russia) Gatchina		

Subdivision.	Genera, Species Author.	s, and	Primordial.	Lower Stage.	Middle Stage.	Upper Stage.
Pleta	aries	Eichw.		(Russia) Poulkova.		
W	Barrandei, I	Fletcher.				Dudley, Ledbur
Delth Sh. L	Rigshyi	Hall.			***************************************	(England). (N. York) Coeymans
		100000000000000000000000000000000000000		and the second s	and the same of th	Carlisle &c. Cos.
Niag	Boltoni,	Bigsby.			***************************************	Wolcott, Lockport
						Sweden.
W., L.Ludl Carad	Bucklandi,	Salter.		(Ireland) Chair of		Whitecliff (Ludlow) Dudley
				Kildare.		
Div. 4, A. Gr., Mayhill.	Canadensis,	Billings.			(Anticosti) E. Point.	Gaspé (Canada E.).
Reg. D, E	cicatrosus,	Loven.		(Sweden) Dalecarlia.		Sweden.
" C &c	cœlorrhinus,	Angel.		Smoland &c.	Manual Na Walley	
Pleta, Reg. E		100		(Esthon.) Wesenberg.		(Sweden) Gothland.
Reg. D, E	conformis,	Laught		(Sweden) Dalecarlia. (Russia) Hummulas-		(Sweden) Dalecarlia
r leta	conceps, D. de			saar and Poulkova		
Reg. C	convexus,	Angel.		(Swed.)Ljung, Ostro- gothia.		Sweden?
Fr	cucullus, Me	ek & W.		Alexander Co. (Illi-		100
Pleta, Reg. D,E	Delegarling			nois). Sweden (Russ)Poul-	(Sweden) Dalecarlia.	
				kova, Esthonia.		
		Marcy.		Swad Aland (drift)		Chicago (Illinois).
Reg. D. a?		Angel.		Norway		
Pleta &c	Eichwaldii,	Nieszk.		(Russia) Poulkova, (Esthonia) Réval,		Russia.
				D'Erras, Kirna,		
		TT-11		Isle Odinsholm.		Now York
	eriopis, armatus,					
Reg. E		Angel.	·····	Pussia Gothland		(Sweden) Gothland.
" C?	grandis,	Hall				
Carad., W	Grayii, I	Fletcher.				Ledbury, Dudle (England).
Faunæ F, G. g.1	Haueri,	Barr.	***			(Bohem.) Konieprus
	Heberti,	Panault		(France) Polismá		Mnienian, Dvoretz Slichow.
Margaret Mill	and the same of th	and the same of		Bain, &c.		
" E Carad	heteroclytus,	Barr.				(Bohemia) Kozolup.
Carau	Hibermeus, I	orefock.	***************************************	trane, Chair of Kil-		
			HOW THE STATE OF T	dare, Tyrone, De- sertcreate.		
w	hirsutus, I					Dudley (England).
Pleta						
				Réval.	74	
D. d. 1 Queb. G	incola, Jukesii		(Newfoundl.) Cow-	(Bohemia) Rokitzan.	3	
	o uncom,		head, Stanbridge			
	Kaiserlichi. He	offmann.	(Can. E.).			Russia.
Pleta, Reg.D,E,	laciniatus, Dalm	., Wahl.		Coniston (Westmore-		
Carad.				land), (Swed.) Ves- trogothia, Mount		
	, .	T2: 1	Company of the Compan	Olleberg &c.	?	
Dalam T21						
Dolom. L. with Platystrophia.		120000				(Sweden) Gothland.
Platystrophia. Reg. E	laticeps,					The state of the s
Platystrophia. Reg. E	laticeps, latifrons.			Dufton (Westmorel.)	(Ayrshire) Mulloch's	19 19
Platystrophia. Reg. E	laticeps, latifrons.			Dufton (Westmorel.), Denbighsh., Bala,	Hill. Shropshire.	19 19
Platystrophia. Reg. E Carad., L. & U.	laticeps, latifrons.			Dufton (Westmorel.), Denbighsh., Bala, Cerrig -y-Druidion	Hill. Shropshire.	" "
Platystrophia. Reg. E Carad., L. & U.	laticeps, latifrons.			Dufton (Westmorel.), Denbighsh., Bala, Cerrig-y-Druidion &c., S.W.Scotland, Shropshire, Acton	Hill. Shropshire.	39 39
Platystrophia. Reg. E Carad., L. & U.	laticeps, latifrons.			Dufton (Westmorel.), Denbighsh., Bala, Cerrig-y-Druidion &c., S.W.Scotland, Shropshire, Acton Scott, (Irel.) Wex-	Hill. Shropshire.	39 39
Platystrophia. Reg. E Carad., L. & U.	laticeps, latifrons, laxatus, macrocephalus,	M'Coy.		Dufton (Westmorel.), Denbighsh., Bala, Cerrig-y-Druidion &c., S.W.Scotland, Shropshire, Acton	Hill. Shropshire.	19 19

Subdivision.	Genera, Species, and Author.	Primordial.	Lower Stage.	Middle Stage.	Upper Stage.
	Nereus, Hall			Carabina Car	N Vork (USA)
	nodulosus, Salter		(Wales)Pont-y-Glyn,		1. TOTA (C.S.A.).
Curum	nounious, pareci		Corwen.		
Reg. C ?	Norvegieus Angel				and the state of t
Compact Pleta,	Alandious		(Sweden) Aland, Isle		
Reg. C, In-			Dago, (Esthonia)		1.0
flamm. Schist.			D'Erras, Jelgi-		
namin. Demet.			mäggi.		
Dolom., Corall.	ornatus		Sweden.		Russia (Esthon.)K
Lst., Reg. C.	ornatus ,,		Oweden.		kau, (Swed.) Got
Reg. C	nachwechinus Dalm		,, Ostrogothia,		kan, (Swed.) Got
neg. C	pacnyrrinnus, Daim		Husbyfjol.		
Faunæ D, E	palmatus Pour		(Bohemia) Wohrada,	Dohamia	
raunae D, E	parmacus, Darr		Wiskocilka.	Bonemia.	
Llan	Patriarchus, Wyatt-Edgel		(S Wales) Pont La-		
Latan.	Latitutenus, 11 yatt-15tiger		dies, Llandeilo.		
Reg. D, E	nolytopus Angel		(Swed.) Vestrogothia,		
neg. D, E	polytomus, Angel		Mount Ollenberg.		
Carad	nuoninanua D		Coniston Waterhead,		
Carao	propinquas, Darr		(Lancashire).		
Vina	pugnax, Winch. & Marcy	The second	(Lancashire).	Traces and the same	Chicago (Till-sia)
	pugnax, winch, & Biarcy		***************************************		Chicago (Illinois).
Reg. E	pustulogue H		***************************************	***************************************	Gothland.
L. H. G	pusturosus, Hall		•••	•••••	Schoharie Cos.
	motundifu	No. of the last of			
w."	Saltari Plat		••••••	••••••••••••••••	Dudler (Frale 1)
W D. E.	Salteri, Fletcher		Bohemia (colony)		Dudley (England)
Fauna D, E	scabra, Beyrich	***************************************	Donemia (colony)		
					Wohrada, Ratin
					Kozel, Listice,
					Iwan, &c.
	scuticauda, Salter (MS.)	***************************************	••••••	••••••	
	11. 5-				(England).
	sex-lobatus, Römer		N D		Lower Harz (Giebe
D Do	sex-punctatus, Hoffmann		Norway, Russia.		
Reg. D ?	sex-spinus, Angel		Norway.		
" E	simplex, Barr		CT. T. N. V. NUCC. N.		(Bohemia) Dlaul
	Tibetanus Salter		(E. India) Niti Mtns.		Hora.
B., BL., Tr	Trentonensis, Billings		(Pennsylvania) Carl-		
			isle, N.W. Michigan,		
			(N.York) Middlevi		
		A SHAPE THE PARTY OF THE PARTY	Canada,(Ohio)Cin-		Particular de la constitución de
	-		cinnati.		
Woolh., W	verrucosus, Eichw	(Sweden) Ljung	(Esthonia) Reval.		N 1 111 111
Pleta	,, Salter				Mayhill, Worces
				W	Railway, Malver
	sp. ind., Selwyn		D. 1:11: 0	Victoria (Australia).	
Carad	,, Salter		Denbighshire, Cerrig-		
		50 / P	y-Druidion.		
	Liostracus, Angelin, 18	SZ (SEE ELLIPSOCEPHA	1.08).		V.
Reg. A	4 4	(Sweden) Alandia.			
	costatus, "	" Ostrogothia.			
	muticus, "	" Alandia.	119 119 119 119		
	Loganellus, Devine, 18		32 7		
	Logani or Quebecensis.	Point Lévis (Can.E.).		3	
	Lonchocephalus, D.	D. Owen, 1852.			
P	Chippewa-ensis,	Chippewa River, L.			
	D. D. Owen				
,,	hamulus, "	(Minnesota) Miniska			FRITZ IN THE
	·	River-mouth.			
	Lonchodomus, Angel	n, 1802 (see Ampyx).	N		
Reg. D. a.?	amnis, Angelin				
" D. a.?		(C 1) Mr. TT			The state of the s
" B, C	domatus, "	(Sweden) Mt. Hunne-			
	turneture of	berg,(Norw.)Opslo.			
" C	jugatus, Sars		(Sweden)Boda, Alan-		
DI 4	1		dia.		
Pleta	longirostris, Eichw		Sweden, Norway, Isle		The state of the s
			Odinsholm (Balt.),		2
			Russia.		
	Megalaspis, Angelin, 1		200 200 200 200 200		
Reg. C	acuticaudata, Angel		(Sweden) Alandia.		
,,	excavato-zonata, "				
	explanata, ,,		Sweden.		
			100 100 100		
Pleta	extenuata, Wahl				The second section is a second section of
	extenuata, Wahl		Sweden, (Russia) L. Ladoga, (Esthon.)		Section 1

Subdivision.	Genera, Species, and Author.	Primordial.	Lower Stage.	Middle Stage.	Upper Stage.
	gigas, Ang	el			
Pleta	heros, Dal	n	,, (Russia) L. Ladoga, Gov. St.		
			Petersburg, Wassil-		
			kowa.		
	late limbata, Ang	el	Sweden.		
Reg. C	limbata, ,,		(Sweden) Scania, Fa-		1
Dloto	longicauda, D. de Leuc		gelsang, &c.		
rieta	longicauda, D. de Leuc	16	tilitzy, &c.,(Estho.)		
			Réval.		
,,	multiradiata, Ang	el	Sweden.		
Reg. C	plano-limbata, ,,				
Pleta	remigium Fiel	w.	trogothia.		
	rotundata,	**-	Sweden.		
" Reg. C	rudis, Ang	el	(Sweden) Heda &c.,		
			Ostrogothia, (Rus-		
	toward and to		sia) Tosna &c.		
Reg. C	stenorhachis, ,,	w.	(Sweden) Alandia		
	sp. ind.	"			24 41 146
	Menocephalus, D.	O. Owen, 1852.			
Lst. 1, Queb. G.	globosus, Billin	gs. Point Lévis (Can.E.)			The second second
	Minnesotensis, D.D.Ow	n. Wisconsin.			
Lst. A. 3, Queb. G.	Salteri, Dévi	ne. Point Lévis (Can.E.)			
Lst. 1, Queb. G.	Sedgwickii.				
	Metopias, Eichwald,	18 42 (see Lichas).			
	Microdiscus, Emmon	s, 1855.			
P., L.Ling. Fl.	punctatus, Salt				
		near St. David's (S.Wales)Dolgelly.			
Queb. G	quadricostatus, Emmo	ns. Virginia, Augusta Co.			130
		(U.S.A.).			
D: D 0 1	Nileus, Dalmann, 183	26.			
G., Pt. Lévis.	affinis, Billin	gs. Isle Orleans (Can.E.)			
On, I to Lievis.		(Newfoundl. W.) Cowhead.			
Pleta, Reg. C	armadillo, Dal	m	(Sweden) Heda, Berg,		The same of the sa
			&c. (Russia) Hume-		
	D D	14	lasaari & Poulkova.		
	Beaumonti, Rouau glomerinus, Dal	lt. m.	(France) La Couyere.		
Reg. C?		el.			
			Olstorp.		
Div. N, Queb.	macrops, Billin	gs. (Newfoundland W.)			
G., Pt. Lévis.		Tablehead.			
	nanus, Verneu	il	Russia.		
Reg. C	palpebrosus. Dal	m.	(Sweden) Husbyfiol.		
Div. N, P, Queb.		gs. (Newfoundland W.	Olstorp, &c.		
G., Pt. Lévis.		Tablehead (in grey			
		drab, and whitish			
	Niobe, Angelin, 1852.	limestone conglm.)			
Reg. C		el	(Swed.) Ostrogothia.		
			Olstrop.		
	explanata,		" " " " " " " " " " " " " " " " " " " "		
,, ,,	frontalis, Dal	m	(Swed.) Ostrogothia,		
L. Tremad. and	Homfravi. Salt	er. (N.Wales)Tremadoc	Heda, Ljung, &c.		
Passage-beds.		Llanerch, &c.			
Pleta, Reg. C	læviceps, Dal	m	Tosna(Russ.),(Swed.)		
	1969		Heda &c., Ostro-		
Pleta, Reg. D	lata. Ano	el	gothia. (Sweden) Mt. Mosse-		
	Ang	***************************************	berg, &c., (Russia)		
			Tzarskaya, Slaw-		
DI.4	Till		janka.		
Pleta	Lachtensteinii, Eich	w	Poulkova, Ropscha,		la la
			Pontylowa, Lake		
	Odontopleura, Emm	eri ch, 1845 (see Acidas	Ladoga (Russia).		
	Operate Daniel	1007	1		Marie Control VIII
Llan	Ogygia, Brongniart, Barrandii, ?	Wellfield, Builth(W)			

Subdivision.	Genera, Speci Author		Primordial.	Lower Stage.	Middle Stage.	Upper Stage.
Pleta, Llan.,Ca- rad.	Buchii,	Brong.		(Spain)Almaden &c., (France) La Cou- yère, Bain,(Wales) Llandeilo, Builth, Shropshire, Isle Odinsholm (Balt.).		
	bullata,	Salter.	Whitesand Bay, St. David's (S. Wales).			
Arenig rocks Llan		Murch.	,, ,,	(England) Corndon, Shelve.		
Mus. Pr. Geol., Llan.				Carneddan, Builth,&c.		
Fauna D. d. 1	desiderata, Desmaresti,	Brongn.		(Bohemia) Rokitzan. (France) Angers &c., Spain.		
	dilatata, Edwardsi,	Brünn. Rouault.		Russia, Sweden. (France) La Couyère, Bain.		
	Murchisoni,	Murch.		New Ross, Co. Wex- ford.		Maria de la companya della companya
L.Lland., Tre- mad.			(S.Wales) St. David's.			
Llan	Portlockii, radians.	M'Coy.		(Wales) Rhiwlas, Builth, Llandegley, &c., (Irel.) Newton Head, Waterford.		
P., Llan., U.&L. Tremad.			(Wales) Garth, Pen- morfa, &c.			
L.Llan	Selwynii,	n		(Engl.) Lord's Hill &c., Shelve &c., Shropshire,(Wales)		1 1 1 1 1 1
Reg. B. a	Ogygiocaris, dilatata, Olenus. Dalm	Brünn.	1852. Norway. (Sphærophthalmus,	Tai-hirion, Dol- gelly, &c.		
" A " "	acanthurus, aciculatus, aculeatus,	Angel.	(Scania) Sandby. (Sweden) Andrarum.			Mark State
U.Ling. Fl. &c. Taconic	asaphioides,	Emmons.	(Wales)Penmorfa &c. (N. York) Greenwich Washington Co.			
Reg. A L.Ling. Flags	attenuatus, bisulcatus,	Phill.	(Sweden) Andrarum. (England) Malvern (Wales) Dolgelly.			
39 30	cataractes,	Salter.	(N. Wales) Maent- wrog, Criccieth Treflys, Dolgelly.			
L.Ling. Flags, Reg. A.	flagellifer, gibbosus,	Wahlenb.	(Wales) Borth &c. (N.Wales) R. Mawd- dach, Dolgelly, Nor- way (Scania).			
Queb G	holopyga,	Hall.	(Vermont, U.S.A.) Georgia T ^p .			
Ling. Flags U.Tremad		200	(England) Malvern (Wales) Dolgelly. (S.Wales)Portmadoc			
Alum Slates			Penclogwyn. Norway.			
Queb. Gr L.Ling. Flags, Llan.			(Can. E.) Point Lévis (Wales) Tremadoc Maentwrog, Festi- niog, Snowdon			
Alum Slates	paradoxides,	Wahl	Trawsfynydd, &c. (Swed.) Scania, An drarum.			
Llan Ling. Fl., Llan			Malvern (England). Malvern, (Wales Moel Gron, Borth &c., Swed. passim Norway.			
Tremad Ling. Flags		Salter	(Wales) Portmadoc. (N. Wales) Cerrig wen, Borth.	-		100
Mid.Ling. Flags	spinulosus, scarabæoides.		(Scania) Andrarum (Wales) Dolgelly.	,		

Subdivision.	Genera, Species, and Author.	Primordial.	Lower Stage.	Middle Stage.	Upper Stage.
Reg. A Ling. Flags	subarmatus, Salter	(Sweden) Andrarum. N. Wales.	415-11-11-11-11-11-11-11-11-11-11-11-11-1		
Alum Slate		(Vestrogoth.)Olstorp,			
Reg. A	= Paradoxides. truncatus, Brünn.	Carlsfors. (Swed.) Aland, Sca-			
H. R. G	undulo-striatus, Hall.	nia, Andrarum.	(N. York) Saratoga		-
U.Ling. Flags	sp. ind. Salter.	(N. W.) Cerrig-wen.	Lake.		
?	Olenellus, Billings, 186	5.	Hof (Bavaria).		
Potsdam Sa Div. B, C.		Vermont (U.S.), La- brador, Anse au Loup.			3
" "	Vermontanus, Palæopyge, Salter, 185	6. " "			
Harlech Grits		(Shropshire) Callow			
	Panderia, Volborth, 186				
	Lewisii, Salter. minima, Volborth.	Wales. Russia			
	triquetra, Volborth.	Russia.			
Ling. Flags	Parabolina, Salter, 184 serrata, Salter.	N W-1			
Potsd. Gr	spinulosa, Angel.	(Swed.) Gudhem, Os- trogothia, Mount			
	Done donidos Donesia	Hunneberg.			
Taconie G	Paradoxides, Brongnia asaphoides, Emmons.	(N. York) Washing-			
Ling. Flags	Aurora, Salter.	ton Co. (S.Wales) St.David's.			k w
Fauna C	Bennettii, ,, Bohemicus Barr	Newfoundland. (Boh.) Ginetz Schists.			
L.Ling. Flags		(S.Wales) St.David's, Dolgelly.			
Fauna C		(Bohemia) Ginetz.			
Ling. Flags		Sweden, Scania, An-			
Primord. Slate	Harlani, Green.	drarum. Massachus. (U.S.A.),			
L.Ling.Flags	Hicksii, Salter.	Braintree. (S. Wales) St. David's,			
Fauna C		Dolgelly, &c. (Boh.) Ginetz Schists.			
,, ,,	inflatus, Corda.	" Skrey Schists.	3/4		
		(Sweden) Scania, An- drarum, Thuringia.			
	Lyelli, Barr. macrocephalus, Emmons.	(Bohemia) Ginetz. (N. York) Washing-	Like 11	Villa III iii	
		ton Co. (Bohemia) Skrey.			
	Pradoanus, De Prado.	(Spain, Leon) Sabero.	P31	The state of the state of	
	pusillus, Barr. rotundatus, ,,	(Bohemia) Skrey. ,, Skrey,Slap-			
,, ,,		Teyrzowitz. (Bohem.) Skrey, Slap, &c.			
	Sacheri,	(Bohemia) Felbabka.			
,, ,,	spinosus, Boeck.	,, Thuringia, Pennsylvania, Mas-			
,, ,,	Tessini, Linnæus.	sachusetts. (Swed.) Ostrogothia,			
	Thompsoni, Hall.	Aland. Swanton (Vermont,			
		U.S.), Bradore and Forteau Bays, La-			
	Vermontanus, "	brador. Swanton (Vermont,			
		U.S.), Bradore and Forteau Bays.	De la companya della companya della companya de la companya della		
	Peltura (see Olenus). Pemphigaspis, Hall, 1				
otsd.low.beds.	bullata, n. s. Hall.	(Wisc.) Trempaleau.			
Reg. E	Phacops, Emmerich, 18 æquicostata, Angel.				(Sweden) Gothland.

Subdivision.	Genera, Species, and Author.	Primordial.	Lower Stage.	Middle Stage.	Upper Stage.
Carad			(N. Wales) Meifod, Llanrwst, Conway, &c.		
	amphora, ,, anchiops, Hall.		(W.)Grug, Llandeilo. Up. Mississ. River		Lake Huron W. and Mackinae, L. Harz
					L. Harz (Thuringia
FaunaD,Carad., Llan. Flags.	apiculatus, Salter,		(N.Wales)Merioneth- shire,Pwllheli,Car- naryonsh., Treior-		
			with, &c., (Engl.) Church Stretton, Shropsh., (Bohem.) Peraver, Gorwan-		
Carad	appendiculata. Salter.		haven.	-	817
,,	Bailyi, Salter.		Tramore (Waterford)		
Fauna F, G. g. 1	Boeckii, Barr.				(Bohemia) Dvoretz Hostin, Mnieniar &c.
Reg. E, F	breviceps. Angel.				(Sweden) Konieprus
Fauna F	Barr.				Slichow, Mnienian
Carad	Brongniarti, Portlock.		(Irel.) Bardahissiagh, Chair of Kildare, &c., England, (N. Wales) Bala &c.		
FaunaE,F,G.g.1	Bronni, Barr.		rraico) Danie Cer		(Bohemia) Butowitz
	bucculeata, Sjogreni.		Sweden (drift). Ireland.		Mnienian, Tetin
Carad	Bucephali, Wahl., Port- lock.		Ireland.		Dvoretz, Luzetz.
Reg. E					(Bohemia) Dlauha Hora, Kolednii
					Kozel, Wohrad
B., BL., Tr., H. R. G.	callicephalus, Hall.		Lake St. John (Can. E.), Mid-Ottawa R. (Can.W.), N. York, Tennessee, N.W.		Butowitz, Wisk cilka.
Llan., Llandov., W.,L., Reg. E, Aymestry Lst.			Michigan. (S.Wales) Llandeilo.	(England) Malvern (Wales) Usk &c.	(S. Scotland) Lar mermuir, (Eng. Gt. Barr, Staffor
					shire, Dudley,Le bury, Ludlow, B denham, (Wale Moel Seisiog, Pl
					Madoc, Mid-Got land, Victoria (Australia).
	var. aculeatus, Salter.				Dudley (England).
	var. nexilis, , ,,				(S. Scotl.) Lar
w					mermuir. Malvern (England.
Fauna G. g. 1	datus, ,,				(Bohemia) Dvore
					Lochkov, Hosti
Llan., Carad., Reg. C.	conicophthalmus, Boeck		S.Wales (EdWyatt). Ireland, (England) Gretton, Carding-		&c.
Mg. O.			ton, (N. Wales Carnarvon,Bettws- y-Coed, &c.,(Russ. Poulkova, (Estho.		
Ilandar W. I	annetwisters Salter	England 2	D'Erras &c., Swe- den, Norway.		England?
Llandov., W., L Carad	cryptophthalmus, Emmer.		. Thuringia, . (Irel.)Tyrone, Ennis-		- Built
	Diops, Green		corhy, Wexford. Tennessee (U.S.A.).		Dudles M. ls Y
Carad., U.Llan dov., W., L H. G.	O CONTRACTOR OF THE PROPERTY O		(Brittany) Bair &c., Sierra Morens	Bogmine, Norbury &c.	bury, Kendal (Wes moreland), (Wale Plas Madoc, Merc
			(Spain).		lin, &c., Arisa (Nova Scotia).

Subdivision.	Genera, Species, Author.	and	Primordial.	Lower Stage.	Middle Stage.	Upper Stage.
w	var. constrictus	Salter				Dudley (England)
		11				Duttey (Dingmina)
,,	" Musheni,	**				
W., L.L		**				Dudley (Ketley), a
						Ludlow.
LL		19				
,,		**				77
,,		12				1.0
,,		**				
,,		"		(D		Wales.
	Dujardini, Ro	ouault.		(Portugal) Bussaco, (France) d'Ille et		
Pouns P		D		Vilaine, &c.		(Dalamia Vanions
Fauna F Reg. E	emarginatus,	Angel				(Bohemia) Koniepr
Fauna E, F, G,	focundus	Bare.				(Rohemia) Dlan
H.	reculidus,	Datt.				Hora, Koledi
						Kozorz, Butov
						Wohrada, Mn
						nian, Lochkov, Re
					Service Services	lin, &c.
Fauna G. g. 1	fugitivus,	,,				(Bohemia) Luzetz.
" D, E	Glockeri,	Barr.		(Bohemia, colonies)		(Bohemia) Ko
				Motol and Krejci.		Wohrada, Luze
		100				Butowitz.
Loose Schists	granulosus,	Angel.				
THO	т.	TT 11				thia.
L. H. G		Hall.				New York (U.S.A
Fauna E, G. g. l	Hæningnausii,	Darr.				Lochkov, Luze
						&c.
Delth Sh Lst	Hudsonicus, n. s.	Hall				(N. York) Becra
Deitai. On. 1200.	Tradsomeas, p. s.	Han.				Mountain, Pen
						sylvania, Tennes
						Wayne Co., V
						ginia.
U.Llandov. &c.	imbricatulus,	Angel.			(England) Malvern.	8
Section 19 Section 19	Odontochule.				Mayhill, Sweden.	the trace of the
Reg. E	imbricatus,	11				(Sweden) Gothland
Llandov., Carad,	? incertus, 8	Salter.		Budleigh Salterton		
		_		(Devonshire).		
Fauna F						(Bohem.) Mnienia
Carad	Jamesi, Por	rtlock.		(Irel.) Knockmahon,		Bubowitz.
Carad	Tukonii 6	S. 14	***************************************	Waterford. England, (Wales)		
Carad	oukesii,	Saiter.	•••••	Gelli Grin.		
Fr	laticanda?	Hall		(N York) Lewis Co		
Pentam. Lst.		onen.		(11.1 OFR) Lewis Co.	Esthonia?	(Esthon.)Wahhoku
2 (111111111111111111111111111111111111	municine, Di	ongn.	******************************		Estudina :	Isle Dago?, Alt
		15		3		(N. Russia).
	limbatus, Ri	chter.		Thuringia?		
CL., Niag	limulurus,	Hall.			Pennsylv., Virginia.	(N. York) Lockpor
D.Sh.L., L.H.G.	Logani,	Hall.				(N. York, C.&E.) Ca
						kill, Carlisle, &
						Cape Gaspé (C. E
Fauna D, W.,	longicaudatus, M	Lurch.		Shropshire, Brittany		(Shropsh.) Ludlo
Carad., L.				(Bain), Cheney Lon-	The second secon	Dudley, Melbour
				gueville, Poligné,		(Austral.), (Wale
				Bohemia, (Portug.)		Powell Hall.
w	var arminan C	alton		Braziela.		Dudlar (Shaanahin
,,	Grindrodianus	aiter.				Dudley (Shropshir Malvern (England
Pleta	macrophthalmus Re	onen		France, (Russ.) Poul-		marrera (magana
	Pariminus, Di	Jugu.		kova, Humelasaare.		
				&c.		
,, Carad	macroura, Sic	ogren.	·	England, Scotland.	ANT ALL THEORY	
The same of the sa		alter.		(Wales) Llangollen	Year to be a second	
		1		&c., (Esthon.) We-		
				senberg & Erras,		
				Norway, Sweden		
	,			(drift).		
	marmana C	alter.		(Cornw.) St. Austel.		
Llan						
Fauna F	miser,	Barr.				
Idan. Fauna F , G. g. 1. Reg. E, Carad.,	miser, modestus,	Barr. Barr.		Sweden, England,		(Bohemia) Lochkov ,, Chotecz.

Subdivision.	Genera, Spec		Primordial.	Lower Stage.	Middle Stage.	Upper Stage.
Carad	Murchisoni.	Portlock.		(Ireland) Tyrone.		
W., U.L	Musheni,	Salter.			Gunwick Mill (Al-	(England) Dudley
				******	frick).	Walsall.
L.Llan	Nicholsoni,	- "		Whiteside, Keswick (Cumberland).		
w	nudus,	- 11				Ireland.
Carad	obtusicaudatus,	- **		Ambleside, Coldwell	The state of the s	
Llann.?, Pleta	Odini	Fisher		(Lancashire). (S.W.Scotl.) Peebles-		
Liain., Tieta	Ourin,	Luchw.		shire,(Livo.)Kirna,		
				Fennern, &c., (Es-		
				thonia) Réval, Isles		
1				Odinsholm, Dago, (Russ.) L. Ladoga.		
Div. 3, A. Gr.,	Orestes,	Billings.		((Can. E.) Shickshock	
CL.					Mts., Anticosti Isle,	
Fauna 2	proævus. I	Emmerich.		Portugal, Spain, Bo-	East Point.	
				hemia.		
	protuberans,	Barr.		Bohemia.		(0.41 1) 10.1
Reg. E	quaterimeatus, Rœmeri,	Volborth	······	Russia.	•••••••	(Gothland) Wisby.
		Geinitz.				Thuringia.
	sclerops,	Dalm.		(Sweden) Dalecarlia		
				&c., Russsia (Euro-		
Fauna F	signatus.	Corda.		pean and Asiatic).		(Bohem.) Mnienian
2012						Konieprus.
	socialis,	Verneuil.		(Spain) Sierra Mo-		
Fauna G. g. 1.	Sternbergii	Corda		rena &c.		(Bohemia) Dvoretz
	oter noting in,	Cordin				Viskocilka, Luzetz
						&c., Lower Har.
Llan., Carad.,	Stokosii	M. Edw		(S.W. Scotl.) Girvan		(Giebel). S.W. Scotl., (Engl.
W.,L., L.H.G.	Stokesii,	MEdw.		&c., Mayhill.		Aymestry, Dudley
				,		Great Barr, Staff.
						Ludlow, (Wales
						Llangynyw, Irel. Nova Scotia.
L	subduplicatus,	Salter.				Britain.
Llandov		M'Coy.	***************************************			
Fauna E	Portlockia.	Barr			Galway.	(Bohem.) Listice, Ko
And the second second		100000				lednie, Wiskocilka.
U.GreenSh.,CL.	trisulcatus,	Hall.		Gretton, Acton Scott	New York.	
Carad	truncato-caudat	us Portl		(Shropshire). Tyrone, Desertcreate,		
Catao	ii diicato-cadaa	uo, Loren		Killey(Irel.), (Lan-		
				cashire) Coniston.		
Llan	tumidus, Vernenilii			(Swed.)Scania (drift). Poligny, Vitré (Fr.).		(S. Amer.) Bolivia
	vetusta,					(o. micr.) Don'in.
Fauna E. e. 1	Volborthi,				(Bohemia) Butowitz,	
U.Llandov., W.	an ind	Shumard			Lochkov.	Up.Mississippi River
Delth. Sh. Lst.			·····		(Engl.) Tortworth,	
					(Wales) Marloes	
	Phonostomo	Conda 10	47 (Carrage)		Bay, Presteign.	
Reg. C			47 (Calymene).	(Sweden) Aland.		
Fauna D. d. 3				(Bohem.) Praskoles,		
				Wesela, Wotnitz,		
				(Spain) Almaden, (France) Rennes.		
	Placoparia,	Corda, 184	7.			Andrew Comments
	Tournemini,			(Spain) Almaden,		
				(France) May, Angers, Domfront,		
				gers, Domfront, Orne.		
	Zippei,	Corda.		(Portugal) Vallongo,		
				(Bohem.) Beraun,		THE PARTY OF THE P
	Platymetonu	S. Angelin	, 1852 (Lichas).	France.		
Reg. D, E	lineatus,	Angel.	, room (inchas).	(Sweden) Dalecarlia.		Sweden.
,, ,,						

Subdivision.	Genera, Species, and Author.	Primordial.	Lower Stage.	Middle Stage.	Upper Stage.
and a May	Platynotus, Conrad,		and the second		
2	Plesiacoma, Corda, 1		Danie		
?		lt.	France.		
	Pliomera, Angelin, 18	h	,, Spain, Bohem.		
	Polyeres, Rouault, 1	SA 7			
Fauna D	Dufresnoyi, Rouau	lt.	(France) Brittany,		
rauna D	Duiresnoyi, Mount		Anjou, Poligné,		
			Bohemia,	,	
william or a	Polytomurus, Corda,	1847 = POLYTOMA (see			
Reg. D		r			
	001		Vestrogothia, Mt.		
			Mosseberg.		
	Proetus, Steininger, 18:	31 ; Æonia, Burmeister	; Forbesia, M. Coy.		3
H. R. G	Alaricus, Billing	S	Canada (Anticosti),		
n n 1			English Head, &c.	(D)DI I II I	
Fauna E. e. 1	Archiacus, Bai	r			
	Ascanius, ,, Astyanax, ,,				
	n f				
" "	Bonemicus, ,,	***************************************			Butowitz, Lod
100					nitz, &c.
Short Programme	brevifrons, Verneu	1.	Sweden, Russia	Esthonia	Sweden.
		r			(Bohem.) Koniepru
		and the state of t		and the state of t	Mnienian.
Corall. Lst	concinnus, Dalr	n			Mid-Gothland, E
					thonia, Russia, Is
					Oesel, Ficht, Ilper
		,			&c.
Niag	conspersus, Ange	1.			Sweden.
Fauna F	corycaeus, Hai	l. r.			(N.York) Lockport
" E. e. 1	decorus				
,,	decorus, ,,	***************************************		Butowitz, Hinter-	
				Kopanina, &c.	
L.Tremad	depressus, Shumar	l. (N.W.) Port Madoe.			
Fauna F	eremita, Bar	r			(Bohem.) Konieprus
	? excavatus, Ange	 (Sweden) Andrarum. 			4 - 1 - 1
,, ,,	fallax, Bar	r			
w	Flotoboni T. 1				Mnienian.
Fauna F	Fletcheri, Ketle	y. r.			
	Dar Dar				Konieprus.
" F, G. g. 1	gracilis				(Bohem.)Chotecz, Ke
0					nieprus.
W	Grindrodianus, Salte	r			
fauna F	heteroclytus, Bar	r		· · · · · · · · · · · · · · · · · · ·	Malvern, Dudley. (Bohemia) Lochkov
,, ,,	heteroclytus, Bar inæquicostatus, ,,	r.			
fauna F	heteroclytus, Bar inæquicostatus, ,, insons, ,,	r		······································	Malvern, Dudley. (Bohemia) Lochkov ,, Koniepru
fauna F	heteroclytus, Bar inæquicostatus, ,,	r		······································	Malvern, Dudley. (Bohemia) Lochkov ,, Koniepru ,, Dlauhs
, , ,	heteroclytus, Bar inæquicostatus, ,, insons, ,, intermedius, ,,	r.	20	Bohemia?	Malvern, Dudley. (Bohemia) Lochkov "Koniepru "Dlauhe Hora, Kolednil
" "" " E	heteroclytus, Bar insequicostatus, ,, insons, ,, intermedius, ,,	r.	2	Bohemia?	Malvern, Dudley. (Bohemia) Lochkov "Koniepru "Dlauh. Hora, Kolednii (Bohem.) Mnienian
" " " " " " " " " " " " " " " " " " "	heteroclytus, Bar insequicostatus, ,, insons, ,, intermedius, ,,	r.	2	Bohemia ?(England) Malvern,	Malvern, Dudley. (Bohemia) Lechkov ,, Koniepru ,, Dlauh Hora, Kolednil (Bohem.) Mnienian (England) Woolhop
" " " " " " " " " " " " " " " " " " "	heteroclytus, Bar insequicostatus, ,, insons, ,, intermedius, ,,	r.	2	Bohemia?	Malvern, Dudley. (Bohemia) Lechkov ,, Koniepru ,, Dlauh: Hora, Kolednil (Bohem.) Mnienian (England) Woolhop Dudley, Ludlov
Fauna F " " " E " F	heteroclytus, Bar insequicostatus, ,, insons, ,, intermedius, ,,	r.	2	Bohemia ?	Malvern, Dudley. (Bohemia) Lechkov ,, Koniepru ,, Dlauhs Hora, Kolednil (Bohem.) Mnienian (England) Woolhop Dudley, Ludlov Kendal, (Wales
; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	heteroclytus, insequicostatus, insons, intermedius, inter	7.	<i>(</i>)	Bohemia? (England) Malvern, (W.) Craig Gwyddon, &c., (Ireland) Egool, Mayo Co., Newfoundland.	Malvern, Dudley. (Bohemia) Lechkov ,, Koniepru ,, Dlauh Hora, Kolednil (Bohem.) Mnienian (England) Woolhop Dudley, Ludlov Kendal, (Wales Usk, Glenkerry Derrymore.
; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	heteroclytus, insequicostatus, insons, intermedius, inter	r.	<i>(</i>)	Bohemia? (England) Malvern, (W.) Craig Gwyddon, &c., (Ireland) Egool, Mayo Co., Newfoundland.	Malvern, Dudley. (Bohemia) Lechkov ,, Koniepru ,, Dlauh Hora, Kolednil (Bohem.) Mnienian (England) Woolhop Dudley, Ludlov Kendal, (Wales Usk, Glenkerr, Derrymore. (Bohemia) Lochkov
Fauna F. G. g. 1	heteroclytus, insequicostatus, insequicostatus, insequicostatus, intermedius, inter	7.		Bohemia? (England) Malvern, (W.) Craig Gwyddon, &c., (Ireland) Egool, Mayo Co., Newfoundland.	Malvern, Dudley. (Bohemia) Lechkov ,, Koniepru ,, Dlauhs Hora, Kolednil (Bohem.) Mnienian (England) Woolhop Dudley, Ludlov Kendal, (Wales Usk, Glenkerry Derrymore. (Bohemia) Lochkov Dvoretz.
Fauna F " " " " E " L.Llandov., W., L.U.L. Fauna F, G. g. 1 " G. g. 1	heteroclytus, insequicostatus, insequicostatus, insons, intermedius, i	7.		Bohemia? (England) Malvern, (W.) Craig Gwyddon, &c., (Ireland) Egool, Mayo Co., Newfoundland.	Malvern, Dudley. (Bohemia) Lechkov ,, Koniepru ,, Dlauhs Hora, Kolednil (Bohem.) Mnienian (England) Woolhop Dudley, Ludlov Kendal, (Wales Usk, Glenkerry Derrymore. (Bohemia) Lochkov Dvoretz. (Bohemia) Hostin.
Fauna F, G. g. 1 , G. g. 1 , F	heteroclytus, insequicostatus, insequicostatus, insons, intermedius, i	r		Bohemia? (England) Malvern, (W.) Craig Gwyddon, &c., (Ireland) Egool, Mayo Co., Newfoundland.	Malvern, Dudley. (Bohemia) Lechkov ,, Koniepru ,, Dlauhs Hora, Kolednil (Bohem.) Mnienian (England) Woolhop Dudley, Ludlov Kendal, (Wales Usk, Glenkerry Derrymore. (Bohemia) Lochkov Dvoretz. (Bohemia) Hostin.
Fauna F, G. g. 1	heteroclytus, insequicostatus, insequicostatus, insequicostatus, insequicostatus, intermedius, i	r	(2)	Bohemia ? (England) Malvern, (W.) Craig Gwyddon, &c., (Ireland) Egool, Mayo Co., Newfoundland.	Malvern, Dudley. (Bohemia) Lechkov ,, Koniepru ,, Dlauhs Hora, Kolednil (Bohem.) Mnienian (England) Woolhop Dudley, Ludlow Kendal, (Wales Usk, Glenkerry Derrymore. (Bohemia) Lochkov Dvoretz. (Bohemia) Hostin. ,, Konieprus ,, Tetin.
Fauna F, G. g. 1	heteroclytus, insequicostatus, insons, intermedius, inter	r		Bohemia? (England) Malvern, (W.) Craig Gwyddon, &c., (Ireland) Egool, Mayo Co., Newfoundland.	Malvern, Dudley. (Bohemia) Lechkov ,, Koniepru ,, Dlauhs Hora, Kolednil (Bohem.) Mnienian (England) Woolhop Dudley, Ludlov Kendal, (Wales Usk, Glenkerry Derrymore. (Bohemia) Lochkov Dvoretz. (Bohemia) Hostin.
Fauna F, G. g. 1	heteroclytus, insequicostatus, insequicostatus, insequicostatus, insequicostatus, intermedius, i	r	2)	Bohemia? (England) Malvern, (W.) Craig Gwyddon, &c., (Ireland) Egool, Mayo Co., Newfoundland.	Malvern, Dudley. (Bohemia) Lochkov ,, Koniepru ,, Dlauhs Hora, Kolednil (Bohem.) Mnienian (England) Woolhop Dudley, Ludlov Kendal, (Wales Usk, Glenkerry Derrymore. (Bohemia) Lochkov Dvoretz. (Bohemia) Hostin. ,, Konieprus ,, Tetin. ,, Lochkov.
Fauna F, G. g. 1	heteroclytus, insequicostatus, insequico	r	2)	Bohemia? (England) Malvern, (W.) Craig Gwyddon, &c., (Ireland) Egool, Mayo Co., Newfoundland. (Bohem.) Kolednik, Dvoretz.	Malvern, Dudley. (Bohemia) Lechkov ,, Koniepru ,, Dlauh Hora, Kolednii (Bohem.) Mnienian (England) Woolhop Dudley, Ludlov Kendal, (Wales Usk, Glenkerry Derrymore. (Bohemia) Lochkov Dvoretz. (Bohemia) Hostin. ,, Konieprus ,, Tetin. ,, Lochkov. ,, Konieprus
Fauna F, G. g. 1 F	heteroclytus, insequicostatus, insequico	r	2)	Bohemia? (England) Malvern, (W.) Craig Gwyddon, &c., (Ireland) Egool, Mayo Co., Newfoundland. (Bohem.) Kolednik, Dvoretz.	Malvern, Dudley. (Bohemia) Lochkov ,, Koniepru ,, Dlauhs Hora, Kolednil (Bohem.) Mnienian (England) Woolhop Dudley, Ludlov Kendal, (Wales Usk, Glenkerry Derrymore. (Bohemia) Lochkov Dvoretz. (Bohemia) Hostin. ,, Konieprus ,, Tetin. ,, Lochkov. ,, Konieprus ,, Mnienian
Fauna F, G. g. 1	heteroclytus, insequicostatus, insequico	r		Bohemia? (England) Malvern, (W.) Craig Gwyddon, &c., (Ireland) Egool, Mayo Co., Newfoundland. (Bohem.) Kolednik, Dvoretz.	Malvern, Dudley. (Bohemia) Lechkov ,, Koniepru ,, Dlauhs Hora, Kolednil (Bohem.) Mnienian (England) Woolhop Dudley, Ludlow Kendal, (Wales Usk, Glenkerry Derrymore. (Bohemia) Lochkov Dvoretz. (Bohemia) Hostin. ,, Konieprus ,, Tetin. ,, Lochkov. ,, Konieprus ,, Mnieprus ,, Mnienian
Fauna F, G. g. 1 G.	heteroclytus, insequicostatus, insequicostatus, insequicostatus, insequicostatus, insequicostatus, insequicostatus, intermedius, interm			Bohemia? (England) Malvern, (W.) Craig Gwyddon, &c., (Ireland) Egool, Mayo Co., Newfoundland. (Bohem.) Kolednik, Dvoretz.	Malvern, Dudley. (Bohemia) Lechkov ,, Koniepru ,, Dlauha Hora, Kolednii (Bohem.) Mnienian (England) Woolhop Dudley, Ludlov Kendal, (Wales Usk, Glenkerry Derrymore. (Bohemia) Lochkov Dvoretz. (Bohemia) Hostin. ,, Koniepru ,, Tetin. ,, Lochkov. ,, Koniepru ,, Mnienian ,, Koniepru ,, Mnienian ,, Koniepru
Fauna F, G. g. 1 G. g. 1 G. g. 1 G. g. 1 F	heteroclytus, insequicostatus, insequico			Bohemia? (England) Malvern, (W.) Craig Gwyddon, &c., (Ireland) Egool, Mayo Co., Newfoundland. (Bohem.) Kolednik, Dvoretz.	Malvern, Dudley. (Bohemia) Lechkov ,, Koniepru ,, Dlauha Hora, Kolednil (Bohem.) Mnienian (England) Woolhop Dudley, Ludlow Kendal, (Wales Usk, Glenkerry Derrymore. (Bohemia) Lochkov Dvoretz. (Bohemia) Hostin. ,, Konieprus ,, Tetin. ,, Lochkov. ,, Konieprus ,, Mnienian ,, Konieprus ,, Mnienian ,, Konieprus
Fauna F, G. g. 1 F H. R. G	heteroclytus, insequicostatus, insequico		(Ohio) Cincinnati,	Bohemia ? (England) Malvern, (W.) Craig Gwyddon, &c., (Ireland) Egool, Mayo Co., Newfoundland. (Bohem.) Kolednik, Dvoretz.	Malvern, Dudley. (Bohemia) Lochkov ,, Koniepru ,, Dlauhs Hora, Kolednil (Bohem.) Mnienian (England) Woolhop Dudley, Ludlov Kendal, (Wales Usk, Glenkerry Derrymore. (Bohemia) Lochkov Dvoretz. (Bohemia) Hostin. ,, Konieprus ,, Tetin. ,, Lochkov. ,, Konieprus ,, Mnienian ,, Monieprus ,, Mnienian ,, Monieprus ,, Mnienian
Fauna F, G. g. 1 F.	heteroclytus, insequicostatus, insequico		(Ohio) Cincinnati.	Bohemia? (England) Malvern, (W.) Craig Gwyddon, &c., (Ireland) Egool, Mayo Co., Newfoundland. (Bohem.) Kolednik, Dvoretz.	Malvern, Dudley. (Bohemia) Lochkov ,, Koniepru ,, Dlauha Hora, Kolednil (Bohem.) Mnienian (England) Woolhop Dudley, Ludlov Kendal, (Wales Usk, Glenkerry Derrymore. (Bohemia) Lochkov Dvoretz. (Bohemia) Hostin. ,, Konieprus ,, Tetin. ,, Lochkov. ,, Konieprus ,, Mnienian ,, Mnienian ,, Mnienian ,, Monieprus ,, Mnienian ,, Monieprus ,, Mnienian ,, Monieprus ,, Mnienian ,, Monieprus ,, Monieprus ,, Mnienian
Fauna F, G. g. 1 F H. R. G.	heteroclytus, insequicostatus, insequico		(Ohio) Cincinnati.	Bohemia? (England) Malvern, (W.) Craig Gwyddon, &c., (Ireland) Egool, Mayo Co., Newfoundland. (Bohem.) Kolednik, Dvoretz.	Malvern, Dudley. (Bohemia) Lechkov ,, Koniepru ,, Dlauha Hora, Kolednil (Bohem.) Mnienian (England) Woolhop Dudley, Ludlov Kendal, (Wales Usk, Glenkerry Derrymore. (Bohemia) Lochkov Dvoretz. (Bohemia) Hostin. ,, Konieprus ,, Tetin. ,, Lochkov. ,, Konieprus ,, Mnienian ,, Mnienian ,, Monieprus ,, Mnienian ,, Monieprus ,, Mnienian ,, Monieprus ,, Mnienian ,, Konieprus ,, Konieprus ,, Mnienian ,, Konieprus ,, Mnienian ,, Konieprus
Cauna F " " " " E " " F " Llandov., W., L.U.L. " G. g. 1 " F " G. g.	heteroclytus, insequicostatus, insequico		(Ohio) Cincinnati.	Bohemia? (England) Malvern, (W.) Craig Gwyddon, &c., (Ireland) Egool, Mayo Co., Newfoundland. (Bohem.) Kolednik, Dvoretz.	Malvern, Dudley. (Bohemia) Lochkov ,, Koniepru ,, Dlauhs Hora, Kolednil (Bohem.) Mnienian (England) Woolhop Dudley, Ludlov Kendal, (Wales Usk, Glenkerry Derrymore. (Bohemia) Lochkov Dvoretz. (Bohemia) Hostin. ,, Konieprus ,, Tetin. ,, Lochkov. ,, Konieprus ,, Mnienian ,, Monieprus ,, Mnienian ,, Monieprus ,, Mnienian

Subdi	ivis	ion.	Genera, Specie Author.	s, and	Primordial.	Lower Stage.	Middle Stage.	Upper Stage.
Fanna	F		retroflexus,	Barr.				(Bohemia) Mnjenian
			Ryckholtii					(Donellia) Milleman
							Hora, Butowitz.	
			salutiferus,	? .				Britain.
Fauna	Gr.	g. 1	sculptus,	Barr.				
	12							Sous Chotecz.
Niag 1	Lla	ndov	Stokesii,	Murch.			Sweden (Engl) Mal-	(Bohemia) Mnienian.
W., I			Stokesii,	Marie			vern. Norbury. &c.	Lockport, (Engl.)
,				10			roin, riordary, de-	Shropsh., Dudley,
								Ludlow.
Fauna	E		striatus,	Barr.				(Bohemia) Dlauha-
	~							Hora, Wohrada, &c
H. h.	Gr.	g. 2,	superstes,	"			••••••	(Bohem.) Hlubocep
п. п.	. 1.							Vavrovitz, Pekar- kovitz.
Fauna	F		tuberculatus,					(Bohemia) Mnienian
.,	,,		unguloides,					(Bohemia) Mnienian
	-							Slichow.
30	E		venustus,	8.2			(Boh.) Dlauha-Hora.	
			sp. ind.					Arctic Seas (Amer.)
			99	"			•••••••••••••••••••••••••••••	
			English Transfer	M'Cov.			Victoria (Australia)	Bolivia (S. Amer.)
			Prosopiscus,	Salter, 18	66.		The second secon	
			minor,	Salter.		Himalaya, Niti(E.I.).		
			Psilocephalus	, Salter,	1866.			
Llan.			inflatus,	Salter.	(Wales) Iago, Borth-			
					wood, Portmadoc.			
99			innotatus,	"	(Wales) Llanerch, Penmorfa, &c.	Bit to the state of the state o		
			Ptychaspis, H	Iall. 1863.	Telimoria, ac.			
Potsd	am				(Wisconsin)RiverBa-			
				1	raboo.			
,,,			granulosus,	Hall.	(Wisconsin) Trempa-			
					leau, Minisca River.			
			Minisca-ensis, Minnesot-ensis,	"	N. Wisconsin, Penn-			
11			minnesot-ensis,	"	sylvania.			
,,			var. limbatus,		N. Wisconsin.			
,,,			subclavatus,	Billings.	(Can.E.) Point Lévis.			
,,			sp. ind.	**	Trempaleau.			
-	~		Ptychopyge,	Angelin,	1852 (Asaphus).	(0 1) 11 1		
Reg.			aciculata,			(Sweden) Aland.		
29 1	,		angustifrons,	Daiman.		Heda.		
20 30		Pleta	applanata,	Angel.	Isle Odinsholm (Rus-			
,, ,	,		appainted,		sia), (Sweden) Mt.			
					Kinnekulle, Ves-			
					trogothia.	(0 2 2 2		A THE WAY
" "	**	,,	elliptica,	**		(Sweden) Fagelsang		
1	D		glabrata,	Angel		Scania. (Sweden) Mt. Kinne		
" "			giaorata,	Angel		kulle, Vestrogothia		
Pleta			globifrons,	Eichw.		Réval (Baltic).		
		Pleta				(Swed.) Scania, Rops	-	
						cha (Russia).		
33	**	,,	limbata,	.,,		(Swed.) Aland, (Rus	-	
			madia			sia) Poulkova.		
33	22		. media,	. ,,		(Sweden) Scania, Fa gelsang.		
1			multicostata,					
"	"		punctata,	"		Sweden.		
Pleta	, R	eg. C	rimulosa,	"		(Swed.) Aland, Dale		
1		327				carlia,(Russ.)Govt		
1			Dhambiank	mag 4	La 1050 (A	St. Petersburg.		
Plote			conulus,	Eichw	lin, 1852 (Ampyx).	(Russia) Poulkova.		
			culminatus,	Angel		1 4 1 M. W.	-	
reg.	20.		- Committee of	Tinger		kulle.		
,,,	**		. depressus,	,,		. (Swed.) Draggo-bro),	The state of the s
1	-			,,		Dalecarlia.		
"	D	*******	Scanicus,	,,,		. (Sweden)Strapperup),	
	-	- 0	- the state of			Scania.		
		2.	. setirostris,	"		. (Swed.) Draggo-bro.		
,,			tumidus,			36. 77. 1 11		

Subdivision.	Genera, Species, and Author.	Primordial.	Lower Stage.	Middle Stage.	Upper Stage.
	Remopleurides, Portle	ck, 1843.			
Queb. G		Stanbridge (Can. E.).			-
ČH	Canadensis, ,,		Clarence (Can. E.).		
Carad	Colbyi, Portlock				
			sertcreate, &c., (N.		
	dome eminifor		Wales) Bala. (Irel.) Tyrone, De-		
,,	dorso-spinifer, ,,	***************************************	sertcreate, Water-		-
			ford, &c.		
The Contractor	lateri-spinifer, ,,		(Irel.) Tyrone, De-		
,,	lateri-spiniler, ,,		sertcreate, &c.		
	longicapitatus, ,,		(Irel.) Tyrone, De-		
	,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	sertcreate.		
,,	longicostatus, "		(Irel.) Tyrone, De-		
			sertcreate, Kildare.		3
,,	longispina, ,,		(Irel.) Tyrone, De-		
**			sertcreate, (Wales)		
			Bala Lake.		
Pleta	nanus, Duc de Leuchtenb		(Russia) Poulkova.		
	Lawrow.		Silesia (drift)	Russia.	
Carad	obtusus, Salter.		Desertcreate, Tyrone		
			(Ireland), Rhiwlas		
D' N D	Daniel Dilliana	(Nowfoundland W)	(N. Wales).		
Div. N, Point	Panderi, Billings.	(Newfoundland W.) Tablehead.			
Lévis, Queb.G.	plateana Paus	Tablenead.	Worford to (Ind)		
Carad	quatuor-lineatus, Angel.		Sweden (drift) Mt		
,, 1	quatuor-meatus, Anger		Kinnekulle.		
Fauna D. d. 3,	radians				
Car. 3, highest			las, (Bohem.) Be-		
Cur. o, mgnese		and the same of the same	raun, Carlshütte.		
N.P., Queb.G. ?	Schlotheimi, Billings.	(Newfoundland W.)			
and if decored		Tablehead.			
Carad. 2	sexlineatus, Angel.		Sweden (drift), Mt.		
			Kinnekulle.		
Carad	sp. ind. Salter.		Merionethsh., Bala L.		
	Rhodope, Angelin, 1852	(Illænus).			
Pleta, Corall.L.,	lata?, Angel.		(Sweden) Mt. Mosse-		Isle Oesel (Baltic).
Reg. C.			berg, Vestrogothia,		
			(Russia) Poulkova.		
Reg. C	lineata, ,,		(Swed.) Ostrogothia.		
" D	oblongata?, "				153
	G. N		way) Christiania.		
r1	Salteria, Wyv. Thomson.		Waterford (Indeed)		
Lian	involuta, Wyv. Thomson.		Cimen Amahira		
U.Llan	primæva, ,,		Girvan, Ayrshire		
	Coo Damanda 1946		(S.W. Scotland).		
Fauna C	Sao, Barrande, 1846.	(Boh.) Skrey Schists,			
Fauna C	mrsuta, Darr.	(Wales) Dolgelly.			
Party Val	Shumardia, Billings, 18	65.			
Div. P, Queb.G.		Newfoundl., N. & W.			
Queb. G		(Can.E.) Point Lévis.			
	Solenopleura, Angelin,				
Reg. B	brachymetopus, Angel.	(Sweden) Scania, An-			
		drarum.	He was the second		* 100
	caniculata, ,,	,, ,,			
,. ,,					
		(Sweden) Aland, Os-			
" A	? stenometopa, ,,	trogothia.			
" А	? stenometopa, ,, Sphærexochus, Beyri	trogothia. ch, 1845.			(0. 1. 1. 1.
" A	? stenometopa, ,, Sphærexochus, Beyri	trogothia.			(Sweden) Mts. Olle
" А	? stenometopa, ,, Sphærexochus, Beyri	trogothia. ch, 1845.			berg and Mosse
" A Reg. D, E	? stenometopa, ,, Sphærexochus, Beyri angustifrons, Angel.	trogothia. ch, 1845.			
,, A	? stenometopa, ,, Sphærexochus, Beyri angustifrons, Angel. Boops, Salter.	trogothia. ch, 1845.	(S. W.) Sholes Hook.		berg and Mosse
" A Reg. D, E	? stenometopa, ,, Sphærexochus, Beyri angustifrons, Angel. Boops, Salter.	trogothia. ch, 1845.	(S. W.) Sholes Hook. Chair of Kildare		berg and Mosse
,, A	? stenometopa, ,, Sphærexochus, Beyriangustifrons, Angel. Boops, Salter. calvus, M'Coy.	trogothia. ch, 1845.	(S. W.) Sholes Hook. Chair of Kildare (Ireland).		berg and Mosse berg, Dalecarlia.
Reg. D, E Llandov Div. 4, Anticos.	? stenometopa, ", Sphærexochus, Beyriangustifrons, Angel. Boops, Salter. calvus, M'Coy. Canadensis, Billings.	trogothia. ch, 1845.	(S. W.) Sholes Hook. Chair of Kildare (Ireland).	Anticosti. S.W.Point.	berg and Mosse berg, Dalecarlia.
Reg. D, E Llandov Div. 4, Anticos.	? stenometopa, ", Sphærexochus, Beyriangustifrons, Angel. Boops, Salter. calvus, M'Coy. Canadensis, Billings.	trogothia. ch, 1845.	(S. W.) Sholes Hook. Chair of Kildare (Ireland). Norway, Sweden, Isle	Anticosti. S.W.Point.	berg and Mosse berg, Dalecarlia.
Reg. D, E Llandov Div. 4, Anticos.	? stenometopa, ", Sphærexochus, Beyriangustifrons, Angel. Boops, Salter. calvus, M'Coy. Canadensis, Billings.	trogothia. ch, 1845.	(S. W.) Sholes Hook. Chair of Kildare (Ireland). Norway, Sweden, Isle Dago, Pyhalep	Anticosti. S.W.Point.	berg and Mosse berg, Dalecarlia.
,, A Reg. D, E Llandov Div. 4, Anticos.	? stenometopa, ,, Sphærexochus, Beyriangustifrons, Angel. Boops, Salter. Canadensis, Clavifrons, Sars.	trogothia. ch, 1845.	(S. W.) Sholes Hook. Chair of Kildare (Ireland). Norway, Sweden, Isle Dago, Pyhalep (Baltic).	Anticosti. S.W.Point.	berg and Mosse berg, Dalecarlia.
,, A Reg. D, E Llandov Div. 4, Anticos.	? stenometopa, ", Sphærexochus, Beyriangustifrons, Angel. Boops, Salter. M'Coy. Canadensis, Clavifrons, Sars. cephaloceros, Niekowski.	trogothia. ch, 1845.	(S. W.) Sholes Hook. Chair of Kildare (Ireland). Norway, Sweden, Isle Dago, Pyhalep (Baltic). Russia.	Anticosti, S.W.Point.	berg and Mosse berg, Dalecarlia.
,, A Reg. D, E Llandov Div. 4, Anticos. Reg. D, E	? stenometopa, ", Sphærexochus, Beyriangustifrons, Angel. Boops, Salter. M'Coy. Canadensis, Billings. clavifrons, Sars. cephaloceros, Niekowski. conformis, Angel.	trogothia.	(S. W.) Sholes Hook. Chair of Kildare (Ireland). Norway, Sweden, Isle Dago, Pyhalep (Baltic). Russia. (Sweden) Dalecarlia.	Anticosti, S.W.Point.	berg and Mosse berg, Dalecarlia.
,, A Reg. D, E Llandov Div. 4, Anticos. Reg. D, E	? stenometopa, "," Sphærexochus, Beyriangustifrons, Angel. Boops, Salter. M'Coy. Canadensis, Clavifrons, Sars. cephaloceros, Niekowski. conformis, Angel. coniceps,D. de Leuchtenb.	trogothia.	(S. W.) Sholes Hook. Chair of Kildare (Ireland). Norway, Sweden, Isle Dago, Pyhalep (Baltic). Russia. (Sweden) Dalecarlia. (Russia) Poulkova.	Anticosti, S.W.Point.	berg and Mosse berg, Dalecarlia.

Subdivision.	Genera, Species Author.		Primordial.	Lower Stage.	Middle Stage.	Upper Stage.
Reg. C?		Angel.		(Swed.) Ostrogothia.		Name of the last o
" D, E	granulatus,	,,,		" Dalecarlia		Sweden.
		Ioffman.		(Russia) Pulkova.		
	idiotis,	Salter.		Himalaya, Niti Pass		
0 1				(E.I.).		
Carad	juvenis, Poi	rtl., MS.		Chair of Kildare (Ire-		
D T				land).	The same of	
Reg. E	latifrons,	Angel.		Chair of Kildare, Wa-	(0)	Sweden.
Col.Zippe, E.e.1,	mirus,	Beyrich.		Chair of Kildare, Wa-	(Ohio) Springfield,	Dudley, Malvern
CL., Niag.,Ca-				terford (Ireland).	(Indiana) Madi-	
rad., Llandov., W.					son, (Boh.) Kozel,	
				The same of the same of	Listice, Wohrada, St. Iwan, &c.	(Tennessee) Deca tur Co.
СН	narrus	Billings		Mingan Isles (G. St.	ist. Iwan, cc.	tur Co.
·	par vuo,	Diningo		Lawr.).		
	platycranium, Ho	ffman		(Russia) Poulkova.		
		utorga).		(4445-14)		
Reg. E	scabrides.	Angel.				(Sweden) Gothland.
" D, E	Wegelini,	11		(Sweden) Dalecarlia. Condros (Belgium).		Sweden.
	sp. ind., Gosse	let, Bar-		Condros (Belgium).		
		rande		The second secon		
?	,,	Selwyn.)	Victoria (Australia).	
	Sphærocoryph	e, Ange	lin, 1852 (Cheirurus).		
	aries. D. de Lei	uchtenb.		(Russia) Poulkova.		
	dentata,	Angel.		Sweden.		Sweden?
" D, E	granulata,	,,,		Sweden. ,, Dalecarlia		Sweden.
Div. 1, A. G.,	Salteri,	Billings.			(Anticosti) Junction	
Llandov.		10			Cliff.	
D (Sphærophthal	mus(O	LENUS).	National Contraction		
Reg. A	alatus,	Boeck.	(Sweden) Andrarum,			
			Norway, (Wales)			
II Time		701.211	Dolgelly.			
U.Ling.		Phill.	Moel Gron (Wales).			
Reg. A	pagettifer,	Angel.	England?, (Wales)			
			Dolgelly, (Sweden) Andrarum.			
II Ling hode	homilia	Dian	Rhiwfely Slates (N.			
U.Ling. beds	numins,	Phui.	Wales).			
Black Shale	nocton	Salton	Malvern (England),			
Diack Share	pecten,	isaitei.	MoelGron(Wales).			
Reg. A	teretifrons	Angel	(Sweden) Andrarum.			
reg. 21	Staurocephalu	s Rarr	ande. 1846.			
Reg. D, E	clavifrons.	Angel.	, 1010.	(Sweden) Mt. Ollo-		Sweden.
,	out the outer			berg Vestrogothia		
Woolhope	Davisii,	Salter.		ocibi restrogotana		Sandbanks, Presteign
						(Wales).
Carad	globiceps,	Portl.		S.W.Scotland, (Irel.)		
				Desertcreate.		
,,	Maclareni, W. Th	nomson.				
		(CONTRACTOR OF THE OWNER)		Scotland).		
" W.,Reg.E.	Murchisoni,	Barr.		Rhiwlas (Wales), Ch.		(Bohem.) Kolednik
				of Kildare (Irel.).		Listice, Kozel, St
,,		nomson.		S.W. Scotland.		Iwan, Lochkov, Lo
	Acidaspis.	1050				denitz, &c.
	Stygina, Salter,	1852.		T	(Insland) C.1	
Carad., U.Llan-	latifrons,	Porti.		Tyrone, Desertcreate	(Ireland) Galway.	
dov.	M	M		(Ireland).		
Llan	Murchisoni,	Murch.		Carmarthen, Pensarn,		
	Marshani	Q.11		(S. Wales).		
	Musheni,			Sholes Hook, Haver-		
Carad	sp.,	"		fordwest(S.Wales).	7	
	Symphysurus,	Golde	ss 1843	ioruweso(is. wates).		
Reg. C?	brevicens	Angel	88, 1010.	(Sweden) Vestrogo.		
reg. 0	oreviceps,	Aliget.		thia, Olthorp.		
	læviceps,	Dalm		Sweden.	1000	
Reg. C				(Sweden) Scania.	1 1	
B	Telephus, Bar	rande 1	852.	(casa) souther		
	Americanus.	Billings	(Newfoundl. W.&N.)			
			Pistolet Bay &c.			
Div. N, P,Queb.				Norway		
Div. N, P,Queb. G.	bicuspis,	Angel.				
Div. N, P,Queb. G. Reg. D. a ?	bicuspis, fractus,					
Div. N, P,Queb. G. Reg. D. a ?	fractus,					
Div. N, P,Queb. G. Reg. D. a? Fauna D, very Micac. Schists, yellow-grey.	fractus,			(Bohemia) Lodenitz,		
Div. N, P,Queb. G. Reg. D. a? Fauna D, very Micac. Schists,	fractus,	Barr.		(Bohemia) Lodenitz, Königshof. Norway.		

Subdivision.	Genera, Species, and Author.	Primordial.	Lower Stage.	Middle Stage.	Upper Stage.
	Tiresias, M. Coy, 1846.			2	of the law dispose
Carad	insculptus. M'Cov.		(Irel.) Chair of Kild.		The second second
	Trapelocera, Corda, 18	47 (ACIDASPIS).			Dudler (Frederick)
w	Barrandei, Salter, Fletcher.			***************************************	Dudley (England).
Reg. E				å	(Sweden) Gothland
" D, E	? breviloba				., Dalecarlis
	Portlockii. Barr.				Bohemia.
	vesiculosa, Triarthrellus, Hall, 18				"
	Aurora, Hall.	(N. Wisconsin) La			
		Grange Mountain.			
	Triarthrus, Green, 184	6.	OT T. 11 26:13		
Tr., Utica Slate,	Beckii, Green.				
H. R. G.			&c., Pennsylvania, Ohio, (C. E.) Mon-		
			treal, R. St. Anne,		
		THE RESERVE OF THE PARTY OF THE	Henrysville, (Can.		
			W.) Russell.		
Utica Slate			(Can. W.) Whitby.	The state of the s	
Div. N, P, Queb. G.	Fischeri, Billings.		Pistolet Bay &c.		
Utica Slate	glaber,		(Can. E.) L. St. John,		
C THE WHITE IT	Smoot, "	The state of the s	Grondines.		
,, ,,	spinosus, "		(Can. E.) Gloucester		The survey of
	San	0.00	Township, (Can.	The second second	
Por P C	Trilobites, Schloth. 182	O (Genera dubia).	W.) Russell.		
Reg. B, C Alum Slates	alatus Rocck	Sweden. Norway.			
	depressus, Angel.		Sweden.		
	elegans, Boeck.		"		
	elliptifrons, Esmark.		,,		(T) 1
Fauna E	ferus, Barr.	C		***************************************	(Bohemia) Listice.
Reg. B, C Fauna D	inchoatus Angel.	Sweden.	(Bohem.) Königshof.		
, ,,	infaustus.				
Reg. B, C	lyra, Boeck.	Sweden.			1
Fauna D	musca, Barr.		" Königshof.		
" " ?	mutilus, ,,		Rohemia "		
" E	orphanus.		Doneman	Bohemia?	(Bohemia) Ratinka.
Alum Slates	pusillus. Sars.				
Fauna D?		Norway.			
,, ,,?	ungula, ,,		"		
., ,,	Trimerus, Green, 1832	(see HOMALONOTUS)	"		
	Trinodus, M'Coy (see A				
	Trinucleus, Lhwyd, 16		9.	and the same	300
Reg. D. b			(Sweden) Dalecarlia.		
The same of the sa		Swaden Norway	(Boh.) Colony Zippe.		
		Sweden, Norway.	(Bohem.) Königshof,	March Control	
			Swed., Engl., Irel.		
,, ,,	Caractacus, "		Bohemia, (France)	the same of the sa	
			Normandy, St.Bri- gitte.		
Up. Bala	Murch		(England) Malvern,		
	,, aguicul		(W.) Meifod, Alt-		
		2 1 1	y-Anker, &c., Wex-		
Pag D			ford, Tyrone(Irel.).		
			(Swed.) Mt. Kinnek. (Swed.) Kinnekulle,		
aum D. a	Darr.		(Norw.)Christiania.	100	
Tr., H. R. G.,	concentricus, Eaton.		Highg. Springs (Vt.),		
Llan., Carad.			N.York, Pennsylv.,		
			(Can.E.&W.)Beau-		
		Programme and the	port, Murray Bay, Montreel L. Sim-		
		2	Montreal, L. Sim- coe, (Irel.) Tirnas-		
			kea, S.W. Scotland,		
			(Engl.) Chirbury		
		4	&c., Coniston Lake,		
			(W.) Bala, Pen-y-		
			Craig, Llangywyw, Glandwr, &c., Boh.		
			Chandwr, &C., Doll.		

Subdivision.	Genera, Species, and Author.	Primordial.	Lower Stage.	Middle Stage.	Upper Stage.
Carad	var. elongatus,		(Incl) Bandaharaia ah		-
Llan			(Wales)Maerdy bach, Cornden Grits, &c.	See I .	
Carad	,, latus, M'Coy		N. Wales.		
	" Portlocki, Salter		Ireland.	DH 150	
Reg. C	coscinorhinus, Ange	L	(Sweden) Scania, Fa-		
" D. a	diagone		gelsang.	m all	
U.Llan	favus Salter	· · · · · · · · · · · · · · · · · · ·		The Berwyns, and N.	
Llan	fimbriatus, Murch		(Ireland) Wexford.	& S. Wales.	
			Tyrone, (Wales) Radnorsh., Builth, Bala, Welchpool.		
Reg. D. a	foveolatus. Ange	L	Norway.	3	
Carad., W	gibbifrons, M'Coy		(Wales) Pen-y-Craig,	,,,,,,,,	Wales.
			Tre Gill, &c.		114400
L.Llan		(Wales) St. David's Head.			
Fauna D. 2, 4, 5	Goldfussii, Bar	· · · · · · · · · · · · · · · · · · ·	(Bohem.)Mt.Drabow,		
			(Spain) Sierra Mo-		
	granulatus, Wahlent).	rena, N. York, Can.		
Llan	Lloydii, Murel	i	(Wales) Builth, Lan-		The state of the s
			gadock,&c.,(Shrop-		
			shire) Chirbury.		
,,	Murchisoni, Salter	· · · · · · · · · · · · · · · · · · ·	(Engl.) Shelve, (W.)		
	ornatus, Sternberg	ţ.	Cefn Gwynlle.		
	ornacio, Diernoci		denitz, &c., Bel-		
			gium, (Fr.) Angers.		
,,	Pongerardi, Rouaul	t			
Fauna D	December Dow		Vitré, &c.		
	quatuor-lineatus, Ange	1	Sweden.		
	quatuor-spinus		Sweden ?. Norway.		
Llan., Carad	radiatus, Murch	1	(Ireland) Wexford,		
			Tyrone, Shropsh.,		
			(W.) Welchpool, Dinas, Mowddy,		
			Dinas, Mowddy, Merioneth.		
D. d. 1	Reussii, Bar	r.	(Bohem.) Rokitzan.		
L.Llan	Sedgwickii, Salte	r. (Wales) Festiniog.			1
Carad., D. d	seticornis, Hising	ŗ.	(Wales)Bala, Tynant,		
			&c., (Irel.) Water- ford, Tyrone, Wex-		
			ford, S.W.Scotland,		
			Sweden, Bohemia,		
			(Belg.) Gembloux.		
Carad	Thersites, Salte	r	(Irel.) Tramore, Wa-		
Fauna D. d. 4	ultimus, Bar		terford. (Bohem.) Königshof.		
Reg. D. b	Wahlenbergi, Rouaul		(Sweden) Mts. Mosse-		
0	=granulatus, Lovés		berg, Olleberg, Bil- lingen.		
	sp. ind. Gossele	t.	Condros, Namur (Bel-		
			gium).		
	Zothur Banden 199		Gembloux (Belgium).		
Pleta ?	Zethus, Pander, 183. biplicatus, Eichy		(Russia) Poulkova,		
1 10th 1	orphicatus, Elenv		Popova.		
" Inflamm.	rex, Niesz	k	(Esthonia) D'Erras,		
Schist.			Wesenberg, Isle		-
	:_ i i		Odinsholm.		
	sp. ind. Bar	г.	(Belgium) Gembloux.		

The following important addition to the list of Trilobites is due to the great kindness of M. Barrande. Sixteen species have been omitted because they are already registered from M. Barrande's several "Défenses des Colonies" recently published.

A TABLE OF TRILOBITES DISCOVERED IN BOHEMIA SINCE 1852.

Stage.	Genus, Species, and Author.	Locality.	Stage.	Genus, Species, and Author.	Locality.
	Acidaspis, Murch.			Cheirurus, Beyrich.	
E. e. 2		Bubowitz.	D. d. 1	nater Barr	Wosek.
D. d. 5		Leiskow.	D. d. 5		Königshof, Leiskow.
		Mnienian.	D. d. 1	min and have	St. Benigna.
F. f. 2 E. e. 2	1 0		D. a. 1	Dalmanites, Emmer.	St. Benigna.
E. e. 2	rara, ,,	Lodenitz.	D 4 1	Daimanites, Emmer.	C4 D
F. f. 2, G. g. 1	sponata, ,,	Mnienian, f. 2, Branik,	D. d. 1	The state of the s	St. Benigna.
		g. 1.	"	perplexus, ,,	Wosek.
F. f. 2	ursula, "	Mnienian.	D 1 1	Dindymene, Barr.	
G. g. 1	victima, "	Branik,	D. d. 1	Bohemica, Barr.	Wosek.
	Æglina, Barr.			Harpes, Goldf.	a
D. d. 5		Leiskow.	D. d. 1		St. Benigna.
	gigantea, ,,	Königshof.	H. h. 1		Srbsko, Hostin.
D. d. 1		St. Benigna.		Homalonotus, König.	
	Agnostus, Brongn.		D. d. 5	inexpectatus, Barr.	Königshof, Leiskow.
D. d. 1	caducus, Barr.	St. Benigna.	D. d. 4	medius, "	Zahorzan.
,,	perrugatus, ,,	,,	,,	minor,	Wraz.
	similaris, ,,	.,,	ALL SHOT OF THE PARTY OF THE PA	Illænus, Dalm.	
	Amphion, Pander.		D. d. 1	advena, Barr,	Wosek.
D. d. 1	senilis, Barr.	Wosek.	,,	aratus,	St. Benigna.
	Ampyx, Dalm.		,,	Bohemicus, ,,	Wosek.
D. d. 5	gratus. Barr.	Leiskow.		calvus, ,,	
	tenellus, "	"	D. d. 5	hospes, "	Königshof.
"	Areia, Barr.	"	"	oblitus, "	Kosow.
D. d. 5	Bohemica Barr.	Leiskow.	"		Wosek, St. Benigna.
THE STATE OF THE S		Nussle.	"	Zaidlani "	Loiskow.
	Asaphus, Brongn.	2.000101	K-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	Lichas, Dalm.	LIOIDAO W.
D. d. 1		Wosek.	D. d. 1		Wosek.
	quidam, ,,	The state of the s	G. g. 1		Branik.
	Bohemilla, Barr	33	D. d. 5	rudis ,,	Leiskow.
D. d. 1		St. Benigna.	and mining	Ogygia, Barr.	Delenow,
	Bronteus, Goldf.	ot. Dellights	D. d. 1	crassa Barr	St. Benigna.
G. g. 1	acompostatus Rarr	Branik.	D. a. 1	11	Wosek.
F. f. 2.		Srbsko.	D. d. 5	sola, ,,	Königshof.
E. e. 2	asperulus, "	Dworetz.	D. u. o	Placoparia, Corda.	Komgsnot.
G. g. 1	expectans, ,,	Lockhow.	D. d. 2	grandie Bann	Trubskow,
F. f. 2		Srbsko.	D. u. 2	Proetus, Steininger.	Truoskow,
CONTRACTOR DOLLARS		STUSKU.	G. g. 1	cometus, Steininger.	Branik.
**	innocuus, "	Mnienian.	D. d. 5	parditus, Darr.	Leiskow.
	perlongus, "		D. d. J	perditus, "	
31	Rhinoceros, "	"	D. d. 1	primulus, "	St. Benigna.
T " 0	Scharyi, "	Waladaib	D. d. 5	solus, ,,	Königshof.
E. e. 2		Kolednik.	"	vicinus, ,,	Branik.
n 4 0	Calymene, Brongn.	Tunbaka		Sphærexochus,	The control of
D. d. 2		Trubsko.	E. e. 2	Beyrich.	Tistian
D. d. 5		Kosow.	D 3 5		Listice.
	Carmon, Barr.	St Ponisma	D. d. 5	latens, ,,	Königshof.
D. d. 1	Choimman Part.	St. Benigna.	F. f. 2	Tripuelous Thurs	Mnienian,
	Cheirurus, Beyrich.	Wosek.	D. d. 1	Trinucleus, Lhwyd.	Wosek.
D. d. 1	comes, Barr.		D. a. 1		
D. d. 2	0	Mount Drabow.		Trilobites indetermi-	Transmit also
D. d. 5	77 1 1 1	Königshof.	D 11	nate.	TT 1
D. d. 1	Fritschi, ,,	St. Benigna.	D. d. 1		Wosek.
D. d. 5		Leiskow.	D. d. 5	expectatus, ,,	Königshof.
	neuter,	Butowitz.			

The Table subjoined, showing the vertical Distribution of Trilobites in Bohemia, greatly enriches the 'Thesaurus.' It has been drawn up by M. Barrande, and by him presented for insertion here. Its principal object is position and vertical range; but he has also inserted the stages of many species with a particularity beyond my power. The 'Thesaurus' usually supplies the localities.

Stage.	Genus, Species, and Author.	Stage.	Genus, Species, and Author.	Stage.	Genus, Species, and Author.
D. d. 1, 2, 3, 4, 5 D. d. 5 E. e. 2	desiderata (Col.), ,, Dormitzeri, Corda. Geinitziana, ,,	D. d. 4 F. f. 2	Keyserlingi, ,,, lacerata, ,,, Laportei, Core Leonardi, Ba	F. f. 2	

Stage.	Genus, Species, and Author.	Stage.	Genus, Species, and Author.	Stage.	Genus, Species, and Author.
E. e. 1, 2, F. f. 2	radiata, Goldfuss.	F. f. 2, G. g. 1	pauper, Barr.	E. e. 1, 2	bulliceps, Barr.
E. e. 2	rebellis, Barr.	E. e. 2	Quenstedti, "	F. f. 2	omonomotoro
"	Roemeri, ,,	D. d. 3		E. e. 2, F. f. 2, G.	fooundue
	solitaria,	E. e. 2, F. f. 1, 2,			reculidus, ,,
F. f. 2	subterarmata, "	G. g. 1, 2,		D. d. 4, 5, Col. E.	Glockeri, ,,
D. d. 4	tremenda, ,,	D. d. 2, 3, 4, 5	tumescens, Barr.	e. 1, 2,	
E. e. 2	tricornis,	The second second second	Cromus, Barrande.	F. f. 2	intermedius, ,,
F. f. 2	truncata, Corda.	E. e. 2	Beaumonti, Barr.	F. f. 1	miser,
E. e. 1, 2	Verneuilli, Barr.	19	Bohemicus, "	F. f. 2	signatus, Corda
F. f. 2			Cyphaspis, Burm.	E. e. 2	trapeziceps, Barr.
	Æglina, Barrande.	F. f. 1, 2, G. g. 1	Barrandei, Corda.		Volborthi, ,,
D. d. 3, 5	pachycephala, Corda.	D.d.5,Col.E.e.1,2		D 1 -	Phillipsia, Portlock.
D. d. 1, 3, 4, 5	rediviva, Barr.	F. f. 2		D. d. 5	parabola, Barr.
D. d. 1, 5	speciosa, "	77 0	Davidsoni, ,,	D 11	Placoparia, Corda.
D 1 1	Amphion, Pander.		depressa, ,,	D. d. 1	Zippei, Corda.
D. d. 1		**	Halli, "	E - 0	Proetus, Steininger.
D. d. 5	Ampyx, Dalman.	"	humillima, ,,	E. e. 2	Archiaci, Barr.
D. a. 9	Portlocki, Barr.	**	novella, ,, Dalmanites, Emmer.	F. f. 2	Actronom
E. e. 2	Arethusina, Barr.	D. d. 5	Angelini D.	"	Rohamiana
	nitida, Barr. Bronteus, Goldfuss.	G. g. 1		F. f. 2, G. g. 3	complenatus Powe
F. f. 2	angusticeps, Goldfuss. Barr.	D. d. 2, 3	Hawleyi, Barr.	F. f. 2	ometric
	The state of the s	D.d.5, Col.E. e. 1	and a	E. e. 1, 2, F. f. 1	donomia
	1	D. d. 1		F. f. 2	eremita
F. f. 2, G. g. 1	Brongniagti	F. f. 2, G. g. 1, 3	Ponesi	"	fallay
F. f. 2	campanifer, Beyr.	F. f. 2, G. g. 1	rugosa, Corda.	"	frontalis, Corda
	cœlebs, Barr.	D. d. 4, 5		F. f. 2, G. g. 1	gracilis, Barr.
	Dormitzeri	-, -, -, -, -, -, -, -, -, -, -, -, -, -	Deiphon, Barrande.	F. f. 1	hotoroalitus
E. e. 2	Edwardsi, "	E. e. 2	Forbesi, Barr.		inganicostatus
F. f. 2	elongatus, ,,		Dindymene, Barr.		insons,
E. e. 2	Haidingeri, ,,	D. d. 5	Frederici-Augusti,	E. e. 2	intermedius, ,,
F. f. 2	Hawlei, "		Corda.	F. f. 2	latens,
	Kutorgai, "	D. d. 1, 5	Haidingeri, Barr.		lepidus, ,,
,,	oblongus, Corda.		Dionide, Barrande.	F. f. 2	lusor,
,,	palifer, Beyrich.	D. d. 1, 3, 5		E. e. 2, F. f. 1	micropygus, "
E. e. 1, 2, 3	Partschi, Barr.		Harpes, Goldfuss.	F. f. 2	mœstus, ,,
E. e. 2	planus, Corda.		crassifrons, Barr.	11.	myops, ,,
F. f. 2, G. g. 1			Montagnei, Corda.		natator, ,,
	Sieberi, Corda.	E. e. 2		"	neglectus, ,,
E. e. 2	simulans, Barr.		reticulatus, Corda.	7 " 0 0	orbitatus, "
F. f. 2		E. e. 2	ungula, Sternberg.		
	thysanopeltis, ,,	E. e. 2, F. f. 1, 2,	venulosus, Corda.	F. f. 2	
P 6 1	transversus, Corda.	G. g. 1.	vittatus, Barr.		Ryckholti, ,,
F. f. 1 F. f. 2, G. g. 1	umbellifer, Beyrich.	E. e. 2		F. f. 2 G. g. 2, H. h. 1	serus, "
F. f. 2	viator, Barr.	Marian Add S	Harpides, Beyrich. Homalonotus, König.	F 6 9	tubereuletue, ,,
F. 1. 2	Calymene, Brongn.	D. d. 2	- C - 1		unguloides, "
D. d. 1	Arago, Rouault.	D. u. 2	Illænus, Dalman.	E. e. 2	venustus
E. e. 2, F. f. 2	Blumenbachi, Brongn.	E. e. 1, 2	Bouchardi, Barr.		Remopleurides,
D. d. 3, 5			hoenne		Portlock.
E. e. 2	diademata, Barr.	D. d. 2, 3, 4, 5		D. d. 5	radians, Barr.
F. f. 2, G. g. 1	interjecta, Corda.	D. d. 3, 4, 5			Sphærexochus, Beyr
D. d. 2, 4	parvula, Barr.		tardus, ,,	D.d. 4, Col. E. e. 2	mirus, Barr.
D. d. 1, 2, 4		D. d. 2, 4	transfuga, ,,		Staurocephalus,
E. e. 1, 2		D. d. 5	Wahlenbergianus, ,,		Barrande.
	Carmon, Barrande.		Lichas, Dalman.	E. e. 2	Murchisoni, Barr.
D. d. 5		E. e. 2	ambigua, Barr.		Telephus, Burrande.
	Cheirurus, Beyrich.	F. f. 2, G. g. 1		D. d. 5	fractus, Barr.
E. e. 2	Beyrichi, Barr.	E. e. 2	heteroclyta, ,,	200	Trinucleus, Lhwyd.
E. e. 1, 2		D. d. 5, Col.E. e. 2			Bucklandi, Barr.
D. d. 2, 3, 4		D. d. 5		D. d. 2, 3, 4	
F. f. 2		D. d. 5, Col.E. e. 2			ornatus, Sternb.
F. f. 1, 2, G. g. 1	gibbus, Beyrich.	E. e. 2	simplex, Barr.		ultimus, Barr.
D. d. 4, 5	globosus, Barr.	D 4.1	Ogygia, Barrande.		Trilobites undeter-
E. e. 2			desiderata, Barr.	D 4 1	mined.
D. d. 4, Col. E. e.	insignis, Beyrich.		Phacops, Emmerich.		contumax, Barr.
10		F. f. 2, G. g. 1	Boecki, Corda.	D. d. 5	expectatus, ,,
1, 2. D d 4	incocialia D.			100000	inchastus
D. d. 4	paglaatua	F. f. 2	breviceps, Barr.	D "d 3	inchoatus, ,,
D. d. 4	insocialis, Barr. neglectus, ,, obtusatus, Corda.		breviceps, Barr.	D. d. 3 D. d. 5	infaustus, ,,

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Summs

	Number of Countries inhabited.		44
	Number of Species.	F-25088400-000-I-800-4-288080-2-88000-5-5	695
-	Appearances,		897
-	(Europe). Great Total of		
-	Total Appearances		653
	Bavaria.		5 1
	Australia.		4
	LeibnI		
	Norway.		20
	Sweden.		087
	Russia proper.		=
-5	Baltic Russia.		233
&c.			_
EUROPE	Podolia.		4
10	Thuringia, Harz.		00
I H	Bohemia.		20
A	Sardinia.		-
	Portugal.		00
	Spain	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	200
	France,		4
			86
	Wales.	H 10 1HH 10 10 1 11 1 1 1 1 1 H 1 1 H 1 1 H 1 1 H 20 H 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	8
	England.		356
	Scotland.		133
-	Ireland.		8
	Total (America).	: : : : : : : : : : : : : : : : : : :	5 339 11 268 36
	Vermont		=
	Newfoundland.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	8
	Labrador.		00
	Alingan Islands.		10
	Anticosti Island.		6
	Nova Scotia.	· · · · · · · · · · · · · · · · · · ·	00
	New Brunswick.		_
1		: :01 : : : :444 - : : : : : :01 :00 : : : :010 : : : :01 - 01 : : : : : : : : : : : : : : : : : :	+
	Canada East.		1654
	Canada West.		
1	New York.		25
ERICA	Pennsylvania.		0
BR	Kentucky.		
AMD	Tennessee,		0
A	Texas.		00
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	Iowa,		
	Wisconsin.		#
	Minnesota.		2
	N.W. Michigan.	α	0
	Rupert's Land.		-
	Arctic America.		-
13	Bolivia, S. America.		-
-	i i i i i i i i -		
		Acenthopyge Acerocare Acidaspis Acidaspis Acidaspis Acidaspis Aghaspis Aghaspis Amphyx Amphion Amphyx Angelina Anomocare Anopolenus Arethusina Arethusina Arethusina Arethusina Arethusina Arethusina Arethusina Arethusina Arethusina Basilicus Basilicus Basilicus Basilicus Bathyurus Bathyurus Bathyurus Bathyurus Carmon Centropleura Carmon Celhuus Concocyphe Corricocephalus Crepicocephalus Crepicocephalus Crorialurus	
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	Genera.	Acanthopyge Acerocare Acidaspis Acerocare Acidaspis Acidaspis Aglaspis Aglaspis Agraphus Amphion Amphyx Angelina Anopocare Anomocare Anopocare Arraphus Arraphus Arraphus Barrandia Basilicus Bathyurus Bathyurus Bathyurus Bathyurus Bathyurus Bathyurus Calymene Carmon Celmus Centropleura Cheirurus Chericocephald Cromus Cropococyphe Corynexochus Cerepicocephald Cromus Cropococyphe Corynexochus Cropus Corynexochus Cropus Corynexochus Cromus Cropus Cro	
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Summary (Geographical) (continued).

	Number of Countries inhabited.	
12	Number of Species.	
-	Great Total of Appearances.	
	Total Appearances (Europe).	
	Australia.	
	India.	
	Norway.	
	Sweden.	10 10 11 12 13 11 12 13 13 14 15 15 15 15 15 15 15
	Russia.	
103	Baltic Russia.	
&c.	Belgium.	
	Podolia,	
EUROPE	Thuringia, Harz.	
×	Bohemia,	
03	Bavaria.	
1	Portugal.	
1	Spain.	
	France.	1 : : 6 : : : : : : : : : : : : : : : :
	Wales.	
	England.	
	Scotland.	2 1 1 1 1 1 1 1 1 1
	Ireland.	-
	Total Appearances (America).	
		1
	Labrador. Newfoundland.	
	Mingan Isles.	0
•	Anticosti Island.	
	Nova Scotia.	; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;
	Vermont,	1::::::::::::::::::::::::::::::::::::::
	Canada East.	
	Canada West.	
	New York.	
A.	Pennsylvania.	
AMERICA	Tennessee.	
ER	Texas.	
1	Kentucky.	
4	Virginia.	0
	Ohio.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Illinois.	
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	LewoI.	
	Wisconsin.	: :0: :0 : : : : : : : : : : : : : : :
	Minnesota.	
	N.W. Michigan.	
	Rupert's Land.	
	Arctic America.	
	Bolivia.	
	Genera.	Cyphoniscus Cyrtometopus Dalmania Disclocephalus Dindymene Dionide Dolichometopus Dysplanus Endymionia Endymionia Erinnys Erix Euloma Eurycare Harpes Holocephalina Holocephalina Holocephalus Illenus
1		Cyphon Cyrton Dalman Deipho Discho Dindy Eryx Eulow Eryx Eulow Hormal Holow Holow Holow Holow Homal Holow Homal Dingy Dingy Dindy Nieus Nieus Nieus Nieus Nieus Octobell Olemel Olemel Olemel Olemel Olemel

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	Number of Countries inhabited.	-0001-804-00008000000000000-505-00-4-00-6050 8
	Number of Species.	-222-844228-27-208221-248400427-0-2882
	Great Total of Appearances.	
	Total Appearances (Europe).	- 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Silesia.	
	Australia.	
	India.	
	Norway.	
	Sweden.	
	Russia.	101 100
&c.	Baltic Russia.	9
	Belgium.	4- 6
PE	Podolia.	
80	Thuringia, Harz.	8
EUROPE	Bohemia.	
E	Portugal.	
1	Spain.	
	France.	
	Wales.	1 :1-18 :31 : : : : : : : : : : : : : : : : : :
	England.	1 : : : : : : : : : : : : : : : : : : :
	Scotland.	
	Ireland.	88 90 91 91 92 93 94 95 95 96 96 96 96 96 96
	Total Appearances (America).	88 1 1 1 1 1 1 1 1 1
	Mewfoundland.	
	Labrador.	
	Massachusetts.	
	Anticosti Island.	
	Nova Scotia.	
	Vermont.	
	Canada East.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
AMERICA	Canada West.	
RI	New York.	1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
18	Pennsylvania.	
A	Virginia.	
	Tennessee.	
	Ohio.	
1	Indiana.	
	Illinois.	
	Wisconsin.	
	Minnesota.	
1	N.W. Michigan.	
	Arctic America.	: : : : : : : : : : : : : : : : : : :
-	Bolivia.	
	Genera.	Palæopyge Panderia Parabolina Parabolina Paradoxides Pharostoma Pharostoma Placoparia Platymetopus Plostacoma Polytomurus Procetus Procedus Procepistus Procepistus Procepistus Prychaspis Prychaspis Prychaspis Prychaspis Prychaspis Raphiophorus Raphiophorus Raphiophorus Raphiophorus Salteria Sao Shumardia Sao Shumardia Sao Shumardia Syopherocophus Sharocephalus Stygina Symphysurus Triarthrus Triarthrus Triarthrus Triarthrus Triarthrus Triarthrus Triarthrus Triarthrus Triarthrus Zethus
		Palæopyg Pandernia Paradoxi Panadoxi Panadoxi Panadoxi Pharosto Pharosto Pharosto Platymer Platymer Polytom Protectus Polytom Protectus Priocopis

Subkingdom ANNULOSA. Province ARTICULATA. Class CRUSTACEA. Orders:—1. PHYLLOPODA (Merostomata, Dana); 2. OSTRACODA.

	Genera, Specie Author.	s, and	Lower Stage.	Middle Stage.	Upper Stage.
	Astacoderma,	Harley, 1	861.		
U.L. Bonebed		Harley.		•••••	Ludlow, Norton (Shropsh.
" "	declinatum,				" "
33 33	var. depressum,				"
1) 1)	" expanso-acc				22
33 33	tum,	Harley.			
	", expansum,	***			27 27
"	planum,	, "			19 19
"	var. monotuber		***************************************		" "
		Harley.			
"	" tritubercula				" "
		Harley.			
11 11	remiforme,	"			
33 43	serratum,	n ",		· · · · · · · · · · · · · · · · · · ·	Ludlow.
	Gnathodus,	Pander.			
"	spinosum,	Harley.			**
11 11	terminale,	**			- 11
22 22	triangulare,	"			Luciow, Norton (Shropsh
" "	undulatum,			·····	" "
	Bairdia, M. Coy.	1844.			(F
Corall. Lst	protracta,	Eichw.			(Kamenetz-Podolsk) Or
	D	1000			nine.
	Beyrichia, M.C.				1 : 1 (37 (3)
L. H. G		Hall.			Arisaig (Nova Scotia).
Llan			(Irel.) Waterford, Tramore.		
P. Div. L, Queb.	Atlantica,	Billings.	(Newfoundl. W.) Tablehead.		
G.		-			
L.Llan., Carad	Barrandiana,	Jones.	England, Beddgelert (North		
	· · · · · · · · · · · · · · · · · · ·		Wales).		
Jan	bipunctata,		Hellpool, Wyford, Builth.		
?	Bohemica,	Barr.			
	Buchiana,				Scandinavia.
	Bussacensis,	Salter.	(Portugal) Bussaco, near		
		2000	Coimbra.		
	clathrata,				(Arctic Amer.) Beechey I
Llan., Carad., L.	complicata,	Salter.	(N. & S. Wales) Ciln Park,	(Wales) Mathyrafal.	
Llandov.	The state of the s		Twllddu, Pont-y-Meibion,		
			&c., England.		
	var. decorata,	*			
	var. decorata,	Jones.	Abermarchnant (Wales).		Contract of the Contract of th
	concinna,	Jones.			Arisaig (Nova Scotia), C
		"			nada, Gothland.
	concinna, Dalmaniana,	"			
	concinna, Dalmaniana,	"	(Can.W.)Mid. Ottawa River.		nada, Gothland. Scandinavia.
	concinna, Dalmaniana,	"			nada, Gothland. Scandinavia.
Div. 3, 4, May-	concinna, Dalmaniana,	Billings.	(Can.W.)Mid. Ottawa River.	(Anticosti) East Point &c.	nada, Gothland. Scandinavia. Illampu Mountain, W. sid
Div. 3, 4, May-	concinna, Dalmaniana, decora,	Billings.	(Can.W.)Mid. Ottawa River.	(Anticosti) East Point &c.	nada, Gothland. Scandinavia. Illampu Mountain, W. sid
Div. 3, 4, May- hill, A. Gr.	concinna, Dalmaniana, decora, Forbesii,	Billings.	(Can.W.)Mid. Ottawa River.	(Anticosti) East Point &c.	nada, Gothland. Scandinavia. Illampu Mountain, W. sid Bolivia (S. America).
Div. 3, 4, May- hill, A . Gr.	concinna, Dalmaniana, decora, Forbesii, gibba,	Billings. Salter. Jones?	(Can.W.)Mid. Ottawa River.	(Anticosti) East Point &c.	nada, Gothland. Scandinavia. Illampu Mountain, W. sic Bolivia (S. America). Slate Mills, Pembrokeshir
Div. 3, 4, May-	concinna, Dalmaniana, decora, Forbesii, gibba,	Billings. Salter. Jones?	(Can.W.)Mid. Ottawa River.	(Anticosti) East Point &c.	nada, Gothland. Scandinavia. Illampu Mountain, W. sic Bolivia (S. America). Slate Mills, Pembrokeshir (N. York) Schoharie C
Div. 3, 4, May- hill, A. Gr. W Pentam. Lst., L. H. G.	concinna, Dalmaniana, decora, Forbesii, gibba, granulata,	Billings. Salter. Jones ? Hall.	(Can.W.)Mid. Ottawa River.	(Anticosti) East Point &c.	nada, Gothland. Scandinavia. Illampu Mountain, W. sic Bolivia (S. America). Slate Mills, Pembrokeshir (N. York) Schoharie C (Wales) Llanfair, Mechli
Div. 3, 4, May- hill, A. Gr. WPentam. Lst., L.	concinna, Dalmaniana, decora, Forbesii, gibba, granulata,	Billings. Salter. Jones ? Hall.	(Can.W.)Mid. Ottawa River.	(Anticosti) East Point &c. (Irel.) Boscaun, Galway.	nada, Gothland. Scandinavia. Illampu Mountain, W. sid
Div. 3, 4, May- hill, A. Gr. W Pentam. Lst., L. H. G. Llandov., W., U.	concinna, Dalmaniana, decora, Forbesii, gibba, granulata,	Billings. Salter. Jones? Hall. M'Coy.	(Can.W.)Mid. Ottawa River. Isle Oesel, Baltischport (Esthonia), (S. Wales) Gaer	(Anticosti) East Point &c.	nada, Gothland. Scandinavia. Illampu Mountain, W. sic Bolivia (S. America). Slate Mills, Pembrokeshir (N. York) Schoharie C (Wales) Llanfair, Mechli Dudley, Ludlow, Woolho
Div. 3, 4, May- hill, A. Gr. W Pentam. Lst., L. H. G. Llandov., W., U.	concinna, Dalmaniana, decora, Forbesii, gibba, granulata,	Billings. Salter. Jones? Hall. M'Coy.	(Can.W.)Mid. Ottawa River. Isle Oesel, Baltischport (Esthonia), (S. Wales) Gaer	(Anticosti) East Point &c.	nada, Gothland. Scandinavia. Illampu Mountain, W. sic Bolivia (S. America). Slate Mills, Pembrokeshir (N. York) Schoharie C (Wales) Llanfair, Mechli Dudley, Ludlow, Woolho Kendal, Downton (Engl.
Div. 3, 4, May- hill, A. Gr. W Pentam. Lst., L. H. G. Llandov., W., U.	concinna, Dalmaniana, decora, Forbesii, gibba, granulata, Kloedeni, var. antiquata, ,, torosa,	Billings. Salter. Jones? Hall. M'Coy. Jones.	(Can.W.)Mid. Ottawa River. Isle Oesel, Baltischport (Esthonia), (S. Wales) Gaer Fawr &c.	(Anticosti) East Point &c.	nada, Gothland. Scandinavia. Illampu Mountain, W. sic Bolivia (S. America). Slate Mills, Pembrokeshir (N. York) Schoharie C (Wales) Llanfair, Mechli Dudley, Ludlow, Woolhor Kendal, Downton (Engl (W.) Garth, Montgomery, Stapleton, nr. Presteign(W
Div. 3, 4, May- hill, A. Gr. W	concinna, Dalmaniana, decora, Forbesii, gibba, granulata, Kloedeni, var. antiquata, ,, torosa,	Billings. Salter. Jones? Hall. M'Coy. Jones.	(Can.W.)Mid. Ottawa River. Isle Oesel, Baltischport (Esthonia), (S. Wales) Gaer	(Anticosti) East Point &c. (Irel.) Boscaun, Galway. (N.York)Sodus &c., Oneida	nada, Gothland. Scandinavia. Illampu Mountain, W. sic Bolivia (S. America). Slate Mills, Pembrokeshir (N. York) Schoharie C (Wales) Llanfair, Mechli Dudley, Ludlow, Woolhor Kendal, Downton (Engl (W.) Garth, Montgomery, Stapleton, nr. Presteign(W
Div. 3, 4, May- hill, A. Gr. W	concinna, Dalmaniana, decora, Forbesii, gibba, granulata, Kloedeni, var. antiquata, ,, torosa,	Billings. Salter. Jones? Hall. M'Coy. Jones.	(Can.W.)Mid. Ottawa River. Isle Oesel, Baltischport (Esthonia), (S. Wales) Gaer Fawr &c.	(Anticosti) East Point &c. (Irel.) Boscaun, Galway. (N.York)Sodus &c.,Oneida	nada, Gothland. Scandinavia. Illampu Mountain, W. sic Bolivia (S. America). Slate Mills, Pembrokeshir (N. York) Schoharie C (Wales) Llanfair, Mechli Dudley, Ludlow, Woolho Kendal, Downton (Engl (W.) Garth, Montgomery, Stapleton, nr. Presteign (W.) Pennsylvania.
Div. 3, 4, May-hill, A. Gr. W	concinna, Dalmaniana, decora, Forbesii, gibba, granulata, Kloedeni, var. antiquata, ,, torosa, lata, Vanux	Billings. Salter. Jones? Hall. M'Coy. Jones.	(Can.W.)Mid. Ottawa River. Isle Oesel, Baltischport (Esthonia), (S. Wales) Gaer Fawr &c.	(Anticosti) East Point &c. (Irel.) Boscaun, Galway. (N.York)Sodus &c.,Oneida	nada, Gothland. Scandinavia. Illampu Mountain, W. sic Bolivia (S. America). Slate Mills, Pembrokeshir (N. York) Schoharie C (Wales) Llanfair, Mechli Dudley, Ludlow, Woolho Kendal, Downton (Engl (W.) Garth, Montgomery, Stapleton, nr. Presteign (W.) Pennsylvania.
Div. 3, 4, May-hill, A. Gr. W	concinna, Dalmaniana, decora, Forbesii, gibba, granulata, Kloedeni, var. antiquata, ,, torosa, lata, Vanux Maccoyiana,	Billings. Salter. Jones? Hall. M'Coy. Jones. em, Hall. Jones.	(Can.W.)Mid. Ottawa River. Isle Oesel, Baltischport (Esthonia), (S. Wales) Gaer Fawr &c.	(Anticosti) East Point &c. (Irel.) Boscaun, Galway. (N.York)Sodus &c.,Oneida County.	nada, Gothland. Scandinavia. Illampu Mountain, W. sic Bolivia (S. America). Slate Mills, Pembrokeshir (N. York) Schoharie C (Wales) Llanfair, Mechl Dudley, Ludlow, Woolho Kendal, Downton (Eng. (W.) Garth, Montgomery, Stapleton,nr. Presteign(W.) Pennsylvania. Sweden, N. York, Pennsylv
Div. 3, 4, May-hill, A. Gr. W Pentam. Lst., L. H. G. Llandov., W., U. L. CL., Niag Onondag. S. Gp. Delth. Sh. L	concinna, Dalmaniana, decora, Forbesii, gibba, granulata, Kloedeni, var. antiquata, ,, torosa, lata, Vanux Maccoyiana,	Billings. Salter. Jones? Hall. M'Coy. Jones. em, Hall. Jones. Hall.	(Can.W.)Mid. Ottawa River. Isle Oesel, Baltischport (Esthonia), (S. Wales) Gaer Fawr &c.	(Anticosti) East Point &c. (Irel.) Boscaun, Galway. (N.York)Sodus &c.,Oneida County.	nada, Gothland. Scandinavia. Illampu Mountain, W. sie Bolivia (S. America). Slate Mills, Pembrokeshir (N. York) Schoharie C (Wales) Llanfair, Mechli Dudley, Ludlow, Woolho Kendal, Downton (Eng. (W.) Garth, Montgomery, Stapleton,nr. Presteign(W Pennsylvania. Sweden, N. York, Pennsylv (N. York) Herkimer Coun
Div. 3, 4, May-hill, A. Gr. W	concinna, Dalmaniana, decora, Forbesii, gibba, granulata, Kloedeni, var. antiquata, ,, torosa, lata, Vanux Maccoyiana, notata,	Billings. Salter. Jones? Hall. M'Coy. Jones. , em, Hall. Jones. Hall.	(Can.W.)Mid. Ottawa River. Isle Oesel, Baltischport (Esthonia), (S. Wales) Gaer Fawr &c.	(Anticosti) East Point &c. (Irel.) Boscaun, Galway. (N.York)Sodus &c.,Oneida County.	nada, Gothland. Scandinavia. Illampu Mountain, W. sie Bolivia (S. America). Slate Mills, Pembrokeshir (N. York) Schoharie C (Wales) Llanfair, Mechli Dudley, Ludlow, Woolho Kendal, Downton (Eng. (W.) Garth, Montgomery, Stapleton,nr. Presteign(W Pennsylvania. Sweden, N. York, Pennsylv (N. York) Herkimer Coun
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Div. 3, 4, May-hill, A. Gr. W	concinna, Dalmaniana, decora, Forbesii, gibba, granulata, Kloedeni, var. antiquata, ,, torosa, lata, Vanux Maccoyiana, notata, var. ventricosa, oblonga, obsoleta,	Billings. Salter. Jones? Hall. M'Coy. Jones. em, Hall. Jones. Hall.	(Can.W.)Mid. Ottawa River. Isle Oesel, Baltischport (Esthonia), (S. Wales) Gaer Fawr &c.	(Anticosti) East Point &c. (Irel.) Boscaun, Galway. (N.York)Sodus &c.,Oneida County.	nada, Gothland. Scandinavia. Illampu Mountain, W. sic Bolivia (S. America). Slate Mills, Pembrokeshir (N. York) Schoharie C (Wales) Llanfair, Mechli Dudley, Ludlow, Woolho Kendal, Downton (Engl (W.) Garth, Montgomery, Stapleton, nr. Presteign(W Pennsylvania. Sweden, N. York, Pennsylv (N. York) Herkimer Count Sweden, N. Germany (drif
Div. 3, 4, May- hill, A. Gr. W. Pentam. Lst., L. H. G. Llandov., W., U. L. CL., Niag. Onondag. S. Gp. Delth. Sh. L.	concinna, Dalmaniana, decora, Forbesii, gibba, granulata, Kloedeni, var. antiquata, ,, torosa, lata, Vanux Maccoyiana, notata, var. ventricosa, oblonga, obsoleta,	Billings. Salter. Jones? Hall. M'Coy. Jones. em, Hall. Jones. Hall.	(Can.W.)Mid. Ottawa River. Isle Oesel, Baltischport (Esthonia), (S. Wales) Gaer Fawr &c.	(Anticosti) East Point &c. (Irel.) Boscaun, Galway. (N.York)Sodus &c.,Oneida County.	nada, Gothland. Scandinavia. Illampu Mountain, W. sic Bolivia (S. America). Slate Mills, Pembrokeshir (N. York) Schoharie C (Wales) Llanfair, Mechli Dudley, Ludlow, Woolho Kendal, Downton (Engl (W.) Garth, Montgomery, Stapleton, nr. Presteign(W.)
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Div. 3, 4, May-hill, A. Gr. W	concinna, Dalmaniana, decora, Forbesii, gibba, granulata, Kloedeni, var. antiquata, ,, torosa, lata, Vanux Maccoyiana, notata, var. ventricosa, oblonga, obsoleta, oculina, ovata,	Billings. Salter. Jones? Hall. M'Coy. Jones. ,,, em, Hall. ,, Hall.	(Can.W.)Mid. Ottawa River. Isle Oesel, Baltischport (Esthonia), (S. Wales) Gaer Fawr &c.	(Anticosti) East Point &c. (Irel.) Boscaun, Galway. (N.York)Sodus &c.,Oneida County.	nada, Gothland. Scandinavia. Illampu Mountain, W. sie Bolivia (S. America). Slate Mills, Pembrokeshir (N. York) Schoharie C (Wales) Llanfair, Mechl Dudley, Ludlow, Woolhoe Kendal, Downton (Eng (W.) Garth, Montgomery Stapleton,nr. Presteign(W.) Pennsylvania. Sweden, N. York, Pennsylv (N. York) Herkimer Coun Sweden, N. Germany (drift (N. York) Schoharie Coun Sweden, N. Germany (drift
Div. 3, 4, May-hill, A. Gr. W	concinna, Dalmaniana, decora, Forbesii, gibba, granulata, Kloedeni, var. antiquata, ,, torosa, lata, Vanux Maccoyiana, notata, var. ventricosa, oblonga, obcoleta, oculina, ovata, Pennsylvanica,	Billings. Salter. Jones? Hall. M'Coy. Jones. ,,, em, Hall. ,, Hall.	(Can.W.)Mid. Ottawa River. Isle Oesel, Baltischport (Esthonia), (S. Wales) Gaer Fawr &c.	(Anticosti) East Point &c. (Irel.) Boscaun, Galway. (N.York)Sodus &c.,Oneida County.	nada, Gothland. Scandinavia. Illampu Mountain, W. sie Bolivia (S. America). Slate Mills, Pembrokeshir (N. York) Schoharie C (Wales) Llanfair, Mechl Dudley, Ludlow, Woolho Kendal, Downton (Eng. (W.) Garth, Montgomery, Stapleton,nr. Presteign(W.) Pennsylvania. Sweden, N. York, Pennsylv (N. York) Herkimer Coun Sweden, N. Germany (drif (N. York) Schoharie Coun Sweden, N. Germany (drif Pennsylvania, N. York.
Div. 3, 4, May-hill, A. Gr. W	concinna, Dalmaniana, decora, Forbesii, gibba, granulata, Kloedeni, var. antiquata, ,, torosa, lata, Vanux Maccoyiana, notata, var. ventricosa, oblonga, obsoleta, oculina, ovata, Pennsylvanica, plagosa,	Billings. Salter. Jones? Hall. M'Coy. Jones. Hall. Jones. Hall. " Hall. Jones.	(Can.W.)Mid. Ottawa River. Isle Oesel, Baltischport (Esthonia), (S. Wales) Gaer Fawr &c.	(Anticosti) East Point &c. (Irel.) Boscaun, Galway. (N.York)Sodus &c.,Oneida County.	nada, Gothland. Scandinavia. Illampu Mountain, W. sie Bolivia (S. America). Slate Mills, Pembrokeshir (N. York) Schoharie C (Wales) Llanfair, Mechl Dudley, Ludlow, Woolho Kendal, Downton (Eng. (W.) Garth, Montgomery, Stapleton,nr. Presteign(W.) Pennsylvania. Sweden, N. York, Pennsylv (N. York) Herkimer Coun Sweden, N. Germany (drif (N. York) Schoharie Coun Sweden, N. Germany (drif Pennsylvania, N. York. (Arctic Amer.) Beechey I
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Div. 3, 4, May-hill, A. Gr. W	concinna, Dalmaniana, decora, Forbesii, gibba, granulata, Kloedeni, var. antiquata, ,, torosa, lata, Vanux Maccoyiana, notata, var. ventricosa, oblonga, obsoleta, oculina, ovata, Pennsylvanica, plagosa,	Billings. Salter. Jones? Hall. M'Coy. Jones. Hall. Jones. Hall. Jones. Hall. Hall. Hall.	(Can.W.)Mid. Ottawa River. Isle Oesel, Baltischport (Esthonia), (S. Wales) Gaer Fawr &c. (Portugal) Porta de Louza,	(Anticosti) East Point &c. (Irel.) Boscaun, Galway. (N.York)Sodus &c.,Oneida County.	nada, Gothland. Scandinavia. Illampu Mountain, W. sic Bolivia (S. America). Slate Mills, Pembrokeshir (N. York) Schoharie C (Wales) Llanfair, Mechli Dudley, Ludlow, Woolhot Kendal, Downton (Engl (W.) Garth, Montgomery: Stapleton,nr. Presteign(W.) Pennsylvania. Sweden, N. York, Pennsylv (N. York) Herkimer Count Sweden, N. Germany (drif (N. York) Schoharie Count Sweden, N. Germany (drif Pennsylvania, N. York. (Arctic Amer.) Beechey I
Div. 3, 4, May-hill, A. Gr. W	concinna, Dalmaniana, decora, Forbesii, gibba, granulata, Kloedeni, var. antiquata, ,, torosa, lata, Vanux Maccoyiana, notata, var. ventricosa, oblonga, obsoleta, oculina, ovata, Pennsylvanica, plagosa, pustulosa, Ribeiriana,	Billings. Salter. Jones? Hall. M'Coy. Jones. Hall. Jones. Hall. Jones. Hall. Jones. Hall. Jones.	(Can.W.)Mid. Ottawa River. Isle Oesel, Baltischport (Esthonia), (S. Wales) Gaer Fawr &c. (Portugal) Porta de Louza, Coimbra.	(Anticosti) East Point &c. (Irel.) Boscaun, Galway. (N.York)Sodus &c., Oneida County.	nada, Gothland. Scandinavia. Illampu Mountain, W. sic Bolivia (S. America). Slate Mills, Pembrokeshir (N. York) Schoharie C (Wales) Llanfair, Mechli Dudley, Ludlow, Woolhoy Kendal, Downton (Engl (W.) Garth, Montgomery, Stapleton, nr. Presteign(W Pennsylvania. Sweden, N. York, Pennsylv (N. York) Herkimer Count Sweden, N. Germany (drif (N. York) Schoharie Count Sweden, N. Germany (drif Pennsylvania, N. York, (Arctic Amer.) Beechey I Arisaig (Nova Scotia).
Div. 3, 4, May-hill, A. Gr. W	concinna, Dalmaniana, decora, Forbesii, gibba, granulata, Kloedeni, var. antiquata, ,, torosa, lata, Vanux Maccoyiana, notata, var. ventricosa, oblonga, obsoleta, oculina, ovata, Pennsylvanica, plagosa, pustulosa,	Billings. Salter. Jones? Hall. M'Coy. Jones. em, Hall. Jones. Hall. Jones. Hall. Jones.	(Can.W.)Mid. Ottawa River. Isle Oesel, Baltischport (Esthonia), (S. Wales) Gaer Fawr &c. (Portugal) Porta de Louza,	(Anticosti) East Point &c. (Irel.) Boscaun, Galway. (N.York)Sodus &c., Oneida County.	nada, Gothland. Scandinavia. Illampu Mountain, W. sic Bolivia (S. America). Slate Mills, Pembrokeshir (N. York) Schoharie C (Wales) Llanfair, Mechli Dudley, Ludlow, Woolhot Kendal, Downton (Engl (W.) Garth, Montgomery: Stapleton,nr. Presteign(W.) Pennsylvania. Sweden, N. York, Pennsylv (N. York) Herkimer Count Sweden, N. Germany (drif (N. York) Schoharie Count Sweden, N. Germany (drif Pennsylvania, N. York. (Arctic Amer.) Beechey I

Subdivision,	Genera, Spec Author		Lower Stage.	Middle Stage.	Upper Stage.
Tr., W., L	siliqua,	Jones.	Allumette Island (Mid-Ot-		(Engl.) Malvern, Onnibury
***	Cytheropsis,	77,11	tawa River).		Ludlow, Woolhope.
Niag	symmetrica,	Hall.			N. York (U.S.A.), Lockport
Tentac. L., L. H.	trisulcata,	22			Tennessee, (N. York, central)
G.					Herkimer County.
Corall. Lst	tuberculata,	Klöden.			Gothland, Norway, Esthonia,
	Mark . A. L.				Isle Oesel, N. & S. Wales,
			Control of the Contro	Comment and the Life of the	Ireland, (Engl.) Dudley
				The state of the s	Kendal, (S. Scotl.) Lam-
	The same of the sa		Control of the second second	and the second second	mermuir.
	var. antiquata,	, ,,			Gothland, Norway, Esthonia.
Delth. Sh. L	ventricosa,	Hall.			New York (U.S.A.).
Div. 3, 4, A. Gr.,		Billings.		(Anticosti) Chaloup River	
Mayhill.				&c.	
	Wilckensiana,	Jones.			England, Russia, Esthonia.
	var. plicata,	,,			Scandinavia.
?	sp. ind.				
		Bonissent.	Angers (France).		the or many the same
L. H. G., U.L	", (2) I	Ioneyman.	angero (z rance).		Arisaig (Nova Scotia).
Carad		Salter.	(N. Wales) Bala Lake.		
	Bunodes, Eicht	wald, 1860.			
Eurypt. Lst	lunula.	Eichw.			Roodzikulle, I. Oesel (Balt.)
V F	rugosus.				
U.L	sp. ind.				Shropshire, Hereford.
	Caryocaris, Sa				and panels, and the second
	Salteri,	M'Cov.	Victoria (Australia).	The same of the sa	The state of the s
	Hymenocaris.	LL Coj.	(Zenotrania).		
L.Llan	Wrightii,	Salter	Skiddaw (Cumberland).		
23-23-441	Ceratiocaris	M. Cov. 18	50; LEPTOCHELES pars, M.	Con	
Waterl., L. H. G.	aculeatus	Hall	oo, zarroenana pars, za	coy.	(N.York)Oneida, Waterville.
	acuminatus,				(N. York, N.W.) Buffalo.
P	brevicauda,		Wales.		(11. Lora, 11.11.) Dunaio.
L.L			Wales.		Trippleton, Ludlow.
43.45	debilis,				Bohemia.
U.L	allintions	M:Cor.		***************************************	(Eng.) Kendal(Westmorel.)
L.L	gigns,	Salter			Danefield, Kington (Rad-
L.L	gigas,	Saiter.			norshire).
U.L	in annuature	MiCon			(Engl.)Kendal,Benson Knot.
L. & U. Tremad.	inornatus,	Solton	Down of Down 1 (W)		(Engl.) Kendai, Denson Knot.
U. Tremad	insperatus,	Saiter.	Penmorfa, Portmadoc (W.).		
U. Tremad		**	Garth (Wales).		Wales?
L.L	legumen,				
Li.Li	reproductyrus,	m Coy.	······································		(Engl.)Kendal(Westmorel.) Leintwardine, Shropshire
Waterlime, L. H.	Massaranas	Hall.			
G.	Staccoyanus,	Han.	••••••		(N. York, N.W.) Buffalo.
TI I	Munchisoni Mc	. A			Tudlom/Shannshing) Comb
U.L	Murchisoni, M.C	oy, Agass.			
		C-14			Wood, Presteign.
,,	T. T.	Salter.			(W. Scotland) Lesmahago.
	perornatus,	Qultar.			Benson Knot, Kendal.
,,		Saiter.			Leintwardine (Herefordsh.)
,,		Michael			Benson Knot (England).
,,	solen-rectus,				Kendal.
,,	Stygius,	Salter.	••••••		Logan Water, Lesmahago (W. Scotland).
L.L., U.L	Posica		No. of the last of		
Llan., Up. Bala?		***	Rala Common & (Walso)		Leintwardine (Herefordsh.).
Lian, Op. Data?	The state of the s	"	Bala, Corwen, &c. (Wales).		
CL	Cythere.	H-11		Now York (TI C 4	
L. H. G		Dilli.		New York (U.S.A.).	(Con W) Towards The
The Manager of the Control of the Co	,,,	Diffings,			(Can. W.) Jones's Tract.
Niag		Hall.			New York.
	,, (5)	D	F 36 1 /5	••••••	,, ?
3	mi-	nonissent.	La Manche (France).		
	Climactichnit				The second secon
	Wilsoni,		Near Perth (Can. W.).		Market Market Control
Council	Cythere, Mülle	r, 1785 (L	EPERDITIA).		
Carad	Phaseolus,	Hising.	Chair of Kildare (Ireland),	Constitution of the Consti	
TI	Na	CI.	Leisley (Westmoreland).		
Tr		Shumard.	Missouri (U.S.A.).	Control of the Contro	
Carad		Salter.	(N. Wales) Bala, Conway	difference and all the same	
m	Ceratiocaris.		Falls, &c.	American September 1997	
Tr	sp. ind.	Swallow.	Missouri (U.S.A.).		
	Cytherina, Me	orris, 1854	(LEPERDITIA).		
	alata,	Verneuil.			Sweden.
Tentac. Lst., L.	alta,	Conrad.	••••••••		(N.Y., centre) Cherry Valley.
H. G.					
	Baltica,	Hising.	Normandy, Brittany?		N.Gothl., Timan Range, Russ.
		0.			8-1

Subdivision.	Genera, Specie Author.		Lower Stage.	Middle Stage.	Upper Stage.
M.Sa	cylindrica	Hall		(N Vork) Medine Village	
Tr		Conrad.	(Wisconsin) Mineral Point,	(N. TOPK) Medina vinage.	
		Commun	N.W.Michigan(L.Super.).		
	? hemisphærica,	Richt.	·····gan(Zhoupett)		Thuringia?
	intermedia,	Römer.			Thuringia.
D. d. 1. 5	prunella,		Bohemia.		
Niag.	spinosa,	Hall.			(N. York) Lockport.
	subrecta, Portl.	., Geinitz.	Tyrone, Gunzenberg (Sax.).		
	Cytheropsis, 1	M. Coy, 18	55.		
	Aldensis,	M'Coy.	Aldeans, Ayrshire (S.W.		
			Scotland).		
Fr. &c	concinna,	Jones.	Allumette Island, R.Ottawa.		Gothland, Arisaig (Nova Sc
,,	siliqua,	"	" "		tia).
,,	Beyrichia.				1
** ************************************	Dictyocaris, S		9 " "		
C	Pameeri	Salton	o.		Pantland IIIIa (Sastland)
Ü.L		Saiter.	***************************************		Pentland Hills (Scotland)
		"			Lesmanago (Lanarasmire).
,	Discinocaris, I	I. Wooden	ard. 1866		" "
	Browniana, H.	Woodw	Moffat Shales, Dumfries.		
	Dithyrocaris,	Scouler 1	835.		
Carad	aptychoides.		Duffkinnell, Dumfriesshire.		
	longicauda,	Sharpe.			Sazes (Bussaco, Portugal)
	Murchisoni,	P.	Ebendaselbst.		(
	Entomis, Jones,				
U.L	divisa,	Jones.	Builth.		
L. Llan	tuberosa,	,,	Mocktree Hill, Builth.		
	Eurypterus, D	ekay, 182	5 (EIDOTHEA, SCOULERIA, DO	LICHOPTERUS, Hall).	
Passage-beds	abbreviatus,	Salter.			(England) Ludlow, Kingto
Fauna E	acuminatus,	. ,,			(England) Ludlow.
Fauna E	Bohemicus,	Barr.		Bohemia.	
L., U.L	cephalaspis.	Salter.			Kirkby Moor, Kendal (Wes
	The party of the p				moreland).
L	chartarius,	"			Scotland, (Lanarkshire) Le
TT . 1: AT TT		TT 11			mahago.
Waterlime) L.H.	Dekayı,	Hall.		•••••••	(N.W.NewYork)BlackRoc
G.	TN	T21 -1			Variation Dadalah Banda
Eurypt. Lst	r ischeri,	Eichw.			Kamenetz-Podolsk, Roodz
U.L	Imboffi	Danies	***************************************		kulle (I. Oesel), Livonia Russia?
Waterlime)L.H.		Harlan	***************************************		
G.	lacustris,	Harian.	***************************************	***************************************	ville, Buffalo.
" "	var. robustus.	Hall	***************************************		(N.W. New York) Buffal
" "	rui. robustus,				Erie County.
U.L	lanceolatus.	Salter.			England, (Scotl.) Lesmahag
Passage-beds		,,			Ludlow Railway.
U.L		,,			(Engl.) Kington, Ludlo
		"			Ludford.
,,	megalops,	,,			(Engl.) Kington, Ludlow.
L	The state of the s				South Gothland.
(Tentacul.) L. H.	microphthalmus,	Hall.	••••		(New York) Cazenovia.
G.				Name and Associated and Association	
Waterlime) L.H.	pachycheirus,	"			(N.W. New York) Buffalo
G.			Home to the same of the same o		
p ,,	pustulosus.	29			
					near Buffalo (N. York).
U.L					(Engl.) Kington, Ludlow.
Waterlime) L.H.	remipes,	Dekay.	· · · · · · · · · · · · · · · · · · ·		(Can. W.) Bertie, (N.Yor
G.	t-t	The 1	STATE OF THE PARTY OF		Herkimer County.
					Russia &c., Poland, I. Oese Kington, Radnorshire
	sp. ind. Subsen Dorreuon	calter.	all 1849		Kington, Radnorshire.
	Subgen. Dolichor	II-II	au, 1849.		(N.W. New York) Buffalo
	macrocheirus. Exapinurus, N	nall.	9		(I. W. LOW LOFK) Bunale
Passage-beds		100	v.		Isle Oesel.
Lassage-beus	Hemiaspis, H.	Woodana	rd 1865	***************************************	Into Ocean
L., U.L.	limuloides H W	oodward	ra, 1000.		Leintwardine (Herefordsh
U.L					(Alerenordish
,,					Shropshire.
,,			•••••••••••••••••••••••••••••••••••••••		Leintwardine, Downton,
,,	Lanning	***			Shropshire.
	tuberculata,				Leintwardine.
	sp. nova. H. W	oodward.			Dudley (England).
	Himantopteru	s, Salter.	1856 (Pterygotus).		Lesmahago. W. Scotland.

Subdivision.	Genera, Species, and Author.	Lower Stage.	Middle Stage.	Upper Stage.
U.L	Pankaii Saltar			Kington Radnorshire
,,	bilobus,			Lesmahago (W. Scotland).
,,				
	var. plicatissimus, "			"
	Hymenocaris, Salter, 1		A Committee of the Comm	
P., L.Ling. Flags	vermicauda, Salter.	(N. Wales) Dolgelly, Pen-		
	Tomonditio Poundt 195	morfa, Festiniog, &c.	- Committee of the Comm	
Touter Tet T	Leperditia, Rouault, 185	1.		(Can. W.) Cayuga, N. York
Tentac. Lst., L. H. G.	arta, Conrad.	***************************************	***************************************	passim, Pennsylvania, (Arc
P., Queb. G.,CH.	amvgdalina, Jones.	(Can. E.) R. Ottawa-mouth.		Amer.)WellingtonStraits
" " CS.	Anna, "			
Div. 3, 4, A. Gr.,	Anticostiana, "	" "	(Anticosti) East Point &c.	
Mayhill.				(
V	Arctica, "			(Arctic Amer.) Wellington
Donton Tot	Balties Hising		Fennern (Tivonia)	Straits. (Gothland) Wishy Sweden
Pentam. Lst., Corall. Lst.	Dartica, Hising.		remera (Ervonia)	(Isle Oesel) Randifer &c
Coran. List.				England, (Irel.) Ferriter
				Cove, Petschora, Podolis
mountain the second	var. Arctica, Jones.			(Arctic Amer.) Griffith's Is
	Biensis,	Bussaco (Portugal).	4	land &c.
P., L.Ling. Flags	buprestis, Salter.	(S. Wales) St. David's.		
CS., BL	Canadensis, Billings.	(Anticosti) Charlton Point,		
		(Can. E. & W.) Montreal, Grenville, Moira & Ottawa		
		Rivers &c.		
	var. Anticostinia	Eastern Anticosti (Gulf St.		
along analong		Lawr.).		
P., Div. L, M,	concinnula ,,	(Newfoundland W.) Point		
Queb. G.	V 11 TV:	Rich.		
District Control		Canada.		1-1
Pentam. Lst	Isochilina, Jones, 1858.		Tulkhof (Lizonia)	
rentam. Lst		Eastern Prussia (boulder).	Talkhoi (Lavonia).	
В	gracilis, Jones.	(Can. E.) White Horse Ra-		
	Isochilina.	pids. Montreal.	Part and the second sec	
Corall. Lst	grandis, Schrenk.	P		
L. H. G	Hudsonica, Hall.			
Con T. Sababania	Ionesi			tain, near Hudson. (N. York) Schoharie and
Cor.L.,Schoharie	Josephiana, Billings.	N.W. Lake Huron (Can.W.).		Herkimer Counties.
	var. fabulites, ,,	N. Wisconsin, Pennsylvania.		
	" gibbera, "			Beechey Island(Arctic Seas)
	,, labrosa, ,,	(Can. W.) L. Ottawa River.		
	" Louckiana, "	Russell, Louck's		
	pana Jones	Mills. (Can. W.) L. Ottawa River.		
		Paquette Rapids(OttawaR.).		
Waterlime, L.H.	" scalaris, "	adjusted amplicación de la constantia.		Pennsylvania, (N. Y.) Wil
G.	The state of the s		The second secon	liamsville.
	Maccoyana, Jones.			New York.
Pleta, U.L	marginata, Keyserling.	Canada, Rupert's Land, Es-		
		thonia, St. Petersb.(Russ.).		shire), Petschora (Russia)
	minuta,	D'Erras (Esthonia)	Talkhof (Livonia)	
Corall. Lst		D Erras (Estionia)		Isle Oesel, Randifer (Balt.)
CS	Ottawa-ensis, Jones.	(Can. E.) Isle Jesus, Gren-		(Zam)
	Isochilina.	ville, Lower Ottawa.	STORY & CHILD IN CO.	
BL		New York, Pennsylvania.		
	ovulum, Eichw.	D'Erras (Esthonia)		(N. Vonk) Hanking Co
Delth. Shaly Lst. Tentac. L., L. H.				
G.				" "
CL	Pennsylvanica, Jones.	••••	New York, (Pennsylvania)	(Russia) Poulowsk &c., Ka
			Barre Forge.	menetz-Podolia, (Esthon.
Pleta, Cor. Lst.		Russia	annual series	Randifer.
	scalaris,			
	sinuata, Hall.	(C. W.l.) Dont Colon Ct	•••••••••••	Arisaig (Nova Scotia).
P., L.Ling. Flags	Solvensis, Jones.	(S. Wales) Port Solva, St.		
P., near G. H.,	turgida. Billings	David's. (Newfoundland N.) Cape		
Queb. G.	Dinings.	Norman &c.		
CS., Gp	ventralis, ?	(Newfoundl.W.) Bonne Bay.		
" Menevian	vexata, ,,	St. David's (S. Wales).		
	sp. ind. De Prado.			

Subdivision.	Genera, Species, and Author.	Lower Stage.	Middle Stage.	Upper Stage,
U.L	sp. ind. (marginata), Jones.			Kington (Herefordshire).
	Limuloides, M. Coy.			P-it-i-
С	Lingulocaris, M'Coy.	***************************************		Britain,
U.Tremad	lingulæcomes, Salter.	Garth, (N.Wales) Tuwrst-y- bwlch.		A CONTRACTOR OF THE PARTY OF TH
Carad	Myocaris, Salter, 1864. lutraria, Salter.	Normandy, Budleigh Salter- ton, Devonshire.		lings .
,, ,		" "		
Llan	Peltocaris, Salter, 1863.	(S.W. Scotland) Dumfries-		
	Dithyrocaris. Harknessi, ,,	shire, (Wales) Builth. (S.W. Scotl.) Dumfriesshire.		
	Primitia, Jones & Holl, 1	865.		2-1
W Carad		(Shropsh.) Harnage, Shrews-		Sweden.
	concinna, "	bury. Canada, Ottawa River.		
W CH	T	(Can. E.) Lower Ottawa Riv.		Croft's Quarry, Malvern.
,,	var. leperditioides, "	" "		
Carad	var. reniformis, "	River Onny, Shropshire.		
W		Omj, omopsine.		Malvern, Sweden (drift).
2,	muta, ,,			Beechey Island (Arct.Amer.
Carad	oblonge			
,,	obsoleta, ,,			, , , , , , , , , , , , , , , , , , , ,
ov	ovata, , ,,			West Males (W. "
W				shire).
,,	Roemeriana, ,,			
	Salteriana, ,,	Pembrokeshire, Baltic Pro- vinces (Russia).		
Carad		Shropshire, Baltic Provinces (Russia).		Sweden, Baltic, Russia (drift
w		Shropshire, (Portugal) Bus-		Town Hills, Montgomer, shire (Wales).
Carad	strangulata, Salter.	casire), Bufton (Wast-morel.), Bala Lake(Wales), Esthonia.		
n	var. a,	Pembrokeshire, Robeston Wathen.		
	., β,	(Wales) Sholes Hook, Haverfordwest.		
w	γ, γ, tersa, Jones.	,, ,,		Croft's Quarry, W. Malver
,,	trigonalis, ,,			
L	1.1.4.			(Malvern) Chance's Pitch.
w	1 1			NearMalvern(Worcestersh
	Protichnites, R. Owen, 1	852.		" "
P., Potsd. Sa	alternans, R. Owen.	(Can. E.) Beauharnois &c.		
37 39	latus, ,,	" "		
27 29	lineatus, ,, multinotatus, ,,	" "		
11 31	octonotatus, ,,	" "		
Sandstone	Scoticus, Salter.	(S.W. Scotl.) Roxburghshire.		,
P., Potsd, Sa	septem-notatus, R. Owen. Pseudoniscus, Nieszk, 1			
Dolom. Lst	aculeatus, Nieszk.			Roodzikulle, I. Oesel (Balt
Eurypt.Lst., Pas-	Pterygotus, Agassiz, 184	4 (including Himantopteru	s).	, ,
sage-beds.				
U.L	arcuatus, Salter.			(Engl.) Church Hill, Lein wardine,(Shropshire) Lu- ford Lane.
T.T. Donnes hade	Banksii, "			Ludford Lane (Ludlow
J.L.Passage-beds	regional states		and the second s	Kington (Herefordshire)

Subdivision.	Genera, Species, and Author.	Lower Stage.	Middle Stage.	Upper Stage.		
(Waterlime L.H. H. G.	Cobbi, Hall.			(N.W. New York) Buffalo.		
Downt, Sa., U.L.	gigas. Salter.			Kington (Radnorshire).		
(Omitted in 'Si- luria,' 4th ed.).	B.B,			Lesmahago (W. Scotland).		
Passage-beds	Ludensis, ,, .			Ledbury Tunnell, Kington		
(Waterlime) L. H. G.	macrocephalus, Hall.			Ludlow, &c. (Central N. York) Water ville, Herkimer Co.		
	Osborni, ,,		***************************************	(N. York) Oneida County.		
L.Ľ				Lesmahago (W. Scotland).		
,,	var. plicatissimus, ,,			Kington. ,, and		
Llan. ?, W., U.L.	problematicus, Agass.		Malvern			
				Hagley Park.		
L.L	punctatus, Salter	•••••	······	(Engl.) Kendal, Leintwar		
Tilestone	stylops,		•••	Kington(Radn.), Herefordsh		
	Særichnites, Billings, 18					
H. R. G	sbruptus, Billings. (A. Slimonia, Page, 1856.	Anticosti Isl.) Otter's Cove,				
U.L	acuminata. Salter	Observation Day, &c.		Lesmahago (Lanarkshire)		
The state of the s	maxima.					
L	punctata, ,,		•••••	Church Hill, Leintwardine		
	scorpioides, Salter (MS.)			(Shropshire).		
	Stylonurus, Page, 1855.			A COMMINGO (AMERICANITO).		
U.L	spiniceps, Page			(W.Scotl.) Lanarkshire, Les-		
	Logani. Furrilepas, H. Woodwar d.	1865 (Cumov)		mahago.		
	Wrightiana, De Koninck			Dudley (England).		

Summary (Geographical).

		Species.					Species.				
Genera.	America.	Europe.	Asia.	S. Australia.	Common.	Genera.	America.	Europe.	Asia.	S. Australia.	Common.
Astacoderma Bairdia Beyrichia Bunodes Caryocaris Ceratiocaris Climactichnites Cythere Cythere Cytherina Cytheropsis Dictyocaris Discinocaris Dithyrocaris Entomis Eurypterus Exapinurus Hemiaspis	6 1 2 4 3 7	14 1 22 3 1 14 2 6 3 1 1 2 1 1 5		ïi ïi	3*	Brought forward Himantopterus Hymenocaris. Leperditia Limuloides. Lingulocaris Myocaris Parka Peltocaris Primitia. Protichnites Pseudoniscus Pterygotus. Særichnites Slimonia Stylonurus Turrilepas	47 14 5 6 3 1	91 5 1 31 3 1 2 26 1 1 7 		2	4]*
	47	91		2	4		76	178		2	5

^{*} To Europe and America.

SUBKINGDOM MOLLUSCA. PROVINCE MOLLUSCOIDA. CLASS POLYZOA.

Subdivision.	Genus, Species, and Author.	Lower Stage.	Middle Stage.	Upper Stage.
Tr	inflata, Hall	. (Minute creeping fronds State of N. York, Oneida Co	on stones or shells, J. W	S.).
	Archæopora, Eichwald	, 1859.	(T: P	
Pentam. Lst.	100000000000000000000000000000000000000	Poulkova (Russia), Wesen-	(Lavonia) Fennern.	
Fieta	angulosa, ,,	berg (Esthonia).		Description of the Parkett of the Pa
Pleta, Corall.L	st. lamella, "	Czarskoe-selo (Russia), We- senberg, D'Erras.		Ficht (Isle Oesel, Baltic), Kamenetz-Podolsk.
,,	punetata, ,,	St. Petersburg, Government		Transfer & October.
,,	radicans, ,,	Gdow (Russia). Poulkova (Russia), Wesen-		
	Arthroclema, Billings	berg (Esthonia). 1865.		
Tr	pulchella, Billings	Ottawa City, Peterboro T.		
	Berenicea, Lamouroux	, 1821 = Вільторова, Lamou	roux (flat, creeping fronds.	J.W.S.).
W	consimilis, Lonsd			Dudley, Mayhill (England).
Carad	heterogyra, M'Coy	Coniston Waterhead, Lan- cash. (Engl.), Merioneth- shire, Bala Lake.		
W	irregularis. Lonsd	onire, Data Lake.		Dudley, Benthal Edge (Eng.
	Cellepora, Gmelin, 1789			land).
,,	favosa, Goldf			Dudley (Engl.), Gothland.
	Ceramopora, Hall, 1852			OUT INT I COLD
Niag	imbricate Hall			(N. 1 ork) Lockport Shale.
	. incrustans			
Pleta	socialis, Eichw.	Poulkova (Russia).		
	C 110 100	(Thin cylindrical fronds,		
w	affinis, Goldf.	D 11 (7)		Dudley (England),
Pleta		Poulkova (Russia).		
w	granulosa, Menegnini.	Sardinia (Island).		Dudley, Ledbury (England)
1	limarioides, Meneghini.	Sardinia.		
,, >,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	oculata, Goldf.			England.
	Favosites,			Dudler (Fred 1)
,,	punctata, ", Chasmatopora, Eichwai	d. 1856.	••••••••••••	Dudley (England).
Pleta	tenella, Eichw.	Baltisch Port and Spitham (Esthonia).		
	Cladopora, Hall, 1852.			
Pleta	ædilis, Eichw.	Wesenberg (Esthonia).		(N. Vouls) Lashmont (III)
				nois) Chicago.
entam.iz., Ma	multipora, ,,		Zinemogorsk (Antar)	(N. 10ra) Locapore.
,, ,,	reticulata, ,,		••••••	(N. York) Lockport, (Illi- nois) Chicago, (Kentucky)
,, ,,	seriata, ,,			Louisville.
" "	Clathropora, Hall, 1852.			
Niag	alicornis, Hall.	(N. W.; \P \ D.;	•••••	(N. York) Lockport Shale.
Ir	flabellata, D. D. Owen.	(N. Wiscon.)EscanabaRiver.		man de la companya della companya della companya de la companya della companya de
Niag	lichenoides Winch & Man		••••••••••••••••••••••••••••••	Chicago (Illinois)
	verticillata, ,, ,,			" "
**	Coccoseris, Eichwald, 18	59.		
	o, approximata, Eichw.		Kirna (Esthonia).	- Marini
lynx.	Ungarni	Lyckholm (Esthonia)	Kirna Rorkholm (Father	
Orthoc. Lst., Do lom. Lst.	- Ungerni, ,,	Lycknomi (Esthoma)	nia).	
Ilan	Corynoides, Nicholson, 1 calicularis, Nicholson.	867. Dobb's Linn &c., Moffat,		
		Dumfries.		
***	Diamesopora, Hall, 185	2.		(N. Vanla) I allowed
Viag	Diastopora, Lamouroux,	1891 (see Repriser)		(N. York) Lockport.
	Diastopora, Lamouroux, Diplastrea, Eichwald, 18			
		Wesenberg (Esthonia).		
Fixed on Len-	dimuens, Eichwald.			
Fixed on Lep- tana imbrex.				
tæna imbrex.	Discopora, Lamarck, 18	16.		
	Discopora, Lamarck, 18 antiqua, Lamarck.			Dudley (England).

Subdivision.	Genus, Species, and Author.		Lower Stage.	Middle Stage.	Upper Stage.	
w	squamata.				Dudley &c., Shropshire,	
	Disteichia,	Sharpe, 1853	(reticulated branches; man	y rows of pores, J.W.S.).		
	reticulata,	Sharpe.	Bussaco (Portugal).			
		ra, Hall, 184	7=PTILODICTYA.			
	Escharina?	Tanadala 1	836			
	angularis,	Lonsd.			Dudley (England).	
	Fenestella,	Lonsdale, 18	 (Frond reticular: the b 	ranches connected by bar	s. J.W.S.)	
Niag	acuticosta,	Römer.			(W. Tenness.) Decatur Co	
Carad., U.Llan-		Lonsd.	(Engl.) Harnage, Westmore-	Norway, (Wales) Llan-	Dudley (England).	
dov., W.			land, Wales, Chair of Kil-	dovery.		
			dare (Ireland).		The second secon	
	bipinnata,	Billings.	Isle Anticosti (G. St. Lawr.).			
Carad			Desertcreate (Tyrone).			
	anlanna .	Meneghini.	Sardinia Island.			
CL	cribrosa,	Hall.		Zmeinogorsk, Altai, (N.	In the second se	
				York) Lockport.		
CL., Niag	elegans.			Zmeinogorsk, Altai	(N. York) Rochester &c.	
Corall. Lst		Eichw.			Isle Oesel, Ficht (Baltic).	
CH., BL		Hall.	New York.		The Court of Trems (During).	
,,	P. Carrier	Billings.	Mingan Isles (G. St. Lawr.).			
Carad., W		D'Orb.	North Wales		Dudley (Engl.), Wales, Do	
January III	Louisumici,	2010.			mington Wood.	
,, ,,	Millori	Loned	(Wales) Blain-y-cwm, Glyn		Dudley (Wales) Denhigh	
" "	miner,	Louisti	Ceiriog &c.		Dudley, (Wales) Denoigh.	
w	natula	McCov	centog &c.		Dudler	
		whe Billings			Dudley (Can W) Dunde	
CL		Hall	************************************	(N V) Wayna Co (Can	Dudley, (Can. W.) Dunda	
/L/	prisca :,	Han.		W.) Flambro' Head.		
Carad	normlawie	Powtlook	Kildare, Desertereate, &c.			
Arau	regularis,	I OF GOCK.	(Ireland).			
w	notionlata	Loned	(11clanu).		Dudley Dormington Woo	
	reticulata,					
,,	nicidula	M:Cov	•••		Dudler (Fagland)	
Pentam. Lst., si-		Fichw.	**************************************	Talkhof (Livonia)	Dudley (England).	
liceous.	sti ioiata,	Literw.		Tatkhot (Livolia).		
Carad., L.U.Llan-	enhantions	D-O-b	(Wales) Denbighshire, Cer-	(Wales) Markill Mathy	Dudley & (Fngl) (Wels	
dov., W.	antiqua,	D Oro.	wig.r. Davidion to	wates) Mayini, Mathy.	Donbishshins	
CT Nine	tonnia	II all	rig-y-Druidion &c.	(N. Vonk) Warma Co	N Vonk (Con W Vilember	
CL., Niag	tenuis,	nan.	***************************************	(N. 10rk) Wayne Co	N. 1 ork, (Can. W.) Flambor	
,, ,,		Doutl	December (Towns)	,, Lockport.		
Carad			Desertcreate (Tyrone).			
,,	sp. ma. (2),	Salter.	Bala Lake, Llanfyllin, Car-			
		Dillings	nedd, Daf, &c.		(No. B.) D. di	
Vi.	37	Uall	***************************************		(New Brunsw.) Restigouci	
Niag	**	Caltan.			Township Lockport.	
	C1	Janadala	_ D	3 -1 -1 -1 -1	Leopoid SI. &c.(Arct.Amer	
	Glauconom	e, Lonsaate	=Ptilopora, M'Coy. (Fro	nd pinnated, each pinna		
	20.00	. 0.110	OTT 1 -) CI - CI : .	W 1 01 11	J.W.S	
arad., Llandov.,	disticha,	Goldf.	(Wales) Glyn Ceiriog &c.,	Wales, Shropshire		
W.			Westmoreland.		fordshire, Malvern, Lu	
					low, &c.	
				10 July 10 Jul		
				and the state of t		
			GRAPTOLITIDE	A.		
					1	
	Graptolithu	as, Linnæus	(Hall), 1751; including Mon			
, , , ,		TT 11	DITTI OF THE	(Frond simple, cells on	one side of axis, J.W.S.)	
P., Queb. G	Control of the Contro		Point Lévis (Can. E.).	T		
	antennarius,	Meneghini.		(Isle of Sardinia) Goni.	la la sulla de	
., ,,	arcuatus,		Point Lévis (Can. E.).			
		Scharenburg.	Christiania (Norway).		Real Property of the Control of the	
			Thuringia, (Saxony) Wils-		No.	
Carad., Col. Hai-	See lobiferu	8.	druff, Bohemia, S.W.Scotl.	V.D. 1 00 11.		
Carad., Col. Hai- dinger.	Anna Louve In common		D.1.	N.E. end of Sardinia.		
Carad., Col. Hai- dinger.	belophorus,	Barr.	Bohemia.	The state of the s		
Carad., Col. Hai- dinger. D, E, Col. Hai-		100				
Carad., Col. Hai- dinger. D, E, Col. Hai- dinger.	Bohemicus,		(0 11) 1			
Carad., Col. Hai- dinger. D. E. Col. Hai- dinger. P., Div. P, Queb.	Bohemicus,		(Can. E.) Point Lévis, (New-			
Carad., Col. Hai- dinger. D. E. Col. Hai- dinger. P., Div. P, Queb. G.	Bohemicus, Bryonoides,	Hall.	foundland W.) Cowhead.			
Carad., Col. Haidinger. D. E. Col. Haidinger. P., Div. P, Queb. G. Fauna E. e. 3	Bohemicus, Bryonoides, chimæra,	Hall.	foundland W.) Cowhead.		Bohemia.	
Carad., Col. Haidinger. D. E. Col. Haidinger. P., Div. P, Queb. G. Fauna E. e. 3	Bohemicus, Bryonoides, chimæra,	Hall.	foundland W.) Cowhead.	N. York, Rochester, &c.,		
Carad., Col. Haidinger. D. E. Col. Haidinger. P., Div. P, Queb. G. Fauna E. e. 3	Bohemicus, Bryonoides, chimæra,	Hall. Barr.	foundland W.) Cowhead.	N. York, Rochester, &c., Arisaig, Merigomish		
Carad., Col. Haidinger. D. E. Col. Haidinger. P., Div. P, Queb. G. Fauna E. e. 3 CL.	Bohemicus, Bryonoides, chimæra, Clintonensis,	Hall. Barr.	foundland W.) Cowhead.	N. York, Rochester, &c., Arisaig, Merigomish (Nova Scotia).		
Carad., Col. Haidinger. D. E. Col. Haidinger. P., Div. P, Queb. G. Fauna E. e. 3	Bohemicus, Bryonoides, chimæra, Clintonensis,	Hall. Barr.	foundland W.) Cowhead.	N. York, Rochester, &c., Arisaig, Merigomish (Nova Scotia).		
Carad., Col. Haidinger. D. E. Col. Haidinger. P., Div. P, Queb. G. G. Fauna E. e. 3 CL.	Bohèmicus, Bryonoides, chimæra, Clintonensis, colonus,	Hall. Barr.	foundland W.) Cowhead.	N. York, Rochester, &c., Arisaig, Merigomish (Nova Scotia).		
Carad., Col. Haidinger. D. E. Col. Haidinger. P., Div. P. Queb. G. Fauna E. e. 3 CL. Faunæ D,E; Col.	Bohèmicus, Bryonoides, chimæra, Clintonensis, colonus,	Hall. Barr.	(Brittany) La Manche, An-	N. York, Rochester, &c., Arisaig, Merigomish (Nova Scotia).		

Subdivision.	Genus, Spe Auth		Lower Stage.	Middle Stage.	Upper Stage.
P., Queb. G Carad			Point Lévis (Can, E.). Lockerby (S.W. Scotland), Fermanagh, Tyrone, Tip-		
Carad	Conybeari,	Portl.	perary (Irel.), (Sweden) Furudal, (Saxony)Ronneb. Fermanagh, Tyrone, Desert-		
CS., CH., Div. P, Queb. G.	denticulatus,	Hall.	create (Irel.). Newfoundland W., Point		
Carad?	distans,	Portl.	Lévis (Can. E.). Tyrone(Irel.),S.W.Scotland.	(Saudinia) Cani	
Utica Slate	flaccidus.	Hall.	Lake St. John (Can. E.).	(Sardinia) Goni.	
W	Flemingii,	Salter.			Balmae, Kirkcudbright
Queb. G.	flexilis,	Hall.	Point Lévis (Can. E.).		Seotland).
Div. P, Queb. G.	Gonii,	Meneg	Newfoundland W.	(N.E. Sardinia) Goni	
Llan., H. R. G	gracilis,	Hall.	(S.W. Scotl.) Dumfrieshire, Belvoir, Clare (Irel.), S. Australia, Canada, N. York.		
Carad	A CONTRACTOR OF THE PARTY OF TH	Nicol.	(S.W. Scotl.) Greiston, Pee- blesshire.		
E. e. 1		Barr.			The second secon
Llan	coronoides.		Ireland.	(Saxony).	
Div. P, Queb. G.	Headi,	Hall.	Point Lévis (Can. E.), New- foundland N.W., Point Rich &c.		
	hemiprestis,	Meneg.		(N.E. Sardinia) Goni.	
"	Hisingeri, sagittarius,	Carruthers. Hisinger.	Same localities as "sagitta-		
	Huebneri,	Geinitz.	Plauen (Saxony).		
Carad	incisus,		(S.W. Scotl.) Moffat &c.		
Queb. G Utica Slate	lmuentus,	Hall.	Point Lévis (Can. E.). Lewis County (N. York).		
	LaMarmora,	Meneg.	s County (11. 101k).	(N.E. Sardinia) Goni.	
Llan	latus,	M Coy.	Builth (Wales), Skiddaw (Westmorel.), Thuringia (Saxony), Grafenwarth, S. Australia.	Bohemia	
Carad	laxus,	Nicol.	Thornielea, Selkirkshire (Scotland).		
	Linnæus,	Barr.	Bohemia, (Saxony) Hein- richsruhe.		
Llan. (not in 4th ed. 'Siluria').	Contract of the Contract of th		Lockerby, Moffatt, Dumfries (S.W. Scotland).		
Carad.,Llandov., W., L.	Ludensis,	Murch.	S. Australia, Long Sleddale (Westmoreland).	Chambéry (Savoy), Sar- dinia.	Balmae, Aymestry, Bui (Wales), South Austral (Portugal) Bussaco.
OTT	var. minor,	77" 11	N. D. V.	······································	Llangynwyw (Montgomer
CH Carad	millipeda,	M'Coy.	N.E. Vermont (U.S.A.). Dumfries (S. Scotland), Oel- nitz &c. (Saxony).	Bohemia?.	shire).
H. R. G Carad	multifasciatus, Murchisoni,		New York. Pont Seiont (Carnarvonsh.), Welchpool (Wales), (Nor-		
	4.310	35	way) Christiania.		
?	mutuliferus, Nicoli		(N.E. Sardinia) Goni. Dumfriesshire (S. Scotland).		
Fau. E.e.1, Llan.			Braithwaite Brow, Skiddaw (Engl.), Bohemia, (Saxony) Oelnitz &c., Dumfries-	Bohemia,	
Queb. G Fauna E. e. 1	nitidus, nuntius,		shire, Thuringia, Wales. Point Lévis (Can. E.). (Saxony) Wilsdruff, N. York,	Bohemia.	
	peregrinus,	Barr.	S. Scotland. Heinrichsruhe &c. (Saxony),		Marie Marie Marie
	personatus	Scharenburg	Bohemia. (Norway) Christiania.		
Car., L.U.Llar - dov., W., L.L.	personatus, priodon,		(Norway) Christiania. S.W. Scotland, Westmorel., (Denbighsh.) Nantyr &c., (Saxony) Wilsdruff.	giore, Goni, Bohemia, Mayh., Tortw., Wrekin, (Radnor) Cefn Grugos	Ludlow, Builth, Ulverstor Tipperary and Kerry(In land).
Col. Haidinger.	Proteus,	Barr.	(Saxony) Zwickau &c., Thu- ring., Norw., Swed., Bohem.	&c., Mandinam.	

Subdivision.	Genus, Species, and Author.	Lower Stage.	Middle Stage.	Upper Stage.
	quadri-mucronatus, Hall.	Lake St. John (Can. E.).		
Col. Haidinger		Bohemia.		
Utica Sl., H.R.G.,		S. Australia, Skiddaw (Cum-	Bohemia	(Wales) Moel Seissiog.
Llan., Carad.,	Hisingeri, Carruthers.	berl.), (S.Scotl.) Duff, Kin-		(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
U.Llan., W.		nel, (Irel.) Reaffada, Tip-	The state of the s	
Ciamini, iii		perary, (Swed.) Furudal,		
		(Norway) Heinrichsruhe,		
		(Sax.) Thuring., (W.) Llan-		
		faelrhys, (N. York)Albany.		
Llan	Saltari Gainitz	Britain.		
H. R. G		(N. York) W. Canada Creek,		
n. n. G	Scalaris, Hall	(Scania) Fogelsäng &c.		
Llan., Carad	Sodowickii Portl	Heinrichsruhe (Saxony), Ire-		
Lian, Carao	Rastrites triangulatus.	land, (S.W. Scotl.) Rae		
	Zitastricts triunguiucus.	Hills &c., Thuringia.		
H. R. G	correctulus Hall	New York (U.S.A.).	No.	
		Thuringia.		
	enivelie Geinitz	Saxony	Dahama	
	spiralis, Geinitz	C W Castl Wistownships	Bonemia.	
		(S.W. Scotl.) Wigtownshire.		
Llan., H. R. G.,	tenuis, Portl.			
Carad.		fat, &c., (Irel.) Tipperary,		
		Tyrone, Desertcreate, S.		
		Australia, Wrekin, Shrop-		
		shire, Skiddaw, Keswick		
TT TO 00 A		(Engl.), New York.		
H. R. G., fauna	testis, Barr.	N. York, Brittany, (France)	Bohemia.	
E. e. 1.		Angers, Neuvillette, &c.		
,,		S.W. Scotland, Wilsdruff	"	
	Rastrites.	(Saxony).		
Fauna E. e. 1		Thuringia (Saalf ¹ , Saxony).		
		Christiania (Norway).	Harri	
H. R. G		Albany (N. York).	man the state of t	
	sp. ind. Leymerie.	Luchon (Pyrenees).		
L.Llan	,, Salter.	Skiddaw (Westmoreland).		
,,	_ ,,	Barf, Keswick (Westmorel.)		
	Buthograptus, Hall, 18	62?		
Tr	laxus, Hall.	N. York, N. Winconsin.		
	Callograptus. Hall, 186	5.		
P., Div. P, Queb.	elegans, Hall.	Gros Maule, near Quebec,		
G.		Newfoundland.	AT INDIVIDUAL TO THE REAL PROPERTY.	
1)))))	Salteri, ,,	Gros Maule, near Quebec.		
	Salteri. Cladograpsus, Hall, 186	1.		
Llan	gracius, nan.	reland.		
,,	linearis, Carruthers.	S. W. Scotland.		
	Climacograptus, Hall,	1865.		
CH	antennarius, Hall.	Point Lévis (Can. E.).		
L.Llan., H. R.G.	bicornis, ,,	Haverfordwest, Penmorfa		
	Charle VIII market and	(S. Wales), N. York, (Can.		
		E. & W.) Montreal, Ohio,		
		&c., Bohemia?.		
Carad	bullatus, Salter.	Ardwell (S.W. Scotland).		
,,		Canada.	275.40	
Llan., Carad		Moffat (Dumfries).	the state of the s	
H. R. G		Canada.	400	
	Coronoides, Nicholson, 1		Maria Caracana	No. of the last of
Llan		Moffat Shales.		
	cyrtograpsus, Carruthers.		A CONTRACTOR OF THE PARTY OF TH	
Carad		Ireland.	The second secon	
W		Moffat Shales.		A CONTRACTOR OF THE PARTY OF TH
	Dendrograptus Hall 1	865. (Frond ramose, bushy,	irramlar JW C)	
P., Arenig rock.	arbuscularis Salter	Whitesand Bay and Ramsay	iregular, v.m.o.)	
- , and a took	Carolina, Carolina	Isle (S. Wales).		
P., Queb. G	diffusus. Hall	Point Lévis (Canada E.).		
Queb. G	divorgena			
P., Queb. G	amagtus	21 21		
	flormonie	" "		
	frutionene	Point Levis (Can. E.), New-		
" "	iruticosus, ,,	foundland.		
L.Llan	furcatulus Salton			
P., Queb. G		(N.Wales)Ty-obry,Penrhyn.		
		Point Lévis (Can. E.).		
Potsd. Sa		(Wisconsin) Osceola Mills.		
Carad				
P., Queb. G		Point Lévis (Can. E.).		
P., Arenig rock.	sp. ind. Salter.	Whitesand Bay and Ramsay	Colored to the last of the	
		Isle (S. Wales), (N. Wales)		
		Ty-obry, Portmadoc.		

Subdivision.		Species, and Author.	Lower Stage.	Middle Stage.	Upper Stage.
7	Dichogra	ptus, Salter, 1	861, including Graptolithu on one side of the rachides		repeatedly branched; cells
P., Queb. Gr	abnormis.	Hall.	Point Lévis (Can. E.).	0.17.0.)	
Llan	aranea.	Salter.	Skiddaw (Cumberland).		
P., Queb. G			Point Lévis (Can. E.).		IV/
,, ,,	Bigsbyi,	,,	,, ,,	Name and the same	
" "	extensus,	,,	" "		
,, ,,	extensus, extenuatus,	, ,,		Remail II	
H. R. G., Auri-	gracilis,	"	Albany (N. York), Mel-		
ferous Shales.			bourne (S. Australia).		
Llan	intricatus,	Salter (MS.).	Skiddaw (Cumberland).		
P., Queb. G	Logani,	Hall.	Point Lévis (Can. E.), Mel-		
Contract of	Section 1		bourne (S. Australia).		
,, ,,	var.,	,,	Point Lévis (Can. E.).		
,, ,,	octobrachia	itus, M'Coy.	,, ,, Mel-		
			bourne (S. Australia).		
,, ,,	octonarius,	Hall.	Point Lévis (Can. E.).		
	patulus,	,,	"		
	pennatulus		,, ,,		
	quadribrac			N-12	
	ramulus,	. Hall.	" "		
	Richardson	ni, ,,	,, ,,		
,, ,,	rigidus,	0.1: (250)	P-141" 14 (0 ", 1)		
		Saiter (MS.).	Braithwaite (Cumberland).		
P., Queb. G			Point Lévis (Can. E.).		
	sp. ind.		Keswick (Cumberland).		
	- · "-		Skiddaw.	1 1 . 12 . 22	TW G
			=Graptopora, Hall. (Fro		
Fauna E. e. 2,	Bonemica,	Barr.			Bonemia, New York?.
Niag.	Compostuata	TT-11			Maskinsa (Taka Hanan)
Onond. S. Gp. ?	debelliform	is Dander	St Detembrane (Due) Same		York.
Alum Slates	nabelinorn	ns, rander.	St. Petersburg (Rus.), Swe-		TOTA.
			den, Esthonia, Lower Si-		
Fanna E Nica	ailia	H-11	lesia (drift).		(N. Voult control) Tooling
Fauna E, Niag			Point Lévis (Can. E.).	***************************************	Shale, Bohemia.
P., Queb. G	Murravi	,,	Foint Levis (Can. E.).		Shale, Bonemia.
řr	Noonah	D D Owen	Upper Mississippi, N. Wis-		
LE	Nechan,	D. D. Owell.	consin.		
P., Queb. G	quadrango	larie Hall	Point Lévis (Can. E.).		
Niag., Onond. S.	retiformis.	Billings.			(S. Wisconsin) Chicago, (
Gp.	rection into	2,,,,,,,			York) Lockport, Rochest
P., Queb. G	robusta.	Hall.	Point Lévis (Can. E.).	Manual State of the State of th	&c., Grimsby (Can. W.)
U.Ling. Fl	sociale,	Salter.	(N.Wales) Gelli-fwyog, Fes-		
0	Graptop		tiniog, &c., Malvern.		
Niag	Websteri,	Dawson.			(Nova Scotia) Kentville.
P., Arenig rocks.	sp. ind.	,,	S. Wales.		
	Didymog		y, 1851; Tetragrapsus, Sal		U, 1865; CLADOGRAPTUS
Llan	anceps,	Nicholson.	Dobbs's Lynn, Moffat (S.W.		Geinitz. (Frond one
			Scotland).	No. and the second	branched from the base
Queb. G., Carad.	caduceus,	Salter.	Point Lévis (Can. E.), Wex-		J.W.S.)
			ford (S.E. Irel.), Keswick		
			(Westmorel.), Melbourne		
T T 0 .			(S. Australia).		
H. R. G. ?, Au-		is, M'Coy?	Melbourne (S. Australia).		
riferous Shales.		TT	III - C (N. V. II		
H. R. G	divaricatus		Albany County (N. York).		
Llan	naccidus,	Nicholson.	Dobbs's Linn &c., Moffat		
T D G	Towns 1	TT.11	(S.W. Scotland).		
H. R. G Llan.	Parilahama	Hall.	Vilneaus ch Claus Co (Incl.)		
Lian.	Forennami	neri, Geinitz.	Kilnacreagh, Clare Co. (Irel.).		
Ut. Slate	turcatus,	Haii.	Albany Co. (N. York), Mel-		
Llan	cominue	Saltan Hising	bourne (S. Australia).		
Laan	geminus,	Saiter, Hising.	(Swed.) Aher, Russia, (Nor-		
			way) Christiania, (West- morel.) Eggbeck, (Shrop-		
			shire) Shelve.		
	hamatus	Raily	Reaffada, Garrangrena, Tip-		
"	namacus,	Dany.	perary Co.		the state of the s
	hirundo	Hising	(Westmorl.) Ellengill &c.,	ST STATE OF THE ST	The second secon
,,	on ando,	Allonig.	Sweden, S. Wales,		Land House Control of the
	Moffatensis	. Carruthers	(Scotl.) Moffat Beds, (Shrop-	The second secon	The state of the s
,,	201101011511	, continues.	shire) W. of Stiper Stones.		
L. & U.Llan	Murchison	i. Beck	(Irel.) Bellew's Town, Meath,		
	various	, arconi			
or or committee or or			(Wales) Abereiddy Bay,		

Subdivision.	Genus, Species, and Author.	Lower Stage.	Middle Stage.	Upper Stage.
Llan Ut.Slate, H.R.G.		n. Dobbs's Linn, Moffat (Scotl.). l. Canada, N. York, Loch Ryan (S.W. Scotland).		
H. R. G	serratulus, Hall, M'Co	Albany (N. York), Mel-		
Llan., Ut. Slate,	sextans, Hal	bourne (Australia). l. Albany (N. York), Kilma-		
H. R. G.		creagh &c., Clare (Irel.), L. Ryan (S.W. Scotland), (England) Braithwaite, Skiddaw.		
9		n. Glenkiln, Dumfries, N. York. n. Victoria (Australia).		
	" Bonissen	t. (France) Angers.	C 1: F.W.	0)
Llan		1 850. (Two opposite rows of Dumfriesshire (S.W. Scotl.).	t cells on one rachis, J. W.	0.)
Гr		l. (N. York) Middleville, (Can. E.) Montreal, Tennessee, N.W. Michigan.		
Llan	angustifolius, ,, barbatulus Salter	N. York, Canada. (N. Wales) Ty-obry, Garth.		
Llan., H. R. G		l. S.W.Scotland, (N.&S.Wales)		
		Ty-obry, Melbourne (Australia), (Can.W.)Humber Valley, Ohio, L. Huron, N.E., (Can.E.)R.St.Anne,		
		I. Orleans.		
Carad	bullatus, Salter dentatus.	Ayrshire, Ardwell, &c. (Scot- land).		1
P. or H. R. G	ciliatus, Emmon	N.York, (Virga) Augusta Co.		
?	cometa, Gennit dentatus, Brongniar	 Heinrichsruhe &c. (Saxony). Weckensdorf (Saxony). 		
Pleta	distichus, Eichy	Russia, I. Odinsholm (Balt.).		D . 15
Llan., Carad., L.	pristis, Hisinger.	(Cumberl.)Skiddaw, (Shrop- shire) Meadow's Town,	***************************************	Pentre, Montgomeryshire
	2,	(N. Wales) Corwen &c.,		
Llan., Carad	folium, Hising	(S.W. Scotl.) Dumfriessh. Melbourne(Australia), (Swe-		
		den) Furudal, (Norway)		
		Christiania, (S.W. Scotl.) Lockerby &c., (Irel.) Fer-		
	Land Land No. 1889	managh, (Cumberl.) Skid- daw. Thuringia.		
Llan		Hartfell, Moffat (S.W. Scotl.)		
P., Queb. Gp H. R. G		l. Point Lévis (Can. E.). Albany County (N. York).		
Llan., Ut. Slate.		(Can.W.)Pt.Rich, L. Huron, Albany Co. (N. York), Mel- bourne (Australia), Lake		
		St. John (Can. E.), (Engl.) Skiddaw, (S.W. Scotland) Hartfell&c.,(S.& N.Wales)		
		Builth, Ty-obry, &c.	to the management of	
Llan	nodosus, Harknes	8. (S.W. Scotl.) Dumfriesshire, Bran Burn.		
Fauna E. e. 1	ovatus, Bar	r. Melbourne (Austr.), Schleiz	Bohemia.	
"	palmeus, ,,	(Saxony), Thuringia. Thuringia, Bohemia, Schleiz	,,	
Col. Haidinger.		(Saxony).	"	
Pleta	var. lata, ,, paradoxus, Eichv	r. Isle Ödinsholm (Baltic).	3)	The state of the state of
Llan Pentam. Lst	pennatus, Harknes	s. (S.W. Scotland) Dumfries.	Tallshaff (Timeria)	34
	peosta, Hal	l. Wisconsin, New York.	Talkhoff (Livonia).	
U.L.Llan., Car., L.Llandov.?	pristis, Hising., Hal	l. (N. York) Albany Co. &c.,		
Z.Z.Mandov.		(Can. E.) River St. Anne, Montmorency, Rivers Mar-		
		souin and Magdalen, Mel- bourne (Australia), Loch		
		Ryan (S.W. Scotl.), (West-		
	W 1	moreland) Ireleth Moor, (Irel.) Belvoir, Clare Co.,		
		&c., (N. & S. Wales) Tahi-		
		rion, Conway, Tremadoc, (Shropsh.) Soudley, Stiper		

Subdivision.	Genus, Species, and Author.	Lower Stage.	Middle Stage.	Upper Stage.
	var. β, Hall.	New York, Builth (Wales).		
P., Queb. G		Point Lévis, Bolton (Can.E.).		
H. R. G	putillus, "	Iowa (U.S.A.)		
	quadri-mucronatus, ,,	Lake St. John (Can.E.), Ayr-		
		shire (S.W. Scotland).		
L.Llan., H. R. G.	ramosus, ,,	(Can. E.) Riv. St. Anne &c.,		
Contract of the Contract of th	1000	Albany Co.(N.York), Mel-		
		bourne (Australia), (S.W.		
		Scotl.) Cairn Ryan, West-	Page 1	
		moreland, (N. & S. Wales)		
		Ty-obry &c., Anglesea.		
Llan	rectangularis, M'Coy.	Victoria (Australia), (Scotl.)		
CH	and inve	Dumfries, Lockerby.		
CH	secannus, Laton.	(N. Y.) Baker's Falls, (Ver-		
Ut. Slate	sextans Hall	mont) Georgia Township. (S.W. Scotl.) Cairn Ryan,		
Ct. Slate	Sexuals, Hall.	(N. York) Albany.		
H. R. G	spinulosus, ,,	(N. York) Albany County.		
Fauna D	tectus. Barr.	Bohemia.		
P., Alum Slate,	teretiusculus, Hising.	(Saxony) Heinrichsruhe &c.,		
Llan., Carad.		Thuringia, Sweden, (Nor-		
		way) Christiania, (N. & S.	Maria Carlo	
		Wales) Anglesea, Ty-obry		
		&c., (S.W. Scotl.) Glen-		
		kiln &c.		
	var. a. secundus, Schar.	(Norway) Christiania.		
	" b. distichus, "	" "	ATTENDED TO	
	,, c. contractus, ,,	35 m". m 3 "		
L.Llan	tricornis, Carruthers.	Moffat Shales.		
Llan I d		(S.W. Scotl.) Wamphray.	TO THE OF (Timesia)	
Silic.Pentam.Lst. Llan	Whitfold: Hall	(N.York)AlbanyCo., Britain.	Talkhon (Livonia).	
Lian	sp. ind. "	(N. York) Albany County		
9	" Meneghini		Variation of the second of	
	Graptotheca.	Saruma.		
P., Queb. Gp		Point Lévis (Can. E.).		
	plumosa, ,,	Point Lévis (Can. E.), New-		
" "	printed ,	foundland (Div. P.).	t family	
,,	punctata,			Church Hill.
LL	punctulata,			
	Rastrites, Barrande, 185	5. (Spiral, with very thin	rachis, and the cells on th	e convex side, J.W.S.)
Llan. (not in 'Si-	Barrandei, Harkn., Hall.			
luria,' 4th ed.).		Les Malaris (28 min)		
Fauna E. e. 1	fugax, Barr.	(Bohem.) Col. Haidinger	Bohemia.	
	gemmatus, ,,	22.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2	,,	
Llan., Fau. E. e. l	Lanei, ,,	Col. Haidinger (Bohemia),	,,	
**		Britain.		
Llan.		S.W. Scotland.		
Faunæ D, E. e. 1,	peregrinus, "	Bohemia, Thuringia, (S.W.	"	
Llan.		Scotland) Dumfriesshire,		
Llan.,Carad. (not	triangulatus Harkness	Bran Burn, Moffat, &c. (S.W. Scotland) Moffat.	Company of	
in 'Siluria,' 4th		S.W. Scotland, Monat.		
ed.).	sp. ma. "	D. II. Debumid.	A service of the serv	
our ji	Retiolites, Barrande, 18	50; includes Retiographus,	Hall: GLADIOLITES, Barr	ande, 1850. (Frond reticu
P., Queb. Gp		Point Lévis (Can. E.).	, and tourist any arms	lar only, J.W.S.)
Ut. Slate	Eucharis, Billings.	Lake St. John (Can. E.).	Andrew Company	
?	foliaceus, Geinitz	Montgomeryshire (Wales).		
Fauna E.e.2, CL.,		Bohemia, Brittany, (Saxony)	Bohemia, New York	Norway, (Engl.) Ulverstone
Llandov., Wool-		Raitshain &c., Thuringia.		Radnorshire (Wales).
hope, W.				
		Sadewitz (Lower Silesia).		
P., Queb. Gp		Point Lévis (Can. E.).	CHILLY D. L. TI	12 1 10
CL., U.Llandov.,			(Wales) Pen-y-lan, Llan-	
W., Fau. E. e.1.			dovery, Bohemia, (New	
	Tetragranene Saller 19	63. (Four branches, J.W.	York) Rochester.	
		Frozen Gill (Westmorel.).	5.)	
Llan		Keswick (Westmoreland).		
P., Queb. Gp	erucifer Hall	Point Lévis (Can. E.).		
1., Queo. op	principal, Tian	Zonie Zonis (Can. Es).		
		POLYZOA (amtim	ed)	
		POLYZOA (continu	cu.j.	
and the second	Helopora, Hall 1852.		l	
T: 0 1 0			(Anticosti) East Point.	
Div. 2, A. Gr.	iormosa, Dininge		(

Subdiv	ision.	Genus, Sp Autl	becies, and hor.	Lower Stage.	Middle Stage.	Upper Stage.
CL		fragilis	Billings		(Can W) Dundas (New	
O.L		iragins	Dinings		York) Lockport &c.	
Div. 1, A. C	G.,Llan-	lineata,	,,		(Anticosti) Junction Cliff.	
dov		Anna Maria				
		Heteropora	, Blainville,	1830. (Perhaps a sponge	J.W.S.)	
w		? crassa,				
Corall. L	st	foraminosa,		D 11 (D :)		Isle Oesel (Baltic), Ficht.
(Pleta) O	rtn. Lst.	Hornera?, I	Tan 1859	Poulkova (Russia).		
CT.		dichotoma,	Hall		(N Vork) Rochester Lock-	
Сы		V	7.77 1050			Annual Country of the
Niag		plumulosa,	Hall.		Post	(N.York, central) Rocheste
		Intricaria. I	Defrance, 182	2.		Lockport, &c.
Carad		obscura,	Portl.	Tyrone (Ireland)?. (Canada E.) Montreal.	,	
Tr		reticulata,	Billings.	(Canada E.) Montreal.		11-2
371		Lichenalia,	Hall, 1852.			ON Wally Balanta (TII)
Niag		concentrica, Mastopora,	Evolunald 18	50		(N. York) Rochester, (Ill nois) Chicago.
Pleta		concere	Eichw.	Réval (Baltic), D'Erras, We-		nois) Cincago.
		concura,	ALICH W.	senberg.	364 1	
		Micropora.	Eichwald, 18	59 = Eschara, Eichwald.		
,,		cyclostomoides	s, Eichw.	Wesenberg, D'Erras (Estho.)		
		gracilis,		Réval &c. (Baltic), Iswoss.		
				St. Petersburg.		
		rhombica, Phænopora,	11-11 1050	Réval, &c. (Baltic).		
CT	20000000	Phænopora, costellata,	Hall, 1852.		(N. Vonk) Worms Co. C.	
M Sa CI	ſ.	ensiformis,	nan.		New York (Canada W)	
arioni, Or		ensnormis,	"		Flambro'.	
CL		explanata,	,,		(N. York) Lockport &c.,	
					(Can. W.) Flambro'.	
Tr		multipora,	,,	(N. Wisconsin) Escanaba R.		
		Phyllopora,	King, 1849.		e 1	
Carad		Hisingeri,	M'Coy.	Coniston Waterhead (Lan-		
				cashire), (N. Wales) Glyn Ceiriog &c.		
	6/4 50	DROGERO	Salton	Wales, Corntown, Wexford		
" …		(Ptilodictua)	Saiter.	(Ireland).		
,,		(Ptilodictya) sp. ind. (2),		(Montgomerysh.)Llanwddn.		
		Polypora, M	Coy, 1844 (including Hornera, Lonsda	le, not Lamouroux).	
W		erassa,	Lonsd.			Dudley (England).
Niag		dichotoma,	Hall.	***************************************		New York.
T. O (1)	Clata	Hornera.	771.1	D'E (E-t)		
Inflam. Cl				D'Erras (Esthonia).		
Niag		gracilis,	Billings.	······	The second supplies to the second supplies to	(N. York) Rochester &c.,
		Retepora.	Haii.			Chicago (Illinois).
		Protovirgula	aria, M. Coy	, 1855.	The second secon	omengo (minero).
Llan., Car		dichotoma,	M'Coy.	Lockerby, Dumfries, Gries-		
	THE PARTY OF			ton, Peebles, Thuringia.		
11		Pteropora,				
Carad		exilis,		D'Erras (Esthonia).		
,,		pennula,		(Esthonia,)Spitham(Baltie). 839; Stictopora, Hall, 184	S. Faculpopopi H.U.1	847 (Leaf-like expensions
		r inouiciya,	Lousaute, 1	coo, Bileforona, Ham, 101	o; Escharopora, Hau, 1	branching or simple, with
					STATE OF THE STATE	two rows of opposit
				C The second	Control of the Contro	cells attached to a centra
B., BL., T	r., Ut.	acuta,	Hall.	Highgate Springs, N. Ver-	Esthonia.	plate, J.W.S.).
Slate, H.	. R. G.,			mont, Montreal, Lake St.	AND THE STATE OF T	
M.Sa., C				John (Can. E,), Canada,		
Llandov.				W. Missouri, Wisconsin,	Column Co	
				New York, Pennsylvania, Wales Ireland S W Scotl		
				Wales, Ireland, S.W. Scotl., Russia, Chair of Kildare		
				(Ireland).	11311	
Carad		var. minor.		Llanfyllin, Montgomery-		
			110,000	shire (Wales).	Warma Killming	
iv.4, A.G.,			Billings.		(Anticosti) Chicotte River.	
Div. 2, Lla			,,		(Anticosti) Cape Sandtop	
A. Gr.					Bay.	
		Canadensis,	35.77	Charleton Pt., Anticosti Isle.	(TIT)) 35 () ()	
Car., L., U	.Llan-	eostenata,	M'Coy.	(S.W. Scotl.) Girvan, Den-	(Wales) Mathyrafal.	
dor				bighshire, Llansaintffraid,		
dov.						
dov.		rassa.	Hall	&c., Sardinia.	(N. York) Wayne Co &c	(Can W) Flambro' Hand

Subdivision.		Species, and Author.	Lower Stage.	Middle Stage.	Upper Stage.
H. R. G	decipiens,	Meek & Worth.	Madison, Richmond (Indi-		remarkation of
Llan., U.L.Llan-	dichotoma	Powt1	ana). Chair of Kildare, Desert-	Cong (Golmon)	
dov., Carad.	ченовоша,	. Foru.	create(Irel.),(Wales)Llan-	Cong (Gaiway).	
dorn curuu			fyllin &c., Scotland, (Eng-		
	44		land) Westmoreland.		
Tr	elegantula,	Hall.	(N. York) Mohawk Valley,		
	100		N.W. Michigan, Chair of		
			Kildare (Ireland).		
Niag.		Billings.	••••••	Later Carlot Town	Dundas (Canada W.).
Antic., Divs. 1, 2, 3, 4.	excellens,	"	······································		
Carad., H. R. G.,	explanata	M'Cov	Coniston (Westmoreland),	Gamache Bay &c. Canada (Wales) Mathy-	
U.Llandov.	capitalities,	at coj.	(N. Wales) Wrexham &c.,	rafal.	
			Anticosti (West end).		
Pleta	exserta,	Eichw.	(Baltic) Réval, (St. Peters-		
D DY OUT		TT 11	burg) Dhow.		
B., BL., CH	tenestrata,	Hall.	Canada, (N.Vermont) High-		
			gate Springs, New York, N.W. Lake Huron, Camp		
			d'Ours, N.W. Michigan		
			(Lake Superior).		
	ferrea,	Salter.	Niti Pass, Himalaya Moun-		
			tains (E. I.).		
CompactOrthoc?	flabellata,	Eichw.	Isle Dago (Baltic).		
Lst. H. R. G. &c	fmorilia	Dilling	(Anticosti) Charlton Point.	(Antiqueti) Tomation (2):00	
Carad		M'Cov	Gelli Grin, Llansaintffraid,	(Anticosti) Junction Chil.	
Caraci	rucoiucs,	II Coy.	Bala, Denbighsh. (Wales).		
H. R. G. &c	gladiola,	Billings.	Anticosti Light House	Anticosti, Divs. 1, 2, 3.	
CH		Hall.	(N. York) Chazy Village,		
			(Vermont) Granville.		
B., BL	labyrinthic	a, ,,	(Can. W.) Camp d'Ours, L.		
			Huron, (N. York) Clinton County.		
Carad., Llandov.,	lanceolata.	Lonsd. Goldf.	Sardinia, Coniston (West-	(Wales) Pen-v-Craig &c	(Norway) Christiania Is
W.L., H.R.G.,		Donouly Crown	morel.), N. York, Lyckholm	(Engl.) Tortworth, (Es-	Oesel, (Wales)Llangyny
Pleta, Cor. Lst.			(Esthonia), Anticosti Isle	thonia) Borkholm, Gal-	
			(West end).	way (Irel.).	shire, Clungunford, A
	lobata,		(Sardinia) Fontana Mare.		mestry.
B., BL			Camp d'Ours, L. Huron. Anticosti, Point Charleton.		
	nitida, pinnata,		Anticosti, Point Charleton.		Thuringia, Lower Silesia
	plumula,	Salter.	Niti Pass, Himalaya Moun-		(drift).
		2000000	tains (E. I.).		(
	potamoget	on, Eichw.	(Isle Dago) Hohenholm.		
	prismatica		(Sardinia) Fontana Mare.		
Carad			Yspatty Evan (Wales).	(Fotheris) Tale Deader	
Niag	pulchella,		(Russia) St. Petersburg	(Estnonia) Isie Daguen.	(N. York) Lockport, (Ill
Tr. CL		, IIaii.	N.W. Michigan, New York.		nois) Chicago.
CL., Niag		Hall.		(N.York) Rochester, (Can.	(N. York) Rochester.
				W.) Flambro'.	
Tr	recta, 1	Meneghini, Hall.	Sardinia, Isle Dago, N. York,		
			Missouri, (Can.W.) Moira		A CONTRACTOR OF THE CONTRACTOR
			River, (Can. E.) Mont- morenci Falls, N. Wis-		
			consin, Kildare (Ireland).		
Tr., CL	var. nod	osa, Hall.	(N. York) Herkimer County.	New York.	
Tr		n, "?			
Div.4, A.G., Mayh.		Billings.	De la Tilla (F. d. 1)	(Anticosti) The Jumpers	The latest and the la
Pleta			Réval, D'Erras (Esthonia).		
U.Llandov.,Pleta	scalpellum	, D. de Leucht.	Poulkova (Russia). Norway?, (Russ.)Wotchana,	Malverns (England)	Dudley, Martley Liner
Woolhope., W.		, Lonsa.	St. Petersburg, &c., Lower		Bay (Pembroke).
Trousiopen, Tr			Silesia (drift).		Lay (x canoroac).
	simplex,		Fontana Mare (Sardinia).		
Div.4, A.G., Mayh.	The state of the s			(Anticosti) The Jumpers.	
"	superba,	"			
	tonoro			(Anticosti).	
"	tenera, variabilis,	Prout.		Gamache Day (Anticosti)	Columbus (Ohio, U.S.).
",	sp. ind.				North Vermont (U.S.).
	Tr. market	TI-11	N.W.Michigan (Lake Sup.).		The state of the s
	- 11	11811.	Lt. tt . milcingan (Lake Dub. 6		
	Ptylopor	a, M'Coy, 1844.	(A variation of FENESTEL	LA, with a central rachis, J.	W.S.)

Subdivision.	Genus, Spe Auth		Lower Stage.	Middle Stage.	Upper Stage.
CL., Niag			6. (All Silurian Retepor		a, but it is convenient to re- tain this common name for those which cannot be properly referred, J. W.S.) (Can. W.) Flambro'.
Niag	asperato-striata				(N. York) Lockport Shale.
CL		Vanuxem.		New York.	
Niag	diffusa,	Hall.			(N. York) Lockport Shale.
	fenestrata,		Tennessee, New York.		
Tr			(N. York) Lewis County.		
CH		"	" Clinton Co. (in Lst.). " Galway and Clinton		
,,	incepta,	"	Counties, Pennsylvania.		
w	infundibulum.	Lonsd.	Countries & Chino, 17 annua		(England) Dudley.
?	retiformis,				
	reticulata,	Hising.			
	Rhabdinopo	ra, Eichwal	d, 1859.		
Clay Sh. in Obo-	flabelliformis,	Eichw.	Czarskoe-selo, Narwa(Russ.),		
lus Sandstone. Pentam. Lst	un dulata		Réval (Baltic).	Fannam (Lizania)	
	Rhinopora,		***************************************	Femierii (Livonia).	
CL., Niag		Hall.			(N. York) Lockport.
Niag.	tubulosa,	Billings.		(N. York) Wayne County.	Dundas (Can., central).
Niag., CL	verrucosa,	"		(Can. W.) Dundas	(Can. W.) Flambro'.
	Sagonella, H	all, 1852.			
Niag	membranacea,	Hall.		•••	(N. York) Rochester shale
	Synocladia,	King, 1849.	P (Pt1)		and Lockport.
	hypnoides, Lusitanica,		Bussaco (Portugal).		
	Lusitanica, Thamniscus	King. 184	9. "		
Inflam. Clay Sl., H. R. G.	bifidus,	Éichw.	D'Erras (Esthonia).		
	Trematopor	a, Hall, 185	2.		
Niag		Hall.			
Orthoc Lst., Pleta	coalescens,	Tr. 1"	P(-1 (P-16-)		,, ,.
Niag	colliculata,	Hell	Réval (Baltic).		N Vork (Looknort shale)
,,					
"			AND PROPERTY OF STREET STREET,	And the second second second second	Rochester.
,,	punctata,	,,			New York (Lockport shale).
,,		,,			
,,		**			" "
	spinulosa,	11	······		
CL., Niag		Billings		Cabot's Head (L. Huron)	" "
***	tuberculosa,	Hall.		Choos Head (L. Huron).	New York (Lockport shale).
	tubulosa,	,,			,, and
					Clinton Co. (Green shale).
L. H. G		Shumard.			Cape Girardeau (Missouri).
	Urceopora,				V
Corall. Lst Pleta		Eichw.	Nubr (Fethenia)		Kamenetz (Podolia).
Pleta		Defrance 1	Nyby (Esthonia). 829. (Most likely these are	CEREOPORA JWS)	-
Pentam.Lst.,Cor.	? megastoma.	Defrance, 1	625. (Most likely these are	CEREOFORA, J.W.S.)	Isle Oesel (Baltic).
Lst.	- Succession,				The court (Dillie)
Pentam. Lst	? nodulosa,	Eichw.		Talkhof (Livonia).	
	1	2000000		(arronna).	The second secon

Summary (Geographical).

		s_l	pecies					S	pecies	3.	
Genera,	America.	Europe.	India.	Australia.	Common.	Genera.	America.	Europe.	India.	Australia.	Common.
Alecto Archæopora Arthroclema Berenicea Cellepora Ceramopora Ceriopora Chasmatopora Cladopora Clathropora Clathropora Coccoseris Diamesopora Diastopora Diplastrea Diplophyllum Discopora Disteichia Eschara Escharina Fenestella Glauconome Graptolithus Buthograptus Callograptus Cladograptus Climacograptus Coronoides Dendrograptus Dichograptus Dictyonema	1 2 4 8 17 9	2 1 1 1 6 1 5 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			 	Brought forward Phyllograptus** Ptilograptus Rastrites Retiolites Tetragrapsus Helopora Heteropora Hornera Inocaulis Intricaria Lichenalia Mastopora Micropora Phenopora Phyllopora Polypora Porpora Portovirgularia Pteropora Ptilodietya Ptylopora Retepora Rhabdinopora Rhinopora Rhinopora Rhinopora Rhinopora Rhinopora Rhinopora Sagonella Synocladia Thamniscus Trematopora Urceopora	112 5 2 5 1 13 1 4 28 7 21 11 11 11 11 11 11 12 13 14 15 16 17 18	123 2 4 4 4 2 3 1 3 3 3 1 2 19 1 1 2		18 2	17 2
Didymograpsus	6 18	8 19 123		5 7 18	4‡ 4§ 17	Total	201	184	2	20	24

† Common to America and Australia.

* Common to America, Europe, and Australia.
† Common to America and Australia.
† Common to Europe, Australia, and America; 2 to Europe and America; 1 to America and Australia.
† Common to Europe and Australia.
† Common to America; 1 to America and Australia.
† America and Europe.

** See Errata.

¶ America and Europe.

Subkingdom MOLLUSCA. Province MOLLUSCOIDA. Class BRACHIOPODA. Orders:—1. ARTICULATA; 2. INARTICULATA.

Subdivision.	Genus, Species, and Author.	Lower Stage.	Middle Stage.	Upper Stage.
P., Queb. G Pleta	subconica, sp. ind. Logan Athyris, M·Coy, 1844. bella, Hall Merista. borealis, Billings cassidea, Dalm Circe, Barr Merista? compressa, Sowerby congesta, Bill. (MS. 1866) crassirostra, Hall	Newfoundland W. (Div. P.), Portland Creek. Poulkova (Russia).	Canada	Pank Lode, &c. (Bohem.) Konieprus, Mninian, (Engl.) Walsall. (Wales) Presteign &c., Der Hope Burn, Pentlan Hills (Scotl.), Tirnaske Tyrone (Irel.) Canada, Anticosti Isle (CL (Can. W.) Thorold.
	Rhynchonella.			Gothland.

Subdivision.	Genus, Spec	cies, and or.	Lower Stage.	Middle Stage.	Upper Stage.
Dista Compli Tat	323	Dolon	Isle Dago (Baltic)		(Tele Oscal) Fight
Pleta, Corall.Lst. W.L.	didyma,		Isle Dago (Baltic)		
11.12.	Rhynchonella				hope, &c. (Engl.).
Faunæ E, F	enhemera.	Barr		Bohemia	(Bohemia) Beraun, St. Ivan
?	Ferroneciensis,				
					bray.
Fauna F	granulifera,	Barr.			(Bohemia) Konieprus, Mnie
H. R. G		Billings.	(Can. E.) St. Gregoire, An-		nian.
			ticosti, Three Rivers, St.		
	20 20 20		Lawrence, Lake St. John.		
,,	var. Anticosti	ensis, ,,	(Anticosti Isle) English		
			Head.		
Fauna F					(Bohemia) Mnienian.
D:- 0 0 4 4 C-	Julia,	Billings.		(Anticosti) The Jumpers.	
Div.2, 3, 4, A.Gr.	Junia,	***		Jumpers, &c.	
Fauna E. e. 1, 3	Tuno	Paum		(Rohamia) Rawann	(Bohemia) Beraun, Kozel
rauna Is. c. 1, o	Juno,	Darr.		(Donemia) Deraul	Wohrara, &c.
L. H. G	lovie	Billings		Cane Gasné.	Womana, de
Div. 2, A. Gr.,					
Llandov.	and try	**		Carrier of the Carrier	
Fauna F	melonica.				(Bohem.) Konieprus, Mnie
				The second secon	nian, Thuringia.
CL., Niag	naviformis,	Hall?		(Can. W.) Dundas	(Can.W.)Flambro' Head &c
Niag	nitida,	,,			
	Merista?				
	nucella,	Römer.			Lower Harz (Giebel).
Fauna E					
W., L.L	obovata,	Sowerby.			
D Dela		-			(Bohem.) Prague, I. Oesel
Faunæ F. f. 1, G		Barr.	•••••	Dahamia	(Bohemia) Mnienian &c.
Fauna E		D:11:"		Bonemia.	
Div. 1, A. Gr., Llandov.	Prinstana,	Billings.			
	prisca,	Ciabal		Isle).	Lower Harz (Germany).
Fauna F	prisca,				(Bohemia) Mnienian.
Div. 4, A. Gr.,					(Donemia) Binieman.
Mayhill.	outturin,	Dinings.		Zineicosti, O. W. Z omiti	
Corall. L., W., L.	tumida.	Dalm.			(Engl.) Dudley, Tortworth
	Meristella.				Malvern, Woolhope, Lud
					low, &c., (Gothland)Djup
	Telegraphic Control of the Control o	200		Control of the latest and the latest	viken, (I. Oesel) Lodé &c.
					(Irel.) Ferriter's Cove.
Div. 3, A. Gr.,	tumidula,	Billings.		(Anticosti) Jupiter R. &c.	
Mayhill.		61 1		THE D	A Company
Die 1 A Ce	turgida,	Shaler.			
Div. 1, A. Gr.,	umbonata,	Billings.		., Junction Cliff.	
Llandov.	undata,	Defenne	······		Brost (France) (Francile)
Pleta, Corall. L.		Eichw	Isle Oesel (Baltic)		(Isle Oesel) Hoheneichen
Fauna F	vultura	Barr.	Isle Oesei (Danie)		(Bohemia) Mnienian
U.Llandov		?		Nash Scar, Presteign	(20 Million) Million (1971)
	Atrypa, Dalm		Spirigerina, D' Orbigny. (T		interchange species, J.W.S.
CH	acutirostra,	Hall.	(N. York) Clinton, Saratoga		
			Co., N.W. Michigan (L.		
	and the second		Superior).		
CL		,,		(N.York) Oneida County.	EM-COST
СН	altilis,	,,	N.W. Michigan, (N. York)		ment of the same of the same
	1 1: -		Clinton County.		TT: 1 (0 1) 1:
0	Angelina?				Wisby (Gothland).
?	Arimaspus,	Salata di	······		Bohemia, Bogoslofsk, Oural
	aspera, reticularis.	Schloth.		•••••••	
	retenuris.			BARCOLO III COLONIA DE LA COLO	quin, &c., (Engl.) West- morel., N. York, Sweden
			Harrist and the same of the sa		(Gothl.) Korpeklint &c.
w	Barrandei.	Davidson			Hayhead, Walsall, Dudley
	,	a i i i i i i i i i i i i i i i i i i i			(England).
CL	bidens,			(N. York) Lockport.	
Niag		Hall.			(N. York) Lockport, Goth-
			3 10 10 10 10 10 10 10 10 10 10 10 10 10		land, Dudley.
Niag					New York.
	,,	Hall.	(N. York) Jefferson County.		
Tr					" (Lockport shale).
Niag		37			
Niag	camura,	11		***	" (Lockport).
Niag	camura, cassidea,	Dalm.	(Ostrogothia) Borenshült. (N. York) Middleville.	•••	

Subdivision.	Genus, Spec		Lower Stage.	Middle Stage.	Upper Stage.
Car., W., fau. F.	The same of the sa		Coniston Flags (Lancashire).	The state of the s	Tirnaskea, Bohemia.
L. H. G					New York.
CL., Div.3, A.Gr.				dina,(Can.W.)Flambro', Anticosti, S.W. Point.	
Niag					(N. Y.) Lockport, Rochester Mid-Gothland, Isle Oese
Llandov	crassa,	Hall.		Cefn Rhyddw, Haverford- west (Wales), Lockport, Rochester (N. York).	(Baltic).
Niag CL		Conrad.			(N. York) Lockport.
Tr	dentata,	***	(New York) Lewis County.		
Llandov., W., L.	didyma,	Dalman.	" "	Glasnevin (Irel.), Llan- dovery (Wales).	(Engl.) Dudley, Malvern Ledbury, (Wales) Llan sannan,(Gothland) Frojel New York.
Niag	Leptocelia.				(N. York) Wolcott County.
CH		vson "	(N. New York)ChazyVillage.	(N. York) Oneida County	
	Leptocelia?			(Nova Scotia) Arisaig.	
Tr?	nbrosa,	Billings.	(New York) Lewis County. Canada.		
H. R. G Up. Div. E., CL.	filitexta,	Hall.	Missouri (U.S.A.).	New York (Anticosti I)	
	hemisphærica.			S.W. Point &c.	
	galeata,			The state of the s	Plain.
W., L	.,	Sowerby.	······································	······································	Wenlock Edge, Aymestry Shropshire.
Tr Car., Llandov., W.	glabella, Gravi,	Hall? Davidson.	New York.	?	Wisby (Gothl.), (Engl.)Wal
H. R. G Carad	Headii, var. anglica,	Billings. Davidson.	Lake St. John (Can. E.) Grangegeeth, Meath (Ire- l and).		sall, Dudley.
Tr	hemiplicata,	Hall.	L. St. John (Can. E.), Ten- nessee, Upper Mississippi.		South Wales.
Carad., Divs. 3, 4, A. Gr., CL., Niag., L.U. Llandov.		Sowerby.	(Wales)Pwliheli &c., (Engl.) Malvern &c., (S.W. Scotl.) Girvan &c.	(Anticosti) The Jumpers,	
Carad Fauna E, L. & U.		M'Coy. Sowerby.	(S.W. Scotland) Girvan. Chair of Kildare (Irel.)		(Norw.) Christiania, Mic Gothland, Baltic, Russia.
Stages.	var. lamellosa	, Lovèn.			(Gothland) Wisby &c.
Delth, Sh. Lst	Control of the Contro	Vanuxem. Dawson.		(N. Scotl.) Arisaig, Iowa, Ohio, (N. York) Lock- port, Pennsylvania, S. Wisconsin.	
Niag	interplicata,	Hall.			(N. York) Lockport.
L. H. G Llandov., U.L		Conrad. Sowerby.		Boocaun, Cong (Galway)	" Cherry Valley. (Ireland) Ferriter's Cov. (England) Ludlow &c.
Delth. Sh. Lst	lævis,	Mather.			New York, Ferriter's Cov. (Ireland).
Cor. Lst., Schoh		Hall.	(Wales)Diffwys,Corwen &c.,	(Anticosti) Junction Cliff	(New York) Schoharie.
Car., L.Llandov. Cor. Lst., One- ida Conglom.			(Irel.)Chair of Kildare&c., (Yorkshire) Dent &c., Si- lesia, Russia, Esthonia.	Ural, Ireland, Scotland, (Wales) Llanfyllin &c., (England) Chirbury.	Mayhill, Dudley, Wale (Gothl.)Klinteberg&c.,Be hemia, (Esthonia) Nyb Isle Dago, &c., Ural.
Niag., CL		Giebel. Hall.		New York	Lower Harz (Germany). (N. York) Cherry Valley.
Tr., U.Sl., H. R G.	. modesta,	"	New York, Ohio, Indiana, Kentucky, Up. Mississippi River, Tennessee.		
CL				(N. New York) Sodus.	(N. York) Lockport Wo
Niag	negiecta,	"		(LILOTA) Meyhale SDasin.	cott, &c.

Subdivision.	Genus, Spec		Lower Stage.	Middle Stage.	Upper Stage.
Niag	nitida	Hall			(N. York) Lockport, Wol
	interests				cott, &c.
,,	var. oblata,				(N. York) Monroe County.
	nodostriata,	"		,	(N. York) Lockport, Chicago
					(Illinois).
	nucella,	Dalman.			(Ostrogothia) Husbyfjol.
Cor. Lst., Schoh.		Hall.			(N. York) Schoharie County
Fr		~ "	(N. York) Jefferson County.		TI O DE WALL
Corall. Lst		Sowerby.	(217 ZOTA) GENETSON COMMY.		(Isle Oesel) Lode, Malvern.
Niag	obtusiplicata,	Hall.			
0	1	35	D 111 171 (6 1 - '-)		Lockport.
TTC	palmata,	Morris.	Falkland Isles (S. America).		Dannarlyania
L. H. G		Hall?			Austic Sees (Amor) Garnio
	phoca, Rhynchonella.				Bay.
H. R. G., CL.,		Dillings	West Bay, Manitouline I.	(Can W) Thorold	(Can W) Flambro'
Niag.	piano-convexa,	Diffings.	(Lake Huron).	(Can. W.) Inoroid	(Can: W.) Flamoro.
OS., ČH	nlena	Hell	N.W. Michigan, (Can. E.)		
, OII	picials	Line.	L. St. Louis.		
M.Sa	plicata.		11. Di. Louis.	(N. York) Lockport.	
Ning.	plicatella?			Lora, Locaporta	(N. York) Wolcott County
6	Terebratula.	,,			,
CL., M.Sa	plicatula.	90	***************************************	(L.Huron) Manitouline I.	
	Paroneum	**		(AT AT) TO 1 1 TO 1	
	prisca,	Conrad		(-1-1) 21-y mare o graduit	(N. York, central) Herkime
Fr		Hall	New York.		County.
	prunum.	Hising.		Norway	(Gothl.) Frojel, Ostergarn.
CL	quadricostata.	Hall		(New York) Lockport.	
Pleta, L. H. G.	reticularis.	Linn.	Bohemia, Russia	Canada, (Nova Scotia)	S. & N. Gothland, I. Oese
	impressa, Sha			Arisaig,(Anticosti)S.W.	
g. 1, Llandov.				Point, Ireland.	way, Russia, (Boh.) Tetin
W., L.					Harz, (Wales) Usk &c
					(Scotl.) Ayrshire, Pentlan
					Hills, (England) Dudle
					Walsall, &c., (Irel.) Fer
					riter's Cove &c., Ura
					(Can. E.) Gaspé, N. Nev
					Brunswick, (Can.W.) Tho
					rold, Pennsylvania, Nev
					York, Nova Scotia, Canada
					Tennessee, Indiana, S. Wis
			and the state of the same of the		consin, N.W. Michigan (I
					Superior), American Arcti
				The second secon	Seas, Australia.
	var. aspera.			Britain.	
	,, orbicular	is.		Britain.	Seas, Australia. Britain.
CL	" orbicular robusta,	is. Hall.		(New York) Lockport.	Britain.
CL	" orbicular robusta,	is. Hall. Sowerby.		(New York) Lockport.	Britain. (England) Wenlock Edge
СL W	,, orbicular robusta, rotunda,	Sowerby.		(New York) Lockport.	Britain. (England) Wenlock Edge (Wales) Llanfyllin.
СL W	,, orbicular robusta, rotunda,	Sowerby. el, Münster.		(New York) Lockport. Ardaun, Galway	Britain. (England) Wenlock Edge (Wales) Llanfyllin. Lower Harz (Germany).
CL. W. U.Pentam.Lst Niag.	,, orbicular robusta, rotunda, rotundata, Gieb rugosa,	Sowerby. el, Münster. Hall.		(New York) Lockport. Ardaun, Galway	Britain. (England) Wenlock Edge (Wales) Llanfyllin. Lower Harz (Germany). (N. York) Lockport shale.
U.Pentam.Lst	,, orbicular robusta, rotunda, rotundata, Gieb rugosa,	Sowerby. el, Münster. Hall. M'Coy.		(New York) Lockport. Ardaun, Galway Mulloch, Girvan (S.W.	Britain. (England) Wenlock Edg. (Wales) Llanfyllin. Lower Harz (Germany). (N. York) Lockport shale.
CL. W. U.Pentam.Lst Niag. L.Llandov.	" orbicular robusta, rotunda, rotundata, Gieb rugosa, ? Scotica,	Sowerby. el, Münster. Hall. M'Coy.		(New York) Lockport. Ardaun, Galway Mulloch, Girvan (S.W.	Britain. (England) Wenlock Edg. (Wales) Llanfyllin. Lower Harz (Germany). (N. York) Lockport shale.
V. U.Pentam.Lst Niag. L.Llandov. Fauna F	", orbicular robusta, rotunda, rotundata, Gieb rugosa, ? Scotica, semiorbis,	Sowerby. el, Münster. Hall. M'Coy. Barr.		(New York) Lockport. Ardaun, Galway Mulloch, Girvan (S.W. Scotland).	Britain. (England) Wenlock Edg. (Wales) Llanfyllin. Lower Harz (Germany). (N. York) Lockport shale. (Bohemia) Mnienian.
CL. W. U.Pentam.Lst Niag. L.Llandov. Fauna F	", orbicular robusta, rotunda, rotundata, Gieb rugosa, ? Scotica, semiorbis, semiplicata,	Sowerby. el, Münster. Hall. M'Coy. Barr. Vanuxem.		(New York) Lockport. Ardaun, Galway Mulloch, Girvan (S.W. Scotland).	Britain. (England) Wenlock Edg (Wales) Llanfyllin. Lower Harz (Germany). (N. York) Lockport shale. (Bohemia) Mnienian. (N. York) HerkimerCounty
CL. W. U.Pentam.Lst Niag. L.Llandov. Fauna F L.Pentam.Lst	" orbicular robusta, rotunda, rotundata, Gieb rugosa, ? Scotica, semiorbis, semiplicata, socialis,	Sowerby. el, Münster. Hall. M'Coy. Barr. Vanuxem. Giebel.		(New York) Lockport. Ardaun, Galway Mulloch, Girvan (S.W. Scotland).	Britain. (England) Wenlock Edg (Wales) Llanfyllin. Lower Harz (Germany). (N. York) Lockport shale. (Bohemia) Mnienian. (N. York) HerkimerCounty
CL. W. U.Pentam.Lst Niag. L.Llandov. Fauna F L.Pentam.Lst	" orbicular robusta, rotundata, Gieb rugosa, ? Scotica, semiorbis, semiplicata, socialis, subtrigonalis	Sowerby. el, Münster. Hall. M'Coy. Barr. Vanuxem. Giebel. Hall	(N. York) Lewis County	(New York) Lockport. Ardaun, Galway Mulloch, Girvan (S.W. Scotland).	Britain. (England) Wenlock Edg (Wales) Llanfyllin. Lower Harz (Germany). (N. York) Lockport shale. (Bohemia) Mnienian. (N. York) HerkimerCount, Lower Harz (Thuringia).
CL. W. U.Pentam.Lst Niag. L.Llandov. Fauna F L.Pentam.Lst	" orbicular robusta, rotundata, Gieb rugosa, ? Scotica, semiorbis, semiplicata, socialis, subtrigonalis	Sowerby. el, Münster. Hall. M'Coy. Barr. Vanuxem. Giebel. Hall. Lindström.	(N. York) Lewis County.	(New York) Lockport. Ardaun, Galway Mulloch, Girvan (S.W. Scotland).	Britain. (England) Wenlock Edg (Wales) Llanfyllin. Lower Harz (Germany). (N. York) Lockport shale. (Bohemia) Mnienian. (N. York) HerkimerCount, Lower Harz (Thuringia). South Gothland.
CL. W. U.Pentam.Lst Niag. L.Llandov. Fauna F L.Pentam.Lst	" orbicular robusta, rotundata, Gieb rugosa, ? Scotica, semiorbis, semiplicata, socialis, subtrigonalis	Sowerby. el, Münster. Hall. M'Coy. Barr. Vanuxem. Giebel. Hall. Lindström. Conrad.	(N. York) Lewis County.	(New York) Lockport. Ardaun, Galway Mulloch, Girvan (S.W. Scotland).	Britain. (England) Wenlock Edg (Wales) Llanfyllin. Lower Harz (Germany). (N. York) Lockport shale. (Bohemia) Mnienian. (N. York) HerkimerCount, Lower Harz (Thuringia). South Gothland. (N. York) Cherry Valley.
V. Pentam.Lst Viag. L.Llandov. Fauna F L.Pentam. Lst	", orbicular robusta, rotunda, rotundata, Gieb rugosa, ? Scotica, semiorbis, semiplicata, socialis, subtrigonalis, sulcata,	Sowerby. el, Münster. Hall. M'Coy. Barr. Vanuxem. Giebel. Hall. Lindström. Conrad.	(N. York) Lewis County.	(New York) Lockport. Ardaun, Galway Mulloch, Girvan (S.W. Scotland).	Britain. (England) Wenlock Edg (Wales) Llanfyllin. Lower Harz (Germany). (N. York) Lockport shale. (Bohemia) Mnienian. (N. York) HerkimerCount, Lower Harz (Thuringia). South Gothland. (N. York) Cherry Valley.
CL. W. U.Pentam.Lst Niag. L.Llandov Fauna F L.Pentam. Lst ?	", orbicular robusta, rotundata, Gieb rugosa, ? Scotica, semiorbis, semiplicata, socialis, subtrigonalis, sulcata, tenuistriata,	Sowerby. el, Münster. Hall. M'Coy. Barr. Vanuxem. Giebel. Hall. Lindström. Conrad. Sowerby.	(N. York) Lewis County.	(New York) Lockport. Ardaun, Galway Mulloch, Girvan (S.W. Scotland).	Britain. (England) Wenlock Edg (Wales) Llanfyllin. Lower Harz (Germany). (N. York) Lockport shale. (Bohemia) Mnienian. (N. York) HerkimerCount, Lower Harz (Thuringia). South Gothland. (N. York) Cherry Valley. N. Gothland, Malvern, Fownload.
CL. W. U.Pentam.Lst Niag. L.Llandov Fauna F L.Pentam. Lst ?	", orbicular robusta, rotundata, Gieb rugosa, ? Scotica, semiorbis, semiplicata, socialis, subtrigonalis, sulcata, tenuistriata, Thetis,	Sowerby. el,Münster. Hall. M'Coy. Barr. Vanuxem. Giebel. Hall. Lindström. Conrad. Sowerby. Barr.	(N. York) Lewis County.	(New York) Lockport. Ardaun, Galway Mulloch, Girvan (S.W. Scotland).	Britain. (England) Wenlock Edg (Wales) Llanfyllin. Lower Harz (Germany). (N. York) Lockport shale. (Bohemia) Mnienian. (N. York) HerkimerCount: Lower Harz (Thuringia). South Gothland. (N. York) Cherry Valley. N. Gothland, Malvern, Fownhope, &c. Bohemia.
CL. W. U.Pentam.Lst Niag. L.Llandov Fauna F L.Pentam. Lst ?	", orbicular robusta, rotundata, Gieb rugosa, ? Scotica, semiorbis, semiplicata, socialis, subtrigonalis, sulcata, tenuistriata, tenuistriata, tumidula,	Sowerby. el, Münster. Hall. M'Coy. Barr. Vanuxem. Giebel. Hall. Lindström. Conrad. Sowerby. Barr. Hising.	(N. York) Lewis County.	(New York) Lockport. Ardaun, Galway Mulloch, Girvan (S.W. Scotland).	Britain. (England) Wenlock Edg (Wales) Llanfyllin. Lower Harz (Germany). (N. York) Lockport shale. (Bohemia) Mnienian. (N. York) HerkimerCount. Lower Harz (Thuringia). South Gothland. (N. York) Cherry Valley. N. Gothland, Malvern, Fownhope, &c. Bohemia. (Gothland) Mt. Klinteberg.
ZL. V. J.Pentam.Lst. Viag. L.Llandov. Fauna F L.Pentam. Lst. ?	", orbicular robusta, rotundata, Gieb rugosa, ? Scotica, semiorbis, semiplicata, socialis, subtrigonalis, sulcata, tenuistriata, Thetis, tumidula, sp. ind.	Sowerby. el, Münster. Hall. M'Coy. Barr. Vanuxem. Giebel. Hall. Lindström. Conrad. Sowerby. Barr. Hising. Hall.	(N. York) Lewis County.	(New York) Lockport. Ardaun, Galway Mulloch, Girvan (S.W. Scotland).	Britain. (England) Wenlock Edg (Wales) Llanfyllin. Lower Harz (Germany). (N. York) Lockport shale. (Bohemia) Mnienian. (N. York) HerkimerCount. Lower Harz (Thuringia). South Gothland. (N. York) Cherry Valley. N. Gothland, Malvern, Fownhope, &c. Bohemia. (Gothland) Mt. Klinteberg.
CL. W. U.Pentam.Lst Viag. L.Llandov. Fauna F L.Pentam. Lst ?	", orbicular robusta, rotundata, Gieb rugosa, ? Scotica, semiorbis, semiplicata, socialis, subtrigonalis, sulcata, tenuistriata, Thetis, tumidula, sp. ind.	Sowerby. el, Münster. Hall. M'Coy. Barr. Vanuxem. Giebel. Hall. Lindström. Conrad. Sowerby. Barr. Hising. Hall.	(N. York) Lewis County. New York (N. York) Middleville.	(New York) Lockport. Ardaun, Galway Mulloch, Girvan (S.W. Scotland). Bohemia (New York) Lockport	Britain. (England) Wenlock Edg (Wales) Llanfyllin. Lower Harz (Germany). (N. York) Lockport shale. (Bohemia) Mnienian. (N. York) HerkimerCount, Lower Harz (Thuringia). South Gothland. (N. York) Cherry Valley. N. Gothland, Malvern, Fownhope, &c. Bohemia. (Gothland) Mt. Klinteber, (New York) Lockport.
CL. W. U.Pentam.Lst Niag. L.Llandov. Fauna F L.Pentam. Lst ?	", orbicular robusta, rotundata, Gieb rugosa, ? Scotica, semiorbis, semiplicata, socialis, sulcata, sulcata, tenuistriata, Thetis, tumidula, sp. ind.	Sowerby. el, Münster. Hall. M'Coy. Barr. Vanuxem. Giebel. Hall. Lindström. Conrad. Sowerby. Barr. Hising. Hall.	(N. York) Lewis County. New York (N. York) Middleville.	(New York) Lockport. Ardaun, Galway Mulloch, Girvan (S.W. Scotland). Bohemia (New York) Lockport	Britain. (England) Wenlock Edg (Wales) Llanfyllin. Lower Harz (Germany). (N. York) Lockport shale. (Bohemia) Mnienian. (N. York) HerkimerCount, Lower Harz (Thuringia). South Gothland. (N. York) Cherry Valley. N. Gothland, Malvern, Fown hope, &c. Bohemia. (Gothland) Mt. Klinteberg (New York) Lockport.
CL. W. U.Pentam.Lst Niag. L.Llandov. Fauna F L.Pentam. Lst ?	", orbicular robusta, rotundata, Gieb rugosa, ? Scotica, semiorbis, semiplicata, socialis, sulcata, sulcata, tenuistriata, Thetis, tumidula, sp. ind.	Sowerby. el,Münster. Hall. M'Coy. Barr. Vanuxem. Giebel. Hall. Lindström. Conrad. Sowerby. Barr. Hising. Hall. "" ""	(N. York) Lewis County. New York (N. York) Middleville.	(New York) Lockport. Ardaun, Galway Mulloch, Girvan (S.W. Scotland). Bohemia (New York) Lockport	Britain. (England) Wenlock Edg (Wales) Llanfyllin. Lower Harz (Germany). (N. York) Lockport shale. (Bohemia) Mnienian. (N. York) HerkimerCount, Lower Harz (Thuringia). South Gothland. (N. York) Cherry Valley. N. Gothland, Malvern, Fownhope, &c. Bohemia. (Gothland) Mt. Klinteber, (New York) Lockport.
CL. W. U.Pentam.Lst Niag. L.Llandov Fauna F L.Pentam. Lst ? Faunæ E, F Cr. Niag. Cor.L., Schoharie	", orbicular robusta, rotundata, Gieb rugosa, ? Scotica, semiorbis, semiplicata, socialis, subtrigonalis, sulcata, tenuistriata, Thetis, tumidula, sp. ind.	Sowerby. el,Münster. Hall. M'Coy. Barr. Vanuxem. Giebel. Hall. Lindström. Conrad. Sowerby. Barr. Hising. Hall. " " " " " " " " " " " " " " " " " "	(N. York) Lewis County. New York (N. York) Middleville. Berrigal (New South Wales).	(New York) Lockport. Ardaun, Galway Mulloch, Girvan (S.W. Scotland). Bohemia (New York) Lockport	Britain. (England) Wenlock Edg (Wales) Llanfyllin. Lower Harz (Germany). (N. York) Lockport shale. (Bohemia) Mnienian. (N. York) HerkimerCount Lower Harz (Thuringia). South Gothland. (N. York) Cherry Valley. N. Gothland, Malvern, Fown hope, &c. Bohemia. (Gothland) Mt. Klinteber (New York) Lockport.
CL. W. U.Pentam.Lst Niag. L.Llandov Fauna F L.Pentam.Lst ? Faunæ E, F Tr. Niag. Cor.L., Schoharie	", orbicular robusta, rotundata, Gieb rugosa, ? Scotica, semiorbis, semiplicata, socialis, subtrigonalis, sulcata, tenuistriata, tenuistriata, tumidula, sp. ind.	Sowerby. el,Münster. Hall. M'Coy. Barr. Vanuxem. Giebel. Hall. Lindström. Conrad. Sowerby. Barr. Hising. Hall. " " Stuchbury. Swallow.	(N. York) Lewis County. New York (N. York) Middleville. Berrigal (New South Wales).	(New York) Lockport. Ardaun, Galway Mulloch, Girvan (S.W. Scotland). Bohemia (New York) Lockport	Britain. (England) Wenlock Edg (Wales) Llanfyllin. Lower Harz (Germany). (N. York) Lockport shale. (Bohemia) Mnienian. (N. York) HerkimerCount Lower Harz (Thuringia). South Gothland. (N. York) Cherry Valley. N. Gothland, Malvern, Fown hope, &c. Bohemia. (Gothland) Mt. Klinteber, (New York) Lockport.
CL. W. U.Pentam.Lst Niag. L.Llandov Fauna F L.Pentam. Lst ? Faunæ E, F Cor.L., Schoharie Delth. Sh. Lst ?	", orbicular robusta, rotunda, rotundata, Gieb rugosa, ? Scotica, semiorbis, semiplicata, socialis, subtrigonalis, sulcata, tenuistriata, tenuistriata, tumidula, sp. ind.	Sowerby. el,Münster. Hall. M'Coy. Barr. Vanuxem. Giebel. Hall. Lindström. Conrad. Sowerby. Barr. Hising. Hall. " " Stuchbury. Swallow. Selwyn.	(N. York) Lewis County. New York (N. York) Middleville. Berrigal (New South Wales).	(New York) Lockport. Ardaun, Galway Mulloch, Girvan (S.W. Scotland). Bohemia (New York) Lockport	Britain. (England) Wenlock Edg (Wales) Llanfyllin. Lower Harz (Germany). (N. York) Lockport shale. (Bohemia) Mnienian. (N. York) HerkimerCount. Lower Harz (Thuringia). South Gothland. (N. York) Cherry Valley. N. Gothland, Malvern, Fownhope, &c. Bohemia. (Gothland) Mt. Klinteber, (New York) Lockport. (N. York) Schoharie Count. Missouri (U. S. America).
CL. W. U.Pentam.Lst Niag. L.Llandov Fauna F L.Pentam. Lst ? Faunæ E, F Cor.L., Schoharie Delth. Sh. Lst ?	" orbicular robusta, rotundata, Gieb rugosa, ? Scotica, semiorbis, semiplicata, socialis, subtrigonalis, sulcata, tenuistriata, tenuistriata, tumidula, sp. ind.	Sowerby. el,Münster. Hall. M'Coy. Barr. Vanuxem. Giebel. Hall. Lindström. Conrad. Sowerby. Barr. Hising. Hall. " " Stuchbury. Swallow. Selwyn.	(N. York) Lewis County. New York (N. York) Middleville. Berrigal (New South Wales).	(New York) Lockport. Ardaun, Galway Mulloch, Girvan (S.W. Scotland). Bohemia (New York) Lockport	Britain. (England) Wenlock Edg (Wales) Llanfyllin. Lower Harz (Germany). (N. York) Lockport shale. (Bohemia) Mnienian. (N. York) HerkimerCount. Lower Harz (Thuringia). South Gothland. (N. York) Cherry Valley. N. Gothland, Malvern, Fownhope, &c. Bohemia. (Gothland) Mt. Klinteber, (New York) Lockport. (N. York) Schoharie Count. Missouri (U. S. America).
CL. W. U.Pentam.Lst Niag. L.Llandov. Fauna F L.Pentam. Lst ? Faunæ E, F Pr. Niag. Cor.L., Schoharie Delth. Sh. Lst ?	", orbicular robusta, rotundata, Gieb rugosa, ? Scotica, semiorbis, semiplicata, socialis, sulcata, sulcata, tenuistriata, Thetis, tumidula, sp. ind. ", (2), Aulonotreta,	Sowerby. el, Münster. Hall. M'Coy. Barr. Vanuxem. Giebel. Hall. Lindström. Conrad. Sowerby. Barr. Hising. Hall. " Stuchbury. Swallow. Selwyn. Salter. Kutorga, 1	(N. York) Lewis County. New York (N. York) Middleville. Berrigal (New South Wales).	(New York) Lockport. Ardaun, Galway Mulloch, Girvan (S.W. Scotland). Bohemia (New York) Lockport Victoria (Australia).	Britain. (England) Wenlock Edg (Wales) Llanfyllin. Lower Harz (Germany). (N. York) Lockport shale. (Bohemia) Mnienian. (N. York) HerkimerCount. Lower Harz (Thuringia). South Gothland. (N. York) Cherry Valley. N. Gothland, Malvern, Fownhope, &c. Bohemia. (Gothland) Mt. Klinteberg (New York) Lockport. (N. York) Schoharie County. Missouri (U. S. America).
CL. W. U.Pentam.Lst Niag. L.Llandov. Fauna F L.Pentam. Lst ? Faunæ E, F Pr. Niag. Cor.L., Schoharie Delth. Sh. Lst ? W.	", orbicular robusta, rotundata, Gieb rugosa, ? Scotica, semiorbis, semiplicata, socialis, sulcata, sulcata, tenuistriata, Thetis, tumidula, sp. ind. ", volita, polita,	Sowerby. el, Münster. Hall. M'Coy. Barr. Vanuxem. Giebel. Hall. Lindström. Conrad. Sowerby. Barr. Hising. Hall. " Stuchbury. Swallow. Selwyn. Salter. Kutorga, 1	(N. York) Lewis County. New York (N. York) Middleville. Berrigal (New South Wales). 859; Ungula, Pander; Ob Yambourg, Podolova, Lake	(New York) Lockport. Ardaun, Galway Mulloch, Girvan (S.W. Scotland). Bohemia (New York) Lockport Victoria (Australia).	Britain. (England) Wenlock Edg (Wales) Llanfyllin. Lower Harz (Germany). (N. York) Lockport shale. (Bohemia) Mnienian. (N. York) HerkimerCount. Lower Harz (Thuringia). South Gothland. (N. York) Cherry Valley. N. Gothland, Malvern, Fownhope, &c. Bohemia. (Gothland) Mt. Klinteberg (New York) Lockport. (N. York) Schoharie County. Missouri (U. S. America).
Niag. L.Llandov Fauna F L.Pentam. Lst ? Faunæ E, F Tr. Niag. Cor.L., Schoharie Delth. Sh. Lst ? W. P., Obolus Sandstone.	", orbicular robusta, rotundata, Gieb rugosa, ? Scotica, semiorbis, semiplicata, socialis, subtrigonalis, sulcata, tenuistriata, tenuistriata, tenuistriata, tenuistriata, polita, ",	Sowerby. el, Münster. Hall. M'Coy. Barr. Vanuxem. Giebel. Hall. Lindström. Conrad. Sowerby. Barr. Hising. Hall. " " Stuchbury. Swallow. Selwyn. Salter. Kutorga, 1 Kutorga, 1	(N. York) Lewis County. New York (N. York) Middleville. Berrigal (New South Wales). 859; Ungula, Pander; Ob Yambourg, Podolova, Lake Ladoga (Russia).	(New York) Lockport. Ardaun, Galway Mulloch, Girvan (S.W. Scotland). Bohemia (New York) Lockport Victoria (Australia). OLUS, Eichwald.	Britain. (England) Wenlock Edg (Wales) Llanfyllin. Lower Harz (Germany). (N. York) Lockport shale. (Bohemia) Mnienian. (N. York) HerkimerCount. Lower Harz (Thuringia). South Gothland. (N. York) Cherry Valley. N. Gothland, Malvern, Fownhope, &c. Bohemia. (Gothland) Mt. Klinteberg (New York) Lockport. (N. York) Schoharie County. Missouri (U. S. America).
CL. W. U.Pentam.Lst Niag. L.Llandov. Fauna F L.Pentam. Lst ? Faunæ E, F Pr. Niag. Cor.L., Schoharie Delth. Sh. Lst ? W.	", orbicular robusta, rotundata, Gieb rugosa, ? Scotica, semiorbis, semiplicata, socialis, subtrigonalis, sulcata, tenuistriata, tenuistriata, tenuistriata, tenuistriata, polita, ",	Sowerby. el, Münster. Hall. M'Coy. Barr. Vanuxem. Giebel. Hall. Lindström. Conrad. Sowerby. Barr. Hising. Hall. " " Stuchbury. Swallow. Selwyn. Salter. Kutorga, 1 Kutorga, 1	(N. York) Lewis County. New York (N. York) Middleville. Berrigal (New South Wales).	(New York) Lockport. Ardaun, Galway Mulloch, Girvan (S.W. Scotland). Bohemia (New York) Lockport Victoria (Australia). OLUS, Eichwald.	Britain. (England) Wenlock Edg (Wales) Llanfyllin. Lower Harz (Germany). (N. York) Lockport shale. (Bohemia) Mnienian. (N. York) HerkimerCount. Lower Harz (Thuringia). South Gothland. (N. York) Cherry Valley. N. Gothland, Malvern, Fownhope, &c. Bohemia. (Gothland) Mt. Klinteberg (New York) Lockport. (N. York) Schoharie County. Missouri (U. S. America).

Subdivision.	Genus, Species, and Author.	Lower Stage.	Middle Stage.	Upper Stage.
L. H. G	Camarium, Hall, 1859.	(Species separated, in 1858	, from Merista, Hall, J.	W.S.)
,,				Cumberland Co.(Maryland)
,,	Camerella, Billings, 186	5. (Variously referred to A	TRYPA and RHYNCHONELLA	JWS) "
P., Potsd	antiquata, Billings	(N.W. Vermont) Swanton.	· · · · · · · · · · · · · · · · · · ·	,
P., Queb. G		Stanbridge (Can. E.).	San and the san an	
	calcifera, ,,	(Newfoundl. W.) Cowhead,	Market Market Control	
Queb. G.		Point Lévis, Beauharnois,		
		Phillipsburg (Can. E.).		and the second
Div. P, Queb. G.	costata, ",	Stanbridge (Can. E.), New- foundland.		
H. R. G	extans, ?	St. Antoine (Can. E.).		listen to the second
Tr		(Can. E.) Montreal, N.York, Newfoundland?.		
Div. 1, Llandov.	lenticularie		(Antiqueti) Roof Point	
CH	langinactus	Newfoundl.?, Mingan Isles.	(Anticosti) Reel Polite.	
Tr	nualena	Canada, (N. York) Jefferson		
	Atrypa. ",	County.		
Div.4, A.G., May-	Ops, ,,		(Anticosti L.) The Jumpers.	
hill.	op.,		South-west Point.	
B., BL	Panderi, ,,	(Can. E.) Montreal, Murray		
	,,	Bay.		
P., Div. N, Queb.	parva, ,,	(Newfoundl. W.) Tablehead,		
G.		Portland Creek.		
P., Queb. G	polita, ,,	Isle of Orleans, Stanbridge		
		(Can. E.).	A CONTRACTOR OF THE CONTRACTOR	Harris Harris Land
Carad	productoides, M'Coy.	(Irel.) Tramore, Waterford.		
?			Anticosti Isle.	
	Brachymerus, Shaler.			
Div. N, P, CH.	varians, Billings.	(Newfoundland W.) Table-		
		head, New York, Mingan		
		Isles (Gulf St. Lawr.).		
B., BL	Volborthi, ",	(Canada E.) Montreal.		
P., Potsd	sp. ind. B. F. Shumard	Burnet County (Texas).		
Fauna F. f. 2	Chonetes, Fischer, 1837.			(Dalamia) Vaniana
	Poulongoni Pougult	(France) Gahard.		(Bonemia) Konieprus.
	Boulangeri, Rouault. cingulata, Lindström.	(France) Ganaru.		Middle Gothland
L. H. G				
CL			(N Vork)Sodus WayneCo	New Tork.
	Strophomena.		(11.2012)codic, 11 cy nec c.	
Tr., H. R. G. ?		(Can.W.) Toronto, (N.York)		
and the second		Jacksonsburg.		
Fauna F	embryo, Barr			(Bohemia) Mnienian.
Fauna G. g. 1	Hostinensis, "			
		The second secon		Chotecz.
Llandov., W.,	lata, Von Buch		Norway	
U.L.				Scotland, (Irel.) Ferriter's
				Cove, (Wales) Llangadoc
				(Engl.) Benson Knot, Lud
	lepisma, Dalman			low, &c. Sweden.
W., L.L	levigata Samah	•••••	(Wales) Walshmad D.	
11 ., Lalla	levigata, Sowerby	***************************************	vil's Bridge.	Ludlow, Malvern.
Faunæ E, F, W.	minima Sowerby		Bohemia? Beraun	(Bohemia) Prague (Wales
20, 21, 11.	Concrety		The state of the s	Llantsilio, (Engl.)Dudley
Pleta &c	nana?, Verneuil	(Russia) Popova &c.		, (angli) and (
	striatella, Dalm.	, aspertation		The Party of the P
L. H. G	Nova-Scotica, Hall			Arisaig (Nova Scotia).
Fauna G. g. 2, 3				
				bocep, Kozorz, Vavrovitz
	THE RESERVED FOR THE PARTY OF T	Control of the second second		Pekarkovitz.
				Lower Harz (Germany).
	squamatula, Barr			Russia, Bohemia.
Pleta, Llandov.,	striatella, Dalm	(Russia) Popova, Poulkova,		
L.		(Spain) Almaden.	hoff (Livonia).	Gothland, (Podolia) Ory
		SECTION SECTIO		nine, (Russia) Ural.
D D				Middle Gothland.
Faunæ E, F, G.	tarda, Barr			(Bohemia) Hlubocep, Ko
g. 1, 2, 3.	tamulatulata XX 11		Nistana (Nama Castia)	zorz, Vavrovitz, Chotecz.
CL., L. H. G	tenuistriata, Hall		Niciaux (Nova Scotia)	
Fauna F	Vermouilli P			Scotia). (Bohomia) Mnienian
rauna r	en ind Mossis & Share	Falkland Isles (S. America).		(Bohemia) Mnienian.
?	Calmon	. Faikland Isles (S. America).	Victoria (Australia)	
,	Clark 1			Lower Harz (Germany).
	,, Glebel		***************************************	Lower Lines (Germany).

Subdivision.	Genus, Species, and Author.	Lower Stage.	Middle Stage.	Upper Stage.
	Crania, Retzius, 1781; C Acadiensis, n. s. Hal	RBICULA, PSEUDOCRANIA, M	Coy, 1851; Paleocrania.	Arisaig (Nova Scotia)
	antiquissima, Verneui	Poulkova &c. (Russia), (Esthonia) Wesenberg &c.		inisaig (nota biolia).
Carad	catenulata, Salter craniolaris? M'Coy	Ireland.		(Wales) Builth Bridge.
Pleta	Spondylobolus.	. Réval, Odinsholm I. (Balt.).		
Llan., Carad		(Wales) Bala, Corwen, &c., (Irel.) Chair of Kildare.		
W. Carad., U.Llan-	implicata, Sowerby		(Wales) Mandinam	Russia?, (Wales) Presteign
dov., W., L., U.L.				(Engl.) Walsall, Ledbury (Scotl.) Deer Hope, Pent
Pleta		. Silesia (drift). . Esthonia, D'Erras, Réval,		land.
w	? Sedgwickii, Davidson (Silesia (drift), Russia. ot a brachiopod, T. Davidso	n)	(Engl.) Walsall, (Gothland)
,	Siluriana, Hall.			Wisby. Falfield (England?).
(Subg. Spirifer).	Cyrtia, Dalman, 1821.			
Delth. Sh. Lst	Dalmani, Hall			(N. New Brunswick) Resti- gouche, (New York, east
	exporrecta, Dalm			Helderberg Mountains. Wales (Llandeilo), Malvern
Div. 4, A. Gr.,	myrtea, Billings	k	(Anticosti) S.W. Point.	Adderley, Gothland.
Mayhill, W., L., fauna E.	trapezoidalis, Dalm		England, Norway	England, Djupviken (Goth
w	Discina, Lamarck, 181	ORBICULA, Cuvier; ORBI	CULOIDEA, D' Orbigny, 184	land), Bohemia.
No. of Street,	Bischofi, Römer			Lower Harz (Germany).
Faunæ F, G. g. 1 P., Obolus Sand- stone.	Bohemica, Barr Buchii, Verneuil	Podolova, River Ischora, St. Petersburg (Russia), Es-		(Bohem.) Konieprus, Hostin
Tr., H. R. G	cælata, Hall	thonia. (Can.E.)Montreal, (N.York) Troy, (Ohio) Cincinnati.		
Tr	Circe, Billings	(Can. W.) Belleville, (Can. E.) Lake St. John.		
Delth. Sh. Lst Carad., H. R. G.		(N. York) Troy, (Wales)		(Eastern N. York) Becraft's Mountain.
СН		Builth, Pinnhapple, Glen Ayr (S.W. Scotland). New York.		
Faunæ E, F, G. g. 1.				(Bohem.) Lochkov, Hostin Kolednik, Listice, &c.
Delth. Sh. Lst Pleta		. (Russia) Popova, Poulkova.		(Eastern N. York) Becraft's Mountain.
Carad Ut. Slate	elongata, Portlock	. Irel., Shropsh. (Horderley). Lake St. John (Canada E.).		Mountain.
W		Lake St. John (Canada 17.).	Shropshire?	(Engl.) Walsall, Malvern Dudley, Dormingt. Wood
Carad		Horderley (Shropshire).		Mid-Gothland, Thuringia,
P., Potsd. Sa	inutilis, Hall	North Wisconsin.		
P., Low.Ling.Fl. Ut. Slate, Tr		(Can. E.) Lake St. John &c.,		
Carad	lingulæformis, ? microscopica, B. F. Shum	(N. York) Middleville. Chair of Kildare (Ireland). (Texas) Burnet County		
W., L	Morrisii, Davidson	(Ireland) Pomeroy, Tyrone,		Wales, (Engl.) Dudley, Leint- wardine, &c.
	man laminata	(Wales) Horderley. Desertcreate, Tyrone.		racumo, do
	,, subrotunda, ,,	" Llanfyllin (Montgomeryshire).		
Fauna D Delth. Sh. Lst	obsoleta, Barr	(Bohemia) Beraun.		New York.
Tr Carad., Llandov.	Pelopæa, Billings	. (Canada E.) Montreal. . (Irel.) Tyrone, Desertcreate,		AUT AUTE.
Caraci, Lianuty.	portuguia, Di Coy	Kildare, &c., (S.W. Scotl.) Girvan.		
P., Low.Ling. Fl.	pileolus, Salter	(South Wales) St. David's.		

Subdivision.	Genus, Spec		Lower Stage.	Middle Stage.	Upper Stage.
	pilidium,	Lindström			(South Gothland) Hohung
P., Potsd. Sa		D. Owen.	(Minnesota)Fallsof St.Croix.		(count Gotmand) Hobing.
P	A CONTRACTOR OF THE PARTY OF TH	Verneuil	(Spain, Leon) Sabero.		
Carad		Sowerby	Chatwell, Shropshire.		
Pleta		Bower by.	Ireland, (Russia) St. Peters-		(Bohamia) Vanianuus
r icta	reversa,	"	burg, Esthonia, L. Harz.	***************************************	(Bonemia) Konieprus.
Llandov., U.L	rugata,	,,	ourg, Estionia, L. Harz.	Mayhill (England)	Deer Hope Burn, Pentland Hills (Scotland), (Kendal Benson Knot, Shropshire
				man problems	Usk (Montgomeryshire) Ireland, Lower Harz.
L	10	Hall.			Arisaig (Nova Scotia).
			Horderley, Marshbrook (Shropshire).		200
	sinuata, D. de	Leuchtenb.	(Russia) Popova, Poulkova.		
Fauna G. g. 1	sola,	Barr.			(Bohemia) Tetin, Chotecz.
" D &c	squamosa,		(Bohemia) Beraun.		
W., U.L	striata, Sower	rby, Ketley.			(Engl.) Dudley, Hagley Park
					Delbury, Westmoreland Benson Knot.
Carad	subrotunda,	Portlock.	Tyrone &c. (Irel.), Mont-		A PAGE OF THE PAGE
H. R. G			gomeryshire, Llanfyllin. (New York) Loraine &c.		
Fauna G.g. 1, 2, 3		Barr	(110 Tota) Dolume de.		(Bohem.) Trzebotov, Hlubo
1 44414 0 18 1,2,0					cep, Kozorz, Chotecz, Va
Niag., L. H. G	tenuilamellata,	Hall.			(N. York) Lockport, (Nov.
	var. subplana				Scotia) Arisaig.
	The state of the s	, Dann		(Pohomia) Pomous 9	(Nova Scotta) Arisaig.
	truncata,				Pohomie
	ungula,		Dánal /Daltia		Bonemia.
Orthoc. Lst		Lichw.	Réval (Baltic).		(Control N Vonle) Montin
Waterlime Gr	vanuxemi,	Hail.	***************************************		
w	V:11:	Domidana			Square.
	sp. ind.		Esthonia.		(Lingiana) Ledoury.
		Shumard.			
L.Llandov	11	Salter	1 exas.	(Wales) Quakone' Burring	
L'.Liandov	"	Saiter.		Ground, Welchpool,	
P		Stuchburg	Berrigal, New South Wales.	Ground, Welchpool,	
I	,,		Hof (Bavaria).		
	,,		North Wisconsin.		
?	"	Selwyn		Victoria (Australia)	ALC: NO.
L.Llandov		Salter	Shropsh.W. of Stiper Stones.	Victoria (Zeustraria).	The state of the s
La Landingov.	Eatonia, Hall		on open with or outper brones.		
L. H. G., Delth.		Hall			Tennessee (U.S.A.).
Sh. Lst.	Cilitions,	ALGILI			Tellifesee (C.o.z.).
	medialis,				(N. York, eastern) Helder
" "		.,,			berg Mountains.
,, ,,	peculiaris,	Conrad.			(Can. E.) Cape Gaspé, (N
					York) Hudson, Maryland
					&c.
	-tt-	TT. 11			
29	singularis,	Hall			berg Mountains, Wayn
19 19					
	Eichwaldia,	, Billings, 1	858.		berg Mountains, Wayn
" " H. R. G		, Billings, 1	858. West-end Lighthouse, Anti-		berg Mountains, Wayn
	Eichwaldia, Anticostiensis,	, Billings, 1	858. West-end Lighthouse, Anti- costi Isle (Gulf St. Lawr.). (Can. E.) Montreal, River		berg Mountains, Wayn
H. R. G	Eichwaldia, Anticostiensis, subtrigonalis,	, Billings, 1 Billings.	858. West-end Lighthouse, Anti- costi Isle (Gulf St. Lawr.). (Can. E.) Montreal, River Ottawa.		berg Mountains, Wayn County, Tennessee W.
H. R. G	Eichwaldia, Anticostiensis, subtrigonalis, Leptæna, Da	, Billings, 1 Billings.	858. West-end Lighthouse, Anti- costi Isle (Gulf St. Lawr.). (Can. E.) Montreal, River Ottawa. (Much confused with STE	орномема by authors, J.	berg Mountains, Wayn County, Tennessee W.
H. R. G B., BL., Tr	Eichwaldia, Anticostiensis, subtrigonalis, Leptæna, Da acutistriata,	, Billings, 1 Billings, 1 ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	858. West-end Lighthouse, Anti- costi Isle (Gulf St. Lawr.). (Can. E.) Montreal, River Ottawa. (Much confused with Str	OPHOMENA by authors, J.	berg Mountains, Wayn County, Tennessee W.
H. R. G	Eichwaldia, Anticostiensis, subtrigonalis, Leptæna, Da acutistriata,	, Billings, 1 Billings, 1 ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	858. West-end Lighthouse, Anticosti Isle (Gulf St. Lawr.). (Can. E.) Montreal, River Ottawa. (Much confused with Str. Ohio, Canada W., (N.York) OswegoCo., Pennsylvania	орномема by authors, J. Talkhof (Livonia), Penn- sylvania?	berg Mountains, Wayn County, Tennessee W.
H. R. G	Eichwaldia, Anticostiensis, subtrigonalis, Leptæna, Da acutistriata,	, Billings, 1 Billings, 1 ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	858. West-end Lighthouse, Anti- costi Isle (Gulf St. Lawr.). (Can. E.) Montreal, River Ottawa. (Much confused with Sra Ohio, Canada W., (N.York) OswegoCo., Pennsylvania Missouri, N.W. Michigan N. Wisconsin, (Rupert's	Talkhof (Livonia), Penn-sylvania?	berg Mountains, Wayn County, Tennessee W. W.S.) Lower Harz (Germany).
H. R. G	Eichwaldia, Anticostiensis, subtrigonalis, Leptæna, Da acutistriata,	, Billings, 1 Billings, 1 ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	858. West-end Lighthouse, Anticosti Isle (Gulf St. Lawr.). (Can. E.) Montreal, River Ottawa. (Much confused with Str. Ohio, Canada W., (N.York) OswegoCo., Pennsylvania Missouri, N.W. Michigan N. Wisconsin, (Rupert's Land) Red River, (Russ. Petschora, Gatchina, (Es.	орномена by authors, J. Talkhof (Livonia), Penn- sylvania?	berg Mountains, Wayn County, Tennessee W.
H. R. G	Eichwaldia, Anticostiensis, subtrigonalis, Leptæna, Da acutistriata,	, Billings, 1 Billings, 1 ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	858. West-end Lighthouse, Anti- costi Isle (Gulf St. Lawr.). (Can. E.) Montreal, River Ottawa. (Much confused with Sre Ohio, Canada W., (N.York) OswegoCo., Pennsylvania Missouri, N.W. Michigan N. Wisconsin, (Rupert's Land) Red River, (Russ.) Petschora, Gatchina, (Esthonia) Paggart, (S.W. Scotl.)Girvan, Balmae, &c.	орномена by authors, J. Talkhof (Livonia), Penn- sylvania?	berg Mountains, Wayn County, Tennessee W.
H. R. G B., BL., Tr Tr., Ut. Slate, H. R. G., CL.	Eichwaldia, Anticostiensis, subtrigonalis, Leptæna, Da acutistriata, alternata,	, Billings, 1 Billings. "," alman, 1827. Giebel. Conrad.	858. West-end Lighthouse, Anti- costi Isle (Gulf St. Lawr.). (Can. E.) Montreal, River Ottawa. (Much confused with Str. Ohio, Canada W., (N.York) OswegoCo., Pennsylvania Missouri, N.W. Michigan N. Wisconsin, (Rupert's Land) Red River, (Russ.) Petschora, Gatchina, (Esthonia) Paggart, (S.W. Scotl.)Girvan, Balmae,&c. Shropshire.	орномена by authors, J. Talkhof (Livonia), Penn- sylvania?	berg Mountains, Wayn County, Tennessee W. W.S.) Lower Harz (Germany).
H. R. G	Eichwaldia, Anticostiensis, subtrigonalis, Leptæna, Da acutistriata, alternata,	, Billings, 1 Billings. "," alman, 1827. Giebel. Conrad.	858. West-end Lighthouse, Anticosti Isle (Gulf St. Lawr.). (Can. E.) Montreal, River Ottawa. (Much confused with Str. Ohio, Canada W., (N.York). OswegoCo., Pennsylvania Missouri, N.W. Michigan N. Wisconsin, (Rupert's Land) Red River, (Russ.) Petschora, Gatchina, (Esthonia) Paggart, (S.W. Scotl.)Girvan, Balmae, &c. Shropshire. Wales, (Bohemia) Beraun.	OPHOMENA by authors, J. Talkhof (Livonia), Penn- sylvania?	berg Mountains, Wayn County, Tennessee W. W.S.) Lower Harz (Germany).
H. R. G	Eichwaldia, Anticostiensis, subtrigonalis, Leptæna, Da acutistriata, alternata,	Billings, 1 Billings, 1 Billings, 1 alman, 1827. Giebel. Conrad.	858. West-end Lighthouse, Anticosti Isle (Gulf St. Lawr.). (Can. E.) Montreal, River Ottawa. (Much confused with Str. Ohio, Canada W., (N.York). OswegoCo., Pennsylvania Missouri, N.W. Michigan N. Wisconsin, (Rupert's Land) Red River, (Russ.) Petschora, Gatchina, (Esthonia) Paggart, (S.W. Scotl.)Girvan, Balmae, &c. Shropshire. Wales, (Bohemia) Beraun.	OPHOMENA by authors, J. Talkhof (Livonia), Penn- sylvania?	berg Mountains, Wayn County, Tennessee W. W.S.) Lower Harz (Germany).
H. R. G B., BL., Tr Tr., Ut. Slate, H. R. G., CL.	Eichwaldia, Anticostiensis, subtrigonalis, Leptæna, Da acutistriata, alternata, aquila, armata, Beirensis,	Billings, 1 Billings, 1 Billings. " alman, 1827. Giebel. Conrad.	858. West-end Lighthouse, Anticosti Isle (Gulf St. Lawr.). (Can. E.) Montreal, River Ottawa. (Much confused with Str. Ohio, Canada W., (N.York). OswegoCo., Pennsylvania Missouri, N.W. Michigan N. Wisconsin, (Rupert's Land) Red River, (Russ. Petschora, Gatchina, (Esthonia) Paggart, (S.W Scotl.)Girvan, Balmae,&c. Shropshire. Wales, (Bohemia) Beraun. (Portugal) Bussaco.	орномена by authors, J. Talkhof (Livonia), Penn- sylvania?	berg Mountains, Wayn County, Tennessee W. W.S.) Lower Harz (Germany).
H. R. G B., BL., Tr Tr., Ut. Slate, H. R. G., CL.	Eichwaldia, Anticostiensis, subtrigonalis, Leptæna, Da acutistriata, alternata, aquila, armata, Beirensis,	Billings, 1 Billings, 1 Billings, 1 nulman, 1827. Giebel. Conrad. Barr. Sharpe Hall.	858. West-end Lighthouse, Anticosti Isle (Gulf St. Lawr.). (Can. E.) Montreal, River Ottawa. (Much confused with Str. Ohio, Canada W., (N.York). OswegoCo., Pennsylvania Missouri, N.W. Michigan N. Wisconsin, (Rupert's Land) Red River, (Russ.) Petschora, Gatchina, (Esthonia) Paggart, (S.W. Scotl.)Girvan, Balmae, &c. Shropshire. Wales, (Bohemia) Beraun.	орномена by authors, J. Talkhof (Livonia), Penn- sylvania?	berg Mountains, Wayn County, Tennessee W. W.S.) Lower Harz (Germany). Bohemia (Konieprus). (New York) Schoharie.

Subdivision.		pecies, and hor.	Lower Stage.	Middle Stage.	Upper Stage.
Faunæ E, F	var. Bohem	ica Barr.			(Bohemia) St. Ivan. Konis
2 0 00100 25, 2 11111	Turi Dones				prus, Mnienian.
	borealis,	,,			Thuringia.
,, F	Boueii,				Bohemia, (France) Derbray
Llan., Carad	calcarata,	M'Coy.	Slieve Roe, Wicklow, Ennis-		The latest the same of the sam
		-	corthy, Wexford.		
Tr		Hall.	(New York) Trenton Falls.		
	clausa,	Verneuil.			(France) Ebray. (Devonia
					in Spain.)
Faunæ E, F, G.	comitans,	Barr.			(Bohem.) Trzebotov, Hlubo
g. 1, 2, 3, H.		TT -11			cep, Vavrovitz, Hostin, &c
Delth. Sh. Lst		Hall.			(N. York, east) Albany Co.
Faunæ F, G		Darr.	Poulkova (Russ.), Sardinia.		(Boh.) Konieprus, Mnieniar
Pleta Fauna F		Hall	rouikova (Russ.), Sardinia.		(Bohemia) Mnienian.
CL		Hall.		New York	(Donemia) Binteman.
,,		Goldfuss		(N Vork) Rochester So-	
"	corrugati,	Coluluss		dus, Wolcott.	
U.Bala	20	Portlock.	Golden Grove, Llandeilo	due, ir oldetti	
C.Dana	"	z or moon.	(Wales).	edition of the same	
Fauna E	costulata.	Barr.	(Wales).	Bohemia.	
		Salter.	Niti Pass, Himalaya (E. I.).		
CL	crenistria.	Hall?		New York.	
Fauna E. e. 1	cuspidata,	Barr.		(Bohemia) Beraun.	
Div. P			Point Lévis (Can. E.), (New-		
			foundl.W.)PortlandCreek.		
	detrita,	Salter.	Niti Pass, Himalaya (E. I.).		
L.Pent. Lst;	elongata,	Vanuxem.			New York.
	enigma,				(Sweden) Osmundberg, Dale
CH	fasciata,	Hall.	(N.York) Clinton & Saratoga		carlia.
		-	Counties, N.W. Michigan.		
	Fischeri,	Davidson.			(Sweden) Grotlingbo.
Carad., Llandov.,	Fletcheri,	"	?	?	
W.		-			Dudley.
Fauna D. d. 5		Barr.	Königshof, Mt. Kosow.	The second secon	
,, F	lugax,	m. ?	B B W (B ::)		(Boh.) Mnienian, Konieprus
Pleta		Eichw.	Popova, Poulkova (Russia).	T1 - 1 (W. 1.)	D. II. T. II. (F. 1. 1)
U.Llandov., W.,	Grayı,	Davidson.	***************************************	Llangadoc (Wales)	Dudley, Ludlow (England)
L.L. Fauna E	Hansai	Dawn		Dahamia	
CH.	Humboldti	Vernouil	Esthonia, (Russ.) St. Peters-	Donemia.	
OII	Humoorder,	verneum.	burg, Mingan Isles (Gulf		
			St. Lawrence).		
	ignava,	Sharpe.	Portugal, Bussaco.		
	imbrex.	Davidson.	River Volkof (Russ.), Réval		Gothland, England.
	The state of the s		(Baltic).		and and and
L.Pent. Lst	impressa,	Hall.			New York (U.S.A.).
Fauna F		Barr.			
CH		",	(N. York) Clinton Co., Ten-	15 (0)15	
	and the same of th		nessee, Pennsylvania.	and the second second second second	
U.Llandov., W.	lævigata,	Sowerby.		Devil's Bridge (N.Wales).	(Wales)Gwyddelwern, (Eng
	Chonetes.			Buildwas, &c.	land) Ledbury, Ludlow.
B., BL	lævis,		***************************************		N. York (northern).
W	lævissima,	M'Coy.			
OTT					(Kerry County).
CH			New York.		(9-1-10-11-1
	Loveni,	Verneuil.			(Sweden) Gothland.
	margaritacea,				Mid Gothland.
	membranacea,	Hall?			New York.
L. H. G	mesacosta,	Snumard.			
w	minima	Samanha			(Wales) Gwyddolman, Pin
VV	minima,	Sowerby.		•••••	(Wales) Gwyddelwern, Riv
Fauna E	miranda	Power		(Robemia) St Team	Dee, &c.
L. H. G		Shumard	··········	(Dollemia) St. Ivan.	Cape Girardeau (Missouri).
	Murchisoni,	Vermouil		***************************************	Nantes (France). (Devonia)
Pleta		Figher.	Poulkova, Tosna, &c.,(Russ).		in Spain.)
			N. York, Poulkova (Russ.).		opani.)
,,	alternata.	Limitons.	1. Tora, Touraora (Russ.).		
Fauna F		Barr			(Bohem.) St. Ivan, Beraun
		Dutt.			Lower Harz (Thuringia).
,,	neutra,	,,			(Bohemia) Mnienian.
			Königshof, Mt. Kosow.		(- January and January)
D. d. 5					
" D. d. 5	nux.	Salter	Niti Pass, Himalava (E. I.)		
	nux,		Niti Pass, Himalaya (E. I.). Poulkova, L. Ladoga (Russ.),		

Subdivision.	Genus, Spec Autho		Lower Stage.	Middle Stage.	Upper Stage.
CL		Hall.		(N.York)OneidaCy, Utica.	
Pleta	Orbignyi, ornata,	Eichw.	Poulkova &c. (Russ.), Lower Silesia (drift).		Wales, (England) Dudley.
L.L	orthididæa,	Hall.		(N. York) Oneida County.	(P
					(Russia) Oural, River Ser brianka, &c., Bohemi Presteign (Wales).
CL				36.37. 37.11	
F	Phillipsii,	**		(Bonemia) Beraun, &c.	(Bohem.)Mnienian,(Franc
Carad	Leptagonia.		(Ireland) Kildare &c.		Derbray.
Carad	Polleti,	Rouault.	(New York) Chazy Village. (France) Vitré.		
CL	productoidea, profunda,	Meneghini. Hall.	Sardinia.	(N.York)Lockport, (Can.)	
Fauna D	pseudoloricata.		(Bohem.) Beraun, Praskoles.	Anticosti Isle.	
Pleta		Eichw.	Réval &c. (Baltic).		ale diameter
	Strophomena rhe	omboidalis.			
Llan., Carad., U. Llandov.?, W.	quinquecostata,	M'Coy.	(Esthon.) Paschlep, Ireland, (S.W. Scotland) Ayrshire, (Yorksh.) Dent, (Wales)		Llangynyw (Montgomery shire).
	recta.	Hall.	Cefn Rhyddan, Garn, &c. Mineral Point (Wisconsin).		
	rectilateralis,	Vanuxem.	Niti Pass, Himalaya (E. I.).		New York.
	repanda, robusta,	Römer.			Thuringia.
	rugosa,		Russia		Tennessee W.
Carad., U.L	sarcinulata,		Itusoia		carlie) Osmandhana ka
Carad., U.Llan-					mermuir (S. Scotland).
dov.	ocioni, ba	ner (als.).	Desertcreate, Tyrone, Me- rionethshire, Bala Lake, &c. (Wales).	Builth,&c., (Engl.) Nor- bury.	The state of the s
Fr., Ut. Sl., H.	segmentum, sericea.	Angel. Sowerby.	Esthonia, (Russ.) Poulkova	Cong Galway (Wales)	Mid Gothland.
R. G., Carad., Llandov., W.,			&c., Norw., Swed., Thrace, Saalfield, (Spain) Almaden,	Haverfordwest, Mathy- rafal, Canada, (Bohem.)	Kerry (Ireland).
U.L., Pleta, &c.			(Engl.) Acton Scott, Ire- land, Scotland, (Wales) Builth, Moel Uchlas, &c.,	1.).	
			Isle Anticosti, L. St. John, Montreal (Can. E.), To-		
			ronto (Can.W.), C. Smyth, L. Huron, Pennsylvania,		
			Ohio, Tennessee, Missouri, (Illinois) Dunleith, S.Wis-		
	var. a, rhombie	ca, M'Coy.	consin, N.W. Michigan. (Wales) Meiford &c., Horton		
Carad			(Yorkshire). Bala &c. (Wales).	AND SOME OF THE PARTY OF THE PA	
Queb. G	solitaria, sordida,	Billings.	Point Lévis (Canada E.).	and the second s	(Bohemia) Konieprus.
Fauna F	Stephani,	Barr.			(Boh.) Konieprus, Mnienis
Niag. Car., L.Llandov.	striata, ? sublævis,	M'Coy.	Chair of Kildare (Ireland).	Galway.	(N. York) no place given.
Fr., Niag	subplana,	Römer.	Tennessee?, Can. ?, Anticos. ?.		(New York) Wolcott, &c.
Fauna F Llan., Carad	tenuicineta,	M'Coy.	(Irel.) Chair of Kildare, (W.) Llanfyllin, Montgomerysh.,	Norway	Norway, (Bonem.) Mmenu
Llan., Car., Pleta, Inflam. Schist.	tenuissime-striata	n, M'Coy.	Cerrig-y-Druidion, &c. (Wales) Llanrwst, Llan- deilo, Bala, Shropsh., Con-		
Γ.,	tennistriate	Hall	iston (Lancash.), France, D'Erras (Esthonia).		and the same of the same
Гг	tenuistriata,	Hail.	Indiana, (Ohio) Cincinnati, (Kentucky) Maysville, (N. York) Jefferson Co. &c.,		
			N.W. Michigan, (S.W. Scotl.) Peeblessh., (Wales)		

Subdivision.	Genus, Species, and Author.	Lower Stage.	Middle Stage.	Upper Stage.
Carad		Narbeth (Pembroke), Mar- loes Bay &c. (Wales). (Russ.) St. Petersburg, Bal-		in the second
Carad. U.Llan-	transversalis, Dalm. Plectambonites arca, Shaler	tishport, &c. (Wales) Bala, Glyn Ceiriog, . (Lancashire) Coniston.	(Anticosti) S.W.Point, Bo- hemia, Norway, Ural, Ireland, England, (An- ticosti) East Point &c.	&c., Bohemia, Thuringi (Ireland) Ferriter's Cov (Wales) Plas Madoc &c (Engl.) Dudley, Malver, &c., PentlandHills(Scotl.
	var. undulata, ",	(Wales) Alt-y-Anker, Mei-	(W.) Mathyrafal, Builth	Thorold, (Can. W.) Ant costi, (NewYork) Wolcot &c.
	Sowerbyana, Barr.	fod, &c. Turkey River, Iowa (U.S.A.).		England. Bohemia.
	trimera, Meneghini.	Sardinia. (Wales) Denbighshire, Llan- saintffraid, Llangollen, &c.	7 STUDIES	
	Verneuilli, Barr. Vicaryi, Salter.	(France) May, Caen, Bud- leigh Salterton.		
W Corall.L., Schoh. Tr	sp. ind., Hall.	Lower Missouri River.		Wenlock, Falfield (Engl.). (N.York) Schoharie Count
P., Quebec Gr	", "Logan.	Point Lévis (Canada E.).		
Tr	", Swallow.	Fort Garry (Rupert's Land). Lake Winnipeg ,,		Missouri (U. S. America).
,, ,,	" Stuchbury.	Berrigal (New SouthWales).	Victoria (Australia).	
Delth. Sh. Lst	concava, Hall.		The second secon	Cos. (Can. E.) C. Gasn
L. H. G CL	flabellites, Hall? hemisphærica, Murchison Atrypa flabella, Shaler.		Arisaig, Nova Scotia, &c.	(Canada E.) Cape Gaspé.
L. H. G	imbricata, Hall intermedia, ,, lepida, Goldfuss plano-convexa, Hall		Arisaig (Nova Scotia), Germany ?. New York	(N. York, E.) Schoharie C
U.L	sublepida, Murchison sp. ind. Billings	Russia.		(North New Brunswick)Re tigouche County.
P.,Div.D, Potsd., CS.		9 (includes many genera, J. (Newfoundl.) Hawkes Bay, (Can.)Bastard,Lansdowne,		
P	acuti-rostra, ,, æqualis, ,,	&c., Upper Missouri. New York, Texas (Römer). N.W.Michigan (L.Superior).	New York.	
P., Potsd	anatinæformis, Pusch	R. St. Croix and Trempeleau (Minnesota), Wisconsin.		(Poland) Lagoff near Kiele
H. R. G P., Potsd. Sa	ancyloides, Salter	(Missouri) Louisiana Bluffs. Niti, Himalaya (E. I.). Nebraska (U.S.A.), Upper Missouri River, (Can.W.) Bastard, Lansdowne, N.W.		
Fauna D. d. 4. E Llan.	attenuata, Sow., Barr	Michigan, (N.Y.) Jefferson. (Bohem.) Beraun, (N.Wales) Bala, Golden Gr., Shrop- shire, Chirbury.	(Bohem.) Beraun, Cong.	
	Auroro Hall	(Wisconsin) Mazomania.		
P., U.Potsd U. Potsd U.Llandov	,, var. ,,	Marloes Bay (Wales).	Control of the second	

Subdivision.	Genus, S _I	pecies, and nor.	Lower Stage.	Middle Stage.	Upper Stage.
Carad	. Brimonti,	Rouault.	(Normandy) May, Guichen, Bain, Budleigh Salterton (pebbles).		
Tr	. Briseis,	Billings.	(Can. E.) River Bayonne, Portneuf.		The state of the s
H. R. G	. Canadensis,	,,	Isle Anticosti, Black Point (G. St. Lawr.).		
Delth. Sh. Lst	centrilineata,	Hall.			(N. York, eastern) Albany County.
Tr	. Cobourgensis,		(Can.E.) Bay St. Paul, (Can. W.) Cobourg, (L. Huron) Collingwood.		
Faunæ G. g. 3, H. h. 1, U.L.	cornea,	Sowerby.			Doonquin (Kerry Co.), Es thonia, (Bohem.) Hostin Trzebotov, (Engl.) Lud low, Malvern, Downton Kington, Benson Knot Wales, Lesmahago (S.W
Tr U.Llandov		Hall. Phillips.	(New York) Middleville.	Howler's Heath, Malvern,	Scotland).
M.Sa	cuneata,	Hall.		chester, Canada, Penn-	
Ut. Sl., Tr	curta,	Conrad.	(Can. E.) Montreal, N.York, Pennsylvania, Builth &c. (Wales).	sylvania.	
Div. P, Queb. G.	cyane,	Billings.	(Newfoundl. W.) Portland Creek.		
Tr	dubia,	D'Orbigny.	(Can. E.) Montreal. Bolivia (South America).		
,,	-	Date of the late of	(Can. E.) Bay St. Paul, (N. York) Lewis County.		
B., BL., Tr Pleta			(Can. E.) Malbay, Réval (Baltic), Poulkova(St. Petersburg Gov ^t),		
H. R. G., M.Sa.	Forbesii,	"	(IsleAnticosti) EnglishHead.	(Isle Anticosti) Junction Cliff.	The state of the s
H. R. G			Grassy River, Missouri (U. S.A.).	Annual Control	
Lland., Bala		100000000000000000000000000000000000000	Llandeilo, Dynevor Park, Tregib, &c. (Wales).		
Fauna G. g. 1 Armorican Sand- stone.		Rouault.	(Normandy) Guichen, Bud- leigh Salterton (pebbles).		(Bohemia) Chotecz.
BL., CH.	Himalensis, Huronensis,		Niti, Himalaya (E. I.). (Can. W.) St. Joseph, (Lake Huron) Lower Ottawa River.	Ontain, Decease.)	
Div. 1, A. G., Llandov.	insularis,	"		(Anticosti) White Cliff &c.	
Div. P, Queb. G.			(NewfoundlandW.)Portland Creek.		
CS			(Can. E.) Montreal (drift), Point Lévis.	THE REAL PROPERTY.	Charles and
P.,Lst.2, Queb.G.	Kali,	Salter.	Point Lévis (Can. E.). Niti, Himalaya (E. I.).	100 thank	
BL			(Can. W.) Kingston, Long Island.	(N. York) Oneida County	(N. Y.) Lockport, Rochester.
Carad., L	lata,	Sowerby.	Plas-hen, Pwllheli (Wales), Desertcreate (Ireland).		Wales, (Shropsh.) Ludlow, Woolhope, &c., Leintwar-
Pleta Carad	L'esueurii,		Popova &c. (Russia). (Normandy)May, Caen, Gui- chen.		dine, Deerhope Burn, Pent- land Hills (Scotland).
Fauna F, W., L., U.L.					Dingle (Ireland), Aymestry, Shropsh., Ledbury, West- moreland, Bohem., Wisby (Gothland), Radnorshire, Herefordshire, Malvern.
Fauna G. g. 1 Pleta, Carad			(Wales) Chirk, St. Peters-		(Bohemia) Hostin.
СН	Lyelli,	Billings.	burg (Russia), Sweden, (Esthonia) Baltishport. (Can. E.) Lower and Middle Ottawa River.	Maria Maria	tions and the

Subdivision.		Species, and author.	Lower Stage.	Middle Stage.	Upper Stage.
P., CS	Mantelli,	Billings	(Can.E.) Point Lévis, Lowe	r	distribution of the same
9	marginata, minima,	D'Orb Römer	Ottawa River. Bolivia (South America).		Thuringia (Jasche, auct.).
U.L P., Potsd. Sa	,,,	Sowerby	La Grange Mountain (Min		low, Delbury, &c., (S.W
Corall. Lst	Muensterii,	D'Orb Fisher	nesota), N. Wisconsin. Bolivia (South America).	TO BE STORY	Scotland) Lanarkshire. I. Oesel, Roodzekulle (Balt.)
Div. N, Queb. G.	nympha, oblata,	Billings	(Newfoundl. W.) Tablehead		
,,	oblonga,	,		Pennsylvania, (N. York Cayuga Co., Arisai (Nova Scotia).	
PletaLlan., Bala, Tr.	obtusa,		(Russia) Poulkova &c. (N.York) Herkimer County Llandeilo (Wales), (Can	Control of the control of	Maria Bassana
Pleta Ling. Sl., Carad.			E.) St. Paul's Bay. (Esthon.)Presqu'ile deNeuk. Tremadoc, Bala, Llanfyllin, &c.(N.Wales), Wexford&c.	Mail of the state	Shall be shall be
II I landar	navallala	DLDI	(Ireland), Dufton (West- moreland), &c.		
U.Llandov Delth. Sh. Lst				vern (England).	(New York, eastern) Albany
CL	perovata,		Highests Springs (N. V.)		&c. Counties.
BL		binings.	Highgate Springs (N. Ver- mont). (Can.E.) Montmorenci Falls,		
	pinnæformis, polita, Obolella?		Montreal, St. Paul's Bay. River St. Croix (Minnesota). Upper Mississippi River.		
P., Potsd		Conrad.	(N. York) Keeseville, Tequa- menon Bay, L. Superior.		Difficult and the
Tr., Ut. Sl	Progne,	Billings.	(Can. E.) Montreal, (Can. W.) Collingwood, Lake Huron.		
Pleta, Inflam.Sh. P., Black Shales.			(Esthonia) D'Erras &c. Malvern Hills (England).		
Div.1,A.G.,Llandov., H. R. G.		Hall.	(Can. E.) Montreal, Beau- port, N.W.Michigan, Mis- souri (Ohio), (Iowa) Du- buque, (N. York) Trenton	(Anticosti)Charlton Point.	Presteign (Wales).
Div. P., Queb. G.	Quebecensis,	Billings.	Falls, Russia. (Newfoundl. W.) Cowhead, Point Lévis (Can. E.).		
Llan			(Wales) Pembrokeshire, Abereidy Bay.		(N. Venk and and S.A. A
Delth. Shaly Lst. r Trr		Hall.	(Can. E.) Portneuf (St. Lawr. River), (N. York) Herkimer County.		(N. York, eastern) Schoharie &c. Counties.
CaradI	var. æquali Rouaultı,		(New York) Middleville &c. France, Budleigh Salterton (Devonshire, pebbles).	(Silurian, Davidson).	
Armorican Sa? L. H. Gs	pathulata,	Hall.	Budleigh Salterton, Devonsh.		(New York, eastern) Helder-
Delth. Sh. Lsts	(sphathata) patiosa,	,,		•	berg Mountains. (N. York, eastern) Becraft's Mountain, Hudson.
Hollyb. Sandst. s W., Ls			Malvern, Worcestershire.		(Shropsh.) Aymestry, Lud-
Pletas Fauna D. d. 1s U.Llandov., W., S L.	ulcata,	Barr.	D'Erras, Lyckholm (Estho.). Bohemia) Rokitzan.	Pen-y-lan (Wales), Man- dinam.	low, &c. Wales, Dudley, Ludlow, Malvern, Presteign, &c. (Eng-
Daradte	enuigranulata	a, M·Coy.	Wales) Meifod, Hirnant, Llanwddyn, Dufton, West-		land).
	extilis, rentonensis,		moreland, &c. Viti, Himalaya (E. I.). Pennsylvania.	101	

Subdivision.	Genus, Species, and Author.	Lower Stage.	Middle Stage.	Upper Stage.
Aymestry Lst				(S.W. Scotland) Lesmahago
P., Potsd		Lancing (Iowa).	The state of the s	1
	Hall	New York.		Ararat (Armenia).
U.Llandov	,, Salter	Sardinia.	Wooltack Park, Pembroke.	
P	,, Verneuil Barrande	. France. . Hof (Bavaria).		LED IN CO.
P., Potsd		Missouri (U.S. America). Fort Laramie, Upper Mis-		
?	" (many), Selwyn	souri River.	Victoria (Australia).	And the same of the same of
Tr. ?	" D. D. Owen	Lake Winnipeg (Rupert's Land).		
L.Ling. Flags, U. & L.Tremad.		(Distinct from Lingula, (S. Wales) Ramsay Isl. &c., (N. Wales) Borth, Maent-		, J.W.S.)
Menevian Rocks. L.Llan.	Eskriggii, Hicks	wrog, Bangor, Festiniog, &c. St. David's (South Wales). St. David's (South Wales).		
L. & U.Ling. Fl., U.Tremad.		(Wales) Borth, Moel-y-Gest, Tahirion, Penrhyn, &c.		
Arenig Rocks	petalosa, Hicks	Whitesand Bay, Ramsay I. (South Wales).	A TOP OF THE PARTY	Company of the last
L.Lingula Flags.		Whitesand Bay, Ramsay I., St. David's.		and Marie
,, ,,	sp. ind. "	" "		
P., Potsd. Sa	Lingulepis, Hall, 1863. pinnæformis, Owen, Hall Ling. antiqua.	Falls of St. Croix &c.(Minne- sota), Black Hills (Da-		
		cotah, N.A.). Black Hills (Dacotah, N.A).		
		L		
Delth. Sh. Lst	lævis, "			,,,
, ,,	mutabilis, Merista, Hall, 1860=C	A MARIUM, Hall.		
L. H. G	Meristella.	L		(New York, eastern) Helde berg Mountains.
Delth. Sh. Lst				berg Mountains, (Tennes Wayne County.
" "	bisulcata?, ,, Calypso, Bar	r.		New York, Missouri. Bohemia.
Niag.?	crassirostra, Hal	1.		New York. New York?
Faunæ E, F	Hecate. Bar			Bohemia (very rare).
Fauna F	Herculei, ,,	1		(Bohemia) Mnienian &c.
Delth, Sh. Lst				(N. York, east and centr. Herkimer and Schoha
	læviuscula, Sowerb			Counties.
L. H. G CL., L. H. G		1		(Tennessee W.) Wayne Co New York, Bohemia, Er
	and the second			land?, Sweden, (Can. V Dundas.
CL.?	var. oblata,			New York.
CL.?	. nucleolata, ,,		New York?	The second second
L. H. G	scalprum, Bar	r. Bohemia.		(N.York, eastern) Schoha
,,	sulcata, "			and Carlisle Counties. New York.
U.Llandov. (E) Niag.	, tumida, Dalr	n. s.	. Mayhill (England)	Bohemia, New York, M. Gothland Norw, England
U.Pentam. Lst	sp. ind. Roger ,, Hal Meristella, Hall, 1860.	11.		New York.
Carad., Llandov	angustifrons, M'Co	y. (S.W. Scotl.) Girvan &c	Rhavader.	
L. H. G	arcuata, Ha	1.	Zunayanor.	(N.York,east.) Schoharie

Subdivision.		, Species, and Author.	Lower Stage.	Middle Stage.	Upper Stage.
L. H. G	halla	Hall	•••		New York
W			***		(England) Dudley, Walsall
***	Circe,	Dati.			Malvern, (Boh.) Prague.
Llandov	2 000000	Sowerhy		(Wales)Shelve,CefnRhyd-	Marvern, (Don.) Frague.
Liandov	r crassa,	Dowerby.		dan, &c.	
CL., Niag	orlindries	Hall		New York	New York.
Llandov., W., L.	didema	Dalman			
Liandov., w., L.	didyma,	Daiman.	***************************************	deilo, Malvern, &c.	(Wales) Usk &c., N.Goth
				deno, martern, de.	land, New York.
Carad., Llandov.	funcata	Sowoeby	Bogmine (Shropshire)	Bogmine Shelve (Shron-	
Carau., Liandov.	rurcata,	Dower by.	Dogimie (chropsinte)	shire), The Wrekin.	
L. H. G	lovie	Hall			New York.
W. Shale					
TT. Charle IIII	Denoine Ciri,	The west			(Scotland).
W Niag	nitida Win	och & Mar Hall.			(N. York) Wolcott, Indiana
11., 2	mercen, ** is	ionice beautiful a second			Canada, (Engl.) Walsall
					Dudley, (Ireland) Cahir
					conree.
CL., Niag	oblata.			New York	New York.
U.Pentam.Lst		,,			(N. York, eastern) Helder-
	ринсерь,	,,			berg Mountains, (Can. E.
					Gaspé.
Llandov	subundata	M'Cov.	Baltischport (Esthonia)	Mathyrafal, Llanfyllin	
	- ac all controls	za coj.	The second secon	(Wales).	
U.Llandov., W.,	tumida.	Dalm.		Wales, (Bohem.) Prague.	(Wales)Bryn-Craig &c., Deer
L., Niag., Fauna		2		(Norway) Christiania.	Hope, Pentl. Hills (Scot-
E. e. 1.				(2001)	land), (England) Abberley
					Hills &c., Gothland, New
					York.
	Nucleost	ira, Hall, 1859.			
Delth. Sh. Lst	concentrica	Hall.	***************************************		(Tennessee W.) Decatur Co.,
				and the second s	(N. York) Helderberg Mts.
,, ,,	elegans,	,,			(N. York, central) Cherry
200					Valley, (Maryland) Cum-
					berland County.
W., Niag	pisiformis,	,,			(N. York) Wolcott, (France)
	pisum (S	Spirifer).			Debray, (Engl.) Dudley
					&c.,(Scotl) Pentland Hills,
					Gothland.
L. H. G	ventricosa,				(N. York, central & east)Hel-
					derberg Mountains, (Ten-
					nesseeW.) Wayne County.
P., Potsd. Sa	sp. ind.	Meek & Hayd.	Nebraska (U. S. America).		(Maryl.) Cumberland Co.
			(Ungula, Pander.)		
Pleta	antiquissin	ius, Eichwald.	(Russ.)Poulkova, (Esthonia)		
OL 1 . C. TI			Réval.		
Obolus Sa., Llan.		. "	Up.MississippiRiver,(Russ.)		
	polita, K	utorga.	Podolova, Yambourg, Lake		
	D 1 .	77 17	Ladoga, S. Ural, Esthonia.		
	Bowlesi,	Verneuil.	(Spain) Sierra Morena, Bal-		
D DT M W	a	70.111	lestera.		W 1 11 (F2 1 1)
B., BL,, Tr., W.			(Can.W.) Mid.Ottawa River.		Walsall (England).
D	Davidson		Gr. Tr. D. H. : L. OV. A		
P		9 61	StraitsBelleisle(N.America).	ME 130 (12 1 1)	(F-1-1) D 11- T-11
Llandov., W	Davidsoni,	Saiter.		Mayhiii (England)	(England) Dudley, Ledbury,
					Ferriter's Cove (Ireland),
Weell Tet W		200000000000000000000000000000000000000			(Gothland) Wisby, Faroe
Woolh. Lst., W.	var. tran	sversus, "			(England) Dudley, Malvern,
	W.	. 3		The State of the s	Ledbury.
Guelph	Galteneia				Shropshire, Woolhope, &c.
Obolus Sa	Ingrious		(Russia) Podolova &c.		(Canada W.) Galt.
O DOI LO B	intermedia	Salton (MS)	(Kussia) Podolova &c.	MELTING CO.	Wulsell
P., Potsd. Lst		ne Billing	StraitsBelleisle,Anse auLoup		Ti disdii.
	- accordance (C	as, Dinnigs.	(Labrador).		
Queb. G. ?	Murravi		(Newfoundl. N.) Hare Bay.		
Commence of the commence of th	sculptus,	Kutorga.			
Pyroxenic Sa. or			Réval (Balt.), Baltischport.	Maria I	
Orthoc. Lst.	on an ious,	Inchw.	nevar (Date.), Daniscipore.		
Queb. G	Thomsoni	Billings	Labrador (Straits Belleisle).		
P., Potsd			Labrador (Straits Deficisie).		
	sp. ind.,	Salter.	"		England.
L.L	*		Hellpool, Wyeford, Builth.		Isingtanu.
			Fort Laramie (Upper Mis-		
P. Poted		mayuen.	A DEED LESS AND DE LE DIDET DITS.		
P., Potsd	"				
P., Potsd	- 11		souri). Pennsylvania, Wisconsin.		

Subdivision.	Genus, Species, and Author.	Lower Stage.	Middle Stage.	Upper Stage.
	Obolella, Billings, 1861			
P., Potsd.Sandst.	chromatica, Billings.	Up. Mississippi River, For- teau Bay, Straits Belleisle (N. America).		
P., Potsd	cingulata, ", Kutorgina.	(Vermont) Swanton, Straits Belleisle, Forteau Bay (N.		
P., Queb. G	desiderata, ,,	America). Point Lévis (Canada E.).		
P., L.Ling. Fl P.?	maculata, Salter. nana, Meek & Hayden.	(S. Wales) St. David's. Black Hills, Up. Missouri (U.S.A.).		
P., Hollybush Sa. P., Black Shales		Malvern (Worcestershire).		
P., Tremad	plicata, Hicks.	Ramsay Isle &c., St. David's (S. Wales).		Martin Co. Burney
CS., &c., L.Llan.	plumbea, Salter.	(Wales) Portmadoc, (Shrop- shire) White-grit Mine, Shelve.		
P., L.Llan	? polita, Hall.	(Minnesota) Trempaleau, Black River, &c.		
Queb. G		Quebec, Carouge, (Can. E.) Isle of Orleans.		
	Salteri, Billings.			
L.Llan	sp. ind., Meek & Hayden. ,, (2), Salter.	Kendal County (Illinois). (Wales) Llanfaelrhys.		
	Orbiculoidea, D'Orbign	(S. Wales) St. David's. y, 1847; Schizotreta, Kut	orga, 1847-48. (See Disc	INA.)
Llan., Car., Llan-	Orthis, Dalman, 1827. Actoniæ, Sowerby.	(Wales) Penmachno, Garn,		THE REAL PROPERTY.
dov.		Arenig, Shropshire, Acton Scott, &c., Coniston, Lan-		
		cashire, Ribblesdale, York- shire, Ireland, (Esthonia)		
		Hohenholm, (Russ.) Poul- kova.		
	acuta, Lindström.			
Tr., Llandov., W.	uberis, Shaler.	N. York, (Ohio) Cincinnati.		(Engl.) Walsall.
Up. Div. D	,, Shaler.	Shropsh., W.of Stiper Stones. Salt Lake Bay (Anticosti I.).		
Carad	alternata, Sowerby. retrosistria.	(Wales) Bala, Penmachno, &c., (Shropshire)Harnage,		
		Church Stretton, West- moreland, Dufton, (Irel.) Waterford County.		
Pleta P., Queb. G		Russia, (Baltic) Réval. (Can. E.) Point Lévis.		
P., Queb. G. ?	armanda, "	Phillipsburg (Can. E.).		(N. Vont. F.) Sababania Co
U.Pentam. Lst Tr.	Australis, Salter.	Tasmania West.		(Andes) Bolivia, Millepaya
Carad., W	basalis, Dalm	(Wisconsin) River Baraboo. Bala, Glyn Ceiriog (Wales).	The state of the s	Valley. Wisby &c. (Gothland).
Queb. G		(Can. E.) Point Lévis &c.		
Tr		(France) Gahard ?. (Can. E.) Lake St. Louis, N. York, (Wisconsin) Mi-		
Carad	Berthoisii, Rouault	neral Point, Tennessee. (Portugal) Bussaco, Spain (France) La Couyère, Vi-		
		tré, La Manche. Westmoreland.		
U. & L. Llan., Carad., Llan- dov., W.	biforata, Schloth	S.W. Scotland, (Wales) Are- nig Mountains &c., Shrop- shire, (Irel.) Chair of Kil- dare, (Yorkshire) Dent Ohio, Wisconsin.	y-Craig, Norway.	(Engl.) Bogmine, Dudley Walsall, (Gothl.) Wisby.
	var. terebratuliformis, M'Coy	Ireland.		
	" fissicostata, "	(Wales) Bala Lake, Meifod &c.		
Tr	Bigsbyi, Salter	. Tasmania West.	-	

Subdivision.	Genus, Species, and Author.	Lower Stage.	Middle Stage.	Upper Stage.
Carad., Llandov., W.	biloba, Linnæus.	(Wales) Denbighshire, Glyn Ceiriog, Robeston Wathen, &c.		Middle Gothl., Deer Hope Pentland Hills (Scotl.).
	var., Lindström.			(Gothl.) Wisby, Ledbury Buildwas (Shropshire).
Tr CH., Tr		New York (north). (Can.E.) Low.Ottawa River, Belleville, Lake Ontario.		Bundwas (Shropshire).
L.Llandov., W.	Bouchardi, Davidson.	Belleville, Lake Ontario.	(Wales) Cilgwyn	Middle & South Gothland (Shropsh.) Benthall Edge
		(Portugal) Bussaco.	(Bohemia) Beraun.	(Shropsii,) Benthan Edge
Llan., Car.,Llan- dov., W.	calligramma, Dalm.	(Spain) Huerta del Llano, (Russ.) Petschora, S.Ural, N. Gothland, (Ostrogoth.) Skarpaden, (Wales) Angle- sea &c., Britain passim,	Cong, Galway (Irel.), Haverfordwest, &c. (W.).	Pentland Hills (Scotland) Malvern, Dudley, (Wales Usk.
Carad Div. 4, A. G., U. Llandov., May-		(Irel.) Knockmahon. (Wales) Llansaintffraid &c.	costi) The Jumpers &c.,	
hill.	" orthambonites,	Russia, Wales.	(Wales) Builth, Pres- teign, (Engl.) Malvern, Mayhill.	land).
	Pander.			
Carad U.Llan	" plicata, Sowerby.	England, Wales, Ireland. Llanerchymedd, Anglesea.		
Carad	" simplex, M'Coy.	Ireland, Wales, Scotland. Cwm-gwynen-uchaf, Mont- gomerysh., (Irel.) Bally-		
Llan		vorgan. England, N. & S. Wales	Wales (N. & S.)?	
	canaliculata, Canalis, Davidson. Lindström. Sowerby.	Penmachno, Conway Falls (Wales).	(Norway) Christiania	(South & Middle Gothland Hoburg &c.
P., Tremad H. R. G		Ramsay Isle &c. (S. Wales). (Ohio) Oxford County.		
Fauna D	cava, Barr.	(Bohemia) Beraun. (N. York) Jefferson & Lewis Counties.		
Pleta		Popova, Poulkova (Russia).	(N. York) Niagara Co.	Bar.
H. R. G P., Potsd Carad., Fauna D	Clytei, ,, Coloradensis, F. Moore.	Kentucky (U.S.A.). (Texas) Burnet County. (Engl.) Shelve, Shropshire,		
	compta, Salter.	(Bohem.) Beraun. Niti & Mamrang Passes, Hi-		100
	concentrica, Portlock.	malaya Mountains (E. I.). Tirnaskee (Tyrone), Tramore (Waterford).		And the party of the same
Delth, Sh. Lst	The state of the s		······································	(Maryland, U.S.A.), Cun
Carad		(S.W. Scotl.) Girvan &c., (Wales)Gaer Fawr,(Corn- wall) Gorrans.		berland County.
P., Queb. G	Corinna, Billings.	Niti Pass, Himalaya (E. I.). (Can. E.) Stanbridge.	The state of the s	
Carad.	costata, Sowerby.	(N.York, N.E.) Chazy Village. (Ireland) Pomeroy, (Wales) Welchpool.		
W U.Bala, Carad	crassa, Lindström. crispa, M·Coy.	(N. Wales) Bala, Bettws-y- Coed, (Westmoreland)Ire- leth Moor, Kendal, (Irel.)	Translessort -	MiddleGothland, Woolhop Shropshire.
H. R. G	crispata, Emmons.	Tramore. New York (north-east).		
Llan	Davidis, Bonissent.	(France) Angers, Poligné. (France) La Manche.		
M.Sa., Niag., W.	Davidsoni, Verneuil. calligramma.	South Bay, Manitouline Isl., Lake Huron.	Anticosti, S.W. Point	(Gothl.) Wisby, High His Manitouline Island, Lal Huron, (Can. E.) P. Danie
Fauna F B., BL	decipiens, Barr. deflecta, Conrad.	Tennessee, N. York, Canada.		(Bohemia) Konieprus.
Delth. Sh. Lst		Tennessee, N. 1 ork, Canada.		(New York, eastern) Helder

Subdivision.		Species, and thor.	Lower Stage.	Middle Stage.	Upper Stage.
Divs. M, P, Queb.	delicatula,	Billings.	(Newfoundl., W.& N.) Table-		
G.	demissa,		head, Portland Creek.		Russia?, (Gothl.) Hobur
	depressa?,	Portlock.	Ireland.		Oeland, Bodahamn.
Fauna D, Pleta	desiderata,		Komarow (Bohemia), St. Pe-	+1	Comming Dodnimini
			tersburg (Russia).		
Tr Delth. Sh. Lst	dichotoma,	Hall.	(Ohio) Cincinnati.		(Now York and Oct 1)
Deith. Sh. Lst	disparilis,	Conrad.	Minnesota, Michigan, N.W.,		(New York, eastern) Catski &c.
	and part ties,	- Comman	(N. Wisconsin) Mineral		
			Point, N. York, (Canada E.)		
Pours D	distants	D	Mingan Isles, L. St. Louis.		(Balancia) Vani
Fauna F	Duriensis,	Sharpe.	(Portugal) Vallongo, Sar-		(Bohemia) Konieprus.
	- un ronner,	Zam Per	dinia.		
Divs. H, I, CS.,	Electra,	Billings.	(Newfoundl. W.) Pt. Rich		
Queb. G.			&c., Phillipsburg, Missis-		
Faunæ E, F, CL.,	elegantula	Dalm.	quoi Bay (Can. E.). (Wales) Madryn Park, Caer-	Mulloch's Hill (Aveshine)	(Wales) Craig-hir, Merchli
Niag., Llan.,		Danin	narvonsh., &c., S.W. Scot-	New York, Canada, Ire-	
Carad., U.Llan-			land, Cornwall, Sweden,	land, (Wales) Mathy-	Glen, Kerry, Thuringi
dov., W., L.	1000		Norway, Sardinia, Gretton		
			(Shropshire), (Irel.) Clare County.	Norbury, Norway.	IsleOesel, Ficht, Lodé, &c Mid. Gothland, N. Wi
			county.		consin, Canada, N. Yor
					Pennsylvania, Tennesse
					Missouri, Arctic Seas (A.
Delth. Sh. Lst	var emine	me Hall			Pentland Hills (Scotland (N. York, eastern) Schohar
Deten. on. Lsc	var. emme	nis, Itali.	***************************************	***************************************	&c.
W., L	" orbici	ularis, Dalm.			Nova Scotia, (Engl.) Dudle
	,, parva	, Pander.	Ireland, S. Scotland, Wales,	Canada.	Tortworth, Buildwas.
			Spain, Portugal, Czarskoe- selo (Russia).		The state of the s
H. R. G	Ella,	Hall.	(Ohio) Cincinnati.		
Fauna D	ellipsoides,	Barr.	(Bohem.) Beraun, Praskoles.		
" F	elliptica,		(Can. E.) Lake St. John.		n
H. R. G	elongata,	Barr.	(Ohio)Cincinnati, Iowa, Wis-		Bohemia.
H. R. O	emacerata,	Han.	consin.		
1)	? erratica,	,,	(Can.W.) L.Ontario(Smith),		
0 1 0			(N.York) Oswego C.		
Queb. G	Eurydice,	Whiterves	Point Lévis (Can. E.). (Canada E.) Montreal?.		
P., Queb. G			Point Lévis (Canada E.).		
	Evadne,	,,,	. , , , ,		
Dista	exornata,		(Portugal) Bussaco.		
Pleta	basalis.	rander.	Poulkova &c. (Russ.), (Es- thonia) Lyckholm, Réval,		
	3		&c.		
Carad	fallax,	Salter.	(Ireland) Pomeroy, Tyrone,		
Niag	facciata	Hall.	Desertcreate.		(New York) Rochester &c.
Carad			Sardinia, Bohemia, (France)	***************************************	(New York) Rochester &c.
			Vitré.		
Tr		Hall.	Portugal?, N. York, Ohio.		CD TYP
Niag		Komer.	(Westmorel.) Applethwaite,	Cong. Galway	Tennessee West.
Caraus, Lianuov.	naocitum,	Sowerby.	Pull Scar, Yorkshire, Dent,		
			&c., Malvern, (W.) Bala,		
Ning	man 9	TT-11	Bettwys, &c., Norway?.		(Now Vorl) To the D
Niag	var. r,	Hall.		***************************************	(New York) Lockport, Rochester, &c.
w	Fletcheri,				(Engl.) Benthall Edge, Wa
	formosa,	D. D. Owen.	Turkey River (Iowa).		sall, Gothland.
P., Queb. G		Billings.	(Can. E.) Point Lévis.		Konjensus (Pohamia)
Fauna F CH., BL., Tr		Billings	(Can. W. & E.) Belleville,		Konieprus (Bohemia).
	8.000,000	Dining.	Montreal, Lake Huron,		ALL STREET
T01 4			Middle Ottawa River.		
Pleta	hemipronites	s, Von Buch.	St. Petersburg, Popova, &c.		
P., Menevian	Hicksii	Salter	(Russia). St. David's (S. Wales).		Control State of the State of t
P., Queb. G	Hippolyte.	Billings.	(Newfoundl. W.) Cowhead.		
Carad	Hirnantensis		(Wales) Bala, Aber Hirnant,		
		100	Llangedwin.		

Subdivision.		Species, and uthor.	Lower Stage.	Middle Stage.	Upper Stage.
	Huxleyi,	Billings.		Anticosti, Junction Cliff, White Cliff, Ellis Bay.	
Carad., Llandov., W.,L.L., Faunæ E, F		Sowerby.	(Ohio) Cincinnati	(Wales) Mathyrafal, Ire- land, Bohemia.	(Engl.)Abberley, Worces tershire, Dudley, Middle & S. Gothland, Norway Isle Oesel (Baltic), N. & S Wisconsin, (Can.W.) Tho rold, (N. York) Schohari
СН	imperator,	Billings.	(Can. W.) Lower Ottawa (Hawkesbury).		County, Tennessee.
CaradPleta			Lowick, Crake (Lancashire). St. Petersburg(Russ.),Odins-	The state of the s	
Tr., H. R. G	insculpta,	Hall.	holm. (N. York) Watertown, (Can. W.) Middle Ottawa River, Cape Smyth, L. Huron.		
Delth. Sh. Lst					(N.York) Helderberg Mns.
Carad., L.Llan- dov.	insularis,	Eichw.	N. York, Russia, Isles Dago and Odinsholm (Baltic), Norway, Silesia (drift), Ch. of Kildare (Irel.), (Wales) Llangynyw, Garn, (Lanca- shire) Coniston.	Norway.	
Carad	intercostata,		(Ireland) Tyrone, Oswestry, Moelydd.		
Cor.L.,Schoharie	interstriata,	Hall.	(Irel.) Kildare, Wales.		(N. York) Schoharie County
Tr. H. R. G	Jamesii,	Hall.	(Can. W.) Ottawa City. (Ohio) Cincinnati.		T 1 1 (D1 11) 0
H. R. G	jugata,		Missouri (U.S.A.).		mondsberg.
,,	Kankakensi	s, M'Chesney.	Wilmington (Illinois). Cincinnati (Ohio).		mondsoerg.
Tr. "	lamellosa,		Lake St. Louis (Can. E.)	Norway.	Managaran de Mina
L.Llandov	lata,	Sowerby.		Penlan (Wales), Wool- tack Park, Pembrokesh.	bestering and the
Div. 1, A. Gr., Llandov.			TO 1	Anticosti Isle (G. St. Law- rence), Junction Cliff.	STOROLLES BAD
P., U.Ling.Fl	Lenaica, lenticularis,	Verneuil. Dalm.	Kussia. Sweden, (Wales) Penmorfa, Criccieth, &c.		
Tr		Emmons.	(N.York, northern) Jefferson County.		Testerill III
w	Lewisii,	Davidson.		••••••	Dudley, Wenlock Edge, &c. Shropshire, Wales, Pent land Hills (Scotland.).
	Loveni,	Lindström.		Wisby (Gothland).	land Hills (Scotland.).
	lunata,	Sowerby.			(Wales) Dinas Bran, Horeb
	Lusitanica,	Salter.	(Portugal) Vallongo, Sar- dinia.		Chap., (Engl.) Malvern Aymestry, Ludlow, &c. (Westmoreland) Benson Knot, (Bohemia) Konie prus, (France) Brest?.
H. R. G. &c	lynx,	Eichw.	Esthonia, S. Scotland, (Can. E.) Lake St. John, (Can. W.)CapeSmyth, L. Huron, Upper Mississippi River, Lake Winnipeg (Rupert's Land), Isle Anticosti.	(Div. 1).	
Fauna D Div. 1, A. Gr., H. R. G., Middle Llandov.	Maria,	200 1224	(Bohem.) Beraun, Praskoles. Anticosti, McCasty Bay	Anticosti Isle, Gamache Bay.	
Divs. 3, 4, A. Gr.	media, var. elega		(Anticosti) South Point &c.		
Tremad., &c	Menapia,	Hicks.	Ramsay Isle &c. (S. Wales).		The state of the s
Tr	Merope,	Billings.	(Can. W.) Ottawa City.		m
Niag. ?	Michelini, Miniensis,	Koninek. Sharpe.	(Portugal) Vallongo, Sar- dinia.		Tennessee (U.S.A.)
P	minima?	Hall.	Canada.		

Subdivision.	Genus, Spec		Lower Stage.	Middle Stage.	Upper Stage.
37		Hasmall			Pantland Hills (Seedles 3)
V	minuta /	Haswell.			Con Cincil (Scotland).
	Missouriensis,	Snumara.	(D-1) D-1		Cape Girardeau (Missouri)
auna D. d. 1, 4	mœsta,	Barr.	(Bohemia) Rokitsan.		
Oslo Gp., Pleta	moneta,	Eichw.	Norway, Poulkova &c., St.		
		11	Petersburg (Russia), Dale-		
		the same	carlia, Isle Soller.		
arad	monilifera, (Mu	s.Pr.Geol.).	Chair of Kildare (Ireland).		
	Monnieri,	Ronault	Normandy, May, Rennes,		
	azommera,	240	Gahard?		
	monticula,	Solton	NitiPass(Himal.), Damchen.		
U.Pentam.Lst					(New York, eastern) Helde
U.Pentam.Lst	muitistriata,	man.	······································		
					berg Mountains.
Fauna E. e. 1		Barr.		(Bohemia) Beraun.	
	Mundæ,	Sharpe.	(Portugal) Bussaco.		
Lst. 2, Queb. G.		Billings.	(Can. E.) Point Lévis.		
Fauna F	neglecta,	Barr.			(Bohemia) Konieprus.
Oneida Conglom.	nitens,	Vanuxem.		(N. York) Wayne County.	
	noctilio,	Sharpe.	(Portugal) Bussaco, Vallon-	(, , , , , , , , , , , , , , , , , , ,	
			go, Sardinia.		
	novem-radiata,	Hall	84, 444	The same of the sa	New York.
Delth. Sh. Lst					
Jenn Bu Lat	- Juliana,	" "	•••••		gouche, (Can. E.) St. H
					len's Isl., (N. York, easter
					Hudson &c., (Tenness
	La restriction of the				W.) Wayne County.
" "	var. emargina	ata, "			(Maryland, U.S.A.) Cumbe
Orthoc. L., with	obtusa,	Pander.	R. Volkoff, St. Petersburg		land County.
green grains.			(Russia), Esthonia.		
,, ,,	var. eminens,	,,	(Esthon.) Réval &c., (Russ.)		41
" "			Grafskaya-Slavjauka.		
	" expansa,	,,	Russia, Esthonia, passim.		
"	,, quinque-	wadiata"	Russia, Betholita, passemi.		
H. R. G	ossidentalia	Hall	Cape Smyth, West Bay, Ma-		
H. R. G	occidentalis,	nan.			
			nitouline Island, L. Huron,		
		22777	New York.		
Fauna F		Barr.			(Bohemia) Konieprus.
Delth. Sh. Lst.,	orbicularis,	Sowerby.	France, N.W. Michigan (L.		(N. York) Schoharie Count
H. R. G., W.,		A STATE OF THE STA	Superior), Cornwall, Ger-		Bohemia, Esthonia, Sw
U.L.			ran's Bay.		den, Russia, (Engl.) Ha
Let 2 Queb G.	Orthambonites.	Bill. Pand.	(Can. E.) Point Lévis, Rus-		ley Park, Shobden Hill, &
23001 27 4010001 01	calliaramma	(var)	sia, Réval, &c.		,
Corall. Lst	Osiliansis	Schwanck	ola, Herai, de-		Russia, (Esthonia) I. Oes
Coran. Lst	umbraculum	o Schrenca.			Moustel Pank.
			T (3.:0)		Brouster Lank.
n n	Oswaldi,	Komer.	Lower Silesia (drift).		(D-1)V
Fauna F		Barr.			(Bon.) Konieprus, Mnienii
	Panderi,	Billings.			
				Lawr.), Junction Cliff.	
		Verneuil			Russia.
Tr., Carad	parva.	Pander.	(Engl.) Ribblesdale, Corn	- Canada	Canada?.
			wall, Ireland, (Scotl.) Gir		
			van, (Wales) Llansaint		The Control of the Co
			ffraid &c., (Russia) Gat		
			china &c., (Esthon.) Réva		
			&c., Sweden, Spain, (Por		
			tugal) Bussaco, N. York	,	
			Ohio.		
Carad	patera,	Salter	Sardinia, (N. Wales) Bala	,	
			(Shropshire) Hopesay.		The state of the s
	patula,	M'Coy	. Wales ?, Sardinia.		
Tr	pectinella,		Caughnawaga, L. St. John	1,	
			Murray Bay (Can. E.)	,	+
			Canada W., Pennsylvania	i.	
	var. semiova	lis. Hall	. (N.Y.) Watertown &c,, Ten		
		,	nessee, Missouri, N.W		The state of the s
			Michigan.		A STATE OF THE PARTY OF THE PAR
Delth. Sh. Lst	neduncularia		Hiemgan.		(New York, eastern) Held
Deltin on Lat.		Meneghini	Sawlinia		berg Mountains.
P., Potsdam	pentamera,				our Barountains.
F COLUMN TO	pepina,	Hall	Lake Pepin (Mississippi R.)		
x 1, x 010000000		120	Osceola Mills, R. St.Croix		(Pohamie) Terimon
	peregrina,	The second second			(Bohemia) Konieprus.
Fauna F	In the second	Hall			
	. perelegans,				Land Catabill Counties
Fauna F			(New York) Chazy Village	3,	and Catskill Counties.
Fauna F Delth. Sh. Lst			(New York) Chazy Village (Canada) Montreal, Ten		and Catskin Counties.
Fauna F Delth. Sh. Lst			(Canada) Montreal, Ten	-	and Catskin Counties.
Fauna F Delth. Sh. Lst				-	and Catskiii Counties.

Subdivision.	Genus, Species, and Author.	Lower Stage.	Middle Stage.	Upper Stage.
Fauna F	ninguissima Barr.			(Bohemia) Konieprus.
L. H. G., Niag	pisum. Hall.			(New York) Wolcott, N.W
21 22 01 2 1 1 2	plana, Pander.	Poulkova, St. Petersburg (Russia).		Michigan (L. Superior).
	planissima, Eichw.?	(Esthonia) Réval, D'Erras.		
L. H. G	plano-convexa, Hall.			(New York, eastern) Helder
СН	platys, Billings.	(Can.W.)Kingston, (Can.E.) Montreal &c., Highgate Springs (N. Vermont).		berg Mountains.
L. H. G., U.Bala,	plicata Sowerby	(Wales) Galli Grin, Alt-y-		Cornwall?, Cherry Valle
W.	param,	Anker, &c., Howgill Scar, Westmoreland, Ribbles- dale, Yorkshire.		(N. York).
Corall.Lst., Tr	plicatella, Hall.	Ohio, Kentucky, Indiana, Canada, N. York, Norway, Scania, Gothland, &c.		(Isle Oesel) Ficht.
Carad	polygramma, Murch. Atrypa.	Powis Castle (Wales).	A CONTRACT CONTRACT	
Tr., H. R. G., M.		Ottawa City (Can.W.), Ohio,	(Wales) Blain - v - Cwm	Dudley, Tirnaskea (Tyrone
Sa., Carad., U. Llandov., W.	anticostiensis, Shaler.	Indiana, Ellis Bay (Anti- costi), Westmoreland, Lo- wick (Lancash.), Norway, (Irel.) Desertcreate &c., (Wales) Wrexham &c.	Ridge, (Anticosti) Ga- mache Bay.	
	var. occidentalis, Hall.	(Can.W.) L. Huron, Western New York, (N. Illinois)	land, Norway, Russia,	Lake Huron, S. Wisconsin
		Waddam's Grove, Iowa, Missouri, New Mexico, N.W. Michigan.		
	., retrorsa, Salter.	Ottawa City (Can.W.), Lake	nessee, Wisconsin.	
	,,	Ontario (N. side), (Ohio)		
		Cincinnati, Wales, passim.		
CL. &c		Canada, Wiscons., Tennessee.		
H. R. G. &c	,, subjugata. ,.	New York, N.W. Michigan		
	" terebratulaformis,	(Lake Superior). Portugal, Sweden?.		
	M'Cov.	rorugai, sweden :.		
CH		(Canada E.) Montreal.		
		(Spain, Prov. Leon) Sabero.		
Carad	protensa, Sowerby.	(Irel.)Wexford and Wicklow	Llandovery, Mathyrafal,	
		Counties.	Golengoed, &c. (Wales),	
Llandov	var. lata, "	,, ,,	Ashgill (Westmoreland). Llandovery (Wales).	
Carad		(Irel.) Meath, Knockmahon, and Waterford.		and the second state
	psittacensis, Durocher.		Marile Marie	
Davidson, Devo- nian.	pulvinata, Salter.	(France) Caen, Budleigh Sal- terton, Devonsh. (pebbles).		
2007200000	punctata, Verneuil.	(posses).		(Gothl.) Hoburg, Wisby, &
				(New York) Lockport (lim
				stone).
	pusilla, Hising.	······		Temple Näs (Gothland).
Niag	pyramidalis, Hall. Quebecensis Billings	(Canada E.) Point Lévis.		(New York) Lockport.
Pleta		(Russ.) Popova, Pontilova, (Esthon.) Baltischport &c.		
Carad		Tramore (Waterford), Go- lengoed (Wales).		
Fauna D		(France) Normandy, May, La Manche, Beraun (Boh.).		New York Street
P., Arenig rocks.		Isle Soller, Dalecarlia. N. Wales, Whitesand Bay, Ramsay Isl., S. Wales.		
Carad	retroflexa, Portlock.	Chair of Kildare (Ireland).		
	retrosistria, M'Coy.	,,		
II Llandon	alternata.		San	Mandinan Ilandanan M
U.Llandov		(Anticosti, east end) Gull Cove.		Mandinam, Llandovery, Ma vern, Chirbury (England Galway (Irel.), (S. Scot Mullock.
Carad., W		Coimbra (Portugal). (Wales) Gaer Fawr, Bryn	North and South Wales	England, Wales.
D 6 C	D - 1 - 1	Melyn.		The state of the s
P., fauna C	Romingeri, Barr.	(Bohem.) Ginetz, Skrey, &c.		

Subdivision.	Genus, Sp Autl	pecies, and hor.	Lower Stage.	Middle Stage.	Upper Stage.
Tr Div. 1, A. Gr., Llandov.			N.York, Esthonia, Sweden?.		
Carad., W	rustica,		(Wales) Meifod, (Esthonia) D'Erras, Bull's Head (Kerry).		Ferriter's Cove &c., Kerry Wenlock, Walsall, &c (Engl.), Mid Gothland.
L.Llandov.?, Car.	var. a, Sadewitziana, sagittifera,	Römer.	Silesia (drift). (Wales) Bala, Aber Hirnant, &c.		(S. Gothl.) Hoburg, Æster garn.
	Salteri,	Billings.		(Isle Anticosti) Junction Cliff.	
? Carad	Sardoa, sarmentosa,	Meneghini. M'Coy.	Sardinia. (Wales) Llyn Ogwen, Bala, Rathdrum, Wicklow (Ire- land).	Malan	
,,	semicircularis	, Eichw.	Popova, Poulkova (Russia), (Esthonia) Lyckholm &c.	a language ou	
,,	"	Sowerby.	(Irel.) Wexford &c., Corn- don or Shelve (Shropsh.).		
Carad			(Ireland) Chair of Kildare, Wexford, (Wales) Bala Lake.		
H. R. G., CL	sinuata,		(Ohio) Oxford &c., (Indiana) Madison, (Kentuck.) Mays- ville, Wisconsin, Canada.		
Fauna D. d. 1	sinuosa, socialis,	Durocher. Barr.	(Bohem.) Rokitzan, Wosek.		Norway.
Faunæ E, F H. R. G	sola,		(Anticosti Isle) Salmon Riv.		Bohem., Dudley (Barrande
Llan., Carad			(N. Wales) Arenig Moun- tains, Welchpool, &c.		
?	striatella, striatocostata,		Niti Pass, Himalaya Moun-		(Gothland) Hoburg.
L.&U.Llan., Tr., L.Llandov.	striatula,	Conrad.	tains (E. I.). (Can. E.) Montreal, (N.Scot- land) Durness, Shelve?, Shropshire, (Wales) Caer- marthen.	very (Wales).	
Delth. Sh. Lst Tr.	strophomenoic subæquata,	des, Hall. Conrad.	(Can. W.) La Cloche, Lake Huron, Tennessee, Mis- souri,(Wisconsin)Mineral Point.		(N. York) Helderberg Moutains.
Delth. Sh. Lst	subcarinata, subdivisa,		Mamrang and Niti Passes, Himalaya, Kalajowar.		(Tennessee W.) Wayne Co (New York) Helderbe Mountains.
Tr., H. R. G	subquadrata,	"	Indiana, Missouri, Wisconsin, Ohio, Kentucky (Can. E.), (Anticosti) Charlton Point, Lake St. John.		
Pentam. Lst	subtilis,	Eichw.	Tomi, Lake St. John.	(Esthonia) Kirna, (Livo- nia) Laisholm.	
CL	Sulivani, Mortenuidens,		Falkland Islands (S. Amer.).		
	tenuis, Mor	ris & Sharpe.	Falkland Islands (S. Amer.). Rathdrum (Irel.), Coniston (Lancash.), Llansaintffraid		
Tr., Utica Slate, H.R.G.,Carad., Llandov.		Durocher. Dalm.	&c. (Wales). Sweden. Lake St. John (Can. E.), Hot Creek, Nevada (California), Anticosti, N. York, Penn-	Nova Scotia.	
			sylvania, Missouri, Iowa, N.W.Michigan,Tennessee, (Spain) Almaden, Fonta- nosas (Normandy), May,		
			Sardinia, Bohemia, Thu- ringia, (Ireland) Kildare, (England) Hollies Farm &c., Shropshire, Scotland, (Wales) Llan Mill, Nor-		
	Tibetica,	Salter.	way, (Russ.) S. Ural &c., Saalfeldt, Dagden (Baltic). Niti, Kumaon, Himalaya (E.I.), Bompras, Rimkin, &c.		

Subdivision.		Species, and uthor.	Lower Stage.	Middle Stage.	Upper Stage.
	thakil,	Salter	Niti & Mamrang Passes, Hi-	Daniel Harris	
			malaya (E. I.).		
	var. conv	exa, "	" "		
	stria	ito-costata, "	33 33		
		livisa, "	,, ,,	of the state of th	
	,, trific		,, ,,		
	transversali		Sweden.	hartie and harting	
Llan., U.Llan-	triangularis	. Sowerby.	(Irel.) Wexford Co., (Wales)	Llandovery, Castell-Craig	
dov.?		,	Marrington Dingle.	Gwyddon.	
Carad., Tr	tricenaria.	Conrad.	Murray Bay, Lake St. John	La Cloche, Lake Huron.	Land and the same of the
			(Can. E.), Mid Ottawa R.,		
			La Cloche, Lake Huron		
	- 1		(Can. W.), Middleville		
			(N.York), Tennessee, Mis-		
			souri,(Wisconsin) Mineral		
			Point, (S.W. Scotl.) Pied-		
			mont Glen.		
Pleta	trigonula,	Eichw.	Poulkova &c.(Russ.),(Esth.)		
			Lakesberg Mountain.		
-					100
CL		Hall.		(N. York) Wayne County	
P., Queb. G		Billings.	(Can. E.) Point Lévis.		
	truncata,	Dalm.	Norway.	Lamber of the Control	
	tubulata,				
Delth. Sh. Lst	tubulo-striat	ta, Hall.			(N. York) Albany County
	200				(North New Brunswick
		4200		- COLUMN TO THE PARTY OF THE PA	Restigouche.
	tumida,	Kutorga.	Poulkova (Russia), Wesen-		
20 10 1			berg &c. (Esthonia).		a state of post of the state
Llan., Carad	turgida,	M'Coy.	(N. Wales) Craig-y-beri &c.,		A Second
			Mayhill, Gloucestershire.		200
?	uberis,	Billings.		Anticosti Isle.	breakers!
	æquivalva	, Shaler.	and the latest the same of the same of	NUMBER OF THE PROPERTY OF THE	7.
Fauna F		Barr.			Bohemia.
	uncata,	Salter.	Niti Pass, Himalaya (E. I.).		
Carad	unguis,	Sowerby.	Gretton &c., Shropshire.	Carlo Con Carlo Carlo	Maria de la companya del companya de la companya del companya de la companya de l
7	Uralensis,	Verneuil.	Ural Mountains.		(N. W.)
Delth. Shale	varica,	Hall.			
					berg Mountains, Tennes
L.Ling. Flags			Penmorpha, Criccieth (N.W.)	Harris Springer & Co.	see, Wayne County.
Fauna E	venustula,	Barr.	D(==1 (D=1e) T.1 D		Bonemia.
Pleta &c.	verneuillii,	Eichw.	Réval (Baltic), Isle Dago	337 1	Lennessee.
Car., Llandov.?	vespertilio,	Sowerby.	Ireland, (Wales) Blain-y-	wates.	
			cwm, Gelli Grin, (Engl.)		
			Shropshire, Hope, Dowgill		
			Scar, Horderley, Malvern,		
			Yorkshire, Dent, France, (Spain) Ballesteros.		
Carad	vivorate		(Spain) Ballesteros. Salahir Mountains, Lossicha		
oarau	virgata, calligram:		(Russia), Chair of Kildare		
	caugran	met.	(Irel.) and Co.Waterford.		
	Wisbyensis,	Lindström.			Wieby Gothland
	zonata,		Ostrogothia, Skarpasen, Nor-	Nowway	Wisby, Gothland.
	eviiatel,	Dann.	way.	Lioi way.	
9	sp. ind.	Giebel	Lower Harz (Thuringia).		
P		Rare.	Hof (Bavaria).	The second second	
	" 1		(Texas) Burnet County.		
Potsd			Forteau Bay (Labrador).		
	"	Abieh	rorteau Day (Labrador).		Ararat (Armenia).
	"		· · · · · · · · · · · · · · · · · · ·		Millanava Valler Illanava
	"	Saiter.		•••••••••••••••••••••••••••••••••••••••	(South America).
	200	Hector			New Zealand (Salter).
P., Queb. G,	"	Logan	Point Lévis (Canada E.).		zien zealand (outer).
., 4	**		Berrigal (New South Wales).		
	"		Ceuta (Morocco).		
141 CT T .	", (2),	Swallow.	Ceuta (Morocco).		Missouri.
Jelth. Sh. Lst.	,, (=),	Selwyn	•••	Victoria (Australia)	DI SCOULT.
Delth. Sh. Lst	Orthisina	D' Orbigny, 18	49.	recorta (Muserana).	
	equirostris,	Vernenil	(Russia) Tosna?		
,	or of south Court 104		(Norway) Christiania, (Es-		
	anomala		(Tibe and) CHI Ioniania, (Tibe		
	anomala,	The second second	thonia) Réval Lyckholm		
	anomala,	to be bring to a	thonia) Réval, Lyckholm, Russia, North Holland		
	anomala,		Russia, North Holland		
Pleta			Russia, North Holland (drift).		
		Pander.	Russia, North Holland	1 - A	

Subdivision.	Genus, Species, and Author.	Lower Stage.	Middle Stage.	Upper Stage.
Pleta	Asmussii, Verneuil	Réval, Wesenberg, Lyckholm		
	var. æqualis, "	&c., (Russia) Tosna. Russia.		
	,, deformata, ,,	,,		
,,	distincta, Eichw.	Réval &c. (Baltic), (Russia Tosna.		
P., Potsd. &c	festinata, Billings.	Canada, Straits of Belleisle		
		(N. America), N. Vermont		Manage and Males
CS	grandæva	(U.S.A.). Mingan Isles (G. St. Lawr.).		
Niag	hemiaster, Winch & Marcy.			Chicago (Illinois, U.S.A.)
Pleta	inflexa, Davidson.	Sardinia, (Russia) Poulkova &c., (Esthonia) Réval &c.		
	intermedia, Meneghini	Sardinia.	Wallet I was a second	
P	pellico, Verneuil.	(Spain, Leon) Sabero. Poulkova &c., Wassilkowa		
I leta	piana, Lander.	(Russia), (Esthonia) We-		
	Tr.A.	senberg, Réval, &c.	West out 1875	1
.,,	Scotica. M'Cov.	Poulkova &c. (Russia). (S.W. Scotl.) Ayrshire, Gir-		
	var. calligramma.	van, Colmonel.	Gallery Co.	
	Tcheffkini, Verneuil.	Wales (Salter), St. Peters- burg (Russia).		
?	terebratuliformis, Menegh.	Sardinia		
Dolom. Cor. Lst.	umbraculum, Von Buch.	Antiqueti Tela		Moustel Pank (Isle Oesel
H. R. G. &c P	vaticina, Salter.	Anticosti Isle. (Spain, Leon) Sabero.		
Pleta, B., BL.,	Verneuillii, "	Canada W., (Esthonia) Ho-		The second of
H. R. G., M.Sa.	deversa, Shaler. sp. ind. Meneghini.	henholm &c. Sardinia.	&c.	
Potsd	Billings.	Forteau Bay (Labrador).		
Fauna F	Pentamerus, Sowerby, 1	813.		(Bohemia) Konieprus.
Niag	arcuosus, M'Chesney.	·····		Milwaukee (Wisconsin).
Mayhill Sa	Australis, M'Coy.		(Australia) Victoria.	
Div. 2, A. Gr., Llandov., CL.			ticosti Isle.	
	Baschkiricus, Verneuil.			
Niag.	hisinuatus McChesney			(Altai) Salahir. Baley's Harbour, Door C
				(Wisconsin).
	borealis, Eichw.		(Esthonia) Raicks, Jorden,	Esthonia, Livonia, Nor
Niag	brevirostris, Hall.			(New York) Lockport sha
Fauna F G H	Atrypa.			(Pohomia) Promo Voni
Faunæ F, G, H	ouoo, Darr.		***************************************	prus, Sweden.
", E, F				(Bohemia) Prague, Beraur
				Chicago (Illinois). (Gothland) Klinte, Norwa
Some Verball				Russia, Cornwallis Islan
Niag.	crassoradius, M'Chesney.			(Arctic America). Milwaukee (Wisconsin).
			Mid. Gothland, (Esthonia)	, , , , , , , , , , , , , , , , , , ,
CL	fornicatus Hall		Kattentack. (New York) Lockport.	
Fauna F, W., L.,			Norway.	Maryland, New York, Pen
Delth. Sh. Lst.				sylvania, Tennessee, U
				Mississippi, N.W. Mich gan, (Can. E.) CapeGasp
			A STATE OF THE STA	France, Thuringia, Boh
				mia, Russia, Podolia, and Mid. Gothland, Ur.
		A CONTRACTOR OF STREET	The state of the s	Norway, (Engl.) Dudle
				Malvern, Ludlow, & (Wales) Usk, (Irel.) Fe
	The Paris (riter's Cove &c.
L. & U.Llandov.	globosus, Sowerby.	····· ····	(Engl.) Malvern, Ireland, (Wales) Llandeilo, Car-	Eliano)
			marthen, &c., Bohemia,	
-			France, (Thuring.)Saal-	
Fauna G. g. 1	innocens, Barr.		feld. ? Brest Roads (France),	(Bohemia) Tetin.
			Ebray.	
" F	integer, ,, interplicatus. Hall		New York.	(Bohemia) Konieprus &c.
	Train.			

Subdivision.	Genus, Species, Author.	and	Lower Stage.	Middle Stage.	Upper Stage.
	juglans,	Römer.	Lower Silesia (drift).		A second
Faunæ E,F; W., L.		owerby.			(Can.E.) Port Daniel?, Ten nessee, (Rupert's Land L. of Woods, (England Mocktree, Aymestry, Led bury, &c., Wales, Harz Bohemia, (Irel.) Creagh martin, Sweden, Thuringia Ural.
H. R. G., Llandov., &c.			Ohio (U.S.A.), (Wales) Pwll- heli, Penlan, Shropshire, Soudley.		Thuringia.
Llandov. W"	lens, liratus, see Stricki	LANDIA.			
Llandov., W., Faunæ E, F, G. g. 1, 2.	linguiferus, Sc	owerby.	Subsuit Lybrid	nia, Esthonia, (Norw.) Christiania.	Gothland, (Bohem.) Hlu bocep, Chotecz, Hostin Mnienian, &c.
	Littoni,	Hall.	······	***************************************	(Tennessee) Hardin County New York.
				Mandinam, Carmarthen- shire, Mayhill, Glouces- tershire.	TON TOTAL
Car., U. Llandov., CL., Niag., Div. 3, 4, A. Gr.	multicostatus, D. D. oblongus, Sc	Owen ?\ owerby. I	Wisconsin (U.S.A.). Mingan Isles (G. St. Lawr.).	(Engl.) Malvern, Norbury, &c., (Wales) Pen-y-lan &c., Galway (Ireland), S.Scotland, Russia, Nor- way, Thuringia, Livonia, Canada, Anticosti, S. Point, &c., New York, Iowa, N.W. Michigan,	Lake Huron, Thorold Hamilton (Can. W.).
Llandov	var. (Pent. lævis,	Sow.)	The second state of	L. Huron, Tennessee, Wisconsin.	ii ee ii ka
Onond. Salt Gp.	occidentalis, Hall. (8 var. porcata.	See Ort h	his occidentalis.)		Guelph Township (Can.W.)
Faunæ F, G. g. 1	optatus,	Barr. serling.			(Bohem.) Konieprus, Tetin. (Russ.) Rivers Yega-Lagra and Jezem.
CL	ovalis,	Hall.		(N. York) N. Hartford, Oneida County.	and sezem.
Faunæ F, G. g. 1	pelagicus,	Barr.			(Bohemia) Tetin, Luzetz
Fauna F U.Pentam. Lst					(N. York) Helderberg Moun
Llandov	reversus, B camerella.	Billings			tains, Canada.
Llandov., W	Brachymerus, Sha rotundus, So			Galway (Ireland)	Ferriter's Cove (Irel.), Wen- lock Edge, Malvern (Engl.)
	St. Hilairii, R. Samojedicus, Keys	louault.	France) Gahard.		(Gothland) Wisby. R. Vaschina (Arctic Russia)
	sculptus, Wali Sieberi,	mstedt.			Mid. Gothland. (Bohem.) Konieprus, Mnie
					nian, &c., Lower Loire (France). (Bohemia) ut supra.
	var. striatus,	Eichw.	•••••	North Ural	(North Ural) Bogoslovsk.
	tenuistriatus, Wali	mstedt.			(Boh.) Könieprus, Dvoretz. Mid. Gothland.
Niag. Car., L&U.Llan- dov.	trisinuatus, M'Cl	hesney.	Builsfield (Welchpool)	(Wales) Mathyrafal, Pen- lan, &c., (Shropshire)	Milwaukee (Wisconsin).
Delth. Sh. Lst	Verneuilli,	Hall.		Builth.	(Tennessee W.) Wayne Co. (New York) Helderberg Mountains.
?	Vogulicus, Vo	erneuil.			Thuringia, (N. & E. Ural) Petropaulofsk &c.
4-11-11-11	var. minor,	"			(Ural) Krasnoglasova &c.

V.Llandov Delth. Sh. Lst Niag Pleta Comparison of the comparison of	Pholidops, Hall, 185 equamiformis, Platystrophia, Kin, chama, Ei costata, Par recta, regularis, Sh Orthis lynx. striata, Par	Owen. 9 59. Hall. 18 19 19 19 19 19 19 19 19 19	9. (Orthis.) Spitham (Esthonia) Popova, Poulkova, &c. (Rus- sia), (Isle Oesel) Hohen- holm. Russia) Popova, &c.	Upper Mississippi River. Victoria (Australia). Nash Scar, Presteign.	" Lockport &c.
Pleta & Lst. with spyroxene. Pleta	Pholidops, Hall, 185 equamiformis, Platystrophia, Kin chama, Ei costata, Par recta, regularis, Sh Orthis lynx. striata, Par Spirif.Panderi, Vern Icheffkinii, Vern	Owen. 9 59. Hall. 18 19 19 19 19 19 19 19 19 19	9. (Orthis.) Spitham (Esthonia). Popova, Poulkova, &c. (Russia), (Isle Oesel) Hohenholm. Russia) Popova, &c.	Upper Mississippi River. Victoria (Australia). Nash Scar, Presteign.	" Lockport &c.
U.Llandov	Pholidops, Hall, 185 equamiformis, Platystrophia, Kin chama, Ei costata, Par recta, regularis, Sh Orthis lynx. striata, Par Spirif.Panderi, Vern Icheffkinii, Vern	baler. I	9. (Orthis.) Spitham (Esthonia) Popova, Poulkova, &c. (Russia), (Isle Oesel) Hohenholm. Russia) Popova, &c.	Victoria (Australia). Nash Scar, Presteign.	" Lockport &c.
U.Llandov	Pholidops, Hall, 185 ovatus, I squamiformis, Platystrophia, Kin chama, Ei costata, Par cecta, regularis, Sh Orthis lynx. striata, Par Spirif.Panderi, Vern Icheffkinii, Vern	7 59. Hall 19, 18 4 ichw. S nder. I	9. (Orthis.) Spitham (Esthonia) Popova, Poulkova, &c. (Russia), (Isle Oesel) Hohenholm. Russia) Popova, &c.	Nash Scar, Presteign.	" Lockport &c.
Pleta & Lst. with spyroxene.	recta, regularis, Platystrophia, Kin chama, costata, Par recta, regularis, Orthis lynx. striata, Spirif. Panderi, Vern Icheffkinii, Vern	59. Hall ag, 184 ichw. S nder. I	9. (Октніз.) Spitham (Esthonia) Popova, Poulkova, &c. (Russia), (Isle Oesel) Hohen- holm. Russia) Popova, &c.		" Lockport &c.
Delth. Sh. Lst 6 Niag. 8 Pleta 6 """ ? Pleta & Lst. with spyroxene. Pleta Pleta 0	recta, regularis, Platystrophia, Kin chama, costata, Par recta, regularis, Orthis lynx. striata, Spirif. Panderi, Vern Icheffkinii, Vern	Hall ng, 18 4 ichw. S nder. I haler	9. (Октніs.) spitham (Esthonia)		" Lockport &c.
Pleta Services Servic	equamiformis, Platystrophia, Kin chama, Ei costata, Par recta, regularis, Sh Orthis lynx. striata, Par Spirif.Panderi, Vern Icheffkinii, Vern	ng, 18 4 ichw. S nder. I haler	9. (Октніs.) spitham (Esthonia)		" Lockport &c.
Pleta	cecta, regularis, Orthis lynx. striata, Spirif.Panderi, Vern Ccheffkinii, Vern	ichw. S nder. I ,, (haler	Spitham (Esthonia)		(Isle Oesel) Kiddemetz.
Pleta	cecta, regularis, Orthis lynx. striata, Spirif.Panderi, Vern Ccheffkinii, Vern	ichw. S nder. I ,, (haler	Spitham (Esthonia)		(Isle Oesel) Kiddemetz.
,,	recta, regularis, Orthis lynx. striata, Spirif.Panderi, Vern Icheffkinii, Vern	,, (haler. I	Popova, Poulkova, &c. (Rus- sia), (Isle Oesel) Hohen- holm. Russia) Popova, &c.		(Isie Oeser) Kiddemetz.
,,	recta, regularis, Sh Orthis lynx. striata, Pan Spirif.Panderi,Vern Icheffkinii, Vern	,, haler	sia), (Isle Oesel) Hohen- holm. Russia) Popova, &c.		
? r Pleta & Lst. with s pyroxene. Pleta	regularis, Sh Orthis lynx. striata, Par Spirif.Panderi,Vern Icheffkinii, Vern	nder. I	holm. Russia) Popova, &c.		
? r Pleta & Lst. with s pyroxene. Pleta	regularis, Sh Orthis lynx. striata, Par Spirif.Panderi,Vern Icheffkinii, Vern	nder. I	Russia) Popova, &c.	(A-ti-ti) T-ti-Clim	
? r Pleta & Lst. with s pyroxene. Pleta	regularis, Sh Orthis lynx. striata, Par Spirif.Panderi,Vern Icheffkinii, Vern	nder. I	Russia) Popova, &c.	(A-titi) Tti- CU:00	
Pleta & Lst. with s pyroxene. Pleta	Orthis lynx. striata, Par Spirif.Panderi,Vern Ccheffkinii, Vern	nder. I	••••••••••••••••••••••••••••••••		
pyroxene. Pleta	striata, Par Spirif.Panderi,Vern Icheffkinii, Vern	nder. I		(Anticosti) Sunction Cim.	
pyroxene. Pleta	Spirif.Panderi, Vern Icheffkinii, Vern	nemil	Poulkova (Russia).		
Pleta	Icheffkinii, Vern		ourrota (reassa).	1	
	Orthisina.	neuil S	St. Petersburg (Russia).		
,,t		icui.	it I etersourg (Itussia).		
,,	The state of the s	ichw.	Esthonia) Spitham, Odins-		
	131	(holm Isle.	The second second	The second secon
1	Porambonites, Pan	nder. 1		13. 1	
Pleta			Réval (Baltic), Poulkova		the same of the sa
			(Russia).		
w	Capewelli David	dson	(Avussiu).		(Engl.)Malvern, Walsall, &c
	Retzia?	MOUII.			Wales,(N.York)Lockpor
	-1000101		Charles of the Control of the Contro		(Gothl.) Wisby, Mid. an
	erassa, Sowe	erby. V	Westmoreland, Wales.		South Gothland, Hobur
	Atrypa?		resultation relation		&c.
Pleta		ichw F	Baltischport, Réval, &c. (Es-		
	icioi miicus, 22	icii ii.	thonia).		
Fauna D	namifera 1	Barr C	Bohemia) Beraun.		
Llandovi			Donama Deraum	(S Scotl) Wrae Wales	
	morcedons, 2 in			Sweden, Russia.	
1	inea, Sh	arne (Portugal) Bussaco.	Sweeting Zentouni	
BL	Ottawaensis Bill	lings.	Can. W.) Middle Ottawa		
	Jenewheliero, 2011	mig.	River.		
Pleta with py-r	reticulatus. Par	nder. F	Poulkova (Russia).		
roxene.	cercumous, 2 in	inder.	Outhorn (Trussia).		
	Ribeiro, Sha	arne.	Portugal)Bussaco,Brittany.		
Corall. Lst S	Salteri, David	dson.			Isle Oesel (Baltic).
Pletat	eretior. Ei	ichw. G	Satchina, Poulkova(Russia),		
			Wichterpahl &c. (Estho.).		
Carad s	sp. ind. Se	alter. (Normandy) May, Budleigh		
		,	Salterton (Devonsbire).	La tradition of	
1	Pseudocrania, Me	Coy, 1			
	Rennselæria, Hall,				BEAUTY OF THE STREET
U.Pentam. Lst					(N. York, east and centra
					Cherry Valley &c.
Delth. Sh. Lst e	elliptica,	,,			(Y.Nork, east) Schoharie C
1	ævis.				(N. York) Albany County.
L. H. Gr	mutabilis,				(N. York, east) Albany &
				The second second	Counties.
,,?	ovoides,	,, .			(Can. E.) Cape Gaspé.
3	Retzia, King, 1849.				
Fauna F, W I		dson.			Benthal Edge (Shropshire
			and the second s		Bohemia, S. Gothland.
W1	Baylei, "	, .			(S. Gothl.) Hoburg, Oste
	The second secon				garn, Benthal Edge, Oes
					Isle (Baltic).
,,	var. Bouchardi, "			***************************************	(Gothl.) Wisby &c., Malver
					Dudley, &c.
c	euneata, D	Dalm.		South Scotland	(Wales) Plas Madoc.
	Rhynchonella.				
					New York.
Fauna F I					(Boh.)Konieprus, Mnienia
	Lewisii. David	dson			Wales.
Faunæ E, F r		Barr			(Bohemia) Mnienian.
Tr	nima. Sa	alter. I	asmania West (Milligan).		
L. H. G n	nultistriata, 1	Hall.			Canada.
Corall. Lst., W S					(England) Sedgley, Dudle
					Lincoln Hill, &c., (Is
					Oesel) Ficht &c., (Wales
4					Llandeilo, Gothland.
	oreno, Vern	neuil 8	pain (upper stage ?)		(France) Lower Loire, De
	or o		burn (abben amea.)		bray.

Subdivision.	Genus, Spe Autho		Lower Stage.	Middle Stage.	Upper Stage.
	Dhamahanal	la Eleakon	1809. Hemithyris, D'Orbi	annu .	
Delth. Sh. Lst	knynchonel	Hall	1000. HEMITHYRIS, D Oron	gny.	(N. York, east) Albany Co
Delth. Sn. Lst	aorupta,	Han.	***************************************		&c.
1. II T.		Fisher			(Isle Oesel) Ficht.
Corall, Lst Delth, Sh. Lst		Hall.		***************************************	(New York, east) Schohari
Deitii, Sii, Lst	acummata.,	Hair.			County &c.
Corall. Lst	acutidens	Eichw			Kamenetz (Podolia).
Delth. Sh. Lst					(New York, east) Schohari
Jeith. Sh. Lst	acutipiteata,	Hati.	***************************************		County, Gaspé (Can. E.)
	acutirostra,		New York.		
Carad		"	Chair of Kildare, Desert-		
ARROW	contains,		create (Irel.), Craighead		
	- 10.00		(S.W. Scotland), Cerrig-y-		
			Druidion (Wales).		
L. H. G., CL	equiradiata			Arisaig (Nova Scotia)	(New York) Oneida Count
in II. On, Can	Atrypa.	"	and the second s		
Pentam Lst					(New York) Helderberg
A CHURCH LISTER.	ecquiruiris.	"			Mountains.
auna F	Alecto	Barr			Bohemia.
H		Hall	New York		
Oelth. Sh. Lst		,,	Total		(New York, east) Albany C
CALLE CIL ASSULT	parent,	,,			&c.
auna F	Amalthaa	Barr			(Bohemia) Konieprus, Mni
udia F	- American	Dat I.			nian.
" D	ambigena		(Bohemia) Beraun.		
Llandov		McCov	(Donema) Deraun.	Mulock. Girwan (S.W.	
	and and the state of the state of	II Coy.		Scotland).	
H. R. G	Anticostiensis	Billings	Anticosti, Gulf St. Lawrence		to be a second of the second o
	- Little Contentions	2	(English Head &c.).		
Carad	aniculata	9	Chair of Kildare (Ireland).		
Niag		Verneuil		Russia	(N. York) Lockport, (Russ
	Terebratula.	r or nectari		2000000	River Vindau, Esthonia
Div. 4, A. Gr.,		Billings		(Anticosti) Challoupe Ri-	
Mayhill?	angentea,	Triting.		ver.	
Fauna F	Bancis	Barr			(Bohemia) Mnienian.
	beliula,	Giebel.			Lower Harz (Thuringia).
Faunæ E, F					(Bohemia) Beraun.
Delth. Sh. Lst					(N. York, east) Albany Co
	0.11	Lindström			Middle Gothland.
CL	hidens	Hall.		(New York) Lockport.	
Tr., Ut. Slate,			N. York, (Ohio) Cincinnati		(Podolia) Jarouga, Low
H. R. G., W.			&c Indiana.		Harz, (Gothl.) Djupvike
and the same of the same of					North Holland (drift).
?	Bischofi,	Römer			Lower Harz (Germany).
	bisulcata,	Emmons	New York Canada		
U.Llandov., W.,	borealis,	Schloth.		(England) Chirbury, Mal-	(Wales) Presteign, Merckli
U.L.				vern, &c.	(Engl.) Malverns, Dudle
					(Irel.) Derrymore Gle
				Control of the Contro	Ferriter's Cove, Kerry.
Delth. Sh. Lst	.,	Sharpe			(N. York) Schoharie, (Pen
					sylvania) Tioga.
M.Sa., W	brevisrostrum,	Hall		(Can. W.) Nelson, Col-	(Engl.) Woolhope &c.
				lingwood, Lake Huron.	
Carad	calyptycha,	?	Llan Mill, Narbeth (S. Wales).		
Delth. Sh. Lst.,		Hall			(New York, east) Helderbe
Scutella Lst.					Mountains.
Niag	camura,				(Canada W.) Dundas.
H. R. G	capax,	Conrad	Anticosti, English Head, &c.	The second secon	
			(Richardson), (Can.E.) St.		
			Grégoire, Ohio, (Indiana)		
			Madison, (Can. W.) West		
			Bay, Manitouline Island		
			(L. Huron), Savannah &c.		
n n	C .	100	(Illinois).		(Premes) Tomas Tains T
Fauna F	Ceres,	Barr			(France) Lower Loire, I
	10000				bray, (Bohemia) Mn
					(Roham) Konjangus Mn
"	. comata,	11			(Bohem.) Konieprus, Mn
					nian. Pentlands Haro Hill (See
L.L		.,,		•••••	Pentlands, Hare Hill (Scot
Fauna F	. Corinna,	Barr			
D: N D O	0	Dan	N 6 11 1777		prus.
Div. N, P, Queb	. Corinthia,	Billings	Newfoundland West.		
Gp. W	erobricosta	Somonh		(Wales) Tenewidd Llan	
***	Wilsoni?	Sowerby	***************************************		
	" usoni:		The second secon	dovery.	

Subdivision.		species, and thor.	Lower Stage.	Middle Stage.	Upper Stage.
Wer	rispata.	Sowerby			Woolhope, Radnorshire.
Llandov., W cu	ineata.	Hising., Dalm.		(S.W. Scotland) Ayrshire.	(Wales) Radnorshire, Pla
	Atrypa.			(Madoc, &c., (Engl.) Dud
					ley &c., (Scotl.) Pentland
					Hills, Ireland, (Bohemia
					Mnienian, (Gothl.) Wisb
					&c., (Podolia) Laskofski
					(N. York) Lockport, (Can
					W.) Thorold. (Norway Christiania, Wisconsin.
Faunæ E, F C	vhele.	Barr.		Bohemia	(Bohemia) Beraun.
Fauna E. e. 1 D	aphne.			(Bohemia) Beraun.	(2011)
U.L D	avidsoni,	M'Coy.			Wales, (Shropsh.) Wenlock
	hemisphær	ica.			
U.Llandov., W de	ecemplicata	. "			Wales.
		- 600		Malvern, Chirbury, &c	
Fauna E, Delth. de	oflava	Sowerby	·····	Réval (Baltic).	Wales, (Engl.) Walsall, Dud
Sh. Lst., W., L.	eneza,	Bowerby.	·····	***************************************	ley, &c., Middle & South
on, ason, iri, as				and the state of t	Gothland, Bohemia.
Pleta, Mid. Sil de	entata,	Hall.	New York, Tennessee, Ré-	North Oural.	Columna, Dominion
	4.5		val (Baltic, Eichwald).		
Carad., W de	epressa,	Sowerby.	(Wales) Merioneth, Brun-		Wales, (Malvern) Crewe'
D D C O		D (250)	bedwog.		Hill.
Fauna F. f. 2 D	liana,	Barr. (MS.)	Doubles (Prode)	••••••	(Bohemia) St. Ivan.
Carad., Corall. di	igitata, D.	de Leuchtenb.	Poulkova (Russia). (N.Wales)Yspatty,Evan,&c.,	(Nouv.) Christiania May.	(I Ossal) Hohanhaim Lod
Lst.	iodonta,	Daim.	Kirkeudbright, S.W. Scot-		
List.			land?	Australia.	Slitchamn, Faroe, Lansa
di	ubia ?.	Hall.	New York (U.S.A.).	224044444	Citterinini, 2 aros, 2 arris
CL er		.,		(NewYork) Sodus, Roches-	
				ter. &c.	
er	maciata,	Barr.			
D. lel. Cl. T.		77.11	••••		hemia.
Delth. Sh. Lst er	minens,	Hait.	***************************************	***************************************	(New York, east) Helderber, Mountains.
Fauna F E	Incharis	Rarr	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		(Rob.) Mnienian Konienrus
,, ,,E			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Div. 3, A. Gr., E	va.	Billings.		(Anticosti) East Point.	
Mayhill.					
	exigua,				(Gothland) Wisby.
Faunæ E, F fa		Barr.	·····		(Bohem.) Prague, Konieprus
Delth. Sh. Lst fo	ormosa,	Hall.			Mountains.
Div. 2, A. Gr., fr	ringilla	Billings.		Anticosti Isle, Gull Cape	
M.Sa.				(Gulf St. Lawrence).	
Carad fu	arcata,	Sowerby.		England, (Wales) Build-	(Irel.) Creaghmartin, Derry
and the same of				was &c.	more Glen.
Div. 2, A. Gr., gl	lacialis.	Billings.			
Llandov., M.Sa.		771.1	r: + P 11 - 6 /P	Gull Cape.	
Green-grained L. gl	lobosa,	Eichw.	Kipenet, Poulkova, &c. (Rus-		
De Hilliam de			sia), Isles Oesel and Dago, Réval, &c.		
Fauna E. e. 1 H	Iarnyi	Barr	Mevai, &c.	(Bohemia) Beraun.	
Faunæ E, F B					(Bohem.) Prague, Carlstein
Trh	emiplicata.	Salter.	(Can. E.) Lorette, Beauport.		
Fauna F H	Ienrici,	Barr.			(Boh.) Konieprus, L. Harz
Tr., H. R. G ir	ncrebrescen	s, Hall.	(Can. E.) L. St. John, Mon-		
			treal, (Can. W.) L. Huron		
			West, Moira River, Hum-		
			ber River, (N.W. Vermt.) Highgate Spring, New		
			York, Ohio, Indiana, Ten-		
			nessee, Wisconsin, Michi-		
10 9-1-			gan, Fort Garry (Rupert's		
	ATTE TO		Land).	n	
Llandov ir	nterplicata,	Sowerby.		Delves Green, Woolhope.	I-la Ossal /D-lat \ DV-14
Corall. Lst ir					Isle Oesel (Baltic), Ficht.
Delth. Sh. Lst ir		Hall.		(Anticosti) Gamacha Par	(New York) Albany County
Div. 1, A. Gr., J. Llandov.	anea,	Dillings.	***************************************	(Anticosa) Gamache Bay.	
	acunosa,	Vanuxem			New York.
W	ocunosa,	Linné.			Malvern, Wenlock (Shrop
			and the state of t		shire).
Cor. Lst., Schoh. la					
Fauna E. e. 1 la	ataginuata	Barr		(Bohem.) Prague, Beraun.	The second secon

Subdivision.	Genus, Spec Author		Lower Stage.	Middle Stage.	Upper Stage.
Faunæ F, G. g. 1	Latona	Barr.			(Rohemia) Tetin Branik
Carad., L.Llan- dov., W.				A STATE OF THE PARTY OF THE PAR	Konieprus.
Fauna F	linguata,				&c. Bohemia.
" E	Livonica, Von B	Buch, Barr.			Norway, Bohemia.
			South Wales		
	Mansoni,				(Arctic Seas, America) Wel- lington Channel.
Fauna F	matercula,	Barr.		Th. 1	(Bohemia) Konieprus.
" E. e. l Div. 4, A. Gr.,	Megæra,	Billings.		(Anticosti) The Improve	The second secon
Mayhill.	mica,	Dinings.		(Anticosti) The Jumpers.	
Fauna E	Minerva,	Barr.		(Bohemia) Beraun.	
H. R. G	modesta,		(Lake Huron) Cape Smyth, West Bay, Manitouline Island, Tennessee, Ohio.		
Fauna E	modica,	Barr.		(Bohemia) Beraun.	
" F	monaca,	Barr.			(Bohemia) Prague.
- 2 . 2 .	monas,				Konieprus.
L.Pentam. Lst	mutabilis, n. s.	Hall.			(N. York) Helderberg Mts.
0 1 11 11 11		N.O.	awa asa awa	na -	(Tennessee, W.) Wayne County, Gaspé (Can. E.)
Carad., W., U.L.	nasuta,	M'Coy.	(S.W.Scotl.)Girvan, (Wales) Llanfyllin.		
FaunaE, U.Llan-	navicula	Sowerby	Liamynin.	(Bohem Beraum (Engl)	Middle and South Gothland
dov., W., L.	navicula,	isometray.		Mayhill.	Norway, (Wales) Cefn Barog, Dinas, Bran, &c. Kendal,
Llandov., Niag.,	neglecta,	,,		England, New York, Nova	(Can. E.) Port Daniel, (Can
L. H. G.				Scotia, Mandinam (Wales).	W.)Dundas, Arisaig (Nova Scotia), New York, Wis consin, Indiana.
	Niobe?,		?		
Niag., W		Hall.			(New York) Lockport, Wol
U.Pentam. Lst	Atrypa.				cott, Wales, Gothland. (New York) Albany County
C.I citain. Lst	nooms,	"			&c., Pennsylvania.
L. H. G	nodostriata,	?			(Can. E.) Port Daniel.
Pleta		Eichw.	Poulkova (St. Petersburg).		
	nucella,	Dalman.	Russia.		
Delth. Sh. Lst	nucleolata,	Hall.			(New York) Schoharie and
U.Llandov., W.,	nnoula	Sowerhy		England (Wales) Mar-	Albany Counties.
Ü.L.	semisulcata.	Solicioy.			Park, &c., (Scotl.) Pent lands, (Irel.) Derrimore Glen, Kerry, (Wales)Llan rwst, Horeb Chapel, Russ. &c., Esthonia, Sweden, N
Div. 1, A. Gr Llandov.	nutrix,	Billings.		(Anticosti) Gamache Bay.	York?.
Fauna F	nympha.	Barr			(Bohem.) Mnienian, Konie
					prus, (France) Low. Loire Debray, Norway, Lowe
Barrier Britain					Harz.
" "	var. emaciata,	"			(France) Lower Loire, De
Faunæ E, G. g. 1,	obovata,	Sowerby.			bray, Bohemia. (Bohemia) Kozorz, Borek
2, Llandov., W., L.					Lodenitz, &c., (England
Llandov	obtusiplicata,	Hall.		Malvern, Mayhill, &c.,	? Ledbury, Dudley, &c.
CH	and and a Va	D'II	(C St T.) 35	(Wales) Presteign &c.	a Transfer Vision Inc.
CH			(G. St. Lawr.) Mingan Isles.		(Bohem.) Hlubocep, Dwo
L	pentagona,	Sowerby.			vetz, Lochkov, Konieprus Wales, Sweden, (Shropshire
	Pentlandica,	Haswell.			Church Stretton. Deer Hope, Pentland Hill:
,,					(Scotland).
THE SHALL BE	phoca,	Salter.			Arctic Seas (America), Cape King &c.

Subdivision.	Genus, Spec		Lower Stage.	Middle Stage.	Upper Stage.
СН	plena,	Hall.	(Can.E. & W.)Ottawa River, Montreal, Cornwall, &c., New York, Lake Winni- peg (Rupert's Land).		
M.Sa	plicata, Atrypa.	**	peg (Rupere a Dana).	New York.	
Corall. Lst	plicatella,	Dalm. Hall.		(N.York) Revnale's Basin.	(I. Oesel) Hohenheim, Fich
B., BL	Atrypa. plicifera,		(Can. W.) Camp d'Ours, L. Huron, New York, Penn- sylvania.		
L	Pomelii,	Davidson.	eyrrama.		Sweden, Lower Harz (Thuringia), Dudley, Sedgele
Fauna G. g. 3	postrema,				
" E. e. 1 Faunæ E, F, G.	prægnans, princens		······································		" Konieprus. (Bohem.) Tetin, Mnieniai
g. 1.	princepe,				Konieprus, Karlstein, &c (France) Lower Loire Thuringia.
?	species allied,	Billings.			(N. New Brunswick) Rest gouche.
Fauna F					(Bohemia) Konieprus.
	Proserpina, Psyche,	"	••••••		" "
U.Llandov	pusilla,	Sowerby.		(Engl.) Malvern, (Wales) Llandovery.	
A. Gr., Delth. Sh. Lst.	pyramidata,	Hall.		Liandovery.	(New York, east) Albany Co
Div. 2, Llandov.	Pyrrha,	Billings.		(Anticosti) Otter River.	(37 0 0 0 1 1 1 1 1
L. H. G. &c B., BL., Tr., H. R. G.	quadricostata, recurvirostra,	Hall.	N. Wisconsin (U.S.A.)? (Can.W.) Cape Smyth, (Lake Huron) Moira River, (Can. E.) Montreal, Lake St. John, New York, Ten- nessee, N.W. Michigan, Wisconsin, Anticosti.		(Nova Scotia) Arisaig,
CL	Atrypa.	"	Wilder and American		(N. York) Lockport, (Car W.) Flambro' W.
Delth, Sh. Lst M.Sa.	rugosa,			(Can. W.) Nelson Townsp.	(N. York, east) Hudson City
L. H. G					Tennessee, (Nova Scotii Arisaig.
Fauna E	Sappho, Scotica,	Barr. M:Cov	S.W. Scotland.	(Bohemia) Beraun	(Bohemia) Prague?
Fauna D	scrobiculosa,	Barr.	(Bohemia) Beraun?		TIO INVIEN
L.Pentam. Lst.,	secale, semiplicata,		````		(Isle Oesel, Baltic) Lodé. (N. York) Helderberg Mts
L. H. G.					Gaspé (Canada E.).
U.Llandov., L	Nucula.				Hagley Park &c. (England Lammermuir (S. Scotl.).
W		Commercial		(S.W. Scotl.) Saughhill.	
,,				Galway (Ireland).	
L. H. G Fauna E		Hall. Barr.		(Bohemia) St. Ivan	
Tr		Hall. Sowerby.	N. York (locality unknown).	(Norway) Christiania?	nian. (Middle Gothland) Wisb
,	sphæroidalis,				England?. New York, (Engl.) Irelet Lancashire, Church Stre
Delth. Sh. Lst	Stricklandii,	Sowerby.			ton, Dudley, Ledbury. (N.York) Schoharie Count. (Engl.) Dudley, Malver. (Wales) Presteign, Us &c., (Can. E.) Port Danie
	sublepida,	Verneuil.			(Arctic Seas) Wellingto
L.Llandov., W	subundata,	M'Coy.		(Wales) Mathyrafal &c	
Tr Delth. Sh. Lst Fauna F	sulcoplicata,		(N. York) Lewis County.		(N. York) Albany County.

Subdivision.	Genus, Speci-		Lower Stage.	Mi	ddle Stage.	Upper Stage.
Fauna F	tanda	Rave				(Bohemia) Prague, Beraun
Ning	Tennessee-ensis,					(Tennessee W.) Decatur C
Faunæ F, G. g. 1						(Bohem.)Chotecz,Koniepru
Fauna E	Thisbe.					(Donelli) Chorces, Rome pra
Delth. Sh. Lst	transversa,	Hall.				(New York, east) Helderber Mountains.
Llandov	tripartita,	Sowerby.		England,	(Wales) Golen-	Mountains.
Niag	tumida	Hall?	•••••	goed.		New York.
Fauna E. e. 1	umbra.	Barr.		(Bohemis	a) Beraun	TOTAL
" E. e. 1 ?,	upsilon,	,,	Wales (M'Coy), Pwllheli	"	"	
Carad. Delth, Sh. Lst	vellicata.	Hall.				(N. York) Albany and Scho
						harieCounties,(North Ne Brunswick) Restigouche.
Fauna F	velox.	Barr				(Bohemia) Mnienian.
U.Pentam. Lst		Hall.	·····		· · · · • • • · · · · • • · · · · · · ·	(New York, east and centra
		W-1991				Cherry Valley.
Div. 4, A. Gr., Mayhill.		Billings.		(Anticost	i) S.W. Point.	
Fauna F	volitans,	Barr.				Bohemia.
Llandov., W., L.,	Wilsoni,	Sowerby.				
L. H. G., Niag.				(Irel.)	Cong, Galway.	E.) St. Helen's Isle, Tennessee, New York, (Engl
						Dudley, Aymestry, (Scotl
			The second second			Pentland Hills, Ireland
			Many III			Wales, Middle and Sout
						Gothland, Norway, Esth nia, Bohemia, Silesia, Ru
						sia.
	sp. ind.,	Salter.				Arctic Seas (America).
~	21		Great Barr, Staffordshire.			
Carad	**	"	(Caernarvon) Carnadd Da- fydd.			
	,,		Tasmania West.			
		Meek.				Kennedy's Channel (Arct
?				Y71		America).
	Rhynchospira	Selwyn.	us of Trematospira), Hall,	Victoria	Australia).	RHYNCHONELLA of authors,
	æquiradiata,	Hall.	New York (U. S. America).	1000.	LEREBRATULA &	Hall
Delth. Sh. Lst		,,				(New York) Albany County
L. H. G	Waldheimia.		The same of the same of the same			(Tennessee) Wayne County
L. II. G	Waldheimia.	,,,				(Tennessee) wayne Count
,,		**				(Tennessee W.) ,, ,,
	sinuata,	"				Nova Scotia.
Tomas W	Siphonotreta,	Verneuil,	1845.			Dedler (Freland)
Carad., W	Anguea,	Morris.	Sunny Banks, Coniston (Lan- cashire).	***********		Dudley (England).
Jan	micula,	M'Coy.	(Ireland) Meath, England,			
A CONTRACTOR OF THE PARTY OF TH			(S.W. Scotland) Glenkiln,			
			Dumfriesshire, (Wales)		*	
			Conway, Builth, &c., Mel- bourne, Deep Creek (Au-			
			stralia).			
Pleta	unguiculata,	Eichw.	(Russ.) Lake Ladoga, Poul-			
			kova, (Esthonia) Réval,		LIMIT .	
	Varminoen	1 2000	Odinsholm, &c. Poulkova &c. (Russia), Es-		11.00	
33	verrucosa,	",	thonia.			
	sp. ind.,			Victoria (Australia).	
	Skenidium, Ha	ll, 1860.	Smarry on the same of the same		1	Tonnocco (T. C. 1
Niag.	insignis, pyramidalis					
	sp. ind.,		Tennessee (U. S. America).			" "
	Spirifera, Sower	by, 1820.	(Delthyris, Dalman; Br	ACHYTHYR	18 &c., M. Coy).	
	æquirostris,	Verneuil.	(Russia) St. Petersburg, (Es-		THE PARTY OF THE P	
	var. æqualis,	U DESCRIPTION OF	thonia) Paggart.		ILLEY CO.	
	var. deformata,		(Russia) D'Erras &c. Russia.			
TT CI			Atuesia.			(Can, E.) Cape Gaspé, De
. H .G						vonian in New York.
	D 11.2					Cantle Cathland
	Baltica,					South Gothland.
		Verneuil.				

Subdivision.	Genus, Species, and Author.	Lower Stage.	Middle Stage.	Upper Stage.
Carad.,Tr., = Ut. Slate, H. R. G., CL., Niag.	Orthis.	New York, Tennessee, Up Mississippi River, Russia (Wales) Llandeilo, Bala &c., (Westmoreland) Ra- venstone Dale.		New York.
W., L	var. bijugosa, M	Coy		Creaghmartin, Doonquin Ferriter's Cove (Ireland)
Pleta		chw. (Russ.) St. Petersburg, Réval (Baltic).	-	Territor o cove (Erciana)
Carad., Pleta	., dentata, Pan	der. (Russia) St. Petersburg (Lancashire) Coniston Llanwddn (Wales).		
Tr	,, lynx, Ei	chw. (N. York) Middleville &c. Tennessee, Ohio, Canada Indiana, Iowa, (Wisconsin		
Niag	biloba, Cor	Mineral Point, Norway.		(New York) Wolcott, Lock
?	Bischofi, Rö	mer		port, &c. Lower Harz (Germany).
		sing.		(Gothland) Wisby, Djupy
	caudata, Sowe	erby		ken. (Sweden) Gothland.
Fauna E. e. 1	colubri, I	Barr	. Bohemia.	
L. H. G	eoncinna,	Iall		(New York, cast) Helderber Mountains.
Car., Llandov., W., L.	crispa, Hi	sing.	. Wales, Ankerdine Hills (Shropshire).	(N. York) Schoharie Count Lockport, Lewiston, (Ca E.) Port Daniel, Cap
				Gaspé, (Can. W.)Thorol Arctic Seas (Amer.), Is Oesel (Baltic), Norwa (Sweden) Djupviken, Lo Harz, (Wales) Llangolle (Engl.) Malvern, Clu gunford, (Irel.) Doonqu
L. H. G	cycloptera, l	Hall.		&c., (Scotl.) Pentlands. (New York, east) Helderber Mountains.
W., L., Niag	cyrtæna, D plicatella.	alm.		New York, Gothland, (Eng. Dudley, Benthal Edg
Niag	decemplicata, I	Hall.		Ledbury. (New York) Lockport.
Fauna G. g. 1	deperdita, I	Barr		(Bohemia) Karlstein.
Carad., Corall. Lst.	dimidiata, Ei	chw. (Esthonia) D'Erras		Kaminetz (Podolia).
	elegantula, l	Hall. Upper Mississippi River Tennessee, L. Winnipeg Fort Garry(Rupert's Ld.)	5,	
U. & L.Llandov., W., L., Down- ton Sandastone.		alm	(Engl.) Tortworth, May- hill, Huntley Hill, &c.	(Wales) Plas Madoc, Llar rwst, &c., (Engl.) Dudle Walsall, Benthall Edg Kendal, &c., (Gothlam Djupviken, Hoburg, & (Norway) Christiania, Oesel (Baltic), Dingle & (Ireland).
		Hall.		Wisconsin (U. S. America
Tr. U.Llandov., W.,	exporrecta, Wah	,, Wisconsin (U. S. America)	. Coosathorrig, Bull's Head	Gothland.
L. Fauna E. e. 1	trapezoidalis.	Barr.	(Kerry). Bohemia.	
Faunæ F, G. g. 1	falco,	,,		(Bohemia) Mnienian, Koni prus, Tetin.
Fauna F		ebel. Barr.		Lower Harz (Devonian?). (Bohemia) Konieprus.
Niag	gibbosa,	Hall.		New York, Wisconsin.
Fauna F. f. 2		IS.).		(Bohemia) St. Ivan. (New York) Cherry Valle
Delth. Sh. Lst Niag	The state of the s	rad. Hall		Wisconsin.
Fauna F Faunæ F, G. g. 1,	indifferens, 1	Barr		(Bohemia) Mnienian. (Bohem.)Chotecz,Koniepre
H. h, i.		"		Franta, Pekarkovitz.
Fauna E. e. 2		IS.).		(Bohemia) St. Ivan.
W	plicatella. Sowe	rby.		Sweden, (Engl.) Westmor land, Aymestry, Woolhop Wales, (Irel.) Doonquin &

Subdivision.	Genus, Species, and Author.	Lower Stage.	Middle Stage.	Upper Stage.
	intermedia, Barr.			Bohemia, Sardinia.
	lineata, Hall.			Upper Mississippi River,
				Wisconsin (L. Michigan
Delth. Sh. Lst.,	macropleura, Conrad.			(NewYork)Helderberg Mts
L. H. G.	Niagarensis, var. oligo-			(Tennessee) Wayne Co
	ptycha.	The second second second	The second secon	Pennsylvania, Maryland.
	Marklini, Verneuil.			(Gothland) Wisby.
	microptera, D'Archiac.		Sardinia.	
L. H. G				Cumberland Co.(Maryland
				Wisby (Gothland).
	Cyrtæna.		The state of the state of the state of the	
Faunæ E. e. 1, F				(Bohemia) Mnienian.
" "	Naiadum, ,,			(Boh.) Konieprus, (France
	N			Nantes.
CL., Niag. "	Nerei, ,,		G 3	(Bohem.) Prague, Koniepru (Can. W.) Thorold, Rock
CL, Nag	Magarensis, Conrad.	***************************************	Canada	wood, (N. York) Wolcot
				&c., Tennessee, S. Wiscon
11				sin, N.W. Michigan.
Fauna E. e. 1	nobilis Barr.		(Rohamia) Raraun &c	om, and an installed
" E. e. 2	nucula. Barr. (MS.)		(Donema) Deraul &c.	Kozel (Bohemia).
L. H. G	octocostata, Hall.			(Maryland) Cumberland Co
L. & U.Llandov.,	octoplicata, Sowerby.		South Wales	(Irel.) Ferriter's Cove &c
W.				(Engl.) Abberley, Dudley
				North Gothland.
Carad., Llandov.,	ovata, M'Coy.		(Irel.) Cong, Galway, &c.	The second second second second
W.				
L. H. G	pachyoptera, Conrad.			(New York) Cherry Valley
		The state of the s		Canada.
	pachyrhyncha, Verneuil.			Ural, R. Serebrianka (passe
				into Devonian).
Pleta with green	Panderi, "	St. Petersburg (Russia).		Epitement of the second
grains.	, 11 H		THE RESERVE OF THE PARTY OF THE	ON THE OWNER OF
L. H. G	perlamellosa, Hall.			(New York, east) Helderber
				Mountains, (Tennessee
P 1	D		D.1	Wayne County.
Fauna E. e. 1	perversa, Darr.			
" " 9	petasa, piper, Eichw.		(Bonemia) Beraun.	(Ural, N.) Bogoslovsk, Isl
	piper, Islenw.			Dago (Baltic).
w	nisum Sowerhy			Walsall (England).
	(see Nucleospira).			Transan (Inglant):
L. H. G	plicata. Hall.			(New York) Schobarie Co.
L. & U.Llandov.,	plicatella, Linn.		New York. (Anticosti) S.W.	(Engl.) Malvern, Dudley
W., L.	tenuistriata, Shaler.		Point &c., (Wales)Llan-	
6			gadock, Welchpool, (Ire-	
			land)Bull'sHead, Kerry,	teberg &c., Norway, Rus
			(England) Mayhill.	sia, Esthonia, I. Anticost
1 3 3 3 3 3 3		and the second second	The second second	Canada W., (N. York) Ge
				nessee Falls, Wisconsin.
W., L	var. interlineata, Salter.			(England) Dudley, Ludlow
I I land - W		0-1-1 D	(0-1) 0	Creaghmartin (Ireland).
L.Llandov.,W	" radiata, Sowerby.		(Galway) Cong &c	(Engl.) Malvern, Ledbury
w	" globosa, Salter.	Welchpool.		Abberley, &c.
	,, globosa, Salter.	***************************************	***************************************	Dudley (Engl.), Mid. Goth land.
Faunæ E, F	pollens. Barr.		Rohemia	Bohemia.
Laure Ly D				
Pleta		N. Russia, Norway, Sweden.		Table (Greet).
	var. rotunda, "	St. Petersburg (Russ.), Nor-		and the last of the last of
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	way.	Control of the control of	The state of the s
	" subrecta, Verneuil.			Description of the second of t
Fauna E (base).	Proteus, Barr.	Technica.	Bohemia.	
and the same of th	ptychodes, Dalm.			(Gothland) Vamblingo.
L. H. G	puncto-striata, Hall.			New York.
" "	punctulifera, Conrad.			(Tennessee W.) Wayne Co.
				(Can. E.) St. Helen's Isl.
Lance of the second				(Gothland) Klinteberg.
Niag	pyramidalis, Hall.			(New York) Lewiston, (Can
				W.) Thorold.
Racine = Niag				Racine (Wisconsin).
CL., Niag., W., L.	radiata, Sowerby.		(Anticosti) Jupiter River.	Keeper's lodge, Golden Gr
				(Wales), Dudley (Engl.)
		Maria Company	The second secon	N. Gothland, Chicago (Il
		Contract of the Contract of th		linois), (N.York) Lewiston
				&c., (Can. W.) Thorold.

Subdivision.	Genus, Species, and Author.	Lower Stage.	Middle Stage.	Upper Stage.
	recta, Pander	St. Petersburg (Russia).		
L. H. G	rugæcosta, Hall			Arisaig (Nova Scotia).
	rugosa, ,,			Tennessee (U. S. America)
Delth. Sh. Lst	Saffordi, ,,			(Tennessee) Decatur Count
	Colonida: Tiplotic			(N. York) Becraft's Mtn
	Schmidti, Lindström			Middle & South Gothlan
Fauna F	secans Barr			Hoburg, Ostergarn. (Bohemia) Konieprus &c.
	Selcana, Giebel			Lower Harz (Germany).
	sericea, Römer			
Viag	similior, Winchell & Marcy			Chicago (Illinois)."
	speciosa, Schloth			(Irel.) Ferriter's Cove, Kern
Fauna E, W			(Bohemia) Beraun &c	Bohemia?, Gothland, Low
	= subspuria, M Coy.			Harz, West of Ireland.
				Bohemia. (Middle & South Gothlan
	striolata, Linustron	• • • • • • • • • • • • • • • • • • • •		Hoburg &c., Faro 1s
				Lansa (in Sweden).
Fauna F	strvx. Barr			(Bohemia) Mnienian.
				Lower Harz (Germany).
L. H. G	subsulcata, Hall			Arisaig (NovaScotia), (Got
				land) Bödahamn.
Niag., L. H. G.	sulcata, Hising			Britain, Ireland, Bohem
&c., Fauna E,				(N.Gothland) Temple N
W.				&c., Norway, Isle Oes
				Lodé, &c. (Baltic), Pen sylvania, New York, N.
				Michigan.
Faunæ F, G.g. 1	superstes Barr			(Bohemia) Dvoretz, Kon
cuante 1, org. 1	superses, Dan			prus, Lochkov.
Fauna F				Bohemia.
	tenuicosta, Eichw	. Réval (Baltic).		And the same of the same
Delth. Sh. Lst.,				(Tennessee) Decatur C
Up. Div. F, An-				(Anticosti) S.W. Poi
ticosti.				(Shaler).
Carad	terebratuliformis, M'Coy	. Cumberland, (Irel.) Chair of		
		Kildare, Portrane, Dub- lin, Sardinia.		
Fauna F	Thetidis, Barr			(Bohemia) Konieprus
FaunæD,E(base),		Bohemia (colony, Zippé)	(Bohemia) Beraun &c	" Beraun, Koniepri
F		control (control) and project	(20010111)	,,
?	toreno, Verneui	France, Spain.		
U.Llandov., W.,			(Wales) Builth &c., Shrop-	(Engl.) Dudley, Woolho
L.	=exporrecta, Wahlenb.		shire, Malverns, &c.	&c., (Wales) Golden Gr
	*			Usk, &c., Upper Miss sippi, Ireland, Norwa
				(Swed.) Wisby &c., (Bo
				Litten.
Faunæ F, G, g. 1	Triton. Barr	·		(Boh.) Konieprus, Chotec
Carad., W	tridens, M'Coy	Tramore (Waterford)	Cong (Galway).	
Fauna F	tyro, Barr			(Bohemia) Konieprus.
Tenta.L., L.H.G.	Vanuxemi, Hall	L		(N.York, east) AlbanyCo.
L. H. G	varica, ,,			New York, N.W. Michig
				(Lake Superior).
	ventricosa, "		***************************************	(New York) Cherry Valle Schoharie & Carlisle Co
Faunæ E, F?	viator Pan		Bohemia	(Bohem.) Prague, Koniepr
Corall. Lst				(Isle Oesel, Baltic) Hohe
COLUMN ASSET THEFT	acomer			eichen.
Delth. Sh. Lst	undulata, Conrad	L		(N.York) Schoharie Coun
	Uralo-altaica, Grunewald		(Silie. Lst.) Bogoslowsk.	
?	sp. ind., Selwyn	L	Victoria (Australia).	D 1 1/21 0 771
ar.	" (many), Stuchbury	?	N V L W G	Berrigal (New S. Wales).
CL		L		Davenment (Illimais)
Niag	Spirigerina, D' Orbigny			Davenport (Illinois).
	imbricata, Sowerby	/- -	Russia	14
	nitida, sowerby			
				(France) Lower Loire.
Highest part	undifera, Schmidt	. Borkholm (Esthonia).		
6 P	Stricklandinia, Billing	s = Stricklandia, 1859. (A	form of Pentamerus, J.	W.S.)
P., Queb. G	arachne, Billings	Point Lévis (Canada East).		AND STATE OF THE S
,, ,,	Arethusa, "	" "		
	Canadensis, ,,			(Canada West) Thorold.
Div. 3,4, Anticosti	var. brevis, , ,,			
Gr.			Sweden.	

L. & U.Llandov., Div. 3, Anti- costi Gr.			. Coniston(Lancash.), (Wales Mandinam.	(Anticosti) Jupiter Rive &c., Sweden, (England Shropshire &c., (Wales Meiford &c., Russia.	
Llandov., W., Divs. 3, 4, An- ticosti Gr.	lirata,	"			Woolhope.
Delth. Sh. Lst	Strophodor Beckii,	nta, Hall, 18 Hall, Meek.	52.		. (NewYork, east) Helderberg
,, ,,	Cavumbona,	Hall			Mountains.
	Headleyana,	"			
T 77 0 "	Leavensworth	iiana, ,,			. "
L. H. G CL.		**		(N. York) Oneide Country	
L. H. G		",	***************************************	(N. 10rk) Oneida County	(New York, east) Helderberg
	paneraniera,	"	The state of the s	Account to the second	Mountains.
Corall. L., Schoh.		,,			(New York) Schoharie Co.
Tentac. Lst., L.	varistriata,	"			(New York, east) Schoharie
H. G., Pent. Lst. Delth. Sh. Lst.	var. arata,				County &c. (New York, east) Becraft's
(in a crystalline	Titt articus,	"	***************************************		Mountain &c.
band).					
Delth. Sh. Lst	Woolworthian	ıa, ,,			(N. York, east) Helderberg Mountains.
-	Strophome	na. Rafineso	ue, 1820?. (Leptagonia,	M'Coy: ORTHIS, auctorn	
Carad., Llandov.,	alternata,	Conrad.	(Anticosti Isl.) Heath Point	Canada, New York, Eng-	
CH., H. R. G.,	Anticostiens	is, Shaler.	(Can. E.) Lake St. John		
Divs. 1, 2, 3, 4, A. group.			Mingan I., Montmorenci Montreal, Murray Bay		
A. group.			Cape Smyth (L. Huron)		
			N. York, Tennessee, Wis-		
			consin (Illinois), Dunleith		
4			(Scotland), (Engl.) Actor		eff and the
			Scott &c., (Irel.)Portraine, Dublin, (Wales) Madryn		
			Park, Llanfyllin.		
	lterni-radiata		(01.1.) (01.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	(AnticostiIsle) S.W.Point	
I. R. Ga	iterni-striata,	Hall.	(Ohio) Cincinnati, (Ken- tucky) Maysville &c.	A STATE OF THE STA	
Carad., Llandov., a	ntiquata,	Sowerby.	Coniston (Lancashire), Wa-	Llandovery, Bogmine, Ma-	Pentland Hills (Scotland),
W., Divs. 2, 3,	scabrosa.		terhead, (Ireland) Chair	thyrafal, Haverfordwest,	(England) Wenlock Edge.
A. G., Llandov., Mayhill.			of Kildare, (Wales) Blaen- y-Cwm, Rhaider, &c., River	Prinsta Bay &c., Scot-	Walsall, Ledbury, &c., (Wales) Pen-y-lan.
Mayiiii.			Chatte (Gaspé).	land.	(wates) ren-y-lan.
J.Llandov., W., a	pplanata,	Salter.	······································		(England) Longmynd, Deer
L.				Usk, Builth, &c.	Hope, Pentland Hills
a	ranea,	"	Niti Pass (Himalaya), Dam- chen &c.		(Scotland).
	rcuata,	Shaler.		Anticosti Isle.	
J.Llandov a	renacea,			(England) Mayhill &c.,	Part of the second
I. R. G	rothusa	Billings (Anticosti Isle) Cape Obser-	(Wales) Presteign.	
	a curusa,	Dinings. (vation.	(it dies) I resteign.	
leta &c A	smussi,		Esthonia, passim.		
Divs, K, L, M, N, A	urora,	Billings. (Newfoundl. N. & W.) Point		
P, Queb. G. H. G	Beckii.	Hall	Rich &c.		(Can. E.) Cane Gasné
auna G. g. 1 b	ellula,	Barr.		· · · · · · · · · · · · · · · · · · ·	
.Llandov b	ipartita,	Salter. (England) Horderley	Wooltack, Pembrokeshire.	
orall.Lst., Scho. bi	alternata.	Hall			(N. York) Schobario Country
	isecta,		Viti Pass (Himalaya), Bom-		(2.1.2 Ora) Cononarie County.
			pras, &c.		
rea	amerata,	Conrad.	New York) Trenton Falls,		
arad ea	incellata.	Portlock (Canada. Ireland) Tyrone.	The state of the s	
	Orthis.				
elth. Sh. Lst ca	vumbona,	Hall			New York) Albany and Co-
			AND DESCRIPTION OF THE PARTY OF		lumbia Counties.
R.G., Llandov. Co	eres.	Billings (Anticosti Isle) Charlton Pt.	Anticosti) East Point	

Subdivision.	Genus, Species, and Author.	Lower Stage.	Middle Stage.	Upper Stage.
CL		ll. y. (Shropshire) Acton Bushnell,		
Pleta, Car., U. Llandov., W.	compressa, ,,	(Wexford Co.) Tramore. (Shropshire) Horderley, Gt Barr (Staffordshire), Ty- rone (Irel.), Llangollen (Wales), Esthonia, Isle Dago, Tortworth (Glou- cestershire).	shire) Norbury &c.	(Engl.) Slate Mill, Hasguard (Wales) Wooltack Bay Moel Seisiog, (Irel.) Fer riter's Cove.
Carad	concentrica, Portlo	k. (Irel.) Tyrone, (England) Shrewsbury.		
Pent. L., L.H.G. Carad., Llandov., W.	corrugata, Portlo	k. (Tyrone) Desertcreate, Wa- terford, (Westmoreland) Leisley, (Wales) Golden Grove and Merigomish.	(Nova Scotia) Arisaig	(Wales) Craig-y-garcyd.
	deltoidea, Conra	d. (Wisconsin) Mineral Point. (Portugal)Bussaco, Coniston (Lancashire), Horderley (Engl.), (Wales) Meifod, Esthonia, (Can.) Malbay, Montreal, New York, Mis- souri, N.W.Michigan, Falls of St. Anthony (Minn.).		Middle and South Gothland
	var. β undata, "	(N. & S. Wales) Llandeilo, Bala, Wrexham, &c.		
Carad., U.Llan- dov., W., L., C.L., Niag., Del. Sh. Lst.	rhomboidalis.	y. Chair of Kildare (Ireland), (Engl.) Sedberg, (Wales) Carned Defydd, Snowdon, &c., Ohio.	New York, Upper Mis-	Isle, Canada, New York Tennessee, Missouri, Soutl Wisconsin, (Engl.) Mal- verns, Walsall, Ludlow Westmoreland, (Wales Lansannan, (Ireland) Fer riter's Cove &c., Bohe mia, Gothland, Gembloux
?			(Bohem.) Prague, Beraun.	(Belgium) (Barrande).
?	" Goldfussiana, " " vulgaris, "			(Boh.) Konieprus, Mnienian
		r. d		(Arctic Amer.) Griffith's Isl (N.Y.,central) Herkimer Co (Bohem.) Mnienian, Dlauhs Hora, Hlubocep, Kozorz Lochkov, Dvoretz, Hostin Tetin, St. Ivan.
L. & U.Llandov., W., L. & U.L., Fauna E. e. 1.		n. N. Gothland, Bohemia, Norway, Esthonia, St. Petersburg (Russia).	mia, (Wales) Pen-y-lan &c.	(Irel.)Ferriter'sCove, (Engl.) Dudley, Leintwardine, &c., Bohemia, (W.)Lansannan, Mid., S. & W. Gothland.
Carad	expansa, Sowerb	y. (Wales) Pentref, Penmachno, (Shropsh.) Horderley &c., ChurchStretton &c., West- morel., Coniston (Lancash.)	(Wales) Mathyrafal, Eng- land.	Thuringia (Iasche)? &c.
CH H. R. G		l. (N.York, N.E.) Chazy Village. (Can. W.) Cape Smyth &c., Lake Huron, Mid. Ottawa River, New York, N.W. Michigan, England.		
Pleta, W.,L.L	Orthis.	y. (Russ.)St.Petersburg, Tosna, Dunabrattin, Waterford.		(Wales) Usk, Park Lane, GoldenGrove, Llandovery, &c., (Engl.) Shropshire, White Cliff, Ludlow, Ken- dal, Wenlock, Dudley, (Irel.)DerrymoreGlen &c., Mid. & South Gothland,
Tr., H. R. G	Fischeri, Murcl pseudo-Fischeri,Schmid fluctuosa, Billing			South Gothland.
Fauna E, Llan- dov., W., L.L.	The state of the s	ticosti) Charlton Point.	Sardinia, Wales, Ireland.	(Canada E.) Point Daniel, Dudley (Engl.), (Wales) Denbighshire, Lansannan, &c., Bohemia, Mid. Goth- land, Norway, (Ireland) Ferriter's Cove &c.

Subdivision.		Species, and athor.	Lower Stage.	Middle Stage.	Upper Stage.
Tr., H. R. G., Carad.	grandis, cancellata	Sowerby.	NewYork, (Ohio)Cincinnati, (Engl.) Ravenstone Dale, (Westmorel.) Shropshire, Acton Scott, &c., Glouces- tershire, Mayhill, Ireland, Tirnaskea, (Russia) Gats- china, (Esthon.)Lyckholm &c., (Wales) Llanfyllin &c.		(New York) Genessee Falls
	halo,		Niti Pass(Himalaya), Milam, &c.		
L. H. G					(New York, east) Helderber, Mountains.
H. R. G Div. P, Queb. G.	imbecillis,	Billings.	Isl. Anticosti (G. St. Lawr.). (Newfoundland W.) Port- land Creek.		
Pleta,H.R.G.,W.	imbrex,		(Isl. Anticosti) Cape Robert, Norway, Russia.		Dudley, Malvern, (Wales Craig-y-garcyd, (Ireland Ferriter's Cove.
	impressa,				
CH., B., BL., Tr., H. R. G.	incrassata,	Hall.	Mingan Isles (G. St. Lawr.) Pennsylvania, Wisconsin, Canada, New York, Ten- nessee.		
Delth. Sh. Lst	indentata,	Conrad.			(N. York, central) Herkime
Carad Dıv.4, A.G., May-	Julia,	M'Coy. Billings.	Bardahessiagh (Tyrone). Chair of Kildare (Ireland).	(Anticosti) The Jumpers.	County.
hill. Delth. Sh. Lst	Leptæna, Leavenswor	Shaler. thiana, Conrad.			
Divs. 2, 3, Anti-	Leda,	Billings.		(Anticosti) East Point.	Mountains,
costi Gr.	lineatissima		Niti Pass (Himalaya), Kala- jowar.		West of the second
	Lovéni, lunata,				Wisby (Gothland). Ferriter's Cove &c. (County
			The state of the s	A CONTRACTOR OF THE PARTY OF TH	Kerry).
Niag Pleta, with py-		Winch. & Mar. Lindström.			Chicago (Illinois). (West and Middle Goth
roxene.					land) Wisby.
H. R. G	nitens, nubigena,	Billings. Salter.	(Anticosti) Charlton Point. Niti Pass(Himalaya), Upper Rimkin.		
Onond. S. Gr	obscura, orbicularis,	Hall. Sowerby.	New York, N. Wisconsin,		New York. Mid. Gothland, Bohemia.
w		Davidson.	(England) Cornwall.		Dudley (England).
U.LCH.	orthididæa,	Hall.	New York (U. S. America).		
W	Ouralensis,	Verneuil.		N V1 (II O 1	Presteign (Radnor).
CL. H. R. G., M.Sa., L. H. G., Car., Llandov., W.,	pecten,	Sharpe, Linn., Hising.	(Wales) Capel Cerrig &c.,	Bohemia, (Shropshire) Ch. Stretton &c., Cong, Gal- way (Ireland), (Wales)	(Irel.) Ferriter's Cove, Pent- land Hills(Scotl.), (Engl. Dudley &c., (Wales) Pres
L.L., Fauna E. e. 1.			Norway, South Bay, Mani- touline Isl. (Lake Huron).	ticosti passim. Upper Mississippi River.	lingbo, Isle Oesel, Picl tendahl,&c. (Balt.), (Goth land) Klinteberg &c., Nor way, (Can. W.) Thorold Tennessee, New York.
Carad., Llandov., W.	,,	Dalm.	Westrogothia, Norw., Wales, (Russia) Lapoukhinka.	Wales	New York, Tennessee, Uppe Mississippi River.
L. H. G Fauna G. g. 1, W.		Billings? Barr.	(Kussia) Lapoukiinka.		(Canada E.) Cape Gaspé.
Divs. 2, 3, 4		Billings. Exa, Hall.	Wisconsin, Ohio, Indiana, Kentucky, New York, Fort Garry, Lake Winnipeg		
	planulata,	Billings.	(Rupert's Land). (Canada E.) Gaspé.		and the Viscolian Committee

Subdivision.	Genus, Sp Auth		Lower Stage.	Middle Stage.	Upper Stage.
Tr., H. R. G	plicifera,	Hall	Canada, New York, Ohio, Kentucky, Indiana, Sa- vanna (Illinois), St. An- thony (Minnesota), (An- ticosti)Charleton Point, W. Bay, Manitoul. I., L. Huron. (New York, N. E.)Clinton Co.		
CL	profunda,	"		4 1 1 /4/ /4 11 1	Wisconsin.
Delth. Sh. Lst	punctulifera,	Conrad		Arisaig (Nova Scotia).	(NorthNew Brunswick) Res tigouche, (N. York) Her kimer &c. Counties, (Can
Delth.Sh.Lst. &c.	radiata,	Hall			E.) Cape Gaspé. (New York, central) Herki
Faunæ F, G. g. 1	rariuscula,	Barr			mer County &c. (Bohemia) Dvoretz, Loch
B., BL., Tr	recta,	Conrad	Mineral Point (Wisconsin), New York, (Canada W.) Ottawa City.		kov, Slichow.
L. H. G	recti-lateris,	,,			(N. York, central) Herkime County.
Div. D	reticulata,	Shaler.		(Anticosti Isle) Ellis Bay.	County.
Mid. Sil., Niag	rhomboidalis,	Wahlenb.		(Anticosti) Junction Cliff.	New York, Wisconsin, In diana, (N. NewBrunswick Restigouche, Pentl. Hill (Scotl.), Gothland, passim Norway, Bohemia, (Can W.) Manitouline Island L. Huron, Thorold, (Can E.) Cape Gaspé. (Gothland) Wisby,
Carad	rugifera,	Portlock.	(Ireland) Tirnaskea.		
L. H. G		Hall.		(Nova Scotia) Arisaig	(N. York, east) Helderberg Mountains.
	depressa. rugosa,	Dalm.			Bohemia, Gothland, England
	scabrosa,				Middle Gothland, (England
D: D		er 1			Dudley.
	semipartita,	Römer.	Lower Silesia (drift).		
	serrulata, simulans,	Lindström. M'Coy.	(Wales) Golden Grove, Cefn,		South Gothland.
,,	spiriferoides,	,,	Coch, Blain-y-Cwm, &c. Hoar Edge (Engl.), Welch-		
T H C N		TT. 11	pool, Bala, &c. (Wales).		(N V1) C-1 -1 - C
L. H. G., Niag Onond. S. Gr.,	striata, subplana,				(New York) Schoharie Co. Lockport, Ro-
Niag. H. R. G	subtenta,	Hall.	(Anticosti I.) English Head,		chester, Wolcott.
			(Ohio) Oxford, (N. York) Trenton Falls.		
Tr. Llandov., Carad., Tr.			New York (U. S. America). (North Wales) Fron Olen, Bettws-y-coed, &c., (Irel.)		
			Desertcreate, (Westmore- land) Pull Scar, Leisley, Canada, (N. York) Jeffer- son County &c., (Ohio) Oxford &c., (Indiana) Ma- dison, (Kentucky) Mays- ville.		
Tr	Thalia, trachealis,		(Canada W.) Ottawa City. Niti Pass (Himalaya), Chor- hoti Pass.		
	undata, undulata,	M'Coy.	Egool, Mayo Co. (Ireland). Chair of Kildare, Mayo Co.	remarkation .	
	umbrella,	Salter.	(Ireland). Niti Pass (Himalaya) Dam-		
L. H. G	No. of Concession, Name of Street, or other Persons, Name of Street, or ot	A 100 A	chen &c.		(NewBrunswick,north) Res-
					tigouche, (Can. E.) Gaspé, (New York) Springfield.
	Wahlmstedti,	Lindström.			Wisby (Gothland), Pentland Hills (Scotland).
Delth Sh. Lst	Woolworthiana	Hall.			(Can. E.) Gaspé, (N. York) Helderberg Mountains.

Subd	livision.		species, and thor.	Lower Stage.	Middle Stage.	Upper Stage.
		Zinkeni,	Giebel			Lower Harz (Germany).
	?	sp. ind.	Selwyn.		Victoria (Australia).	Continuity).
	?	"	Salter.	Bolivia (South America).	A CONTRACTOR OF THE PARTY OF TH	and the second
		,,	Honeyman.			Nova Scotia.
		,,	Salter.			(Arctic Seas, America), Gri
			Sharpe, 1848.	(Subgenus of Discina, J.	W.S.)	fith's Island.
H. R.	G		Hall	New York (U. S. America).		
		orbicula.	0 1	(G 1 P) M (1		
		cancellata,		(Canada E.) Montreal.		
Carad.,	, Tr		Hall	(New York) Troy, (Wales)		
T-		Discina.		Penwhapple &c. Canada East, (N.York)Mid-		
11		mosa,	"	dleville, South Scotland,		
				(Spain)Puerto de las Ove-		
				gas, Sierra Morena.		
		Huronensis,	Billings.	(Can. W.) Pelletau Island		The state of the s
		The state of the state of		(Lake Huron).		
		Montrealensi	s, ,,	(Canada East) Montreal.		
Tr., H.	R. G	Ottawaensis,	"	(Can. W.) Ottawa City, (Isle		
a .			G	Anticosti) Macasty Bay.		
Carad.			Sowerby.	Wales, (Shropshire) Chat-		
		Discina. Siluriana,	Davidson	Well &c.		
11	**********	Situriana,	Davidson.	(Shropsh.) Horderley, Hoare Edge.		
w II	L	striata	Sowerby	rage.		Hagley Park, Delbury, &c
, 0		Discina.	Sowerby.			(England).
Tr		terminalis,	Emmons.	New York, Canada, Ohio.		(
		sp. ind.,	Sharpe.	,		Dudley(England). (Sharpe'
		1				Collection, Geol. Society
						London.)
			ira, Hall, 18	57.		OT 0 0 1 1 1 1
	3					(Nova Scotia) Arisaig.
Mag.		camura,	**			souri) Cape Girardeau.
Dolth S	Sh. Lst	oostata				(New York, east) Helderberg
Denu.	on Lat	costata,	***		***************************************	Mountains.
Niag.		Mathewsoni,	M'Chesney.	***************************************		Chicago, Illinois, Bridgeport
		multistriata,				
						Mountains.
,,,	"	perforata,	33			(New York, east) Becraft'
						Mountain.
**	"	simplex,	"		•••••	(New York, east) Helderber
						Mountains, (Tennessee Decatur County.
		var		••••		(New York, east) Helderberg
"	"	var.,	"			Mountains, Tennessee.
		Trigonotret	ta, König, 18	25. (See Spirifera, Sowerb	y.)	The state of the s
			, Billings, 18			
		acuminata,	Billings.			Galt &c. (Canada West).
		grandis,				" "
		Triplesia,	Hall, 1858.	N N 1		
		? ambigua,	Hall.	New York.	(N Vools) Madin. Trus	
UL		congesta,	,,		(N.York) Medina Village,	
+	-		12 12 13		Pennsylvania, (Can.W.) Flambro'.	
Tr		cuspidata	2000	(New York) Middleville.	Figure 0.	
		Atrypa.	"	(2100 ZOIR) Middleville.		
		extans,	Conrad	(N. York) Jefferson County.	Marie	
		Atrypa.				
		moniliformis,	Salter.	Ireland, Leisley (Westmore-		
			1221	land).	THE STREET OF THE STREET	
,,		The state of the s	Hall.	(N. York) Jefferson County.		
		Atrypa.	35:0	Chair of Fill and (T.)		
Town I		productoides,		Chair of Kildare (Ireland).	4	
-		quadricostata, Tropidolen	tus, Hall, 18	New York (U. S. America). 57-59	The second second second second	
-				U1-UU.		
Carad. Fr						
-		carinatus,	Conrad	New York (U. S. America).		
-			Conrad			
Гr		carinatus, Zygospira, modesta,	Conrad.	New York (U. S. America).	(Anticosti) Jupiter River.	

Summary (Geographical).

		S	pecie	8,				S	pecie	s.	
Genera.	America.	Europe.	India.	Australia.	Common.	Genera.	America.	Europe.	India.	Australia.	Common.
Acrotreta Athyris Atrypa Aulonotreta Camarium Camerella Chonetes Crania Cyrtia Discina Eatonia Eichwaldia Leptæna Leptocelia Lingula Lingulepis Lingulocaris Meganteris Merista Meristella Nucleospira Obolus Orthis.	67 2 15 6 1 2 20 4 2 39 7 57 2 4 19 9 5 10 9	1 21 21 2 2 1 15 10 2 3 3 72 3 42 9 6 8 6 8 10 10 10 10 10 10 10 10 10 10 10 10 10	 6 4 	3	5* 3*	Brought forward Orthisina Pentamerus Pholidops Platystrophia Porambonites Rennselæria Retzia Rhynchonella Rhynchospira Siphonotreta Skenidium Spirifera Spirigerina Stricklandinia Strophodenta Strophomena Trematis Trematospira Trigonotreta Trigonotreta Triplesia Tropidoleptus Zygospira	429 5 18 2 1 5 2 69 5 6 12 61 8 11 ? 2 6? 1 2	420 22 36 12 9 103 66 4 3 3 39 5 1 2	18	10	34 1 6* 1* 8† 5* 10*
	429 4	20	18	10	34		687	732	25	19	71

^{*} To America and Europe.

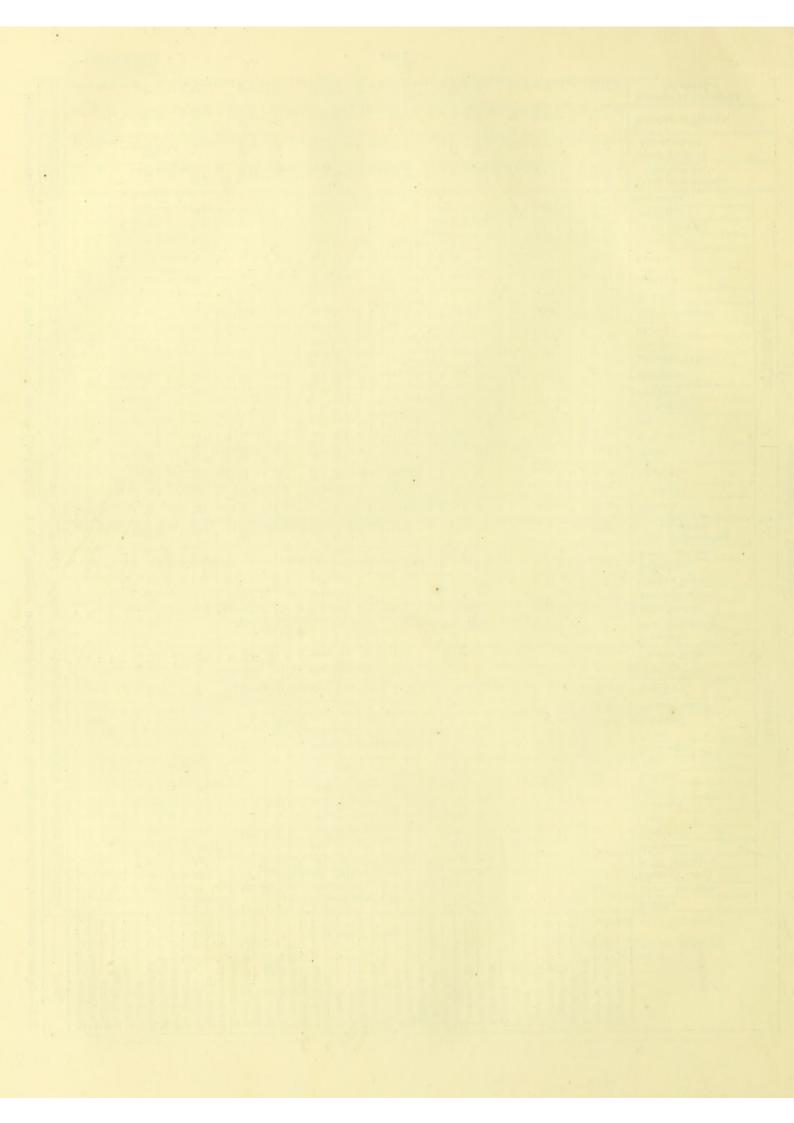
SUBKINGDOM MOLLUSCA. PROVINCE LAMELLIBRANCHIATA. CLASS CONCHIFERA. GROUP MONOMYARIA. (PLEUROCONQUES, D'Orbigny.)

Subdivision.	Genus, Species, and Author.	Lower Stage.	Middle Stage.	Upper Stage.
W. Niag. B., BL., Tr. Niag. BL., Tr. Tr., H. R. G. Carad., Shales above Tr. H. R. G. Carad. Carad. Carad. Carad. Tr. Carad. Carad. DL., Tr. Carad. Tr. Niag. CH. Niag. Div. 3, A. G., Mayhill.	Ambonychia, Hall, 1847. acuticostata, M'Coy. acutirostris, Hall? amygdalina, Hall. aphæa, attenuata, Bellistriata, " carinata, Conrad. Casei, Meek & Worth. Megaptera. contorta, Portlock. costata, Conrad. erecta, Hall & Whitney. gryphus, Hall. & Whitney. gryphus, Hall. & Whitney. mytiloidea " ? mytiloides, neglecta, M'Chesney. Amphicalia Leidyi, Hall. nitida, Billings.	New York, L. Huron, N.W. Tennessee, Wisconsin. Wisconsin. (Can.E.)Montreal,(N. York) Trenton Falls, Pennsylv. (Wales) Penblech, Yspatty, Evan, New York, (Wisconsin) Noquet's Bay. Richmond (Indiana). (Irel.) Tyrone, Desertcreate. New York, Britain. Wisconsin (U. S. America). Tyrone (Ireland). Wisconsin. (New York) Chazy Village.	(Anticosti) Jupiter River.	Chicago (Illinois).

[†] To Europe and America, and 1 Tasmania.

[‡] To Europe and Australia.

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-	Number of Countries		* 1635 *
-	Number of Species.		3 1635
	Great Total of Appearances.		2793
	Total Appearances (Europe &c.).	1888 112 199 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1672 2790
	Australia.		4 4
	India (North).		282
	Norway.		7
	Sweden.	:01 & : : : : : : : : : : : : : : : : : :	151
	Russia.		132
	Podolia.		10
	Baltic (Russia).	:0:01 :0:0 4 :0:01 : : : : : : : : : : : : : : : : : :	127
&c.	Silesia.		3111
M	Franconia.		60 8
103	Thuringia (Harz).	44	46
EUROPE	Bohemia.	125 1 12 13 16 14 1 16 16 17 18 18 19 19 19 19 19 19	322 46
H	Sardinia.		_
	Portugal.		16 32
	Spain.		43 16
	France.		
	Wales.		9 227
	England.	:00 : : :4400 : :2 :4 : : :20 : -200 + :0 : :0 :02 :0 :0 :0 :00 : :0 :0	618
	Scotland.	1 1-0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	573
-	Ireland.	1451 1-12 18 19 15 1 12 1 14 15 1 1 15 1 15 1 15 1 1	145
	(America).	085 08 0 1 0 2 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1	1121
	Newfoundland. Total Appearances	H : : : : # : : : : : : : : : : : : : :	161
	Labrador.		+
	Mingan Isles.		9611 41
	Anticosti Island.		
	Nova Scotia.		131
	Vermont. New Brunswick.		311
	Canada East.		98 .
	Canada West.		_
	New York,	1.123 :: 8: : 1.41 :: 8.42 :: 4	88
AMERICA.	Pennsylvania	: : : : : : : : : : : : : : : : : : :	72339394
ER	Maryland.	0	7
18	Texas.		4 :
A	Tennessee.		299
	Ohio.		63667
	Illinois. Indiana.	: := : : : : : : : : : : : : : : : : :	9
	Missouri.		3416
	Iowa.		= .
	Wisconsin.		29
-	Minnesota.		27 15 59 11
	Rupert's Land. N.W. Michigan.		2 :
1	Arctic America.		3 12 11
	Bolivia.		00
	GENERA.	ACROTRETA ATHYRIS ATRYPA ATHYRIS ATRYPA ATHYRIS ATRYPA CAMERILIA CAMERELIA CHONETES CRANIA CORNIA CORNIA CORNIA CORNIA ELEPTOCELIA LEFTOCELIA LINGULA LINGULA LINGULA LINGULA LINGULERIS MERISTA MERISTA MERISTA MERISTA MERISTA MERISTA OBCLELIA OBCLELIA OBCLELIA OBCLELIA CORTHIS ORTHISINA PENTANERIS PENTANERIS RENYCHONELIA RETZIA RHYNCHONELIA RETZIA SPRINCERERIA SPRINCHONELIA RETZIA RHYNCHONELIA RETZIA SPRINCHONELIA RETZIA SPRINCHONELIA SPRINCHONENA SPRINCHONELIA SPRINCHONELIA SPRINCHONENA STRICKLANDINIA SPRINCHONENA STRICKLANDINIA STRICKLANDINIA STRICKLANDINIA STRICKLANDINIA STRICKLANDINIA STRICKLANDINIA STRICKLANDINIA STRICKLANDINIA STRICKLANDINIA TRINERELLA TRIPLESIA TRIPLESIA TRIPLESIA	Total 3 12 11 27 15 59 11 34 16 6 3667 4 7
-		A444000000HHHHHHHHHNOOOONANAHHHHHNOSSSSSSSSSSSSSSS	



Subdivision.	Genus, Species, and Author.	Lower Stage.	Middle Stage.	Upper Stage.
Tr	prisea, Portlock	. Wisconsin. Desertcreate, Tyrone (Irel.). Desertcreate (Irel.), Malbay. Lake St. John, Yamuska (Can. E.), Canada West. (L. Huron) Manitouline Island, West Bay, Tennessee, South Wisconsin.	(Anticosti) Gamache Bay.	
Niag Carad., L	striæ-costa, M'Chesney striata, Sowerby	Bala, Wrexham (Wales)	••••••	Leintwardine, Shropshire
Div. 1, Anticosti Gr., Llandov.	superba, Billings		(Anticosti) Junction Cliff.	Aymestry.
Carad	trigona, (Münster) ,, triton, Salter	Tyrone, Lisbellaw &c., Fer- managh &c. (Ireland). Desertcreate, Tyrone (Irel.). Bird's Hill (Shropshire). Wales, (Irel.) Tyrone, De- sertcreate, Canada, New York, Upper Mississippi River.		
Carad	vetusta, Portlock sp. ind., ?	Anticosti, West end. (Ireland) Tyrone. Chair of Kildare (Ireland). Fort Snelling (Minnesota), Pr. du Chien (Wisconsin).		
Delth. Sh. Lst.,	Avicula, Klein, 1753. æquiradiata, Hall			(New York) Schoharie Co.
L. H. G. M. Sa., CL				
W., U.L	ampliata, Phill		(00111111111111111111111111111111111111	Llandeilo, Llangadoc (W.) Ludlow, Hagley Park
L	antiqua, Verneuil			Dudley, Westmoreland. Westmoreland, Russia.
Delth. Sh. Lst				
Fauna G. g. 1 Delth. Sh. Lst	cardialopis, Barr			(Canada E.) Cape Gaspé. (Bohemia) Chotecz. (New York, east) Becraft's
Fauna H. h. 1 L.L			•	Mountain &c., Gaspé (Canada East). (Bohemia) Hostin. Ledbury, Ludlow, (West- moreland) Benson Knot, (Wales) Builth, Usk.
Faunæ G. g. 2, H. h. 1.	decipiens, Barr.			(Bohem.) Varvrovitz, Hostin.
Shales above Tr. Tr	desquamata, "	(Can. E.) St. Grégoire, Ya- maska, Cape Smyth, Lake Huron, N.W. Michigan, (L. Superior) Wisconsin. (New York) Troy. (Can.W.) Plantagenet, Point		
H. R. G., CL., Niag.	emacerata, "	Rich, Lake Huron, (New York) Middleville. Central Canada		Lockport &c., Canada W.,
H. R. G. &c Fauna G. g. 1, 3		(New York) Wayne County.		Grimsby, Niagara. (Bohemia) Dvoretz, Hlu-
Tr L. H. G Utica Slate	grandis, Barr. Hermione, Billings. Honeymani, Hall.	(Canada East) Montreal. (New York) Canajoharie,		bocep. (Boh.) Lochkov, Hlubocep. Arisaig (Nova Scotia).
M. Sa Corall.Lst.,Scho-	leptonata, Hall?	Pennsylvania.	Woolcot ore bed, N. York.	(Naw York anotown) Sales
harie. W				(New York, eastern) Scho- harie County. Ferriter's Cove, Kerry Co.,
L	lineatula, D'Orbigny.			(S. Scotl.) Lammermuir, Ludlow (England). Ludlow (England).

MONOMYARIA.

Subdivision.	Genus, Spec		Lower Stage.	Middle Stage.	Upper Stage.
Pentam. Lst., L. H. G.	manticula,	Conrad.			(New York, eastern) Scho
	matutina,	Bonissent.	La Manche (France).		narie County.
Corall. Lst		Eichw.		***************************************	(Isle Oesel, Baltic) Ilpel.
Fauna E., W., L.		Barr.			Bohemia, (Wales) Mocktre
	Pterinæa.				Llansannan, &c., Dudle
. D . T .	1.111	TT 110			(England).
L.Pentam. Lst		Hall?		••••••	New York.
L. H. G	naviformis,	Conrad.	•••••	***************************************	
					berg Mountains, (Can. F Cape Gaspé.
"	obliquata,	Hall.			(New York, eastern) Sch
" "	o o o o o o o o o o o o o o o o o o o				harie County.
Tentac. Lst		,,,			,, ,,
Pleta, Carad	? orbicularis,	Sowerby.	Desertcreate (Irel.), Acton		
			Scott, Church Stretton		Carlos Control Control
			(Shropshire), (Esthonia)		
Niag	orbiculata	Hall	Hapsal.		(New York) Rochester sha
Delth. Sh. Lst		II.	***************************************		
Pleta		Eichw.	Isle Odinsholm, Wesenberg		harie County.
			(Esthonia).	STATE OF THE OWNER, WHEN THE PARTY OF THE OWNER, WHEN THE OWNE	
Faunæ F,G.g.1,3	pollens,	Barr.		***************************************	
					Lochkov, Mnienian.
Fauna G. g. 1	pusilla,	Barr.			(Bohemia) Chotecz.
" H. h. 1	rarissima,	TT: ?			Hostin.
W., U.L	Pteringa.	Hising.			
	rterinæa.			A. Carlotte	wardine, Kendal (Engl Horeb Church (Wales).
CL., Onon. S.Gr.	rhomboidea	Hall.	•	(Canada) Lake Ontario	New York central
on, onon or or.	i nomooracu,			Dundas, (New York)	
				Wayne County &c.	
	rudis (?) var.	, Phill.		Boocaun (Galway).	and the second second second second
L. H. G	rugosa,				(New York) Cherry Valley
Delth. Sh. Lst	Schohariæ,	29			
Comell Tot Salva	annuniformia				harie County.
Corall.Lst.,Scho- harie, Delth.Sh.	securiformis,	"			22 21
Lst.				Market State of the State of th	
Carad	semigranulata,	,,	Desertcreate (Ireland).		August Salaran Land Carlotte
Delth. Sh. Lst		,,			
					County.
Pentam. Lst., L.	subæquilatera,	"			
H. G.					harie County.
Niag	subpiana,	**		······································	York, west) Lockport.
Corall.Lst., Scho-	subrecta.	.,			(New York, eastern) Sch
harie.		"			harie County.
Delth. Sh. Lst	tenuilamellata,	,,			(New York, eastern) Alban
					&c. Counties.
,, ,,	textilis,	**			(New York, eastern and ce
Ution St. Th.	Tuentonersis		(Can E) Pay St Paul (N		tral) Herkimer Co. &c.
Utica Sl., Tr	Trentonensis,	"	(Can. E.) Bay St. Paul, (N. York) Montgomery Co.,		
			Middleville.		
Onon. S. Gr	triquetra,	,,			(Central New York) Way
		"			County.
Carad	venusta,	,,	Desertcreate (Irel.), Acton	Name of the second	
		-	Scott (Shropshire).		(Delemin) Feet
Faunæ F, G. g. 1	verna,	Barr.	***************************************	•••••	
Donton T + T	umbonata	TT-11			(New York) Schoharia Co
Pentam. Lst., L. H. G.	umbonata,	Hall.		***************************************	(New Tork) Schonarie Co
Niag	undata.				(New York) Rochester, Cl
B				presentation of the state of th	cago (Illinois).
	? sp. ind.,	Selwyn.		Victoria (Australia).	
?	,,	Rouault.			Rennes (France).
0 1	,,		Berrigal, New South Wales.		
Carad			Dynevor Park (Wales).		
THO	Megambonia	, Hall, 185	9.		(Now York costown) Have
L. H. G	aviculoidea,	Hail.			mer County &c.
1985	cancellata,				
17 19	cordiformis,	"			
	COPULIORIDIS.				
" "	cordiformis,	"			harie County.

Subdivision.	Genus, Species, and Author.	Lower Stage.	Middle Stage.	Upper Stage.
Delth. Sh. Lst	mytiloidea, Hall			(New York, eastern) Helder-
,, ,,	oblonga, ,,			berg Mountains. (New York, eastern) Helder-
	obscura, ,,			berg Mountains.
				harie County. (New York, eastern) Helder-
" "	ovata, "		The state of the s	berg Mountains.
L. H. G				(New York, eastern) Scho- harie County.
	" ?, Billings	s		(North New Brunswick) Res- tigouche.
L. H. G	04 4 4			(New York, eastern) Carlisle. (New York, middle) Herki-
				mer County.
Delth. Sh. Lst	striata, ,, suborbicularis, ,,			
	Posidonomya, Brongni	art, 1837.		harie County.
	alata, Murchison	. Lyckholm (Esthonia).		Gothland.
Niag	? rhomboidea, Hall		•••••	(New York) Lockport.
		Pomeroy, County Tyrone (Ireland).		
w	Pterinæa, Goldfuss, 1840 asperula, M'Cox		at military and the	(Wales) Builth, (Irel.) Co.
H. R. G			•	Clare, Gorlagarry.
U.L		(Anticosti) White Cliff.		(Westmoreland) Brigsteer,
Niag	Brisa, Hall			Wales. Bridgeport (Illinois).
Llandov	bullata, M'Cov		Galway (Ireland).	
Tr., H. R. G	carmata, Emmons	(Can. W.) Toronto, (New York) Turin, (Ohio) Cin- cinnati.		
Div. 3, Anticosti Gr., Mayhill.	curiosa, Billings		(Anticosti) Jupiter River.	
Niag		1		Chicago (Illinois).
	Danbyi, & Marcy M'Coy			Gothland (Lindström).
H.R.G., U.Llan- dov., W.	demissa, Conrac	(Can. W.) Humber River, Tennessee, N. Wisconsin.	Malverns (England)	New York, (Wales) Pont-ar- y-Llechan, Llangadoc,
				Benson Knot, Westmore- land, Malvern.
L. & U.L		k		Ferriter's Cove, Kerry(Irel.).
W., L.L				Ferriter's Cove, Doonquin, Derrymore Glen (Irel.).
L W				Aymestry (England). Ferriter's Cove (Kerry).
L				Moel Ulches (Montgomery-
				shire), Benson Knot &c. (Westmoreland), Linsway
W., L. & U.L	lineatula, D'Orbigny		Wales?	Bay (Pembrokeshire). Wales, (S.W. Scotl.) Balmæ,
				(England) Dudley, Coal- brook Dale, Malvern, &c.
U.L	megaloba, M'Coy			Stormhill (Wales).
L	naviformis, Barr. (MS. Hal		· · · · · · · · · · · · · · · · · · ·	Westmorel., Dudley, (Can.
U.L				E.) Gaspé. Doonquin, Derrymore Glen,
w				Kerry (Ireland). Doonquin (Ireland).
U.Llandov., W.,	posidoniæformis.			
L.			Llandovery (Wales).	Dudley, Walsall, &c.
Carad., W., L	pieuroptera, M'Coy	New York, (Wales) Cyrn-y- Brain.		(Wales)SwanseaRoad,(Irel.) Derrymore Glen, (West-
W	posidoniæformis, "	8		moreland) Benson Knot. (Irel.) Tirnaskea, Ferriter's
	, ,,			Cove, Kerry Co., Wood-
H. R. G	prolifica, Billing	(Anticosti) Charlton Point		burn Hill (England).
Llandov., U.L	rectangularis, Sowerby	and Macasty Bay.	Malvern (England)	(Wales) Horeb Chapel, (Eng-
				land) Westmoreland.

Subdivision.	Genus, Species, and Author.	Lower Stage.	Middle Stage.	Upper Stage.
Corall. Lst., W.	reticulata, Hising.			(Engl.) Dudley, Aymestry,
U.Llandov., W., L. & U.L.			bury, &c., Marloes Bay (Wales).	wardine, Îreland, Wales, Gothland, New York, Ari- saig (Nova Scotia).
Pleta		Esthonia, Réval, Odinsholm		
L	Sowerbyi, M'Coy.	Isle, &c.		(Wales) Usk, Aymestry, Lud-
Llandov., W., L.	striato-costata, Giebel.			Lower Harz (Thuringia).
Llandov Carad., W., L. &	sublævis	?	Boocaun, Galway (Irel.).	(Westmoreland) Benson Knot. Malvern, Ludlow, Cwm Craig
U.L.	-7			Ddu &c. (S. Wales). Ben- son Knot, Howgill Fells (Westmoreland), Den (Yorkshire), Derrymore Glen (Ireland).
Tr		New York.	C	
Div. 1, A. Gr., Llandov.				
	ventricosa? Sharpe.			Westmoreland (England).
Niag				
U.L				

Summary (Geographical).

	15						8	Spe	cie	s.																	
Genera.	Minnesota.	Wisconsin.	Iowa.	Illinois.	Indiana.	Ohio.	Tennessee.	Pennsylvania.	New York.	Canada West.	Canada East.	New Brunswick.	Nova Scotia.	Anticosti.	Ireland.	Scotland.	England.	Wales.	France.	Bchemia.	Thuringia.	Baltic, Russia.	Russia.	Sweden.	Australia.	Total appearances.	Total species.
Ambonychia Avicula Megambonia Posidonomya Pterinæa	2	10	1	4 2 3	2	2	2		7 29 11 1 3	2 6 2		``i	2 2 2	3	9 4 1 15	1 2	3 9 15	5 4 	2	10	2	3 1 2		2 1 2		55 85 14 4 70	33 64 14 4 40
	2	12	1	9	2	2	3	2	51	10	12	1	6	7	29	3	27	21	2	10	2	6	2	5	1	228	155

Subkingdom MOLLUSCA. Province LAMELLIBRANCHIATA CLASS CONCHIFERA.
GROUP DIMYARIA. (Orthoconques, D'Orbigny.)

Subdivision.	Genus, Species, and Author.	Lower Stage.	Middle Stage.	Upper Stage.
	Actinodonta, Phill., 1848.			The second secon
U.Llandov., U.L.	cuneata, Phill.		Marloes Bay (Wales)	Marloes Bay (Pembrokesh.), Llandeilo,
L. H. G				(New York) Herkimer Co., Gaspé (Canada East).
L	Anodontopsis, M [*] Coy, 1 angustifrons, M [*] Coy.	852.		
Llandov., L. & U.L.	bulla, ,,		Tonlegee? (Ireland)	Llandeilo, Stormhill (Wales), Tonlegee (Irel.), Kirkby Moor (Westmoreland).
U.L	lævis, Sowerby.	•••••••	••••••	Stormhill, Lechclawdd, Ho- reb Chapel (S. Wales).
	Lucina, Salter. perovalis, ,, Modiolopsis.			(Wales)Craig-y-garcyd, Usk, Buildwas,(Engl.)Ledbury,
U.L	quadratus, M'Coy.			Malvern, (Scotland) Deer Hope, Pentlands. Stormhill &c. (S. Wales), Malvern.
,	securiformis, M'Coy. Pseudaxinus.			Llangadoc (Wales). Benson Knot, Westmoreland, Ledbury (England).
		Dr. J. (P. N.)		Illampu Mountain, Bolivia (South America).
Pleta Carad., L	decipiens, Eichw. Edmondiæformis, M [*] Coy.	Réval (Baltie). Coed-y-Bedw, Bala, Llan- rwst, &c. (N. Wales).		(Wales) Llangynyn, Welch- pool, Benson Knot (West- moreland).
	Naranjoana, De Vern.	(France) La Manche?, De- vonshire (conglomerate), (Spain) Romeral, West Asturia, Sierra Morena.		moreiand).
U.L	primitiva?, Phill.	Zistana, Seria ziorena.		South Wales, (Westmorel.) Benson Knot &c., Fresh- water East.
Fauna G. g. 2	Astarte?, Sowerby, 1817.	Vitré, Poligné (France).		(Bohemia) Vavrovitz.
U.L	Axinus, Sowerby, 1821.	(Schizodus, King.)		Kendal (Westmoreland).
Fauna E? ,, G. g. 1	articulata, Barr.		The state of the s	Bohemia. (Bohemia) Hostin.
" E, W., L	fibrosa, Sowerby.			Bohemia, (France) La Man- che, (Wales) Welchpool &c., (Engl.) Ludlow, Park Lane, &c., (Irel.) Bolin- brook, County Clare.
Fauna D, Col Llandov., W., L.		(Bohemia, Colony) Krejci. Coniston Flags (Lancashire).	Brittany, Luchen, Pyre- nees, (Sardinia) Flumini Maggiore, (France) Bau- bigny, Cherbourg.	
Faunæ D, E	motorcotwints.	Bohemia		pool,&c., (Portu.)Bussaco.
	The same and the s			(Bohemia) Holin, Lochkov. Hostin. (Arctic America) Cornwallis
Carad	semirugata, Portlock. spuria, Münster.		The same	Island. (Wales) Llansannan, Myn-
		To Recorded to		ydd, Tryfan, Usk, Shrop- shire, Dudley, &c. (Engl.).

Subdivision.	Genus, Species, ar Author.	Lower Stage.	Middle Stage.	Upper Stage.
Pleta	verrucosa. E	ichw. Réval (Baltie), (Esth	onia)	
		D'Ewone		
W	~	. 17 1048		
Fauna G. g. 2	Cardiomorpha, K	Oninc K, 1841.		(Pohomia) Varranita
		Darr.		. (Bollemia) vavrovitz.
", G. g. 1, 3	fortis,	**		(Bohem.)Hlubocep, Chotecz
	ingrata, G	iebel		. Lower Harz (Germany).
Fauna G. g. 1				(Bohemia) Kuchars.
Fauna G. g. 2	Cardita, Bruguière,	1789. Power		(Rob) Hlubosop Vonnovita
	Cardium, Linnaus,			(Boil.) Illusocep, vavrovitz
Fauna G. g. 1	capitatum.	Barr		(Bohemia) Chotecz.
		Dalm. (Ostrogothia) Borenshi	ilt.	
	cornucopia, Cardiola interrupto			Bohemia?
9		dfuss.	to the second	The state of the s
Fauua E. e. 2				. Bohemia.
Fauna G. g. 2	cunctatum,			
	pectunculoides, Ver	neuil.		. Westmoreland,
	subarcuatum, Mene	ghmi.	(Sardinia) Flumini Mag	ζ-
Fauna E	tennistriatum	Barr	giore.	. Bohemia.
		7, 184 7(=Cucullella).		
Carad	amygdalus, S	Salter. (Normandy) May, Buc		
		Salterton, Devon (pel		A CONTRACT OF THE PARTY OF THE
	Caraventesi, Ver	neuil. (Spain) De las Heras, I	'uebla	
L. H. G	concentrious	de Don Rodrigo.		Arisaig (Nova Scotia)
"	cuneatus,			
	elongatus,			
,,	erectus,			,, ,,
Niag				Chicago (Illinois),
Shales above Tr.	neglectus & A	Iarcy. Hall. S.W. Wisconsin, Iowa		
L. H. G	nuculiformis.	Hall. S. W. Wisconsin, Iowa	•	Arisaig (Nova Scotia).
Carad., W	ovalis, M	Coy. Shropsh., (Wales) Lla	nrwst.	(Wales) Plas Madoc, Llan
				rwst, Berwyn Mountains
H. R. G., W	planulatus, Co	onrad. Wales, N.W. Michigan	(Cen-	(Britain) Keeper's lodge Golden Grove.
L. H. G	comiradiatus	Hall tral Canada) Humbe	er K.	Arisaig (Nova Scotia)
Pleta		Cichw. Wesenberg (Esthonia)		
L. H. G	subovatus,	Hall.		
" "	sp. ind., Hone	yman.		"
7	111	elwyn. issent. (France) La Manche.	Victoria (Australia).	
	,, Don	Hall		Arisaig (Nova Scotia).
	Conocardium, Br	onn., 1835=(Pleurorhynci		
W	æquicostatum,	Phill.		Dudley, Wenlock Edge
CC	TO 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	W (C. TIT C.	D'	Woolhope (England).
CS		llings. (Can. E.) Low. Ottawa		
Llan	Euchasma,	Mingan Isles, G. St. Baily, Ireland.	Latwr.	
Div. 4, A. Gr.,	elegantulum, Bi	llings.	(Anticosti) S.W. Point .	Peebles, Carlops (Scotland
Mayhill, U.L.				
Carad	dipterum,	Salter. (S.W. Scotl.) Craighead		Calculation of the Calculation o
		dare (Ireland), Bor (Esthonia).	kholm	
	var. rhomboideum	" (S.W. Scotland) Craig	head.	
BL	immaturum. Bi	llings Mid Ottawa River(Car	.W.).	
Delth. Sh. Lst		Hall.		(New York, eastern) Alban
France B. C.				County.
Faunæ F, G. g. 1 Fauna G. g. 1		Barr		(Bohemia) Chotecz.
Niag.	Niagarense, Winch	k Mar.		Chicago (Illinois).
Fauna G. g. 1	ornatissimum.	Barr.		(Bohemia) Dvoretz.
Niag	ornatum. Winch. &	Mar		Chicago (Illinois).
Carad.?,Llandov	priste,	Salter. Tipperary (Ireland)?	Galway (Ireland).	Bohemia France
Fauna F	sp. md.,	Gronn. Owen. Red River, Lake Wir		Donema, France.
	The state of the s	(Punowt's Land)		
U.L	,, Bi	llings.		(North New Brunswick)Res
				tigouche.
	G	I'Coy. , 1851 (=Nucula, Arca, &c.	Cong, Galway.	Action Language of all

Subdivision.		pecies, and hor.	Lower Stage.	Middle Stage.	Upper Stage.
Pleta Carad., Tr		Portlock.	Réval (Baltic). (Ireland) Desertcreate.		
Div. M, Queb.	amy dalus,	Salter.	Tasmania West. (Newfoundland West) Table		
Gp. Llandov., W	Anglica,	D'Orbigny.	Head.	?	(Wales) Llansannon, Fron- fawr, Cardiff, (Westmore
Tr		Salter.	Tasmania West. (Can. W.) Middle Ottawa		land) Underbarrow &c.
	Bertrandi,	,,	River. Poligné, May(France), Bud- leigh Salterton (England).		The second second second second
Fauna D. d. 1, 3, 4.	Bierensis, Bohemica,		(Portugal) Bussaco. (Bohemia) Rokitzan.		
	Bussacensis,		(Portugal) Bussaco.		
	Chauveli, Cia,		Rennes, La Couyère (France). (Portugal) Bussaco, France, Mt. Roule, Cherbourg.		,
	cingulata,				Norway, Kendal, Dudley South Wales.
	contracta, Costæ,		(Can.E.)Montreal, (Can.W.) Middle Ottawa River. (Portugal) Bussaco, (Spain)		
	costata,		Mudela.		Gothland.
	costulata, deltoidea,	Salter. Phill.	Niti Pass, Himalaya (E. I.).	Eastnor Park (Malvern).	
Carad	Des Glandii,	Rouault.	Poligné, Rennes (France). (Irel.) Tyrone, Desertcreate.		
B., BL., H. R. G.	dubia,	Billings.	(Canada West) Pakenham.		
Llandov	Duvaliana, Eastnori,	Sowerby.	Rennes, Poligné (France).	Eastnor Park (Malvern).	(South Wales) Llangadoc.
Carad., W., U.	Edmondiæfor	mis, M'Coy.	(Wales) Llanfyllin, Coed-y-	?	Kendal, Benson Knot, (Wales Llangynyw &c.
Llandov. Tremad	Arca? elongata,	Salter.	Bedw, Llanrwst, &c. Ramsay Isle &c. (S. Wales).		
	Eschwegii,	Helmersen. Sharpe.	(Spain) Almaden &c., (Por-		Gothland.
	Escosura,		tugal) Bussaco. (Portugal) Bussaco.		
	Ezquerræ,	"	" " (Spain) Almaden.		
BL., Tr			(Can. W.) Allumette Island, Ottawa River.	Indicate and the state of	
n . n	gibbosa,	Hall.	New York, (Canada West) Pakenham.		Alleran Silver
	Hopensacki, imbricatula,		(Spain) Almaden. Niti Pass, Himalaya (E. I.).		Horeb Chapel (Wales).
U.L. H, R. G.	inæqualis, Iphigenia,	Billings.	(Can. W.) Point Rich, Cape		Horeo Chaper (wates).
Llandov., Carad.	lævis,	Sowerby.	Smith, Lake Huron. Bettws-y-Coed, Caernarvon- shire (Wales).		AND DAY OF
Carad., Tr., H.			Vitré (France). (Can. W.) Pakenham, Mi-	account of the same of the sam	Carlotte and an artist of
R. G., L.			neral Point (Wisconsin), (New York) Trenton &c., Illinois, Iowa, N.W. Mi-		
w	,,	M'Coy.	chigan.		(North Wales) Plas Madoc
U.Llandov	lingualis,	Phill.		Eastnor Park, Malvern	Dinas Bran, Saxony?
Tr	Logani,	Salter.	Allumette Island, Middle	Marloes Bay (Wales).	
D D 1104	Maestri,		Ottawa (Can. W.). (Portugal) Bussaco.		Market Commence
FaunaD.d.1,3,4,5 Carad,			(Bohemia) Rokitzan. (France) Poligné, La Man-		N SOUTHWAY
CH., B., Tr	nasuta,	Hall.	che. (Can. E.) Montreal, Malbay,		
	3	mater at h	Lower Ottawa River, Min-		
			gan Isles, (Can. W.) La		

Subdivision.		Species, and luthor.	Lower Stage.	Middle Stage.	Upper Stage.
U.L	obesa,	Salter.			Deer Hope, Pentlands (Scot
Carad	obliqua,	Portlock.	(Irel.) Desertcreate, (Wales) Bala Lake.	MAN MAN	land).
,,	Orbignana,	Rouault.	(France) Rennes, Vitré.		
W., L.L	ovalis,	Sowerby.			Marloes Bay (Wales), (Eng
Tr	anglica?	C-14	W	age of the same of	land) Ludlow, Malvern
H. R. G., W			West Tasmania. (Wales) Derwen, (Can. W.)		Wales.
AL. A. O., 11	poststi iata,	Zininone	Humber River, (N. York) Pulaski.		
Carad	Protei.	Münster.	(Ireland) Desertereate.		
,,	quadrata,	M'Coy.			
,,	radiata,	Portlock.	D 11	4	
"	regularis,	39	" " Bardd- hessiagh.		
Llandov	rhomboide	a. Phill.	neosiagu	Eastnor Park, Malvern.	and the second s
Carad		Sharpe.	(Portugal) Bussaco, (Spain)		
			Mudela &c., (Normandy)	THE PARTY NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PARTY NAMED IN	
	scitula,	McCorr	May. (Irel.) Lisbelaw, Fermanagh.		
" " "	semitrunca	ta, Portlock	(Irel.) Lisbelaw, Fermanagn. (Irel). Desertcreate, (Wales)	Carried Control	SHIP TO THE STATE OF THE STATE
			Plas-hen, Llanfyllin, &c.		
	silens,				Lower Harz (Germany).
	sinuosa,		Himalaya, Niti Pass.		
"	subacuta,	M'Coy.	(Irel.) Desertcreate, (Wales) Plas-hen, Llanfyllin, &c.		
U.Llandov., L.,	subæqualis	, Sowerby.	rias-nen, maniyimi, de.	Eastnor Park, Malvern	Llandeilo, Lechlawdd, Llandeilo,
U.L.	Arca Eas	stnori.			gadoc, &c. (Wales).
Llandov		ica, M'Coy.		Tonlegee (Galway).	T II W I I D H
U.Llandov., W., L.L.	sulcata,	Hising.			Ludlow, Wooltack Bay, Ha guard, Gothland.
U.L	thracioides				Carlops, Peebles (Scotland
Carad	transversa,	Portlock.	(Ireland) Desertcreate.		Tr, attent (seeming
		truncata.		Asset Black	The second second
,,	varicosa,	Salter.	(N. & S. Wales) Llandeilo, Bettws-y-Coed, Bala Lake,		
?	sp. ind.,		&c.		(South America) Bolivia, 1
L.Llan.	op. man	,,	(Wales) Ty-obrey.		lampu, Millepaya Valley
**	"	**	(Shropshire) West of Stiper		
U.L			Stones.		
W	21	"	Garn (North Wales).		(Wales) Gwyddelwern, Pl
	,,,	,,			Madoe.
?	"	Stuchbury.	Berrigal (New South Wales).		
?	Curanllol	Selwyn.	5 (Punavi Pausilt Co	Victoria (Australia).	C 1847
L.Llandov	Anglica.		 (Redonia, Rouault; Cu Lord's Hill, Shelve, Shrop- 		CLEIDOPHORUS, Han, 1841
		June 1	shire, Budleigh Salterton,		
0 1			Devonshire.		
Carad	angulata,	Baily.	Cloncannon, Tipperary (Ire-		
Llandov., U.L	antiqua.	Sowerhy	land).	Maam (Ireland).	Westmoreland, (Wales) H
		Donetoy.			reb Chapel, Felindre.
L	Cawdori,	29			LinswayBay, Pembrokeshin
W., L.U.L	aga mata ta	D1.:11			Llansannan (Wales). (Wales) Dinas Bran, Fres
W., L.U.L	coarctata,	Filli	•••		water East (Pembrokesh
			- I Halle men		(Westmoreland) Bense
					Knot, (Ireland) Derr
II L	owata	Samuel			more Glen. Kendal (Westmoreland
U.L	ovata,	sowerby			(Wales) Horeb Chape
					Stormhill, Golden Grov
					Kington.
	sp. ind.,	Salter			Illampu Mountain, We
Carad			(Caernaryonshire) Bettws-y-	177	Slope, Bolivia.
Caratr	"	17	Coed, Berwyn Mountains		
	,,,	,,			(Wales) Llansannan, Fre
w					Fawr.
w	-		1015 /4		
w	Cyprica	rdia?, Lamarck	1817. (A genus not likely	to be found in Palæozoic	rocks, yet acknowledged l Barrande, De Verneu Hall, &c., J.W.S.)

Subdivision.	Genus, Species, and Author.	Lower Stage.	Middle Stage.	Upper Stage.
H. R. G	angustata. Hall	New York.		
	angustifrons, ,,	" Cincinnati, Ohio.		Carpinal Lines and America
"	Beirensis, De Verneuil	(Spain) Almadenejos, (Por-		
		tugal) Bussaco.		
Fauna G. g. 1		N N 1		(Bohemia) Chotecz.
H. R. G		New York.		
	cymbæformis, Bonissent Davidsoni, Rouault	(France) La Manche. ,, Rennes, Gahard.		
Pleta	Davidsoni, Rodauit	Wesenberg (Esthonia).		
Red Pentam. Lst.		······································	(Ural) Bogoslowsk	Manager and the same of the sa
Pleta		Wesenberg (Esthonia).	(Cran) Dogodonom	
	inflata,	Réval (Esthonia).		
Fauna D	migrans, Barr	(Bohemia) Colonice, Krejci.		
H. R. G		New York.		
Dolom. Lst		Kirna (Esthonia).		
H. R. G	ovata, Hall	New York, Ohio (Cincinnati).		E
Pleta, Corall.Lst.	silurica, Eichw	(Esthonia) Wesenberg, Isle Dago, Pyhalep, &c., Odins-		Kamenetz (Podolia).
		holm (Baltic).		
	cimpler Portlock	Tyrone (Ireland).		
Utica Slate		New York.		
Fauna G. g. 1		LOW LOLL.		(Bohemia) Tetin.
Niag.				North Wisconsin.
	Cypricardinia, Hall, 18	59.		
Niag	arata, Hall			Chicago (Illinois).
L. H. G	concentrica, ,,			(New York, eastern) Scho
D. lel. Cl. T. 4				harie County.
Delth. Sh. Lst	crassa, ,,			(F N- V-1) GI"
L. H. G	dorsata, "			
Delth. Sh. Lst	lamellosa, ,,			Count AlbanyC
L. H. G				
	Disteira, Eichwald, 1859.			" "
Pleta	triangularis, Eichw.	Réval, Odinsholm (Baltic).		
	Dolabra, M. Cov., 1844.			
Tilestone	elliptica, M'Coy.			Stormhill, Llandeilo (Wales
on:1	Lusitanica?, Sharpe.	(Portugal) Bussaco.		a
Tilestone	obtusa, M'Coy.	Otinling (Tilingia)		Stormhill, Llandeilo (Wales
	Stirlingensis, Meek&Worth. Edmondia, Koninck, 184			
Niag.	Nilesii? Winch & Marcy			Chicago (Illinois)
	Eopteria?, Billings, 1865			omeago (IIIIIolo).
Queb. G	ornata, Billings.	Point Lévis (Canada East).		The state of the s
,,	Richardsoni, "	(Can. E.) Quebec (drift).		
Div. G., Queb. G.	typica, "	(Newfoundland W.) Port au		
		Choix.		
D D:- C II	Euchasma, Billings, 186	N. C. Hand North for		
P., Divs. G, H, Queb. G., CS.	Blumenbachia, Billings.	Newfoundland North &c., Tablehead &c.		
Queb. G., Co.	Goniophora, Sowerby. 1			and the same of th
	carpomorphum, Dalm.			Gothland Russia England
Llandov., L.U.L.	cymbæformis. Sowerby.		Cong (County Galway).	Gothland, (Wales) Usk Llay
	, 20,000		(Shropshire)Minton &c.	sannan, Frid-y-Fedwer
				Herefordshire, Ludlov
	The state of the s		25 1111 00 1	Malvern.
Llandov				
L	Champania D. II.	7 1007		?
Orthoc. L., Pleta	Grammysia, De Verneui	t, 1837. Wesenberg (Esthonia).		
W., L.U.L	cingulata. Hising	wesenberg (Esthoma).		Dudley Esthonia Gothland
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	cinguinus, arioing.		***************************************	Westmoreland, Russia
				Malvern, (Ireland) Ferr
		the second secon		ter's Cove.
Llandov., L	var. α, ,,		Mayhill (England)	
r. r	0.1.		15	Usk, Ludlow.
U.L	" ß triangulata, Salter.			
L.U.L	wohliana McCar	High Thomas Undonbours		Westmorel., Benson Kno
L. C. L	,, γ obliqua, M'Coy.	High Thorns, Underbarrow (Westmoreland).		and the second second
U.L	extrasulcata. Salter	(westmoretand).		Benson Knot Kendal Hore
	Carter.			Chapel Norway Gothland
Corall. Lst	Goldfussi, Eichw.		***************************************	Isle Oesel, Piddul (Baltic).
CompactLst.(un-		(Isle Dago) Pyhalep.		(
certain).				
U.L	rotundata, M'Coy.		••••••	
				Kirkby Moor.

Grammysia.		199		DIMYARIA.
Subdivision.	Genus, Species, and Author.	Lower Stage.	Middle Stage.	Upper Stage.
Corall. Lst				
Carad	Hippomya, Salter, 1865. ringens, Salter.	(Normandy) May, Budleigh Salterton (Devonshire).		land) Ludlow, Kendal (Wales) Llandeilo
Div. 1, A. Gr., Llandov.	Ischarinia, Billings, 186 plicata, Billings.	6.	(Anticosti) Junction Cliff.	
Div. 1, A. Gr., Llandov., H. R. G.			" Macasty Bay.	
Dolom. Lst. with	Isocardia?, Lamarck, 18 caprina, Eichw.	Lake Ladoga (Russia), Pirna		
Orthoc. Pleta Fauna G. g. 1		(Esthonia), Hohenholm, I. Dago (Balt.).		(Bohemia) Chotecz.
11 29	Lucina, Bruguière, 1792. Hisingeri, Murchison.			" Hlubocep. (S. Gothland) Bursvick.
Pentam. Lst. ? W	neura, Eichw.		(Podolia) Orynine.	(Esthonia) Isle Oesel, (Goth land) Osergarn.
L. H. G	sinuata, Sowerby. sp. ind., Logan.	to: 1840		North and South Gothland.
W., L	The state of the s	•••••••••••••••••••••••••••••••••••••••		(Shropshire).
U.L	tardum, Barr.			Pentland Hills (Scotland) Ludlow (England). (Bohem.) Vavrovitz, Choteca
W., L	sp. ind. (several), Salter Lyrodesma, Conrad, 18	37.		Ludlow (Shropshire), North Wales.
		(Normandy) May, Caen, Budleigh Salterton, De- vonshire.		Salari Salari
Carad		(Wales) Marloes Bay. (New York) Oneida County, (Can. W.) North-west end Lake Ontario, (Wales)		
BL., Tr., Ut. Sl., H. R. G.		Yspatty Evan. (Can. W.) Middle Ottawa River, River Don, Lake Ontario, New York.		
H. R. G Tr	Matheria, Billings, 1858 brevis, Billings	(New York) Waterford. (Can.E.)LowerOttawaRiver.		
"	obtusa, ,, tenera, ,, Megalodon, Sowerby, 18	Lake St. John (Canada E.). 827 = Megalodus (Russia).		
Pentam. Lst Orthoc. Lst	unguis, Megalomus, Hall, 1852	Réval (Esthonia).		
Onond. S. Gp., Carad.,Guelph. Carad.	Canadensis, Hall	. Horderly (Engl.). (Murch.). (England) Church Stretton.		Galt Township (Canada W.
B., BL., Tr	Modiolopsis, Hall, 1847			
Tr., H. R. G	affinis, Helmersen Hall	. (Canada W.) Lake Ontario Humber River, Tennessee		South Gothland.
Carad., U.Llan- dov., Tr., L.		Wisconsin. (Canada East) Montreal.		
Pleta		Réval, Kirna, &c. (Esthon.). Isle Dago. (Wales) Gelli Grin		, Ludlow, Wenlock Edge (En
Tr	arcuata, Hal	(N.York) Herkimer County (Normandy) May, Budleigh Salterton (Devonshire)	Wales,	land).
Pleta	attenuata, Eichw	pebbles, (Esthon.) Wesenberg, Lyck- holm.		-

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Subdivision.	Genus, Spec		Lower Stage.	Middle Stage.	Upper Stage.
Tr Carad	aviculoides, Brycei,	Hall. Portlock.	(New York) Middleville. (Ireland) Tirnaskea, (Wales)		
Tr	carinata,	Hall.	Cader Dinmael. (N.York) Middleville, (Can.		The State of the S
Corall. Lst., L	complanata,	Sowerby.	W.) Winchester.		(Westmorel.) Kendal, Bridg
					north, Malvern (England Stormhill (Wales), (Is Oesel) Ficht, (Ireland Ferriter's Cove &c.
H. R. G L. H. G	cultrata.	Billings?	(Canada East) Yamaska.		(Canada E.) Cape Gaspé.
H. R. G	curta,	Conrad.	(N. York) Loraine, (Wisconsin) Mineral Point &c., (Can. W.) Lake Ontario,		
Corall, Lst	decussata,	Eichw.	Humber River.		(Isle Oesel, Baltic) Lodé.
	devexa,	Verneuil.	Réval, Baltischport (Baltic). Gostilitzy (St. Petersburg). Réval &c. (Baltic), Isles Dago and Odinsholm.		
NiagL. H. G., Tentac.	Dictæus, ? dubia,	Hall.			(New York, central) Herk
Lst. Carad	Dunoyeri,	Salter.	Desertcreate (Ireland).		mer County.
	elegantula,		(Portugal) Bussaco. (Ireland) Desertcreate, Tir-		
B., BL., Tr., H.	faba,	Conrad.	naskea, Wales? (New York) Lewis County,		
R. G.	Gesneri,	Billings.	(Can. W.) Humber River. (Can. W.) Ottawa City &c.		
W., L.U.L.	giobosa, gradata,	Eichw. Salter.	Réval &c. (Esthonia).		(Wales) Llandeilo, Usk, Llan
Pleta	Nilssoni. incrassata,	Eichw.	Réval &c. (Esthonia).		gadoc,(England)Abberley Walsall.
Carad	inflata,	M'Coy.	(Wales) Pen-Cerrig and Cymmerig.	ar testi t	
Pleta U.L		Eichw.	Poulkova (Russia),	(midD)	(Wales) Llandeilo, Hore
Carad		Hall.	(N. York) Jefferson County.		Chapel, (Engl.) Kendal Downton.
Tr		Salter.	(Normandy) May, Budleigh Salterton (Devonshire), pebbles.		
B., BL., Tr	lirata, Maia,	Billings.	Lake St. John (Canada E.).	Market Comment	The second second
Tr., H. R. G., Carad.	Meyeri,	**	(Can.E.)LowerOttawaRiver. (Normandy)May, (England) Horderley, (Wales) Aber-	The state of the s	
Bet hope			hirnant, Cader Dinmael, (Can. W.) Toronto, Cape Smyth, Lake Huron, (Can. E.) Yamaska, Pennsyl- vania, New York, South		
B., BL., Tr	mytiloides,	Hall.	Wisconsin. (N. York) Middleville, Lake Huron, North-west, Camp		A STATE OF THE STA
B., BL	nais,	Billings.	d'Ours. (Can.W.)Mid. Ottawa River.		Park Lane and Middleton
Tr	nasutus,	Hall.	Carlisle (Pennsylv.), (Can. E.) Murray Bay.		Park, Carmarthen?
Carad	Nerei,	Portlock.	Bardahessiagh(Irel.), Leisley		
L	Nilssoni,	Hising.	(Westmoreland).		Sweden, (Wales) Llangadoc Usk.
H. R. G Pleta, Carad	? nuculiformis, obliqua,		New York. (Normandy) Caen, (Caernary.) Bettws-y-Coed &c., Shropshire, (Russia) Ré-		Con.
BL., B., Tr	obtusa, Swallov	w, Billings.	val, Baltic. (Can. E.) Montreal, Point St. Clair, Missouri, (New York) Jefferson County.		11 11 11 11 11
	orbicularis,	10000	LUIK) Scherson County.		Committee of the commit

Subdivision.	Genus, Spe Autho		Lower Stage.	Middle Stage.	Upper Stage.
M. Sa		Hall.		(Can.W.) Lake Ontario, West end.	h 1
CL		"		(NewYork) Herkimer Co.	
Tr		D:11: "	NewYork (place not known).		
CH., Tr	parviuscula,	Billings.	(Can. E.) Montreal, (Can. W.) Cornwall, L. Huron, Lake Winnipeg, Rupert's		
L	perovalis,	Salter.	Land.		England,(Wales) Usk, Llan-
II D C	1 1 2:0 :-	TT. 11	CANTO CANTON AND AND AND AND AND AND AND AND AND AN		gadoc.
H. R. G BL	pholadiformis,	g. Whitney	S.Wisconsin, N.W.Michigan.		
U.L		Salter.	w isconsin.		(Wales) Llangadoc, Storm hill (Caermarthen).
Carad	postlineata.	M'Cov.	Meifod (Montgomeryshire).		mii (Caermartheii).
M. Sa	primigenia,	Hall.		(New York) Medina Vil-	
Carad			(Wales) Llangollen, Nant Joworth.		
L	quadrata, Anodontopsis				
Niag L. H. G	recta,	Hall.			
Carad	securiformis.	Portlock.	(Irel.) Tyrone, Desertcreate,		Arisaig (Nova Scotta).
Curum IIIIIII			(S. Wales) Haverfordwest &c., (Can E.) Yamaska.		
Div. 1, 2, A. Gr.,	striata,	Billings.			
Llandov.	1.14.	TT-11		&c.	OF W. L DW L.
CL., Niag					(Illinois) Chicago.
CL					
L. H. G BL			Wisconsin.	• • • • • • • • • • • • • • • • • • • •	(Nova Scotia) Arisaig.
H. R. G		"	New York.	ANTONIA STATE	
Tr	Trentonensis?,		,,	THE STREET	
H. R. G		"	(New York) Oneida County, (Ohio) Cincinnati.		
Niag					(New York) Lockport.
H. R. G	sp. ind., ,, (2),	Slimon.	(Ohio) Cincinnati.		(S.W. Scot.) Lesmahago.
	,, (-),	Salter.	(Normandy) May, Budleigh Salterton (pebbles).		(S. W. Ecot.) Dealinings
	,,	Honeyman.	(Person)		Arisaig (Nova Scotia).
Carad	"	Hisinger.	(Wales) Caernarvon, Bet- twys-y-Coed.	Called Internet	
"	"	Salter.	(Wales) Plas Madoc. Pont Rhievedog,		
		D D Owen	Llynfyllin.		
Tr	Myalina, Ko	minck, 1844.	Prairie du Chien (Wiscons.).		
Niag., Onon.S.G.		Worthen.			(Illinois) Chicago.
CL	,,,	Hall.		(N. York) Herkimer Co.	
w	Mytilus, Chemungensis.	Linnæus, Conrad			New York, Usk, Plas Mado
Carad			(Irel.) Tirnaskea, Lisbelaw,		(Wales).
w	The state of the s		Fermanagh.	and No.	(Wales) Llandeilo, Swanse
Carad., W., L			Gelli Grin, Bala (Wales)		Road.
					Caernarvonshire, Shrop shire.
Fauna G. g. 2 Carad.?, Llandov., W., L.		Barr Conrad	Tyrone, Desertcreate, Chair of Kildare.	(Wales) Carreg Llwyd Malvern, Mayhill, &c.	(Engl.) Dudley, Shelve Worcestershire, Derry
Carad	Nerei, Modiolopsis	Portlock	. ,,		more Glen (Ireland).
	simillimus,	M'Cov	Chair of Kildare (Ireland).		
Carad., W		Salter	(Wales) Plas Madoc, Bryr Craig, Usk.		Plas Madoc, Linsway Ba Pembrokeshire.
w	sp. ind.,				(Wales) Maes Tyddyn.
	Orthonota,	Conrad, 1838	=Nuculites, Leptodomus,	SANGUINOLITES, SANGUING	LARIA, TELLINITES.
Pleta	. ædilis.	Eichw	(Esthonia) D'Erras.		

Subdivision.	Genus, Spe Auth		Lower Stage.	Middle Stage.	Upper Stage.
U.L	affinis	McCon			(Westmorel) Ranson Kno
U.Llandov., U.L.	amus,	Sowerby.	•••	Tortworth (Gloncester,	(Engl)Kendal HagleyPar
C.Liandov., C.L.	amyguamia,	Sower by.	***************************************	shire).	Malvern, &c., (Wales) pa
				umre).	sim, (Scotland) Peebles.
Tilestone, U.L	angulifera.	M'Cov.			(Westmorel.)BensonKnot&
	angustata,				Nova Scotia.
L. H. G	arata.				Arisaig (Nova Scotia).
	annimata.	Sowerby.			
Tilestone	cingulata,	Salter.			Dudley, Llangadoc (Wales
W	complanata,				Linley, Bridgenorth (Engl.
	compressa,	Goldfuss.			Westmoreland.
H. R. G		Hall.	Canada, Cincinnati (Ohio).		(Gothland) Grotlingbo.
CL., Niag	curta,	Sowerby.			Ludlow, Wenlock, Wes
				(ore-bed).	moreland, (New York
m:1					Wolcott.
Tilestone		35.0	•••••••••••	***************************************	Horeb Chapel (S. Wales).
U.L	decipiens,	M'Coy.			(Westmorel.) Benson Kno
					(Wales) Lechclawdd, (S
	extrasulcata,	Calton			W. Scotl.) Kirkeudbrigh
" 9	faba,	Emmone	New York.		Frienrug, Liangadoc (Wales
L		M'Cov	New Tork.		Kirkby Moor Benson King
M	Leptodomus.	at coy.		***************************************	(Westmoreland).
Carad	grammysioides	Salton	(Normandy) May, Caen,		(11 coculorciand).
	b. many brondes,	Conter.	(Engl.)BudleighSalterton.		
Llandov., L.L	impressa.	Sowerby.	(2080)2000		(Engl.) Ludlow. Delbury
231111111111111111111111111111111111111	impreces,	Zonezej.			Ledbury.
Tr	inflata.	Hall?	New York.	more and the second	
U.Llandov., W	inornata,	Phill.		Marloes Bay	Marloes Bay, Usk Tunne
					(Wales), Kirkcudbrigh
				DOMESTIC STATE OF THE PARTY OF	(Scotland).
Pleta	macromya,	Eichw.	D'Erras (Esthonia).		
		nt,Rouault.	(France) La Manche.		
Bala, H. R. G	nasuta,	Conrad.	NewYork, (Wales) Allt-y-ga-	Kamenetz (Podolia).	
			der,Shropshire,Horderley.		
	obovata,		Egool, County Mayo.		mile been the second
H. R. G			Canada,(N.York)Loraine &c.		
	Pellicoi,	Verneuil.	(France)La Manche. (Spain)		
T D C	1 1111	0 1	Almaden, Romeral, &c.		
H. R. G	pholidis,		(N. York) Oswego County.		
Carad	postimeata,	Dhilling	(Merioneth) Bala Lake.		Freshwater East (Pembroke
U.L	Arca.	r minps.			shire).
L		Salter			Westmoreland
	semisulcata.	Saiter.	••••••		Westmoreand.
W., L		Sowerhy			(Gothl.) Grotlingho (Engl.
, 25	i coulding	Donerby.			Dudley, Ludlow, &c., Us
					(Wales).
L.L	rigida.				(England) Malvern, (Wales
		"			Llandeilo, Gothland.
U.L	rotundata,	,,			(Engl.) Ludlow &c., Wales.
Carad., U.L	semisulcata,	,,	(S.W. Scotland) Ayrshire,		Builth, Llandeilo, &c. (Wales
	Modiola.		Muloch.		Kirkby Moor, Westmore
2000		2/20/20/20/20/20			land.
Carad			(Ireland) Desertcreate.		2010
L.U.L					(Engl.) Downton, Abberley
0 1	Cypricardiun				Westmoreland, Wales.
Carad	sulcata,	Hisinger.	?		
Corall. Lst					Kamenetz (Podolia).
U.L		Salter.	•••••		
	Grammysia.	35.0			(Wales).
"	truncata,	M'Coy.			
					(Westmorel.), Deer Hope Pentlands (Scotland).
U.L	undata	Samanhu			Dudley, Delbury, Presteign
	unitada,	sowerby.			&c.
Carad	verisimilis	Salter	(Montgomeryshire) Allt-y-		
Cardin IIII	- Crionining,	Daiter.	gader.	Strate Line	
Carad	sp. ind.	Salter	Caernarvonsh. &c. (Wales).	AND THE RESERVE OF THE PARTY OF	
************		Honeyman	Caernaryonsii. &c. (wates).		Arisaig (Nova Scotia).
?	"	Selwyn.		Victoria (SouthAustralia)	8 (
	11	Bonissent.	(France) La Manche.	(
	Palæarca, Hai	1, 1847-57	(CYRTODONTA, Billings, 185	8; CYPRICARDITES, Conra	d, 1847. An illegitimate
			9., 100	NO.	
		The same of the sa	The second secon		name, J.W.S.)
Llandov., Div. 1,	acutumbona,	Billings.		(Anticosti) Junction Cliff.	name, J.W.S.)

Subdivision.	Genus, Speci Author		Lower Stage.	Middle Stage.	Upper Stage.
Stiper Stones, L.	amygdalus,	Salter.	Shropshire, Cefn Gwynlle		
			Mine, Norbury.		
Carad	anglica, I	Orbigny.	(Wales) Allt-y-gader.		
	? Anticostiensis,	Billings.	(Anticosti) English Head.		
Tr		Salter.	West Tasmania.		
Llandov	aviculoides, Billingsiana,	"	(Wales) Montgomeryshire, Nant Torweth, Llangollen.		
CH	breviuscula.	Billings.	(Canada W.) Ottawa City.		
Carad			(Wales) Meifod, Nant Tor- weth, (Shropshire) Hor- derley.		
BL., Tr	Canadensis,	Billings.	(Can.E.)Montreal, (Can.W.) Ottawa City, N.W. end of Lake Huron.	Water Marie	
Tr	compressa,	Salter.	West Tasmania.		
	cordiformis.	March 10 M 10 M	North-west end Lake Huron.		
." н.". R. G	distorta,		West Tasmania.		
H. R. G	Emma,		(Anticosti) English Head.		
CH	taba,	. 22	(Can. E.) Grenville, Lower		
L. H. G	floruges		Ottawa River.		
Tr		Salter.	(Canada E.) Cape Gaspé. West Tasmania.		
H. R. G	Harrietta,	Billings.	(Anticosti) English Head.		
,,	Hindii, Headi,		(Canada W.) Toronto.		
CH., BL., Tr		,,	(Can. E.) Montreal, Lake St.		
		,,	Louis, (Can. W.) Lough- borough, North-west Lake Huron.		
Tr	inflata,		West Tasmania.		
H. R. G	? insularis,		Anticosti, West end.		
L. H. G	Modiolopsis.	"	(Canada E.) Cape Gaspé.		
BL., Tr	Lencothes		(Can.W.) Mid.Ottawa River.		
Carad		Salter.	(N. Wales) Bala, Moel-y- Garnedd.		
BL	Niota,	Hall.	Wisconsin.		
Tr	obliquata,		West Tasmania.		
Carad	obscura,	22	(Wales) Meifod, Bala, Yspatty Evan.		
BL., Tr	obtusa,	Hall.	Wisconsin, N.W. Tennessee,		
	Ambonychia.		N.W. Michigan, (N.York) Watertown, Anticosti, W. end.		
L. H. G	orbicularis,	Billings.	(Can. E.) Gaspé Bay, Anti- costi.		
Tr	4		West Tasmania.		
H. R. G		Billings.	(Anticosti) Charlton Point.		
"	ponderosa,	,,	Cape Smyth, Lake Huron, North-east end.		
Carad	quadrata, Matheria?	Salter.	(Wales) Bettws-y-Coed.		
BL	rectirostris, Hall				
Tr			Wast Tasmania.	The state of the s	
BL	rotundata, Halla rugosa,		(Can.E.)Montreal, (Can.W.)		
,,	Saffordi,	,,	Middle Ottawa River, Tennessee (U. S. America).		
Carad	Edmondia. secunda,	Salter.	May (Normandy), Budleigh		
CH., H. R. G	sigmoidea,	22022	Salterton, Devonshire. Canada East, (Anticosti) Ma-		
Lowest Llan	socialis,	Salter.	casty Bay &c. (Wales) Ty-obry, Penrhyn,		
BL., Tr	spinifera,	Billings.	Tremadoc. (Can.W.) Mid.OttawaRiver.		
"	subangulata, Edmondia.		(N. York) Jefferson County, (Can.W.) La Cloche, Lake		
CH To	enhaginets	D:111	Huron, Mid.OttawaRiver.		
CH., Tr	suocarinata,	Billings	(Can. E.) Montreal, (Can. W.) Mid. Ottawa River,		
T	subspatulata,	TT 11	(N. York) Jefferson County.		

Subdivision.	Genus, Spec		Lower Stage.	Middle Stage.	Upper Stage.
B. Tr	subtruncata,	Hall	New York, Missouri, (Can.		
D., 11	Edmondia.	******	W.) Middle Ottawa.		
Tr	ventricosa. Hall	&Whitney	Wisconsin, N.W. Michigan,		
***	Edmondia.	ce ii mieney	(Tennessee) Stone's River,		
	Lanonteta.		(New York) Lowville.		
	vetusta,	Whitney	Missouri, (New York) Her-		
TI TI D.C.	Cardiomorpho		kimer County.		
Llan., H. R. G	unguiata,	Dillings	Macasty Bay (Anticosti), Wales.		Branch Branch
em.	1	0.1	The state of the s		
Tr			West Tasmania.		
	Psammobia,	Lamarck, 1	818.		C-01 1 P :
	prisca,	Hising.		T (0.1	Gothland, Russia.
9	rigida,	Sowerby.		Leenane (Galway)	Aymestry (England).
7	sp. ind.	Selwyn.		Victoria (Australia).	
0 10	Pseudaxinus,				
Carad.?			Budleigh Salterton (Devon).		
	Pyronomæus	, Hall, 185	2.	~~	(C 1 W 0 D 1
CL., Niag. ?	cuneatus,	Hall.		(N.York) Oneida County.	(Canada West) Dundas.
	Redonia, Rou				
L.Llan	Anglica,	Salter.	Shropshire, west of Stiper		
200 100 200 200 100		1000000	Stones, Lord's Hill, Shelve.		To a series of the series of the series of
Fauna D. d. 1			(Bohemia) Rokitzan.		
	Deshayesiana,	Verneuil.	(France) Angers, Vitré, Cher-		
			bourg, (Portugal)Bussaco,		
			(Spain) Fontanosus, Al-		
	and the same of th		caraz &c. (W. Asturia).		
	Duvaliana,	Rouault.	(Brittany) Vitré, (Spain) W.		
			Asturia, (Portugal) Bus-		
	Annual Control		saco, (France) La Manche		
Carad.?	Lindfordii?.	Salter.	Budleigh Salterton, pebbles?		: - 1 J. K. C.
	transversa?,				
Art .		Bonissent.	(France) La Manche.		
	Ribeiria, Shar				
CS		Billings.	Grenville, Ottawa River.		
L.Llan.			Lord's Hill, Shelve (Salop).		
Carad			Budleigh Saltert.(Devonsh.).		
CS			Grenville (Canada East).	The best of the Party of	
Carad			BudleighSalterton(boulders)		
Fauna D. d. 1, 4,			Portugal, (Spain) Almaden,		
5, Carad		bhai pe.	Bohemia.		
		Con 1855	=ORTHONOTA, Conrad.		
U.L		M'Cor	- Okinosora, Conrau.		Benson Knot (Westmorel
·	Tellinomya	Hall 1847	=Mytiloides. (An inadm	issible genus = Ctenodonta	chiefly J.W.S.)
	æquilateralis,		—Milliones (Milliado		
Fr			Wisconsin (U. S. America).		and a state
Tr		**	(N.York, N.W.) Jefferson Co.		
	angustata,		(21.201 a,21.11.) o eller soll Co.		(Nova Sactia) Anissia
L. H. G		**		Control of the Contro	
	accessorately				
	curta	19			" "
Die	curta,	"			
CL Fr	donaciformis,	"	New York.	(N.Y.)Wolcott, Wayne Co.	
Гr	curta, donaciformis, dubia,	"	New York. N.W. Michigan, (New York)	(N.Y.)Wolcott, Wayne Co.	
Гг	donaciformis, dubia,	"	New York. N.W. Michigan, (New York) Herkimer County &c.	(N.Y.)Wolcott, Wayne Co.	
Гг ,, СL	donaciformis, dubia, elliptica,	"	New York. N.W. Michigan, (New York) Herkimer County &c.	(N.Y.)Wolcott, Wayne Co.	
Tr ,, CL Grey Sa. Shales	donaciformis, dubia, elliptica,	"	New York. N.W. Michigan, (New York) Herkimer County &c.	(N.Y.)Wolcott, Wayne Co.	
Ir. ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	donaciformis, dubia, elliptica, fecunda,	"	New York. N.W. Michigan, (New York) Herkimer County &c. S.W. Wisconsin, Iowa.	(N.Y.)Wolcott, Wayne Co.	
Tr	donaciformis, dubia, elliptica, fecunda, gibbosa,	"	New York. N.W. Michigan, (New York) Herkimer County &c. S.W. Wisconsin, Iowa. (New York) Middleville.	(N.Y.)Wolcott, Wayne Co.	
Ir	donaciformis, dubia, elliptica, fecunda, gibbosa, inflata,	" " " " " " " " " " " " " " " " " " "	New York. N.W. Michigan, (New York) Herkimer County &c. S.W. Wisconsin, Iowa. (New York) Middleville. Wisconsin.	(N.Y.)Wolcott, Wayne Co.	
Ir. ,, CL. Grey Sa. Shales above Tr. Ir. CL.	donaciformis, dubia, elliptica, fecunda, gibbosa, inflata, lata,))))))))))))))))))))))))))	New York. N.W. Michigan, (New York) Herkimer County &c. S.W. Wisconsin, Iowa. (New York) Middleville. Wisconsin. (N. York) Wayne County.	(N.Y.)Wolcott, Wayne Co.	
Ir	donaciformis, dubia, elliptica, fecunda, gibbosa, inflata, lata,))))))))))))))))))))))))))	New York. N.W. Michigan, (New York) Herkimer County &c. S.W. Wisconsin, Iowa. (New York) Middleville. Wisconsin. (N. York) Wayne County. Penmorpha, Tremadoc (N.	(N.Y.)Wolcott, Wayne Co.	
Ir. CL. Grey Sa. Shales above Tr. Fr. CL. Lingula Slate	donaciformis, dubia, elliptica, fecunda, gibbosa, inflata, lata, lingulicomes,	" " " " M'Coy.	New York. N.W. Michigan, (New York) Herkimer County &c. S.W. Wisconsin, Iowa. (New York) Middleville. Wisconsin, (N. York) Wayne County. Penmorpha, Tremadoc (N. Wales).	(N.Y.)Wolcott, Wayne Co.	
Ir. "" CL. Grey Sa. Shales above Tr. Fr. CL. Lingula Slate Γr.	donaciformis, dubia, elliptica, fecunda, gibbosa, inflata, lata, lingulicomes, machæriformis,	", ", ", ", M·Coy.	New York. N.W. Michigan, (New York) Herkimer County &c. S.W. Wisconsin, Iowa. (New York) Middleville. Wisconsin, (N. York) Wayne County. Penmorpha, Tremadoc (N. Wales). (N. York) Wayne County.	(N.Y.)Wolcott, Wayne Co.	
Fr. CL. Grey Sa. Shales above Tr. Fr. CL. Lingula Slate	donaciformis, dubia, elliptica, fecunda, gibbosa, inflata, lata, lingulicomes, machæriformis,	", ", ", ", M·Coy.	New York. N.W. Michigan, (New York) Herkimer County &c. S.W. Wisconsin, Iowa. (New York) Middleville. Wisconsin. (N. York) Wayne County. Penmorpha, Tremadoc (N. Wales). (N. York) Wayne County. Wisconsin, (N. York) Tren-	(N.Y.)Wolcott, Wayne Co.	
CL. Grey Sa. Shales above Tr. Fr. Lingula Slate Fr. Fr. Fr.	donaciformis, dubia, elliptica, fecunda, gibbosa, inflata, lata, lingulicomes, machæriformis, nasuta,	" " " " M'Coy. Hall.	New York. N.W. Michigan, (New York) Herkimer County &c. S.W. Wisconsin, Iowa. (New York) Middleville. Wisconsin. (N. York) Wayne County. Penmorpha, Tremadoc (N. Wales). (N. York) Wayne County. Wisconsin, (N. York) Trenton Falls &c.	(N.Y.)Wolcott,WayneCo. (N. York) Herkimer Co.	"
CL. Grey Sa. Shales above Tr. Fr. CL. Lingula Slate Fr., BL.	donaciformis, dubia, elliptica, fecunda, gibbosa, inflata, lata, lingulicomes, machæriformis, nasuta,	", ", ", ", ", ", ", ", ", ", ", ", ", "	New York. N.W. Michigan, (New York) Herkimer County &c. S.W. Wisconsin, Iowa. (New York) Middleville. Wisconsin. (N. York) Wayne County. Penmorpha, Tremadoc (N. Wales). (N. York) Wayne County. Wisconsin, (N. York) Trenton Falls &c.	(N.Y.)Wolcott,WayneCo. (N. York) Herkimer Co.	
CL. Grey Sa. Shales above Tr. Fr. CL. Lingula Slate Fr. Fr., BL. Cent. L., L.H.G.	donaciformis, dubia, elliptica, fecunda, gibbosa, inflata, lata, lingulicomes, machæriformis, nasuta,	" " " " M'Coy. Hall. "	New York. N.W. Michigan, (New York) Herkimer County &c. S.W. Wisconsin, Iowa. (New York) Middleville. Wisconsin. (N. York) Wayne County. Penmorpha, Tremadoc (N. Wales). (N. York) Wayne County. Wisconsin, (N. York) Trenton Falls &c.	(N.Y.)Wolcott,WayneCo. (N. York) Herkimer Co.	(N.York) Herkimer County
CL. Grey Sa. Shales above Tr. Fr. CL. Lingula Slate Fr., BL. Frent. L., L.H.G. BL. Gr., L. H. G.	donaciformis, dubia, elliptica, fecunda, gibbosa, inflata, lata, lingulicomes, machæriformis, nasuta, nucleiformis, ovata, sanguinolaroidea,	", ", ", ", ", ", ", ", ", ", ", ", ", "	New York. N.W. Michigan, (New York) Herkimer County &c. S.W. Wisconsin, Iowa. (New York) Middleville. Wisconsin. (N. York) Wayne County. Penmorpha, Tremadoc (N. Wales). (N. York) Wayne County. Wisconsin, (N. York) Trenton Falls &c. Wisconsin (U. S. America). (New York) Middleville	(N.Y.)Wolcott,WayneCo. (N. York) Herkimer Co.	(N.York) Herkimer County
Fr	donaciformis, dubia, elliptica, fecunda, gibbosa, inflata, lata, lingulicomes, machæriformis, nasuta, nucleiformis, ovata, sanguinolaroidea, ventricosa.	", ", ", ", ", ", ", ", ", ", ", ", ", "	New York. N.W. Michigan, (New York) Herkimer County &c. S.W. Wisconsin, Iowa. (New York) Middleville. Wisconsin, (N. York) Wayne County. Penmorpha, Tremadoc (N. Wales). (N. York) Wayne County. Wisconsin, (N. York) Trenton Falls &c. Wisconsin (U. S. America). (New York) Middleville Wisconsin.	(N.Y.)Wolcott,WayneCo. (N. York) Herkimer Co.	(N.York) Herkimer County
CL. Grey Sa. Shales above Tr. Fr. CL. Lingula Slate Fr. Fr., BL. Fent. L., L.H.G. BL. Fr., L. H. G.	donaciformis, dubia, elliptica, fecunda, gibbosa, inflata, lata, lingulicomes, machæriformis, nasuta, nucleiformis, ovata, sanguinolaroidea, ventricosa. Vanuxemia,	", ", ", ", ", ", ", ", ", ", ", ", ", "	New York. N.W. Michigan, (New York) Herkimer County &c. S.W. Wisconsin, Iowa. (New York) Middleville. Wisconsin, (N. York) Wayne County. Penmorpha, Tremadoc (N. Wales). (N. York) Wayne County. Wisconsin, (N. York) Trenton Falls &c. Wisconsin (U. S. America), (New York) Middleville Wisconsin. 858.	(N.Y.)Wolcott,WayneCo. (N. York) Herkimer Co.	(N.York) Herkimer County
Fr. CL. Grey Sa. Shales above Tr. Fr. CL. Lingula Slate Fr. Fr., BL. Fent. L., L.H.G. BL. Fr., L. H. G.	donaciformis, dubia, elliptica, fecunda, gibbosa, inflata, lata, lingulicomes, machæriformis, nasuta, nucleiformis, ovata, sanguinolaroidea, ventricosa. Vanuxemia,	", ", ", ", ", ", ", ", ", ", ", ", ", "	New York. N.W. Michigan, (New York) Herkimer County &c. S.W. Wisconsin, Iowa. (New York) Middleville. Wisconsin, (N. York) Wayne County. Penmorpha, Tremadoc (N. Wales). (N. York) Wayne County. Wisconsin, (N. York) Trenton Falls &c. Wisconsin (U. S. America). (New York) Middleville Wisconsin.	(N.Y.)Wolcott,WayneCo. (N. York) Herkimer Co.	(N.York) Herkimer County
Fr. CL. Grey Sa. Shales above Tr. Fr. CL. Lingula Slate Fr., BL. Fent. L., L.H.G. BL. Fr., L. H. G BL. H. R. G.	donaciformis, dubia, elliptica, fecunda, gibbosa, inflata, lata, lingulicomes, machæriformis, nasuta, nucleiformis, ovata, sanguinolaroidea, ventricosa. Vanuxemia, Bayfieldi,	M'Coy. Hall. " Billings, 1 Billings.	New York. N.W. Michigan, (New York) Herkimer County &c. S.W. Wisconsin, Iowa. (New York) Middleville. Wisconsin. (N. York) Wayne County. Penmorpha, Tremadoc (N. Wales). (N. York) Wayne County. Wisconsin, (N. York) Trenton Falls &c. Wisconsin (U. S. America). (New York) Middleville Wisconsin. 858. (Can. W.) Bayfield Sound, Lake Huron.	(N.Y.)Wolcott,WayneCo. (N. York) Herkimer Co.	(N.York) Herkimer County
Fr	donaciformis, dubia, elliptica, fecunda, gibbosa, inflata, lata, lingulicomes, machæriformis, nasuta, nucleiformis, ovata, sanguinolaroidea, ventricosa. Vanuxemia, Bayfieldi, Dixoniensis, Mee	M'Coy. Hall. " Billings, 1 Billings.	New York. N.W. Michigan, (New York) Herkimer County &c. S.W. Wisconsin, Iowa. (New York) Middleville. Wisconsin. (N. York) Wayne County. Penmorpha, Tremadoc (N. Wales). (N. York) Wayne County. Wisconsin, (N. York) Trenton Falls &c. Wisconsin (U. S. America). (New York) Middleville Wisconsin. 858. (Can. W.) Bayfield Sound, Lake Huron.	(N.Y.)Wolcott,WayneCo. (N. York) Herkimer Co.	(N.York) Herkimer County
Fr. CL. Grey Sa. Shales above Tr. Fr. CL. Lingula Slate Fr., BL. Fent. L., L.H.G. BL. Fr., L. H. G BL. H. R. G.	donaciformis, dubia, elliptica, fecunda, gibbosa, inflata, lata, lingulicomes, machæriformis, nasuta, nucleiformis, ovata, sanguinolaroidea, ventricosa. Vanuxemia, Bayfieldi, Dixoniensis, Mee	M'Coy. Hall. " Billings, 1 Billings.	New York. N.W. Michigan, (New York) Herkimer County &c. S.W. Wisconsin, Iowa. (New York) Middleville. Wisconsin. (N. York) Wayne County. Penmorpha, Tremadoc (N. Wales). (N. York) Wayne County. Wisconsin, (N. York) Trenton Falls &c. Wisconsin (U. S. America). (New York) Middleville Wisconsin. 858. (Can. W.) Bayfield Sound, Lake Huron. (Illinois) Dixon. (Can. E.) Montreal, (Can.	(N.Y.)Wolcott,WayneCo. (N. York) Herkimer Co.	(N.York) Herkimer County
CL. Grey Sa. Shales above Tr. Fr. CL. Lingula Slate Fr., BL. Fent. L., L.H.G. BL. Fr., L. H. G BL. H. R. G.	donaciformis, dubia, elliptica, fecunda, gibbosa, inflata, lata, lingulicomes, machæriformis, nasuta, nucleiformis, ovata, sanguinolaroidea, ventricosa. Vanuxemia, Bayfieldi, Dixoniensis, Mee	M'Coy. Hall. " Billings, 1 Billings.	New York. N.W. Michigan, (New York) Herkimer County &c. S.W. Wisconsin, Iowa. (New York) Middleville. Wisconsin. (N. York) Wayne County. Penmorpha, Tremadoc (N. Wales). (N. York) Wayne County. Wisconsin, (N. York) Trenton Falls &c. Wisconsin (U. S. America). (New York) Middleville Wisconsin. 858. (Can. W.) Bayfield Sound, Lake Huron. (Illinois) Dixon. (Can. E.) Montreal, (Can.	(N.Y.)Wolcott,WayneCo. (N. York) Herkimer Co.	(N.York) Herkimer County
Fr	donaciformis, dubia, elliptica, fecunda, gibbosa, inflata, lata, lingulicomes, machæriformis, nasuta, nucleiformis, ovata, sanguinolaroidea, ventricosa. Vanuxemia, Bayfieldi, Dixoniensis, Mee inconstans,	M'Coy. Hall. " Billings, 1 Billings.	New York. N.W. Michigan, (New York) Herkimer County &c. S.W. Wisconsin, Iowa. (New York) Middleville. Wisconsin. (N. York) Wayne County. Penmorpha, Tremadoc (N. Wales). (N. York) Wayne County. Wisconsin, (N. York) Trenton Falls &c. Wisconsin (U. S. America). (New York) Middleville Wisconsin. 858. (Can. W.) Bayfield Sound, Lake Huron. (Illinois) Dixon. (Can. E.) Montreal, (Can. W.) Middle Ottawa River,	(N.Y.)Wolcott,WayneCo. (N. York) Herkimer Co.	(N.York) Herkimer County
Fr	donaciformis, dubia, elliptica, fecunda, gibbosa, inflata, lata, lingulicomes, machæriformis, nasuta, nucleiformis, ovata, sanguinolaroidea, ventricosa. Vanuxemia, Bayfieldi, Dixoniensis, Mee inconstans,	M'Coy. Hall. " Billings, 1 Billings. k&Worth. Billings.	New York. N.W. Michigan, (New York) Herkimer County &c. S.W. Wisconsin, Iowa. (New York) Middleville. Wisconsin. (N. York) Wayne County. Penmorpha, Tremadoc (N. Wales). (N. York) Wayne County. Wisconsin, (N. York) Trenton Falls &c. Wisconsin (U. S. America). (New York) Middleville Wisconsin. 858. (Can. W.) Bayfield Sound, Lake Huron. (Illinois) Dixon. (Can. E.) Montreal, (Can.	(N.Y.)Wolcott,WayneCo. (N. York) Herkimer Co.	(N.York) Herkimer County

Summary (Geographical).

7	Countries inhabited	-01+0001-442240-101-01-01-01-0040200-200-000000	35 countries.
	Number of Species.		481
	Grand Total of Appearances.		655
	Total (Europe).	- :2040-054824 :- 0 : : :- 5- :0404 :02 :25800- : 10- :- 6	420
	.einenseT		17
	South Australia.		20
	India, North.		0
	Baltic Russia.		33
	Russia.		6
eš	Sweden.		215
&c.	Norway.		G1
EUROPE	Germany) Harz.		100
000	Bohemia.		234
5	Franconia.		01
B	Sardinia.		22
	Portugal.		131
	France.		351
	100000000000000000000000000000000000000		66 66
	Wales.		
	England		284
	Ireland.	-	36 12
	Total (America).		235
-	Newfoundland.		~
	Alingan Islands.		-
1 1	Nova Scotia.		8 6
	Anticosti Island.		
A.	Canada East.		037
RICA	Canada West.		67 40
ER	Pennsylvania.		26
AME	Tennessee.		4
7	oidO.		10
	Illinois.		=
	LewoI		21
	.imossiM		00
1	Wisconsin.	9 9	8
	N.W. Michigan.		8 9
	Rupert's Land.		C-1
	Bolivia (S. Amer.).		00
	Genera.	Actinodonta Anatina? Anodontopsis Area Astarte? Axinus Cardiomorpha Cardiomorpha Cardium Cleidophorus Cucullella Cypricardia Edmondia Edmondia Eleuchasma Grammysia Hippomya Ischarinia Ischarinia Ischarinia Ischarinia Ischarinia Ischarinia Mydlius Mydlius Mydlius Mydlius Peeudaxinus Peeudaxinus Peeudaxinus Peeudaxinus Peeudaxinus Redonia Riberia Kiberia Tellinintes Tellinomya Vanuxemia	

SUBKINDGOM MOLLUSCA. PROVINCE ODONTOPHORA. CLASS PTEROPODA, HETEROPODA (NUCLEOBRANCHIATA).

Subdivision.	Genus, Spec		Lower Stage.	Middle Stage.	Upper Stage.
Carad.,Llandov., Div. 1, Anti- costi Gr., Tile- stone.		Montfort, Sowerby.	1808. (Anticosti Isl.)EnglishHead, Portugal, (Spain) Almaden &c., Bohemia, (Engl.) Horderley, River Onny, Norway.	(Wales) Haverfordwest,	
Carad	Alixi,	Rouault.	Tyrone (Íreland). Vitré (France). (Esthonia) Wesenberg, Isle Odinsholm (Baltic), Rops- cha (St. Petersburg).		
Guelph	angustatus,	Billings.	······		Cape Hurd, Guelph (Canad West).
P. Passage beds, U.Tremad.		Salter.	Tremadoc, Llanerch, Garth, &c. (Wales).		relative to the state of the st
B., BL., Tr		Billings.	(Can. E. &W.)Lake St. John, Middle Ottawa River.		Samuel and Administration of the Company
Orthoc. Lst	arquatus,		Poulkova(Russ.), Isle Odins- holm) Esthonia.		EUR 1 1 2 30
Corall. Lst. Sch. Pentam.Lst., Co- rall. Lst.					
B., BL., Tr	bidorsatus,	Hall.	New York, Middle Ottawa River (Canada West).		
Tr., Utica Slate, H. R. G., M. Sa., Fauna D. d. 1, 2, &c., Llan., Car., W., Pleta, Div. 1, Anticos. G. = Llandov. Tr.	var. acutus,	Sharpe.	(Spain) Sierra Morena &c., Portugal, Brittany, La Manche (France), (Boh.) Rokitzan, (England) Mal- verns, Westmorel., (S.W. Scotl.) Saugh Hill, (Wales) Garn, Meifod, &c., (Irel.) Tirnaskea, Isle Dago (Bal- tic), Christiania (Norway), Isle Anticosti, Lake St. John, Murray Bay, Lorette, Montreal (Can.E.), Ottawa River (Can. W.), Dubuque &c. (Iowa), Mineral Point (Wisconsin). HerkimerCo. &c. (New York), Ohio, N.W. Michigan (Lake Su- perior). (N. York) with B. bilobatus, Norway.	Drummuck, S. Wales, Malvern, (Anticosti)	shire).
Llan., Car.,Llan- dov.	,, β, compr	essus, ,,	"	Ireland.	
Tr Faunæ F, G. g. 1			(N. York) Trenton Falls &c.		Bohemia, Tetin, Lochko
Granul Dalam	Romana 2	Fisher			Konieprus.
Granul.Dolom Div.1, Antic.Gr., Llandov., H. R. G.			(Isle Anticosti) MacastyBay.		(Ourar) Dogostowsk.
H. R. G Carad., Llandov., W., U.L.			(New York) Loraine &c. (N. Wales) Cerrig-y-druid- ion, Twll-ddu, Portugal?		(Wales) Horeb Chapel, Pla Madoc, &c., (Irel.) Tonlo gee, (Nova Scotia) Arisai
	compressus, conspicuus, contortus,	Eichw.	(Can.W.) Mid. Ottawa River. D'Erras, Lyckholm (Estho.). Poulkova (Russia). Isle Dago, Pyhalep (Baltic). Corndon Hills(Wales), Thu- ringia.		6-7) (
Brandschiefer Pleta, Carad., U. Llandov.,W.,L.	dilatatus;	Sowerby.	Esthonia. (S.W. Scot.) Mullock &c., Tyrone, (N.Wales) Cerrig- y-druidion, presqu'ile de Nouk (Esthonia).	(Livon.) Fennern, (England) Mayhill, (Wales) Mandinam.	Gothland, Dudley, Ledbur New York, Ludlow, A mestry, Tirnaskea (Irel.)
B., BL., Tr	disculus,	Billings.	(Can.W.) Ottawa City, (Can. E.)L. St. John, Blue Point.		•

Subdivision.	Genus, Spe Auth		Lower Stage.	Middle Stage.	Upper Stage.
Compact Pleta Carad., U.L	Duriensis.	Sharpe.	Gatchina (Russia). (Portugal) Vallongo. Dolydd, Ceiriog (Berwyn Mountains).	Norbury, Shelve	Arisaig (Nov. Sco.), (Wale HorebChapel, Plas Mado (England) Underbarrov Ludlow, Felindre, Ma vern.
Carad., Llandov.	falcatus,	Salter.		(S.W. Scotl.) Drummoch, Ayrshire.	
H. R. G	fraternus, Ganesa,	Billings. Salter.	(Anticosti Isl.)EnglishHead. Niti (Himalaya), Chorhoti Pass.		
	gibbus,				Tirnaskea, Tyrone (Ireland
Pleta	granosus,		Davillana (Davila)		Bogoslowsk (Ural).
L.Llan	hippopus,	Salter.	Poulkova (Russia). Shropshire, Kitton Castle, Shelve.		
L.L	infundibulum,	,,	Sherve.		(Engl.) Vinnal Hill, Ludlov Ledbury.
Orthoc. L., Pleta	Ingricus, lateralis,	Eichw.	Poulkova (Russia). (Isle Dago, Baltic) Hohen- holm.		
L. H. G	Laurenticus,	Billings?	Bain, Vitré (France).		(Canada E.) Cape Gaspé.
ArdoissièreSchist	l'Huissierei,	Rouault.	Bain, Vitré (France).		
Pleta			Isle Odinsholm, Wesenberg (Esthonia).		
Pleta	macer,	Billings.	(Can. W.) Leeds County &c. Isle Odinsholm (Baltic).		and the state of
H. R. G	miser.	"	Macasty Bay (Anticosti).		
P., Low.Tremad.	multistriatus,	Salter.	Tremadoc, Llanerch(Wales).		The second of th
Llan	striatus.	D'Orbigny.			(S. Wales) Horeb Chape Felindre, Malvern.
Orthoc, Lst	nautarum.	Salter.	Poulkova (Russia).	***************************************	Arctic Seas (America), Dur
Pleta	navicula, nitens,		(Esthonia) Réval, Isle Dago, Hohenholm (Baltic). Presqu'île de Nouk (Estho.).		das Isle &c.
Fauna D. d. 1 H. R. G., Carad.	nitidus,	Barr.	(Bohemia) Rokitzan. (N. & S. Wales) Llanwddyn, Bala, &c., (England) Hor- derley.		
Llandov., U.L	obtectus,	Phill.	ucity.	(Wales) Marloes Bay	(Wales) Marloes Bay.
Llan., Carad	ornatus,	Conrad.	(Can. W.) Point Rich, Lake Huron, (N. Wales) Llan- gollen, Nant Francon.		
Queb. Gr			Stanbridge, (Can. E.) Lake Champlain.		April 18 January
Sh. above Tren- ton Lst.		2000	Wisconsin.		
			01 1 01 12 0 1 1	••••••	Chicago (Illinois).
Arenig, Llan., Carad.	Perturbatus, Euomphalus.	Sowerby.	Shelve, Shropshire, Scotland, (N. & S. Wales) Bangor, Abereiddy Bay, St. David's, Whitesand Bay, Pensarn Green (Ireland).		
Tr			New York (U. S. America).		
U.Pentam. Lst		Hall.	(D		(New York) Schoharie.
Tr	pugnus, punctifrons,		Tasmania West. New York, (Canada West)		
Orthoc. Lst		Eichw.	Middle Ottawa River. Poulkova (Russia). (Jele Dago) Hohenholm		
сн."	radiatus, rotundatus,	Hall.	(Isle Dago) Hohenholm. New York, (Canada West) Middle Ottawa.		
Carad	semirugosus,		(Wales) Gwreiddian, Llan- wddyn.		HER THE LAND OF THE PARTY OF TH
Orthoc. Lst			Poulkova (Russ.), IsleOdins- holm (Esthonia).		
L. H. G		D'Orb.			Arisaig (Nova Scotia).
U.Llandov., W.	subdecussatus,	M'Coy.	(S.W. Scotl.) Mulock, Llan- rwst, Meifod, Montgomery- shire.	S.W. Scotland	S.W. Scotland,(Wales)Llan rwst.
CH., Tr., Carad.	sulcatinus,	Emmons.	New York, (Can. W.) Mid. Ottawa, Horderley, Onny River, Shropshire, Tyrone.	West Court	

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Subdivision,		Species, and thor.	Lower Stage.	Middle Stage.	Upper Stage.
CH	Trentonensis	s, Dawson? Sowerby.	New York (U.S. America). (Canada E.) Murray Bay. Portugal (Bronn)	Shropshire, (Wales) Marloes Bay, Llanrwst, (Ireland) Galway, Ton- legee.	(Wales) Storm Hill, Pla Madoc, Llangadock, Fe
alendaria (amba)	Uralicus,	Verneuil.	Lake St. John (Canada E.).		Nijni-Tourinsk, River Is and Vuia (Ural).
Llandov., W	Wenlockensi	s, Sowerby.			DerrymoreGlen(Irel.), Wen lock, Malvern, Ledbury, &c (England).
	sp. ind.,				Bolivia (South America).
9	,,		61 . 31 . 1		Texas (North America).
Llandov	"	Meneghini.	Sardinia,	North Wales	
Diana VI					
Carad	11	,,	Normandy, Budleigh Sal-		
n m			terton, Devonsh.(pebbles).		
P., Tremad		Salaman	Ramsey Isle &c. (S. Wales).	Vistoria (Australia)	
	"	Selwyn. Salter	(Himala,)Niti,ChorhotiPass.	victoria (Australia).	
	Bucania, I	Hall, 1846.			
Onond. S. G	angustata,	Hall.			(Canada West) Galt.
CL.?	bellapuncta,	,,			
Tr	bidorsata,	M'Chesney.	(N. York) Jefferson County, Tennessee, N.W. Michigan,	Wayne County.	
			Wisconsin.		
Niag,	Chicago-ensis	5, ,,			Thornton, Cook County (Il
,	crassolaris,	,,			linois). Bridgenorth, Chicago (Illinois).
Tr., BL		55300	(N. York) Watertown, Ten- nessee, N. &W. Wisconsin.		
CH. or Tr	intertexta,	D D 0	(New York) Watertown. S.W. Wisconsin, Iowa.		
Niag	nervoluta	M.Chesney	S.W. Wisconsin, Iowa.		Bridgenorth Chicago (Illi
U.Pentam. Lst	Contract Contract				nois).
Tr			(N. York) Middleville, Wa-		rie County &c.
CH., B			tertown. (N. York) Clinton County.		
CL		Hall.		(N.York) Medina Village.	
СН	sulcatina,	"	(N. York, north-east) Chazy Village.		
M. Sa., CL	trilobata,	Sowerby.		Pennsylvania, (New York) Medina Village, New Hartford.	(Nova Scotia) Arisaig &c.
Tr	sp. ind.,	D. D. Owen.	Fort Snelling (Wisconsin).		
Cor. Lst. Schoh.	g 1" G	Hall.			(N.York, east) Schoharie Co
Llan.	ouogenus CE: cuspidata	NTROTHECA, Sa Salter	tter, 1866. Garth Quarries (N. Wales).		
	Coleoprion	. Sandberger.	1847.	Comply with the Co	
BL	attenuatum,	D. D. Owen.	Wisconsin.		
Fauna G. g. 1	Bohemicum,	Barr.		1 11 11 14 07 1	(Bohemia) Chotecz.
Fauna G. g. 1	aliona	Miller, 1818.	(Thin, ornate, conical	snells allied to Cleodora,	(Bohemia) Chotaez
H. R. G	anomala,		··· ···		
H. R. G	asperata,	Billings.	(Anticosti) Macasty Bay.		
L.L	bifasciata,	Salter.			
Fauna 2 Orthoc. Lst	Bohemica, Buchii,	Barr. Eichw.	Poulkova, Ropscha (Russia),		(England). Bohemia.
Carad., U.L	cancellata	Sandherger	Odinsholm. (North Wales) Bala		Benson Knot (Westmorel.).
Fauna 2	consobrina,	Barr.			Bohemia.
Orthoc.Lst.,Pleta	constricta,	Eichw.	Wesenberg, Isle Dago (Es- thonia).		
Arenig or L. Llan- dov.			(North Wales) Ty-obry, Port Madoc.		
Carad	The state of the s		(Tyrone) Desertcreate, Leis- ley (Westmoreland).		
Fauna 2	fecunda,	Barr.			Bohemia.

Subdivision.		Species, and uthor.	Lower Stage.	Middle Stage.	Upper Stage.
Fauna G. g. 1	fragilis,	Barr.			(Bohemia) Chotecz, Hostin
The state of the s					Konieprus.
Fr	gracilis,	Hall.	(New York) Middleville.		and included by the control of
Faunæ D.d.4,5?,	grandis,	Barr.	Bohemia	Bohemia?	
E.					
"- " "	granulata,		New York.		
P., U.Tremad	Homfrayi,	Salter.	(N. Wales) Garth, Tuhwnt-		
	-		yr-bwlch, Portmadoc.		
Delth. Shaly Lst.	Huntiana,	Hall.			(N. York, eastern) Schohari
0 1		0.1	(N. W-1) D-3314		County.
Carad			(N. Wales) Beddgelert.		
Dolomite?	iatisuicata,	Eichw.	Gatchina, St. Petersburg		
Orthoc. Lst	linasta		(Russia).		
Niag		Wall	Wesenberg (Esthonia).		(N Vouk) Tooknowt Shale
L.Llandov		salter	(North Wales) Tyobry.	***************************************	(N. TOTK) Lockport Share.
Orthoc. L., Pleta	marginata	Eichw	Presqu'ile de Nouk (Estho.).		The second second second
	Marrani	Ronault	Poligné (France).		
Niag	Niagarensi	s. Hall.			(New York) Rochester &c
	z. ragar cricz	,			(Canada W.) Flambor
				Normalia de la companya del companya de la companya del companya de la companya d	Township.
Fr	papillata,		(New York) Middleville.		
Faunæ F, G. 1.		Barr.			(Bohemia) St. Iwan.
Tentaculite Lst.	pyramidali				(New York, eastern) Albar
					County &c.
Carad	pyramidata	a, Deslongch.	May &c. (Normandy), Bud-		
			leigh Salterton(Devonsh.).		
,,	rectistriata	M'Coy.	Chair of Kildare (Ireland).		Control of the second
Car., Pleta, Llan-			(Ostrogothia) Borenshult,		
dov., W.	quadrisu	ılcata.	(Estho.) Wesenberg, Isle	Shropshire.	(Bessarab.), Norway, S.V
			Dago, (Norw.) Christiania,		Scotland, Westmorelan
	THE REAL PROPERTY.		(N.Wales)Bala &c., (Irel.)		Dudley, Kington, Shro
			Desertcreate, (Canada E.)		shire, North and Sout
		1	Indiana, Lorette, &c.		Wales, West Ireland.
U.L	var. Ger	The second second second second			Kendal (Westmoreland).
IT D.C	l	De Verneuil.			
H. R. G			(Anticosti) Charlton Point.		AL DESCRIPTION OF THE PROPERTY
Pleta			Poulkova (Russia).		NewYork, Collinfield, Brig
,, U.Li	suotilis,	Saiter.	Lyckholm (Esthonia)	***************************************	steer and Benson Kne
					(Westmoreland), Carlop
			The state of the s		Peeblesshire.
Tr., H. R. G	Trentonens	sis, Hall.	(Can. E.) Anticosti, Murray	Constal Lawrence	
		er.	Bay, Montreal, (N. York)		
			Middleville &c., Pennsyl-		
			vania, Russia.		and the same of the same of
Tr	sp. ind.,	D. D. Owen.	RedRiverNorth, Lower Fort	Mark III	A CONTRACTOR OF THE PARTY OF TH
			Garry.	State of the state	
	Cyrtolite	s, Conrad, 1838.			m
Fauna G. g. 1					(Bohemia) Lochkov.
L.L	carmatus,				(Pembrokesh.) Marloes Ba
rn.	Ecculion		(N. VII) Middle in the		The second secon
Tr	compressu	s, Hail.	(N.York) Middleville, (Wis-		
Chalashaa m	Conn. 3:		consin) Fort Snelling.		
Shale above Tr		D:111:	S.W. Wisconsin, Iowa.		
H. R. G			(Anticosti) Macasty Bay.		
Tr			(N.York, North) Watertown.		(Tyrone) Timaskee
Shale above Tr	minor,		Loraine &c. (New York),		(Lyrone) Tirnaskea.
Shale above Ir	Bellerop		Canada, (Wisconsin) Fort		The state of the s
	Denerop	non.	Snelling.		
H. R. G	nannosus	Billings	(Anticosti) English Head,	The state of the s	
11. II. O	Paninosus,	Dinings	Charlton Point.		
Tr	Trentonen	sis. Hall	(N. York) Middleville, Mo-		
	_ circonon	, Lian	hawk River, (Pennsylva-		The large depth of the large dep
			nia) Carlisle.		the little of the later of the
	Cyrtothe	ca, Salter, MS.,			
Tr	The second second	Conrad	New York, Canada, Tennes-		State of the Assessment
	Tr. Cook	-	see, N.W. Michigan.		HAN THE REAL PROPERTY OF THE PARTY OF THE PA
H. R. G	Conradi,	Hall.	Wisconsin (U. S. America).		A CONTRACT OF THE PARTY OF
Pleta			(Russia) St. Petersburg.	Miles II	
P., L.Ling. Flags			St. David's (S. Wales).		Control Control Control
Tr.	filosa,		New York (U. S. America).	Trest I	
			St. David's (Wales).		
Menevian beds				The state of the s	
Menevian beds U.Llandov., L		Sowerby		Abberley Hills	Ludlow (Shropshire).

Subdivision.	Genus, Specie Author.		Lower Stage.	Middle Stage.	Upper Stage.
Tr., Carad., H. R. G.	ornata,		(Wales) Capel Curig, Llan- gollen, (Can. W.) Toronto, (Can. E.) Lake St. Louis, New York, Pennsylvania, Tennessee, Ohio, N.W. Michigan.		
Pleta	scindens,	Eichw.	(Russia) St. Petersburg, Poulkova.	design whose	E Man and and
Carad., Llandov.	Ecculiomphalu	8.	(S.W. Scotland) Knockdol- lian Quarry.		James B. W. B. James
Fauna G. g. 1 Tr		Barr. Conrad.	(N.York) Middleville, (Can. W. & E.) Lake St. Louis.		(Bohemia) Tetin.
	undata,		New York.	neam 1	
w?	sp. ind.,	. Salter.			Dudley, Walsall.
		Selwyn.		Victoria (Australia).	
			ck, 1843; Cyrtolites, pars.	(A curved Pteropod, or	possibly allied to Atalanta,
Divs. F, G, CH., C.S., Queb. G.	Atlanticus,	Dillings.	(Newfoundland, N.W.) Kep- pel Island.	A STATE OF THE STA	J.W.S.
Carad	Bucklandi,	Portlock.	S.W. Scotland, Desertcreate		
and the same of th	minor.		(Ireland).		
Queb. G	Canadensis,	Billings.	Phillipsburg, Isle of Orleans, Beauharnois, Point Lévis (Canada East).	ed wet had	
Div. P, Queb. G.	distans,	,,	(Newfoundl, W.) Cowhead.	molwed land	delys, and the Door
n n	intortus,	,,	(Canada E.) Isle of Orleans, Point Lévis, Phillipsburg, Edward's Town.	rate Marie and a second a second and a second a second and a second and a second and a second and a second an	
W., U Llandov., U.L.	lævis,	Sowerby.		(Shropsh.) Church Stret- ton.	Ledbury, Eastnor Castle (Engl.), Builth, Presteign
Carad., U.Llan- dov.			(S.W. Scotl.) Girvan. (Pro		steropod, J.W.S.)
Queb. G			Phillipsburg, St. Armand (Canada East).		ARIESTS .
Div. P, Queb. G. Tr.	The same of the sa		(Newfoundland W.) Port- land Creek. (Canada East) Montreal.	Carlo Carlo	
BL	undulatus. D.	D. Owen.	Wisconsin.	Comment of the same of the sam	
	Lonchidium, E	ichwald,	1860.	Mitalia Alessa	and the Later of t
Corall. Lst	æquale,	Eichw.			Ararat Mountain, S.E. of
,,	approximatum,	"			Armenia (Abich). Upper Armenia, N.W. of Ararat.
"	inæquale,	"			Kamenetz (Podolia), (Isle Oesel) Ilpel.
Divs. K, L, M,	Maclurea, Emn acuminata,	nons, 184 Billings.	(Newfoundland, N.W.)Point		and the second
N, Queb. G. Div.F, CS., Queb.	affinis,	,,	Rich &c. (Newfoundland, W.) Keppel		
G.			Island.	Manual Asia	
CH., Queb. G			Point Lévis (Can. E.), Min- gan Isles (Can. W.).		
	Bigsbyi, corniculum,	Hall.	Wisconsin (U. S. America). Popscha (Russia).	State of the late	
Divs. I, K, L, M,			(Newfoundland W. & N.W.)		
N, Queb. G.			Point Rich.		
Divs. I, K, L, M, Queb. G.	Emmonsi,	, ,,	(Newfoundland N.W.) Point Rich &c.	No.	
Orthoc. L., Pleta	excedens,	Eichw.	Réval (Baltic).	ALCO TO STATE OF THE PARTY OF T	
	helix,		Poulkova, Lake Ladoga, &c. (Russia), Wesenberg (Es-	Watter Kyleetlah	
cs	labiata.	Hall	thonia). New York.		
Llan., B., BL			(S.W. Scotl.) Ayrshire,(Can. E.) Grenville, Montreal,		
Carad	Maccoyi,		Mingan Isles. (S.W. Scotland) Aldeans.	Market Co.	
	macromphala,	M'Coy.	(S.W.Scotl.) Aldeans, Girvan. (S.W. Scotl.) Knockdollian,	Superior Superior	
			River Stinchar, Ayrshire, (N.W. Lake Huron) St.	AND LOSS STORE	
			Joseph Island, Virginia, (N. York) Watertown &c.,	Court of Change	
			Tennessee, Turkey River (Iowa), Hot Creek, Austin, (California).	A STATE OF THE PARTY OF THE PAR	

Subdivision.		Species, and Author.	Lower Stage.	Middle Stage.	Upper Stage.
Llan., CS., Queb. G.	matutina,	Hall.	(N. Scotland) Durness, Mingan Isles, Lake St. Louis, Phillipsburg, St. Armand (Can. E.), (N. York) Mohawk Valley, Pennsylvania,	3/04	antenni at optimiste unit
Pleta	neritoides,	Eichw.	(Esthonia)Lyckholm, Lower Silesia (drift).	Totalin D	sisters
Divs. F, G, H, Queb. G., CS.			(Newfoundl.N. & W.) Table- head &c.	William world and the state of	SANS CONSTRUCTION
Llan. Div. P, Queb. G.		Salter. Billings.	(N.W. Scotland) Durness. Newfoundland West, Point Rich, Phillipsburg, St.	erallia a	The state of the s
Div.G,CS., Queb.	Psyche,		Armand (Canada East). (Newfoundland N.) Cape		
G. Div.G, CS.,Queb. G.	rotundata,		Norman. (Newfoundl.W.) Bonne Bay.	Hall I Williams	
P., Cale. S	? sordida,	Hall.	Point Lévis (Can. E.) New York.		
Divs. G, H, I, K, L, M, Queb. G., CS.		Billings.	(Newfoundland N. & N.W.) Point Rich &c.		Sales Sa
CS Div.G,CS., Queb. G.			New York (U. S. America). (Newfoundland N.) Cape Norman.		
Div. K, L, Queb. G.		5, ,,	(Newfoundland N.W.) Point Rich &c.		
CS	sp. ind.,	Logan.	Knockdollian (S.W. Scotl.). Chateau Gay (Canada East).		
	17		(S.W. Carthand) 413		(Arctic Seas, America) Lar caster Sound.
	Pterothe	ca, Salter, 1852.	(S.W. Scotland) Aldeans.		
BL		D. D. Owen.	Wisconsin		
Woolhope					Bogmine, Shelve (Shropsh.
Carad	corrugata,	,,	(N. Wales) Dolbenmaen.		
B., BL., Tr		Billings.			
H. R. G., Div. 1,	transversa,	Salter.	Anticosti Isle	(Anticosti) Gamache Bay.	
A. G., Carad. Carad., U.Llan- dov.	,,	Portlock.	(Ireland) Desertcreate		
Carad	undulata,	Salter.	Shropshire (Cheney Longue- ville).	Shropshire.	
Fauna E Llandov					
			5. (Minute conical tubes,	shire).	Assessment Control
	Mr.C. II. I		D 07 0 0 0 0		J.W.S.
P., Potsd. Lst	M'Cullochi obtusa,		Durness (North Scotland). (Labrador) Forteau Bay, Strait of Belleisle (Can.).		
n n	pulchella,	**	(Labrador) Forteau Bay, Canada.		
			CYRTOTHECA, Salter."		
P., L.Ling. Flags Pleta		owerby (Morris),	St. David's (South Wales). 1844; Hyolites, Eichwald, Isle Odinsholm, Réval (Es-	1840; Pugiunculus, Bar	rande, 1847.
P., U.Tremad	alata,	Salter.	thonia). (North Wales) Port Madoc, Garth, &c.		
Fauna G. g. 1 W.					(Bohemia) Chotecz. Malverns, (Engl.) Eastno Castle &c.
L. & U.Tremad.	arata,	,,	(N.Wales) Penmorfa, Borth- wood, Tyn-y-lan,		Cubito dell'
P., L. & U.Tre- mad.			(Portugal) Bussaco. (North Wales) Tyn-y-lan, Garth, &c.		Treet, or Prince
	Bohemica, cometoides		Bohemia? (Ireland) Belvoir Castle,		1 1
Lingula Flags			Clare County. (South Wales) St. David's.		
U.Tremad. Flags	cuspidata Centroth		(North Wales) Portmadoc.		

Subdivision. Genus, Species, and Author.			Lower Stage.	Middle Stage.	Upper Stage.			
Fauna D. d. 1, 4 L. H. G., W., U.L.		Barr. Sharpe.	Bohemia.		(Ireland) Derrymore Glen Shropshire, Ludlow, Dud ley, Lambrigg Fell (West moreland), (N. & S.Wales			
P. Potsdam	gregaria. Meek	k Hayden	Bighorn, Rocky Mountains,		Dinas Bran, (Nova Scotia Arisaig, New York.			
Orthoc. Lst			N.W. America.					
Orthoc. L., Pleta		Eichw.	Isle Odinsholm (Baltic). Réval, (Baltic) Isle Odins- holm.					
P	lineolata, Menevensis,		Himalaya, Chorhoti Pass. St. David's (S. Wales).					
Fauna G. g. 1 , G. g. 2	nobilis,	Barr.			(Bohemia) Hostin. Vavrovitz.			
P., Lingula Fl	obtusa,	Salter.	Maentwrog, St. David's Head, Tafarn Helig (Wales).		,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
P., L.Tremad	operculata, Cleidotheca.	1000	(N.Wales) Borthwood, Port- madoc, &c.					
Pleta, Brandsch. Shale above Tr	paradoxa, parviuscula Hallā	Eichw.	D'Erras (Esthonia). S.W. Wisconsin, Iowa.					
P., Lingula Fl	penultima,	Salter.	St. David's (S. Wales).					
Potsdam Sa	primordialis,	Hall.	Iowa, (Wisconsin) Black and Chippewa Rivers, Trem- paleau.					
Llan., Carad	reversa,	Salter.	(N.Wales) Bala Lake, (S.W. Scotl.) Girvan, (England) Horderley, New York.					
	secans,	Barr.	moracity, new rork.		(Bohem.) Hostin, Chotecz.			
L.Llan., Arenig Rocks, U.Tre- madoc.		,,	Shropshire, White-grit Mine, Shelve, (Bohemia) Col. Krejci.					
P			(South Wales) St. David's.					
Fauna D. d. 1, 4 Pleta &c	striatulus,		Bohemia, (Esthonia) D'Erras,					
Carad., H. R. G.			Trough (Co. Clare), Desert- create (Tyrone), (Spain) Ciudad Reale, (Denbigh-					
			shire) Cerrig-y-Druidion, Leisley (Westmoreland).					
L.Llan	vaginula,	Salter.	Arenig Mountains (North Wales), Kitton Castle (Shropshire).	4				
	vitrea,		Vitré &c. (France).					
Tr		Salter.	Canada. England, Wales, Ireland, &c.	England	England Wales Scotland			
Р	" (many),	Barr.	Hof (Dononia)	The second secon	Languagu, Wates, Scottand.			
		Selwyn.		Victoria (Australia).				
Arenig rocks	**	Salter.	(S. Wales) Whitesand Bay and Ramsey Isle.					

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Summary (Geographical).

	Species.							Species.					
Genera.		Europe.	Victoria, S. Australia.	Tasmania.	India.	Common.	Genera.		Europe.	Victoria, S. Australia.	Tasmania.	India.	Common.
Bellerophon Bucania Coleoprion Conularia Cyrtolites Cyrtotheca Ecculiomphalus	29 16 10 6 6 8	50 2 24 4 8 3	1 1	1		7 2 1 	Brought forward Lonchidium Maclurea Pterotheca Salterella Stenotheca Theca	75 21 2 3 5	91 3 12 5 1 1 34	2 1	1	 	10 3 2
	75	91	2	1		10		106	147	3	1	1	15

Subkingdom MOLLUSCA. Province ODONTOPHORA. Class GASTEROPODA (Digecia).

Subdivision.	Genus, Specie Author		Lower Stage.	Middle Stage.	Upper Stage.
	Acroculia, Phili		Capulus, Montfort; Platy		
	acuta,				
	acutissima,	.,			" " "
U.Pentam. Lst	agrestis,	Hall.	***************************************		
L. H. G	alveata,	37			
CL., Niag		,,,		(New York) Lockport	" Lockport.
U.L	antiquata,	Salter.			(Scotland) Pentlands, Le
					mahago.
Delth. Sh. Lst	arcuata,	Hall.			(N. York) Schoharie Count
CH	auriformis,	?	New York State (U.S.A.).		
Fauna G. g. 1	bellula,	Barr.			(Bohemia) Chotecz.
Delth. Sh. Lst	Billingsii,				
	Bischoffi,	Giebel.			Lower Harz (Germany).
L. H. G		Hall.			(N. York, east) Albany Co
Delth. Sh. Lst	bisulcata.				Schoharie C
			Poulkova (Russia).		,, senomine c
Delth. Sh. Lst		Hall			(N. York, east) Albany Co
	calyptrata,	Schronk	***************************************		Gothland.
Niag		Winchell		***************************************	Chicago (Illinois).
radg	compandatum,	& Marcy.			Chicago (Inniois).
P	Cantabrica		(Quain Tan) Cabana		
U.Pentam. Lst		Hall.	(Spain, Leon) Sabero.		(N. York, east) Schoharie C
U.Pentam. Lst	The state of the s	Dani.			
	conoideus,	Darr.			Littem (Bohemia).
	conspicua,				Altai Mountains (N.Russia
?	contorta,	Komer.		***************************************	Lower Harz (Germany).
	cornuta,	Hising.			Gothland.
U.Pentam. Lst		Hall.			(N.York, east) Schoharie C
	depressa,				Thuringia.
Delth. Sh. Lst	dilatata,	Hall.			(N.York, east) Albany Co.
	disjuncta,	Giebel.	***************************************		Lower Harz (Germany).
Delth. Sh. Lst	elongata,	Hall.			(N. York, east) Schoharie C
.,, ,,	var.?,	. ,,			,, ,,
L	euomphaloides,	M'Coy.			Leintwardine (Shropshire)
Delth. Sh. Lst		Hall.			(N. York) Schoharie Co. &
L. H. G	gibbosa.				(N. York, east) Albany Co.
U.Llandov., W.	haliotis.	Sowerby.	(S.W. Scotl.) Saugh Hill	S.W. Scotland Wales	Bohemia, Dudley, Ledbur
C.Liandov., vv.	Nerita.	Doner oy.	(b. 11. beeth) baugh Him	Chirbury, Norbury,	
	210710111			Church Stretton, Nor-	
				way.	doc, Moel Seisiog, Door
				may.	quin, Creagh Martin, &
					(Ireland).
Delth. Sh. Lst	inailie	Hall			Virginia, (New York) Sch
Detta. Sn. Lst	mems,	Alan.		****************************	vinginia, (New Tork) Sch
					havia Countr
	intown adia				harie County.
2 P' . T''.	intermedia,	Tri all an			
? Pentam. Lst	irregularis,	Eichw.		Ural (Russia).	(N.York, east) Schoharie C
Delth. Sh. Lst	irregularis, lamellosa,	Hall.		Ural (Russia).	(N. York, east) Schoharie C (N. York, east) Albany Co.
Delth. Sh. Lst	irregularis, lamellosa, multiplicata,	Hall. Giebel.		Ural (Russia).	(N.York, east) Schoharie C (N. York, east) Albany Co. Lower Harz (Germany).
Delth. Sh. Lst	irregularis, lamellosa, multiplicata, multisinuata,	Hall. Giebel. Hall.		Ural (Russia).	(N.York, east) Schoharie C (N. York, east) Albany Co. Lower Harz (Germany). (N.York, east) Albany Co. &
Delth. Sh. Lst? Delth. Sh. Lst	irregularis, lamellosa, multiplicata, multisinuata, naticoides,	Hall. Giebel. Hall. Römer.		Ural (Russia).	(N.York, east) Schoharie C (N. York, east) Albany Co. Lower Harz (Germany). (N.York, east) Albany Co. & Lower Harz (Germany).
Delth. Sh. Lst? Delth. Sh. Lst	irregularis, lamellosa, multiplicata, multisinuata,	Hall. Giebel. Hall. Römer.		Ural (Russia).	(N.York, east) Schoharie C (N. York, east) Albany Co. Lower Harz (Germany). (N.York, east) Albany Co. & Lower Harz (Germany). (New York, east) Becraft
Delth. Sh. Lst? Delth. Sh. Lst Delth. Sh. Lst	irregularis, lamellosa, multiplicata, multisinuata, naticoides, Newberryi,	Hall. Giebel. Hall. Römer.		Ural (Russia).	(N.York, east) Schoharie C (N.York, east) Albany Co. Lower Harz (Germany). (N.York, east) Albany Co. Łower Harz (Germany). (New York, east) Becraft Mountain, Columbia Co
Pelth. Sh. Lst	irregularis, lamellosa, multiplicata, multisinuata, naticoides, Newberryi,	Hall. Giebel. Hall. Römer.		Ural (Russia).	(N.York, east) Schoharie C. (N.York, east) Albany Co. Lower Harz (Germany). (N.York,east) Albany Co. & Lower Harz (Germany). (New York, east) Becraft Mountain, Columbia Co. (New York) Lockport shal
Delth. Sh. Lst? Delth. Sh. Lst Delth. Sh. Lst	irregularis, lamellosa, multiplicata, multisinuata, naticoides, Newberryi,	Hall. Giebel. Hall. Römer. Hall.		Ural (Russia).	(N.York, east) Schoharie C. (N.York, east) Albany Co. Lower Harz (Germany). (N.York,east) Albany Co. & Lower Harz (Germany). (New York, east) Becraft Mountain, Columbia Co. (New York) Lockport shal
Delth. Sh. Lst? Delth. Sh. Lst Delth. Sh. Lst	irregularis, lamellosa, multiplicata, multisinuata, naticoides, Newberryi, Niagarensis,	Hall. Giebel. Hall. Römer. Hall.		Ural (Russia).	(N.York, east) Schoharie Co. (N.York, east) Albany Co. Lower Harz (Germany). (N.York, east) Albany Co. & Lower Harz (Germany). (New York, east) Becraft Mountain, Columbia Co. (New York) Lockport shal (Can.W.)Thorold, Tennes
Delth. Sh. Lst Pelth. Sh. Lst Delth. Sh. Lst Niag.	irregularis, lamellosa, multiplicata, multisinuata, naticoides, Newberryi, Niagarensis,	Hall. Giebel. Hall. Römer. Hall.		Ural (Russia).	(N. York, east) Schoharie C (N. York, east) Albany Co. Lower Harz (Germany). (N. York, east) Albany Co. & Lower Harz (Germany). (New York, east) Becraft Mountain, Columbia Co (New York) Lockport shal (Can.W.)Thorold, Tennes (N. York, east) Becraft's Mand Schoharie County.
Delth. Sh. Lst Pelth. Sh. Lst Delth. Sh. Lst Viag. U.Pentam. Lst.,	irregularis, lamellosa, multiplicata, multisinuata, naticoides, Newberryi, Niagarensis,	Hall. Giebel. Hall. Römer. Hall.		Ural (Russia).	(N. York, east) Schoharie C (N. York, east) Albany Co. Lower Harz (Germany). (N. York, east) Albany Co. & Lower Harz (Germany). (New York, east) Becraft Mountain, Columbia Co (New York) Lockport shal (Can.W.)Thorold, Tennes (N. York, east) Becraft's Mand Schoharie County.
Delth. Sh. Lst Pelth. Sh. Lst Delth. Sh. Lst Viag. U.Pentam. Lst., Delth. Sh. Lst.	irregularis, lamellosa, multiplicata, multisinuata, naticoides, Newberryi, Niagarensis, obesa,	Hall. Giebel. Hall. Römer. Hall. " Römer.		Ural (Russia).	(N. York, east) Schoharie C (N. York, east) Albany Co. Lower Harz (Germany). (N. York, east) Albany Co. & Lower Harz (Germany). (New York, east) Becraft Mountain, Columbia Co (New York) Lockport shal (Can.W.)Thorold, Tennes (N. York, east) Becraft's M and Schoharie County, North-west Harz (Germany)
Delth. Sh. Lst Pelth. Sh. Lst Delth. Sh. Lst Viag. U.Pentam. Lst., Delth. Sh. Lst. L. H. G	irregularis, lamellosa, multiplicata, multisinuata, naticoides, Newberryi, Niagarensis, obesa, ornata, pentaloba,	Hall. Giebel. Hall. Römer. Hall. " Römer. Hall.		Ural (Russia).	(N. York, east) Schoharie C. (N. York, east) Albany Co. Lower Harz (Germany). (N. York, east) Albany Co. & Lower Harz (Germany). (New York, east) Becraft Mountain, Columbia Co. (New York) Lockport shal (Can.W.)Thorold, Tennes (N. York, east) Becraft's Mand Schoharie County. North-west Harz (Germany) (New York, east) Albany C.
Delth. Sh. Lst Pelth. Sh. Lst Delth. Sh. Lst Viag. U.Pentam. Lst., Delth. Sh. Lst. L. H. G	irregularis, lamellosa, multiplicata, multisinuata, naticoides, Newberryi, Niagarensis, obesa, ornata, pentaloba, perlata,	Hall. Giebel. Hall. Römer. Hall. Römer. Hall. Römer.		Ural (Russia).	(N.York, east) Schoharie C (N. York, east) Albany Co. Lower Harz (Germany). (N.York, east) Albany Co. & Lower Harz (Germany). (New York, east) Becraft Mountain, Columbia Co (New York) Lockport shal (Can.W.)Thorold, Tennes (N. York, east) Becraft's M and Schoharie County. North-west Harz (Germany (New York, east) Albany C (N.York, east) Schoharie C
Delth. Sh. Lst Pelth. Sh. Lst Delth. Sh. Lst Viag. U.Pentam. Lst., Delth. Sh. Lst. L. H. G	irregularis, lamellosa, multiplicata, multisinuata, naticoides, Newberryi, Niagarensis, obesa, ornata, pentaloba, perlata, perplicata,	Hall. Giebel. Hall. Römer. Hall. Römer. Hall. "" Römer. Hall. ""		Ural (Russia).	(N.York, east) Schoharie C (N.York, east) Albany Co. Lower Harz (Germany). (N.York, east) Albany Co. & Lower Harz (Germany). (New York, east) Becraft Mountain, Columbia Co (New York) Lockport shal (Can.W.)Thorold, Tennes (N. York, east) Becraft's M and Schoharie County. North-west Harz (Germany (New York, east) Albany C (N.York, east) Schoharie County.
Delth. Sh. Lst Pelth. Sh. Lst Delth. Sh. Lst Viag. U.Pentam. Lst., Delth. Sh. Lst. L. H. G.	irregularis, lamellosa, multiplicata, multisinuata, naticoides, Newberryi, Niagarensis, obesa, ornata, pentaloba, perlata, perplicata, pileiformis,	Hall. Giebel. Hall. Römer. Hall. Römer. Hall. "" Römer. Hall. "" ""		Ural (Russia).	(N.York, east) Schoharie C (N.York, east) Albany Co. Lower Harz (Germany). (N.York,east) Albany Co. & Lower Harz (Germany). (New York, east) Becraft Mountain, Columbia Co (New York) Lockport shal (Can.W.)Thorold,Tennes (N. York, east) Becraft's M and Schoharie County. North-west Harz (Germany (New York, east) Albany C (N.York, east) Schoharie C """"
Delth. Sh. Lst Pelth. Sh. Lst Delth. Sh. Lst Viag. U.Pentam. Lst., Delth. Sh. Lst. L. H. G	irregularis, lamellosa, multiplicata, multisinuata, naticoides, Newberryi, Niagarensis, obesa, ornata, pentaloba, perlata, perplicata,	Hall. Giebel. Hall. Römer. Hall. Römer. Hall. "" Römer. Hall. ""		Ural (Russia).	(N.York, east) Schoharie C. (N.York, east) Albany Co. Lower Harz (Germany). (N.York, east) Albany Co. & Lower Harz (Germany). (New York, east) Becraft Mountain, Columbia Co. (New York) Lockport shal (Can.W.)Thorold, Tennes (N. York, east) Becraft's Mand Schoharie County. North-west Harz (Germany (New York, east) Albany C. (N.York, east) Schoharie County. "" (New York, east) Albany and Schoharie County.
Delth. Sh. Lst Pelth. Sh. Lst Delth. Sh. Lst Viag. U.Pentam. Lst., Delth. Sh. Lst. L. H. G.	irregularis, lamellosa, multiplicata, multisinuata, naticoides, Newberryi, Niagarensis, obesa, ornata, pentaloba, perlata, perplicata, pileiformis, platystoma,	Hall. Giebel. Hall. Römer. Hall. , Römer. Hall. , , , , , , , , , , , , , , , , , ,		Ural (Russia).	(N.York, east) Schoharie C (N.York, east) Albany Co. Lower Harz (Germany). (N.York, east) Albany Co. & Lower Harz (Germany). (New York, east) Becraft Mountain, Columbia Co (New York) Lockport shal (Can.W.)Thorold, Tennes (N. York, east) Becraft's M and Schoharie County. North-west Harz (Germany (New York, east) Albany C (N.York, east) Schoharie C "" (New York, east) Albany an Schoharie Counties.
Delth. Sh. Lst Pelth. Sh. Lst Delth. Sh. Lst Viag. U.Pentam. Lst., Delth. Sh. Lst. L. H. G	irregularis, lamellosa, multiplicata, multisinuata, naticoides, Newberryi, Niagarensis, obesa, ornata, pentaloba, perlata, perplicata, pileiformis, platystoma, var. alveatum,	Hall. Giebel. Hall. Römer. Hall. "" Römer. Hall. "" "" "" ""		Ural (Russia).	(N.York, east) Schoharie C. (N. York, east) Albany Co. Lower Harz (Germany). (N.York, east) Albany Co. & Lower Harz (Germany). (New York, east) Becraft Mountain, Columbia Co. (New York) Lockport shal (Can.W.)Thorold, Tennes (N. York, east) Becraft's Mr. and Schoharie County. North-west Harz (Germany) (New York, east) Albany C. (N.York, east) Schoharie Co. """ (New York, east) Albany an Schoharie Counties. (N.York, east) Schoharie C. """ (New York, east) Schoharie C. (N.York, east) Schoharie C.
Delth. Sh. Lst Pelth. Sh. Lst Delth. Sh. Lst Viag. U.Pentam. Lst., Delth. Sh. Lst. L. H. G	irregularis, lamellosa, multiplicata, multisinuata, naticoides, Newberryi, Niagarensis, obesa, ornata, pentaloba, perlata, perplicata, pileiformis, platystoma,	Hall. Giebel. Hall. Römer. Hall. , Römer. Hall. , , , , , , , , , , , , , , , , , ,		Ural (Russia).	(N.York, east) Schoharie C (N.York, east) Albany Co. Lower Harz (Germany). (N.York,east) Albany Co. & Lower Harz (Germany). (New York, east) Becraft Mountain, Columbia Co (New York) Lockport shal (Can.W.)Thorold, Tennes (N. York, east) Becraft's M and Schoharie County. North-west Harz (Germany (New York, east) Albany C (N.York, east) Schoharie C "" (New York, east) Albany an Schoharie Counties. (N.York,east) Schoharie C New York, east) Albany an
Delth. Sh. Lst Pelth. Sh. Lst Delth. Sh. Lst Niag. U.Pentam. Lst., Delth. Sh. Lst. L. H. G "" "" Delth. Sh. Lst	irregularis, lamellosa, multiplicata, multisinuata, naticoides, Newberryi, Niagarensis, obesa, ornata, pentaloba, perlata, perplicata, pileiformis, platystoma, var. alveatum, plicata,	Hall. Giebel. Hall. Römer. Hall. "" Römer. Hall. "" "" "" ""		Ural (Russia).	(N.York, east) Schoharie C (N.York, east) Albany Co. Lower Harz (Germany). (N.York, east) Albany Co. & Lower Harz (Germany). (New York, east) Becraft Mountain, Columbia Co (New York) Lockport shal (Can.W.)Thorold, Tennes (N. York, east) Becraft's M and Schoharie County, North-west Harz (Germany (New York, east) Albany C (N.York, east) Schoharie C " " (New York, east) Albany an Schoharie Counties. (N.York, east) Schoharie C New York, east) Albany an Schoharie Counties.
Delth. Sh. Lst Pelth. Sh. Lst Delth. Sh. Lst Viag. U.Pentam. Lst., Delth. Sh. Lst L. H. G " " " " " " " " " " " " " " " " "	irregularis, lamellosa, multiplicata, multisinuata, naticoides, Newberryi, Niagarensis, obesa, ornata, pentaloba, perlata, perplicata, pileiformis, platystoma, var. alveatum, plicata, plicatilis,	Hall. Giebel. Hall. Römer. Hall. "" Römer. Hall. "" "" "" ""		Ural (Russia).	(N.York, east) Schoharie C (N.York, east) Albany Co. Lower Harz (Germany). (N.York,east) Albany Co. & Lower Harz (Germany). (New York, east) Becraft Mountain, Columbia Co (New York) Lockport shal (Can.W.)Thorold,Tennes (N. York, east) Becraft's M and Schoharie County, North-west Harz (Germany (New York, east) Albany C (N.York, east) Schoharie C "" (New York, east) Albany ar Schoharie Counties. (N.York,east) Schoharie C New York, east) Albany ar Schoharie Counties.
Delth. Sh. Lst Pelth. Sh. Lst Delth. Sh. Lst Viag. U.Pentam. Lst., Delth. Sh. Lst L. H. G " " " " " " " " " " " " " " " " "	irregularis, lamellosa, multiplicata, multisinuata, naticoides, Newberryi, Niagarensis, obesa, ornata, pentaloba, perlata, perplicata, pileiformis, platystoma, var. alveatum, plicata, plicatilis,	Hall. Giebel. Hall. Römer. Hall. "" Römer. Hall. "" "" "" "" ""	Kickapoo River and Trem-	Ural (Russia).	(N.York, east) Schoharie C (N.York, east) Albany Co. Lower Harz (Germany). (N.York,east) Albany Co. & Lower Harz (Germany). (New York, east) Becraft Mountain, Columbia Co (New York) Lockport shal (Can.W.)Thorold, Tennes (N. York, east) Becraft's M and Schoharie County, North-west Harz (Germany (New York, east) Albany C (N.York, east) Schoharie C (N.York, east) Albany ar Schoharie Counties. (N.York,east) Schoharie C (New York, east) Albany ar Schoharie Counties.
Delth. Sh. Lst Pelth. Sh. Lst Delth. Sh. Lst Viag. U.Pentam. Lst., Delth. Sh. Lst. L. H. G. "" "" "" "" "" "" "" "" "" "" "" "" "	irregularis, lamellosa, multiplicata, multisinuata, naticoides, Newberryi, Niagarensis, obesa, ornata, pentaloba, perlata, perplicata, pileiformis, platystoma, var. alveatum, plicata, primordialis,	Hall. Giebel. Hall. Römer. Hall. "" Römer. Hall. "" "" "" "" "" "" "" "" "" ""	Kickapoo River and Trempaleau (Wisconsin).	Ural (Russia).	(N.York, east) Schoharie C (N.York, east) Albany Co. Lower Harz (Germany). (N.York, east) Albany Co. & Lower Harz (Germany). (New York, east) Becraft Mountain, Columbia Co (New York) Lockport shal (Can.W.)Thorold, Tennes (N. York, east) Becraft's M and Schoharie County. North-west Harz (Germany (New York, east) Albany C (N.York, east) Schoharie C "" (New York, east) Albany ar Schoharie Counties. (N.York, east) Albany ar Schoharie Counties. (N.York, east) Albany ar Schoharie Counties. (N.York, east) Albany ar Schoharie Counties. (New York, east) Albany C
Delth. Sh. Lst Pelth. Sh. Lst Delth. Sh. Lst Viag. U.Pentam. Lst., Delth. Sh. Lst. L. H. G. "" "" "" "" "" "" "" "" "" "" "" "" "	irregularis, lamellosa, multiplicata, multisinuata, naticoides, Newberryi, Niagarensis, obesa, ornata, pentaloba, perlata, perplicata, pileiformis, platystoma, var. alveatum, plicata, primordialis,	Hall. Giebel. Hall. Römer. Hall. "" Römer. Hall. "" "" "" "" "" "" "" "" "" ""	Kickapoo River and Trempaleau (Wisconsin).	Ural (Russia).	(N.York, east) Schoharie C (N.York, east) Albany Co. Lower Harz (Germany). (N.York,east) Albany Co. & Lower Harz (Germany). (New York, east) Becraft Mountain, Columbia Co (New York) Lockport shal (Can.W.)Thorold,Tennes (N. York, east) Becraft's M and Schoharie County, North-west Harz (Germany (New York, east) Albany C (N.York, east) Schoharie C "" (New York, east) Albany ar Schoharie Counties. (N.York,east) Schoharie C New York, east) Albany ar Schoharie Counties.
Delth. Sh. Lst Polth. Sh. Lst Delth. Sh. Lst Viag. U.Pentam. Lst., Delth. Sh. Lst. L. H. G. "" "" "" "" "" "" "" " "" "" "" "" ""	irregularis, lamellosa, multiplicata, multisinuata, naticoides, Newberryi, Niagarensis, obesa, ornata, pentaloba, perlata, perplicata, pileiformis, platystoma, var. alveatum, plicata, primordialis,	Hall. Giebel. Hall. Römer. Hall. Römer. Hall. "" "" "" "" "" "" "" "" "" "" "" "" "	Kickapoo River and Trempaleau (Wisconsin).	Ural (Russia).	(N.York, east) Schoharie C (N.York, east) Albany Co. Lower Harz (Germany). (N.York, east) Albany Co. & Lower Harz (Germany). (New York, east) Becraft Mountain, Columbia Co (New York) Lockport shal (Can.W.)Thorold, Tennes (N. York, east) Becraft's M and Schoharie County. North-west Harz (Germany) (New York, east) Albany C (N.York, east) Schoharie C "" (New York, east) Albany ar Schoharie Counties. (N.York, east) Albany ar Schoharie Counties. (N.York, east) Albany ar Schoharie Counties. (N.York, east) Albany C (New York, east) Albany C
Delth. Sh. Lst Pelth. Sh. Lst Delth. Sh. Lst Viag. U.Pentam. Lst., Delth. Sh. Lst. L. H. G Delth. Sh. Lst L. H. G L. H. G L. H. G Lower Silurian,	irregularis, lamellosa, multiplicata, multisinuata, naticoides, Newberryi, Niagarensis, obesa, ornata, pentaloba, perlata, perplicata, pileiformis, platystoma, var. alveatum, plicatal, primordialis, prisca,	Hall. Giebel. Hall. Römer. Hall. Römer. Hall. "" "" "" "" "" "" "" "" "" "" "" "" "	Kickapoo River and Trempaleau (Wisconsin).	Ural (Russia).	(N. York, east) Schoharie C. (N. York, east) Albany Co. Lower Harz (Germany). (N. York, east) Albany Co. & Lower Harz (Germany). (New York, east) Becraft Mountain, Columbia Co. (New York) Lockport shal (Can.W.)Thorold, Tennes (N. York, east) Becraft's Mand Schoharie County. North-west Harz (Germany) (New York, east) Albany C. (N. York, east) Schoharie Co. (N. York, east) Schoharie Co. (N. York, east) Albany an Schoharie Counties. (N. York, east) Albany an Schoharie Counties. (N. York, east) Albany an Schoharie Counties. (N. York, east) Albany C. (New York, east) Albany C.
Delth. Sh. Lst Pelth. Sh. Lst Delth. Sh. Lst Niag. U.Pentam. Lst., Delth. Sh. Lst. L. H. G "" "" Delth. Sh. Lst L. H. G L. H. G L. H. G L. H. G P., Potsd. Sa Lower Silurian, Fauna E, W. Pentam. Lst	irregularis, lamellosa, multiplicata, multisinuata, naticoides, Newberryi, Niagarensis, obesa, ornata, pentaloba, perlata, perplicata, pileiformis, platystoma, var. alveatum, plicatalis, primordialis, prisca, proæva,	Hall. Giebel. Hall. Römer. Hall. Römer. Hall. "" "" "" "" "" "" "" "" "" "" "" "" "	Kickapoo River and Trempaleau (Wisconsin).	Ural (Russia). Bohemia Ural (Russia).	(N. York, east) Schoharie Co. (N. York, east) Albany Co. Lower Harz (Germany). (N. York, east) Albany Co. & Lower Harz (Germany). (New York, east) Becraft Mountain, Columbia Co. (New York) Lockport shal (Can.W.)Thorold, Tennes (N. York, east) Becraft's Mand Schoharie County. North-west Harz (Germany) (New York, east) Albany Co. (N. York, east) Schoharie Co. (N. York, east) Schoharie Co. (N. York, east) Albany an Schoharie Counties. (N. York, east) Albany an Schoharie Counties. (N. York, east) Albany an Schoharie Counties. (N. York, east) Albany Co. (New York, east) Albany Co. (New York, east) Albany Co.
Delth. Sh. Lst Polth. Sh. Lst Delth. Sh. Lst Niag. U.Pentam. Lst., Delth. Sh. Lst. L. H. G. "" "" "" "" "" "" L. H. G. P., Potsd. Sa Lower Silurian, Fauna E, W.	irregularis, lamellosa, multiplicata, multisinuata, naticoides, Newberryi, Niagarensis, obesa, ornata, pentaloba, perlata, perplicata, pileiformis, platystoma, var. alveatum, plicatalis, primordialis, prisca, proæva,	Hall. Giebel. Hall. Römer. Hall. Römer. Hall. "" "" "" "" "" "" "" "" "" "" "" "" "	Kickapoo River and Trempaleau (Wisconsin).	Ural (Russia). Bohemia Ural (Russia).	(N. York, east) Schoharie C (N. York, east) Albany Co. Lower Harz (Germany). (N. York, east) Albany Co. & Lower Harz (Germany). (New York, east) Becraft Mountain, Columbia Co (New York) Lockport shal (Can.W.)Thorold, Tennes (N. York, east) Becraft's M and Schoharie County, North-west Harz (Germany (New York, east) Albany C (N. York, east) Schoharie C "" (New York, east) Albany ar Schoharie Counties. (N. York, east) Albany ar Schoharie Counties. (N. York, east) Albany ar Schoharie Counties. (New York, east) Albany C England.

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	Genus, Specie Author.		Lower Stage.	Middle Stage.	Upper Stage.
Delth. Sh. Lst	nyramidata	Hall.			(N. York, east) Schoharie Co
	retrorsa,	,,			
" "	. crit ox out,	"			Schoharie Counties.
L. H. G	var. abnormis,				(N.York, east) Schoharie Co
Delth. Sh. Lst		.,			
Pleta, Faunæ E,		Eichw.	Isles Dago and Odinsholm		(Bohem.) Konieprus, Hostin
F, G. g. 1.			(Baltie).		St. Iwan.
, ,	selcana,	Giebel.	***************************************		Lower Harz (Thuringia).
Delth. Sh. Lst	sinuata,				
					Mountain &c.
19 99	spiralis,	"			(NewYork, east) Albany an
					Schoharie Counties.
4	subrecta,				New York.
	sulcata,	Hising.			Gothland.
	sulcoplicata,	Hall.			(N. York, east) Schoharie Co
,,	tenuilirata,	"			,, Albany an
					Schoharie Counties.
Tr	Trentonensis,	Billings.	(Canada E.) River Chevro-		
-		TT 11	tière, Deschambault.		
Delth. Sh. Lst	trilobata,	Hall.			
					Becraft's Mountain.
	tubæformis,	a. !' .		***************************************	N
	uncinata,	Giebel.			North-west Harz (Germany
U.Pentam. Lst	undulostriata,	Hall.			(N. York, east) Becraft's Mn
					Columbia County.
Delth. Sh. Lst	ungunormis,	11		***************************************	
					Schoharie Counties.
"	unisulcata,	"			NewYork,east)Becraft's Mr
33 33	ventricosa,	"			
	and and a	Comonha			Mountain, Schoharie, &c.
L	vetusta,	sowerby.	***************************************		Aymestry? (England).
	virginis,	Giobal			North-west How/Gormony
	Zenkeri,	Greber.			
Primordial		Vornouil	Castile (Spain).	***************************************	79 79
rrimordiar	4	verneum.	(Spain) Lean province of		
L. H. G	"	Hall	(Spain) Leon, province of.		New York (U. S. America)
D. 11. O	"	Ronault	Rennes (France).		Tota (C. C. Microca).
	Calvotræa, Las	marck, 1	801.		
Corall, Lst		Schrenk.			Isle Oesel (Baltic), Hohen
					eichen, Lode, Ficht.
					Cicircity Louis, L'Icite.
	Carinaropsis,	Hall, 18	46.		Cicien, Louc, Piene
Tr	Carinaropsis, carinata,	Hall, 18 Hall.	(New York) Trenton Falls		Cician, Louc, Frenc
Tr	carinata,	Hall, 18 Hall.	(New York) Trenton Falls and Middleville.		Cicion, Bott, Pictic
Tr H. R. G	carinata, cunulæ,	Hall, 18 Hall.	(New York) Trenton Falls and Middleville. Nashville (Tennessee).		Centil, 1900, Frent
Tr H. R. G	carinata, cunulæ, cymbula,	Hall.	(New York) Trenton Falls and Middleville. Nashville (Tennessee). Louisville (Ohio).		Central, 1900, Frent
Tr	carinata, cunulæ, cymbula, orbiculata,	Hall.	(New York) Trenton Falls and Middleville. Nashville (Tennessee). Louisville (Ohio). (New York) Waterford.		Central, 1900, Frent
Tr	carinata, cunulæ, cymbula, orbiculata, patelliformis,	Hall.	(New York) Trenton Falls and Middleville. Nashville (Tennessee). Louisville (Ohio). (New York) Waterford. " Middleville.		Central, 1900, Frent
Tr	carinata, cunulæ, cymbula, orbiculata, patelliformis, sp. ind.,	Hall.	(New York) Trenton Falls and Middleville. Nashville (Tennessee). Louisville (Ohio). (New York) Waterford. " Middleville. North Wisconsin.		Central, 1900, Frent
Tr H. R. G	carinata, cunulæ, cymbula, orbiculata, patelliformis, sp. ind., Cerithium, Ado	Hall.	(New York) Trenton Falls and Middleville. Nashville (Tennessee). Louisville (Ohio). (New York) Waterford. ,, Middleville. North Wisconsin. 57.		
Tr	carinata, cunulæ, cymbula, orbiculata, patelliformis, sp. ind., Cerithium, Ada avicula,	Hall. "" "" "nson, 17 Eichw.	(New York) Trenton Falls and Middleville. Nashville (Tennessee). Louisville (Ohio). (New York) Waterford. ,, Middleville. North Wisconsin. 57.		Isle Oesel, Lodé (Baltic).
Tr	carinata, cunulæ, cymbula, orbiculata, patelliformis, sp. ind., Cerithium , Ada avicula, Helmerseni, De	Hall. "" "" "nson, 17 Eichw. Verneuil.	(New York) Trenton Falls and Middleville. Nashville (Tennessee). Louisville (Ohio). (New York) Waterford. " Middleville. North Wisconsin. 57.		
Tr	carinata, cunulæ, cymbula, orbiculata, patelliformis, sp. ind., Cerithium, Ada avicula, Helmerseni, De Chemnitzia, D'	Hall. "" "" "nson, 17 Eichw. Verneuil. Orbigny,	(New York) Trenton Falls and Middleville. Nashville (Tennessee). Louisville (Ohio). (New York) Waterford. "Middleville. North Wisconsin. 57.		Isle Oesel, Lodé (Baltic).
Tr	carinata, cunulæ, cymbula, orbiculata, patelliformis, sp. ind., Cerithium, Ada avicula, Helmerseni, De Chemnitzia, D' sp. ind.,	Hall. """ """ """ Eichw. Verneuil. Orbigny, Selwyn.	(New York) Trenton Falls and Middleville. Nashville (Tennessee). Louisville (Ohio). (New York) Waterford. " Middleville. North Wisconsin. 57.		Isle Oesel, Lodé (Baltic).
Tr	carinata, cunulæ, cymbula, orbiculata, patelliformis, sp. ind., Cerithium, Ada avicula, Helmerseni, De Chemnitzia, D' sp. ind., Chiton, Linnæus	Hall. """ """ """ Eichw. Verneuil. Orbigny, Selwyn.	(New York) Trenton Falls and Middleville. Nashville (Tennessee). Louisville (Ohio). (New York) Waterford. "Middleville. North Wisconsin. 57.	Victoria (Australia).	Isle Oesel, Lodé (Baltic).
Tr	carinata, cunulæ, cymbula, orbiculata, patelliformis, sp. ind., Cerithium, Ado avicula, Helmerseni, De Chemnitzia, D' sp. ind., Chiton, Linnæus Canadensis,	Hall. """ """ """ """ """ """ """ """ """	(New York) Trenton Falls and Middleville. Nashville (Tennessee). Louisville (Ohio). (New York) Waterford. "Middleville. North Wisconsin. 57.	Victoria (Australia).	Isle Oesel, Lodé (Baltic). Bogoslofsk (Oural).
Tr	carinata, cunulæ, cymbula, orbiculata, patelliformis, sp. ind., Cerithium, Ado avicula, Helmerseni, De Chemnitzia, D' sp. ind., Chiton, Linnæus Canadensis, Grayanus,	Hall. """ """ """ """ """ """ """ """ """	(New York) Trenton Falls and Middleville. Nashville (Tennessee). Louisville (Ohio). (New York) Waterford. "Middleville. North Wisconsin. 57.	Victoria (Australia).	Isle Oesel, Lodé (Baltic). Bogoslofsk (Oural).
Tr	carinata, cunulæ, cymbula, orbiculata, patelliformis, sp. ind., Cerithium, Ado avicula, Helmerseni, De Chemnitzia, D' sp. ind., Chiton, Linnæus Canadensis, Grayanus,	Hall. """ """ """ """ """ """ """ """ """	(New York) Trenton Falls and Middleville. Nashville (Tennessee). Louisville (Ohio). (New York) Waterford. Middleville. North Wisconsin. 57.	Victoria (Australia).	Isle Oesel, Lodé (Baltic).
Tr	carinata, cunulæ, cymbula, orbiculata, patelliformis, sp. ind., Cerithium, Ado avicula, Helmerseni, De Chemnitzia, D' sp. ind., Chiton, Linnæus Canadensis, Grayanus, Griffithii, Helminthochiton	Hall. """ """ """ """ """ """ """ """ """	(New York) Trenton Falls and Middleville. Nashville (Tennessee). Louisville (Ohio). (New York) Waterford. Middleville. North Wisconsin. 57.	Victoria (Australia).	Isle Oesel, Lodé (Baltic). Bogoslofsk (Oural).
Tr	carinata, cunulæ, cymbula, orbiculata, patelliformis, sp. ind., Cerithium, Ada avicula, Helmerseni, De Chemnitzia, D' sp. ind., Chiton, Linnæus Canadensis, Grayanus, Griffithii, Helminthochiton Cirrus, Sowerby, concoy,	Hall. """ """ """ """ """ """ """ """ """	(New York) Trenton Falls and Middleville. Nashville (Tennessee). Louisville (Ohio). (New York) Waterford. Middleville. North Wisconsin. 57. 1839. (Can. W.) Mid.OttawaRiver. EUOMPHALUS, Sowerby, 1814.	Victoria (Australia).	Isle Oesel, Lodé (Baltic). Bogoslofsk (Oural).
Tr	carinata, cunulæ, cymbula, orbiculata, patelliformis, sp. ind., Cerithium, Ada avicula, Helmerseni, De Chemnitzia, D' sp. ind., Chiton, Linnæus Canadensis, Grayanus, Griffithii, Helminthochiton Cirrus, Sowerby,	Hall. """ """ """ """ """ """ """ """ """	(New York) Trenton Falls and Middleville. Nashville (Tennessee). Louisville (Ohio). (New York) Waterford. Middleville. North Wisconsin. 57. 1839. (Can. W.) Mid.OttawaRiver. EUOMPHALUS, Sowerby, 1814.	Victoria (Australia).	Isle Oesel, Lodé (Baltie). Bogoslofsk (Oural). Dudley, Ludlow (England)
Tr	carinata, cunulæ, cymbula, orbiculata, patelliformis, sp. ind., Cerithium, Ada avicula, Helmerseni, De Chemnitzia, D' sp. ind., Chiton, Linnæus Canadensis, Grayanus, Griffithii, Helminthochiton Cirrus, Sowerby, concoy,	Hall. """ """ """ """ """ """ """ """ """	(New York) Trenton Falls and Middleville. Nashville (Tennessee). Louisville (Ohio). (New York) Waterford. Middleville. North Wisconsin. 57. 1839. (Can. W.) Mid.OttawaRiver. EUOMPHALUS, Sowerby, 1814.	Victoria (Australia). Ireland.	Isle Oesel, Lodé (Baltie). Bogoslofsk (Oural). Dudley, Ludlow (England)
Tr	carinata, cunulæ, cymbula, orbiculata, patelliformis, sp. ind., Cerithium, Ado avicula, Helmerseni, De Chemnitzia, D' sp. ind., Chiton, Linnæus Canadensis, Grayanus, Griffithii, Helminthochiton Cirrus, Sowerby, concoy, Cleodora, Person sp. ind.,	Hall. """ """ """ """ """ """ """ """ """	(New York) Trenton Falls and Middleville. Nashville (Tennessee). Louisville (Ohio). (New York) Waterford. Middleville. North Wisconsin. 57. 1839. (Can. W.) Mid.OttawaRiver. EUOMPHALUS, Sowerby, 1814. ing, 1810. (Can.W.)Mid. Ottawa River. Ireland, North Wales.	Victoria (Australia). Ireland.	Isle Oesel, Lodé (Baltie). Bogoslofsk (Oural). Dudley, Ludlow (England)
Tr	carinata, cunulæ, cymbula, orbiculata, patelliformis, sp. ind., Cerithium, Adda avicula, Helmerseni, De Chemnitzia, D' sp. ind., Chiton, Linnæus Canadensis, Grayanus, Griffithii, Helminthochiton, Cirrus, Sowerby, concoy, Cleodora, Person sp. ind.,	Hall. """ """ """ """ """ """ """ """ """	(New York) Trenton Falls and Middleville. Nashville (Tennessee). Louisville (Ohio). (New York) Waterford. Middleville. North Wisconsin. 57. 1839. (Can. W.) Mid.OttawaRiver. EUOMPHALUS, Sowerby, 1814. ing, 1810. (Can.W.)Mid. Ottawa River. Ireland, North Wales. (Centrotheca.)	Victoria (Australia). Ireland.	Isle Oesel, Lodé (Baltie). Bogoslofsk (Oural). Dudley, Ludlow (England)
Tr	carinata, cunulæ, cymbula, orbiculata, patelliformis, sp. ind., Cerithium, Ada avicula, Helmerseni, De Chemnitzia, D' sp. ind., Chiton, Linnæus Canadensis, Grayanus, Griffithii, Helminthochiton Cirrus, Sowerby, concoy, Cleodora, Person sp. ind., " Clioderma, Ha anatiformis,	Hall. """ """ """ """ """ """ """ """ """	(New York) Trenton Falls and Middleville. Nashville (Tennessee). Louisville (Ohio). (New York) Waterford. "Middleville. North Wisconsin. 57. 1839. (Can. W.) Mid.OttawaRiver. Euomphalus, Sowerby, 1814. ing. 1810. (Can.W.)Mid. Ottawa River. Ireland, North Wales. (Centrotheca.) (New York) Watertown.	Victoria (Australia). Ireland.	Isle Oesel, Lodé (Baltie). Bogoslofsk (Oural). Dudley, Ludlow (England)
Tr	carinata, cunulæ, cymbula, orbiculata, patelliformis, sp. ind., Cerithium, Ada avicula, Helmerseni, De Chemnitzia, D' sp. ind., Chiton, Linnæus Canadensis, Grayanus, Griffithii, Helminthochiton Cirrus, Sowerby, concoy, Cleodora, Person sp. ind., " Clioderma, Ha anatiformis,	Hall. """ """ """ """ """ """ """ """ """	(New York) Trenton Falls and Middleville. Nashville (Tennessee). Louisville (Ohio). (New York) Waterford. Middleville. North Wisconsin. 57. 1839. (Can. W.) Mid.OttawaRiver. EUOMPHALUS, Sowerby, 1814. ing, 1810. (Can.W.)Mid. Ottawa River. Ireland, North Wales. (Centrotheca.)	Victoria (Australia). Ireland.	Isle Oesel, Lodé (Baltie). Bogoslofsk (Oural). Dudley, Ludlow (England
Tr	carinata, cunulæ, cymbula, orbiculata, patelliformis, sp. ind., Cerithium, Ada avicula, Helmerseni, De Chemnitzia, D' sp. ind., Chiton, Linnæus Canadensis, Grayanus, Griffithii, Helminthochiton Cirrus, Sowerby, concoy, Cleodora, Person sp. ind., " Clioderma, Ha anatiformis,	Hall. """ """ """ """ """ """ """ """ """	(New York) Trenton Falls and Middleville. Nashville (Tennessee). Louisville (Ohio). (New York) Waterford. "Middleville. North Wisconsin. 57. 1839. (Can. W.) Mid.OttawaRiver. Euomphalus, Sowerby, 1814. ing, 1810. (Can.W.)Mid. Ottawa River. Ireland, North Wales. (Centrootheca.) (New York) Watertown. Wisconsin. (Tennessee) Lebanon.	Victoria (Australia). Ireland.	Isle Oesel, Lodé (Baltic). Bogoslofsk (Oural). Dudley, Ludlow (England
Tr	carinata, cunulæ, cymbula, orbiculata, patelliformis, sp. ind., Cerithium, Adda avicula, Helmerseni, De Chemnitzia, D' sp. ind., Chiton, Linnæus Canadensis, Grayanus, Griffithii, Helminthochiton Cirrus, Sowerby, concoy, Cleodora, Person sp. ind., Clioderma, Ha anatiformis, attenuata, D. I caniculata, expansa,	Hall. """ """ """ """ """ """ """ """ """	(New York) Trenton Falls and Middleville. Nashville (Tennessee). Louisville (Ohio). (New York) Waterford. "Middleville. North Wisconsin. 57. 1839. (Can. W.) Mid.OttawaRiver. Euomphalus, Sowerby, 1814. ing. 1810. (Can.W.)Mid. Ottawa River. Ireland, North Wales. (Centrotheca.) (New York) Watertown. Wisconsin. (Tennessee) Lebanon. (New York) Watertown.	Victoria (Australia). Ireland.	Isle Oesel, Lodé (Baltic). Bogoslofsk (Oural). Dudley, Ludlow (England
Tr	carinata, cunulæ, cymbula, orbiculata, patelliformis, sp. ind., Cerithium, Adda avicula, Helmerseni, De Chemnitzia, D' sp. ind., Chiton, Linnæus Canadensis, Grayanus, Griffithii, Helminthochiton, Cirrus, Sowerby, concoy, Cleodora, Person sp. ind., Clioderma, Ha anatiformis, attenuata, caniculata, expansa, Saffordi,	Hall. """ """ """ """ """ """ """ """ """	(New York) Trenton Falls and Middleville. Nashville (Tennessee). Louisville (Ohio). (New York) Waterford. "Middleville. North Wisconsin. 57. 1839. (Can. W.) Mid.OttawaRiver. EUOMPHALUS, Sowerby, 1814. ing. 1810. (Can.W.)Mid. Ottawa River. Ireland, North Wales. (CENTROTHECA.) (New York) Watertown. Wisconsin. (Tennessee) Lebanon. (New York) Watertown. (Tennessee) Lebanon.	Victoria (Australia). Ireland.	Isle Oesel, Lodé (Baltie). Bogoslofsk (Oural). Dudley, Ludlow (England
Tr	carinata, cunulæ, cymbula, orbiculata, patelliformis, sp. ind., Cerithium, Ado avicula, Helmerseni, De Chemnitzia, D' sp. ind., Chiton, Linnæus Canadensis, Grayanus, Griffithii, Helminthochiton Cirrus, Sowerby, concoy, Cleodora, Person sp. ind., " Clioderma, Ha anatiformis, attenuata, caniculata, expansa, Saffordi, undulata,	Hall. """ """ """ """ """ """ """ """ """	(New York) Trenton Falls and Middleville. Nashville (Tennessee). Louisville (Ohio). (New York) Waterford. "Middleville. North Wisconsin. 57. 1839. (Can. W.) Mid.OttawaRiver. EUOMPHALUS, Sowerby, 1814. ing, 1810. (Can.W.)Mid. Ottawa River. Ireland, North Wales. (Centrotheca.) (New York) Watertown. Wisconsin. (Tennessee) Lebanon. (New York) Watertown. (Tennessee) Lebanon. (New York) Watertown. (Tennessee) Lebanon. (New York) Watertown.	Victoria (Australia). Ireland.	Isle Oesel, Lodé (Baltie). Bogoslofsk (Oural). Dudley, Ludlow (England)
Tr	carinata, cunulæ, cymbula, orbiculata, patelliformis, sp. ind., Cerithium, Ado avicula, Helmerseni, De Chemnitzia, D' sp. ind., Chiton, Linnæus Canadensis, Grayanus, Griffithii, Helminthochiton Cirrus, Sowerby, concoy, Cleodora, Persoe sp. ind., " Clioderma, Ha anatiformis, attenuata, caniculata, expansa, Saffordi, undulata, Clisiospira, Bil	Hall. """ """ """ """ """ """ """ """ """	(New York) Trenton Falls and Middleville. Nashville (Tennessee). Louisville (Ohio). (New York) Waterford. "Middleville. North Wisconsin. 57. 1839. (Can. W.) Mid.OttawaRiver. EUOMPHALUS, Sowerby, 1814. ing, 1810. (Can.W.)Mid. Ottawa River. Ireland, North Wales. (Centrotheca.) (New York) Watertown. Wisconsin. (Tennessee) Lebanon. (New York) Watertown. (Tennessee) Lebanon. (New York) Watertown. (Tennessee) Lebanon. (New York) Watertown.	Victoria (Australia). Ireland.	Isle Oesel, Lodé (Baltie). Bogoslofsk (Oural). Dudley, Ludlow (England)
Tr	carinata, cunulæ, cymbula, orbiculata, patelliformis, sp. ind., Cerithium, Ado avicula, Helmerseni, De Chemnitzia, B' sp. ind., Chiton, Linnæus Canadensis, Grayanus, Griffithii, Helminthochiton Cirrus, Sowerby, concoy, Cleodora, Persoe sp. ind., " Clioderma, Ha anatiformis, attenuata, D. I caniculata, expansa, Saffordi, undulata, Clisiospira, Bil curiosa,	Hall. """ """ """ """ """ """ """ """ """	(New York) Trenton Falls and Middleville. Nashville (Tennessee). Louisville (Ohio). (New York) Waterford. "Middleville. North Wisconsin. 57. 1839. (Can. W.) Mid.OttawaRiver. EUOMPHALUS, Sowerby, 1814. ing, 1810. (Can.W.)Mid. Ottawa River. Ireland, North Wales. (Centrotheca.) (New York) Watertown. Wisconsin. (Tennessee) Lebanon. (New York) Watertown. (Tennessee) Lebanon. (New York) Watertown. (Tennessee) Lebanon. (New York) Watertown.	Victoria (Australia). Ireland.	Isle Oesel, Lodé (Baltie). Bogoslofsk (Oural). Dudley, Ludlow (England)
Tr	carinata, cunulæ, cymbula, orbiculata, patelliformis, sp. ind., Cerithium, Ado avicula, Helmerseni, De Chemnitzia, D' sp. ind., Chiton, Linnæus Canadensis, Grayanus, Griffithii, Helminthochiton Cirrus, Sowerby, concoy, Cleodora, Persoe sp. ind., " Clioderma, Ha anatiformis, attenuata, caniculata, expansa, Saffordi, undulata, Clisiospira, Bil	Hall. """" """" """" """" """ """ """ """	(New York) Trenton Falls and Middleville. Nashville (Tennessee). Louisville (Ohio). (New York) Waterford. "Middleville. North Wisconsin. 57. 1839. (Can. W.) Mid.OttawaRiver. EUOMPHALUS, Sowerby, 1814. ing, 1810. (Can.W.)Mid. Ottawa River. Ireland, North Wales. (Centrotheca.) (New York) Watertown. Wisconsin. (Tennessee) Lebanon. (New York) Watertown. (Tennessee) Lebanon. (New York) Watertown. (Tennessee) Lebanon. (New York) Watertown.	Victoria (Australia). Ireland.	Isle Oesel, Lodé (Baltie). Bogoslofsk (Oural). Dudley, Ludlow (England)

GASTEROPODA.

Subdivision.	Genus, Spec		Lower Stage.	Middle Stage.	Upper Stage.
Tr., H. R. G	bilix,		(Lake Huron) Cape Smyth, Tennessee, N.York, (Ohio) Cincinnati.		
CL Div. 4, Anticosti	cancellata, communis,	Hall. Billings.		(N. Y.) Wayne County &c. Anticosti.	
Gr., Mayhill. Carad		M·Coy.	(Ireland) New Ross, Wex-		
L., U.L	Turbo. corallii, Murchisonia.	Sowerby.	ford.		Derrymore Glen (Ireland
Carad		M [*] Coy.	(N. & S. Wales) Caernarvon, Bala, CorndonGrits, West- moreland.		Ludlow, (Salop) Botville Caradoc, &c., Gothlan (Middle and North).
U.Llandov Div. 4, A. Gr.,		Salter. Billings	moreand.	Nash Scar, Presteign. (Anticosti) S.W. Point	
Mayhill.					Gualah (Canada Wast)
Guelph	depressa, Galtensis,	.,			
Tr	granulata, Hageri		(Ireland) Desertcreate. Canada (east and west).		
B., BL	Halliana,	Salter.	(Canada W.) Middle Ottawa.	(4 - 4 : 4 : \ FD) - T	
Div. D, A. Gr Carad		?	(Irel.) Tyrone, Desertcreate.		
Tr	mediocris, Montrealensis,		(Canada E.) Montreal.		See St. Asset St.
CL., Niag	obsoleta,	Hall.		Canada West.	(Canada W.) Flamboro' W
L	Octavia,	D'Orbigny.			Ludlow, Chance's Nite Malvern, Westmoreland
Div. 4, A. Gr., Niag.?	percingulata,	Billings.		Anticosti Isle, S.W. Point (Gulf St. Lawrence).	
Queb. G Guelph		,,	Quebec (drift).		Guelph (Canada West).
L.Llandov	quadristriata,	Phillips.		Malvern (England).	oucipii (cuiuda ii csc)i
Pleta, Carad			Niti Pass, Himalaya (E. I.). Wales, (Irel.) Chair of Kil- dare, (Esthonia) Nyby, Isle Dago, Hohenholm.		
Tr	sigaretiformis, subsulcata,	Portlock.	(Can.W.) Mid. Ottawa River. (Ireland) Chair of Kildare. (Ireland) Desertcreate.		
Onond. S. Gr., Guelph.		Hall.	(Himalaya) Niti Kalajowar.		(New York) Wayne Coun- (Canada West) Guelph.
Pleta, Carad Div. 1, Anticosti			Tyrone, (Esthonia) Kirna, Odinsholm. (Anticosti) Charlton Point.		
Gr., H. R. G. Guelph		Dilling.	Junction Cliff.		(Can.W.) Guelph Townshi
Pleta			Poulkova, Ropscha, &c. (Russia), Wesenberg &c. (Esthonia), Chair of Kildare (Ireland), (Wales) Allt-y-		
L		M'Coy.	gauer.	(Antiqueti Isla)S W Point	Aymestry (England).
Div. 4, Anticosti Gr., Mayhill.					
H. R. G	varicosa, ventricosa,	Hall	Tennessee (U. S. America). Ohio, Tennessee	Wales, (N. York) Wayne	9
dov. Carad	34		Montgomerysh., Llanfyllin.	County, Sodus.	
W		eels), ,,			(Wales) Llansannan, Bry Mawr.
,,	,,	,,			
Inflamm. Schist	Dentalium,		40. D'Erras (Esthonia), Ponti		
	granosum,	,,	lovo (St. Petersb., Russia) Poulkova, Popova (Russia).		
E ICEA	-	",	- and a obe in (account)		
"	notabile, Eunema, Sai	Hen 1950	n "		

Subdivision.	Genus, Species, and Author.	Lower Stage.	Middle Stage.	Upper Stage.
w	cirrhosus, Sowerby			. Wenlock, Dudley (England)
B., BL	Erigone, Billings	(Canada W.) River Ottawa,	,	, ,
B., BL	pagoda	Point l'Orignal.	2	
D., D.L	pagoda, ",	Canada West, Mingan Isles, Wisconsin.		
P., CS		Hunter's Isl. (Mingan Isles).	11 11 11 11	
B., BL	strigillata, Salter	Mingan Isles, (Can. W.) Mid-		
		dle Ottawa River, Camp d'Ours, Lake Huron.		
	Euomphalus, Sowerby			
Pleta		Isles Odinsholm and Dago		The state of the s
	æquilaterus, Wahlenb	(Baltie).		Gothland.
Oslo G., Llan	æquilateralis, Hising	Norway.		
Llandov., W., L.	alatus, Hising		Bull's Head (Kerry)	
				berley Hill, Tame Bridg (Engl.), (Irel.) Ferriter
				Cove, Doonquin, (Wales
No.				Llandeilo.
	var. subundatus, Salter			Golden Grove, Llandeilo, &c
	" Brauni,major, Barr	Bohemia.		(Wales).
Fauna E	canaliferus,			Bohemia.
W., L	carinatus, Sowerby			(N. Gothland) Wisby, (Nor
				way) Katthammer, (Engl. Tortworth, Ludlow, Wal
				sall, Aymestry, &c., (Wales
	antonial III alian			Mocktree.
	catenulatus, Hising			Gothland, Katthammer (Norway).
Corall. Lst., W.,	centrifugus, Wahlenb			Dudley, Leintwardine, Wool-
L.				hope, &c., (Podolia) Ka-
Llan	Corndensis Sowerby	Corndon Hills (S. Wales),		menetz.
		South Thuringia.	District Commence	
Corall. Lst	cornu-arietis, Hising			Podolia, Isle Oesel (Baltic).
				(Gothland) Katthammer Klinteberg.
W				(Gothl.) Katthammer, Näs.
PletaW.	devexus, Eichw.	(Esthonia) Wesenberg		
	discors, Sowerby	(assertation) it contacts.		North Gothland, Woolhope Wenlock, Dudley, &c
		The state of the s		(England), Wales.
J.Pentam. Lst.	disjunctus, Hall			(New York,east) Carlisle &c
	elegans, Eichw	Réval, Lyckholm (Esthonia).		Counties.
	gyroceras.		and the state of t	
U.Llandov., W L., Pleta, Fauna	funatus, Sowerby.	(Isle Dago) Hohenholm		(N. Gothland) Wisby &c.
E.			(Ireland) Bull's Head, Kerry County, (Wales)	
***		Lean language	Marloes Bay.	Wenlock Edge, Dudley
		300		Aymestry, &c., (Irel.) Fer-
Fauna E	granulatus, Barr.	************		riter's Cove &c., Bohemia. Bohemia.
N	nemisphæricus,			Landles, Woolhope, Dudley.
Pleta U.Llandov., W.		Isle Odinsholm (Baltic).	(Insland) Galerra	Deenguin Famitanta C
	autus, M'Coy.		(Ireland) Galway	(Ireland).
	Luzieri, Bonissent.	(France) La Manche.		
1	narginalis, Eichw.	Isle Odinsholm &c. (Baltic), Lapoukhineka(St. Petersb.).	The state of the state of	Land Harris
		Latticula nineval St Potevals 1		
	natutinus, Salter.	(S. & N. Scotland) Durness		
Zlanı	Maria Caracteria Carac	(S. & N. Scotland) Durness, Sutherland.		District Columbia
Jan	Maria Caracteria Carac	(S. & N. Scotland) Durness, Sutherland. Traverse des Sioux (Minne-		Telling and the state of
CS	Minnesotensis, D. D. Owen.	(S. & N. Scotland) Durness, Sutherland. Traverse des Sioux (Minne- sota).		Bohemia, Franconia
llan	Minnesotensis, D. D. Owen. nonoplectus, Barr. Dlanissimus Eichw.	(S. & N. Scotland) Durness, Sutherland. Traverse des Sioux (Minne-	Odinsholm?	Bohemia, Franconia.
llan	Minnesotensis, D. D. Owen. nonoplectus, Barr.	(S. & N. Scotland) Durness, Sutherland. Traverse des Sioux (Minne- sota). Odinsholm Isle (Baltic) (Russia,St.Petersburg)Poul-	Odinsholm?	Bohemia, Franconia.
llan	Minnesotensis, D. D. Owen. nonoplectus, blanissimus posthumus, Barr. Eichw.	(S. & N. Scotland) Durness, Sutherland. Traverse des Sioux (Minne- sota). Odinsholm Isle (Baltic) (Russia,St.Petersburg)Poul- kova.	Odinsholm?	. 100 (100 (100 (100 (100 (100 (100 (100
Clan	Minnesotensis, D. D. Owen. nonoplectus, Barr. planissimus Eichw. posthumus, " prænuntius, Phill.	 (S. & N. Scotland) Durness, Sutherland. Traverse des Sioux (Minnesota). Odinsholm Isle (Baltic) (Russia, St. Petersburg) Poulkova. 	Odinsholm? Gunwick Mill, Malvern, Mayhill.	
Clan	Minnesotensis, D. D. Owen. nonoplectus, planissimus Eichw. posthumus, prænuntius, primus, Phill. Primus, Barr.	(S. & N. Scotland) Durness, Sutherland. Traverse des Sioux (Minne- sota). Odinsholm Isle (Baltic) (Russia,St.Petersburg)Poul- kova.	Odinsholm? Gunwick Mill, Malvern, Mayhill.	
CS.	Minnesotensis, D. D. Owen. nonoplectus, planissimus Eichw. posthumus, prænuntius, primus, Phill. Primus, Barr.	 (S. & N. Scotland) Durness, Sutherland. Traverse des Sioux (Minnesota). Odinsholm Isle (Baltic) (Russia, St. Petersburg) Poulkova. 	Odinsholm? Gunwick Mill, Malvern, Mayhill.	
Clan. CS. Pleta J.Llandov. Tauna D H. G.	Minnesotensis, D. D. Owen. nonoplectus, planissimus posthumus, prænuntius, primus, profundus, profundus,	(S. & N. Scotland) Durness, Sutherland. Traverse des Sioux (Minne- sota). Odinsholm Isle (Baltic) (Russia,St.Petersburg)Poul- kova. Bohemia.	Odinsholm? Gunwick Mill, Malvern, Mayhill.	

Subdivision.		Species, and uthor.	Lower Stage.	Middle Stage.	Upper Stage.
Corall. Lst., U. Llandov., W.	rugosus,	Sowerby.		Mayhill (England)	Ledbury, &c., North Goth land, (Podolia) Kameneta
U.Llandov.,W	sculptus,	"		Norway, (Engl.) Mayhill, Malvern, Tortworth, (Ireland) Galway.	(Can. E.) Port Daniel. Norway, North Gothland Shropshire, Dudley, Mal vern, Westmoreland, &c
?	serpuloides,	Richter.			(Irel.) Derrymore Glen.
Tentac. Lst., L. H. G.	sinuatus,	Hall.			(Central N. York) Herkime County, (N. New Bruns wick) Restigouche?.
Llandov		Helmersen. s, Münster.		Boocaun, Cong (Galway).	Gothland.
Carad., W	substriatus, subsulcatus	Barr. Hising.	Chair of Kildare, Pomeroy		Gothland, Norway, (Ireland
L. H. G	sulcatus,		(Ireland).		carlia) Vicarby.
Carad	supra-angul tenuistriatu	latus, Hising. s, Sowerby.	Middleton, Corndon Hills,		Gothland.
Llandov., W	Trochone		Doonquin (Ireland). (Wales) Cyrn-y-brain	Lettershanbally (Galway).	(Wales)Golden Grove, Sout Scotland.
Oslo Gp Tr	trigonalis, triliratus,	Conrad.	Norway. Mineral Point (Wisconsin).		
Carad., W	triporcatus, Trochone	M'Coy.	(Wales) Wrexham		marthen.
Fauna E Carad.	trochleatus, tubæformis	Baily.	Ireland.	Control of the Contro	A CONTRACTOR OF THE PARTY OF TH
Fauna F	tubiger.	Barr.	Pennsylvania, Norway?	······	Bohemia.
CS	uniangulatu	ıs, Hall.	Canada West, (New York) Saratoga County.		
Р	? vaticinus, vortex,		(Minnesota) La Grange Mn. (Russ.) Tzarskaya-Slawanka,		and the state of the state of
			St. Petersburg, Isle Dago &c. (Baltic), (Esthonia) Lyckholm.		
Carad	sp. ind.,		Merioneth, Bala Lake.		Arctic Seas (America).
r	"	Salter.	Berrigal (New South Wales). Wales. North-west Scotland.	in the second	
Llan		na, Salter, 185 Wyatt-Edgel.		and the second second	
Divs. L, M, Queb. G.			(Newfoundl. W.) Tablehead.	arminima !	Comment of the second
Div. H., CS., Queb. G.		"	, , , , , ,		
B., BL., Tr Tr	Milligani,	,,	(Can.W.)Mid. Ottawa River. Tasmania West.		
Queb. G CS		Billings.	Point Lévis (Canada East). (Can. E.) Point Lévis, Mingan Isles.		
B., BL., Tr	planulata, Euomph.	Salter. triliratus.	(Can. W.) Loughborough, (Can. E.) Montreal, Lower Ottawa, Highgate Springs,		
,, "	var. mur	icata, ,,	North-west Vermont. (Canada E.) Lower Ottawa, Grenville.		
Div. G, Queb. G.	Proserpina,	Billings.	Cape Norman (Newfound- land North).		
Tr B., BL., Tr		Salter.	Tasmania West. (Canada E.) Lower Ottawa River.	788	
Div. G., CS., Queb. G.	Tritonia,	Billings.	(Newfoundland North) Cape Norman.		
CH		,,	(Canada E.) Lower Ottawa River.		
CS	uniangulata	, Hall.	New York, Mingan Isles (G. St. Lawrence), Point Lévis (Canada East).		
	Helmintl Griffithii, Chiton.	nochiton, Salt Salter.	er.	Ireland.	

Subdivision.		Species, and athor.	Lower Stage.	Middle Stage.	Upper Stage.
	Holopæa,	Hall. 1842.			
L. H. G	antiqua,	Vanuxem			(Cent.N.York)Herkimer Co
	var nerve	tusta, Hall			. " "
H. Ř. G	bilix,	Conrad	New York, Canada West Pennsylvania, (Iowa) Tur key River.	,	
Carad	carinata.	Forbes	(N. Wales) Bala, Rhiwlas.	· I · I · I · I · I · I · I · I · I · I	
Niag	Chicagoensis	, Winch & Mar	Chair of Kildare, Wexford		. Chicago (Illinois).
Carad	concinna,	M [*] Coy	Chair of Kildare, Wexford (Ireland), Denbighshire Cerrig-y-Druidion, Leis ley (Westmoreland).	,	and in solution
,,,	conica,	Forbes.	(Wales) Bala Lake, Rhiwlas		A STATE OF THE STA
,,	constricta,		,, Bala, Cymmerig		
Pentam. Lst., L.	Danaë,	Hall	Merioneth.		(N. York) Chittenango Falls
H. G. Queb. G., CS	dilumla		(Canada East) Point Lévis		Nova Scotia.
Queb. C., Cb	dirucuia,	**	Phillipshurg		
L. H. G	elegans,	,,	1 minpowes.		Canada.
L. H. G.?	elongata,	**			(N.York,central)Manlius &c
Carad		Forbes.	(Wales) Bala Lake, Rhiwlas		
Guelph			· · · · · · · · · · · · · · · · · · ·		Galt Township (CanadaW.)
"	Guelphensis,				
Tr."	Harmonia,	"	(Canada) Admaston Town		" "
			ship.		
Queb. G Carad		Forbes	(Canada East) Point Lévis. Rhiwlas (North Wales).		
Tr		Salter.	Tasmania West.	Marine Bounts	
AND THE PERSON NAMED IN COLUMN TWO	nereis.	Billings.	(Canada E.) Montreal &c.		
Niag	Niagarensis,	Winch.&Mar.			Chicago (Illinois).
Ir	obliqua,	Salter.	(N. York) Middleville, Mid.		
Die T. Oush C.	0-1-1	D:11:	Ottawa (Canada West).	Section 1985	
Div.L., Queb. G.	Opnena,	Billings.	(Newfoundland) Point Rich. (Canada E.) Beauharnois,		
00	ovans,	"	Godmanchester.		
Fr	paludiniform	is, Hall.	(New York State) Jefferson County.	and the same of th	Minimum Land
U.CS	Proserpina.	Billings.	(Canada East) Mississquoi.	A Second	Part of the last o
	pumila,	Salter.	(Himalaya) Niti, Damchen. (Canada W.) Middle Ottawa	1	and the same of th
age of the second		1	River.	2	
L. H. G	reversa,	Hall.			New York, (Nova Scotia Arisaig.
1	rupestris,	Eichw.	Ireland, Russia, Lower Sile- sia (rolled).		
Carad	striatella,	Sowerby.	(Ireland) Chair of Kildare, (Wales) Moel Hebog, Bala Lake, (Engl.) Horderley		
Donton T.		YF 11	&c.		ON N. I.
Fentac. Lst., L.s H. G.		Hall.	0 1 0 2 2 1 2 2 2		(N. York, central) Auburn.
B., BLs		100000000000000000000000000000000000000	Canada, (New York) Middle- ville.		
CSt			Hunter's Island, Mingan Isles (Gulf St. Lawrence).		
	varicosa,	The state of the s	(Himalaya) Niti, Chorhoti Pass.		
Fr	ventricosa,		(N. York) Herkimer County.		
Carads	70	D. D. Owen.	Elkader (Iowa).		
Ut. Slate	**	Salter.	Caernarvon, Bettws-y-Coed (Wales).		
		M. Coy, 1852.	`		
	ampullacea,	Schmidt?	Esthonia, Low.Silesia(drift).		
Carad.,Llandov., L. & U.L.	cancellata,	Sowerby.		Norbury &c., Malvern,	
Carad., Llandov.,	eonica,	"	Merioneth, Bala Lake		
Tilestone.				land) Norbury.	Hill, Kendal (Westmore- land).
	elongata,	Eichw.		(N. Ural) Bogoslovsk.	
			T. I. I. (D.)		
Pletae	eximia,	"	Wakhterpag, Isle Dago (Bal-		
			tic), Lyckholm (Esthonia).		(North Wales) Dinas Bran,

Subdivision.	Genus, Spe		Lower Stage.	Middle Stage.	Upper Stage.
Llandov., W., U.	gregaria,	M'Coy.		Galway (Ireland)	(N.& S. Wales) Llanrwst, Ho
L.					reb Chapel, Radnorshire
	10 1111111			and the same of	&c., (Westmorel.) Kirkb
T. T			Maria Malanti 18	(A) (B) (B)	Lonsdale &c.
U.L		,,	Sclattyn Road (N. Wales).		Underbarrow (Westmorel.)
Carad Llandov., U.L		Sowerby	(S.W. Scotland) Girwan	Toutworth Malvom Por	(S Wales Web Housh Chane
Liandov., C.L	obsoleta,	Sowerby.	(S. W. Scotland) Girwan	mine, Norbury.	Benson Knot (Westmore
	1			mine, Norbury.	land), Esthonia, Gothland
Llandov	plana.	M'Cov.	·····	Tonlegee Galway (Irel)	land), Estholia, Gottian
	tenuicineta,	"		Mullock Quarry (South-	
"		"		west Scotland).	
W	sp. ind.,	Salter.		The state of the s	(Wales) Mynydd Tryfan.
		Selwyn.		Victoria (Australia).	
	Hormotoma,	, Salter, 186	6.		
Tr		Salter.	Tasmania West.		
	usitata,	1001	2) 2)		
	Litorina, Fér				(F 1 1) T 11 37 1
W	Octavia,	M'Coy.			(England) Ludlow, Norbur
Count	-twistella	Comouler	Bishop's Castle &c. (Shrop-		Linley, Malverns, &c.
Carad	Holopæa.	Sowerby.		Table 1	
	Loxonema,	Phillins 184	shire).		The second second
Div. 3, A. G.,			1.	Anticosti Tela	and the same of the same
Mayhill.				Litercosti ISIC.	
Delth. Sh. Lst	attenuata.	Hall.			(N. York, east) Carlisle Co
Onon. S. G	Boydii,	**			Guelph (Canada West).
L. H. G.?	compacta,				(N. York) Schoharie Count
					Gaspé (Canada East).
Faunæ F, G. g. 1.	Devonicans,	Barr.			(Boh.) Chotecz, Konieprus
L.L	elegans,	M'Coy.			Derrymore Glen (Ireland
	THE REAL PROPERTY.				Leintwardine, River On
					(Shropsh.), (Wales)Crai
D 14 01 T	Y21. 1 .	TT 11			hir.
Delth. Sh. Lst					(N. York) Helderberg Mr
L. H. G		Mask			(Canada East) Cape Gaspe
	Kanei,	Meek.			Kennedy's Channel (Arct
	longispira,	Hall			America). Illinois, Iowa, Galt(Canada
	M'Clintocki,				Arctic Seas (America), Po
	SI CHIHOCKI,	paner.		***************************************	Leopold.
B., BL	Murrayana.		Mingan Isles (G. St. Lawr.).		
Pentam. Lst., L.	? obtusa,	Hall.	((N. York) Schoharie Count
H. G.				A SECOND OF THE PROPERTY OF TH	
L. H. G	planogyrata,	,,,			
	Rossi,	Haughton.			
				in the	fith's Island.
	Salteri,	,,,		***************************************	Arctic Seas (America), Be
T1 1 W T				117 1	chey Isles.
Llandov., W., L.	sinuosa,	Sowerby.		wates	Abberley, Vinnal Hill, Lucian Lodhum Domestic
					low, Ledbury, Derrymo Glen (Ireland), Aymest
	2 400		NO SECTIONAL PROPERTY.	wearing the state of	(Hereford), (Wales) Lla
					sannan &c.
Niag.	subulata.	Conrad			Chicago (Illinois), Canada
CS		Swallow	Missouri (U. S. America).		Comment of the comment
?	17	Selwyn.		Victoria (Australia).	** ** ** **
	Macrocheilu	1s. Phillips.	1841.	Control of the Contro	
Carad., L	elongatus,	Portlock.	(Ireland) Desertcreate		Wales (Devonian, Newton
	Polyphemops	is.			
U.Llandov					aut 1
	sp. ind.,				Gothland.
TT41 60-4	"		m 1 m' (T)	***************************************	Arctic Seas (America), Gr
Utica Slate			Turkey River (Iowa).		fith's Island.
H. R. G	Metoptoma,			CONTRACTOR OF STREET	(Colonial Colonia Colonial Colonial Colonia Colonia Colonia Colonia Colonia Colonia Colonia Colonia C
P., Queb. G			(IsleAnticosti) English Head.	- Torrier	
The state of the s	angusta, anomala,	"	(Canada East) Point Lévis.		414 644
BL		,,	Mid. Ottawa River(Can.W.)		
	Chiton.	,,	Date Ottana Miter Can. W.)	4	
CH		Hall	New York (U.S. A), Canada.		4 14 14
	dubia,	Trail.	New York.		The state of the s
BĽ		Billings	(CanadaW.) Middle Ottawa		The state of the s
		- Barringa	River.		10000000
H. R. G	Estella,	,,	(IsleAnticosti)English Head.	The second second	New Control of the Co
CH		"	(Canada East) Phillipsburg.		
		29	, and a summer of		

Subdivision.		Species, and uthor.	Lower Stage.	Middle Stage.	Upper Stage.
P., Queb. G ,, Div. L, Queb.			Point Lévis (Canada East). (Newfoundland W.) Table-		Vinetal States Disease States
G. P., Queb. G	melissa,		head. Newfoundland West, Point		realism related about
CH	Montrealen	sis, "	Lévis. (Canada East) Montreal.		The same of the sa
CS	Nicteis,	"	Mingan Isles (G. St. Lawr.).		and the second second
P., CS		"	(Canada E.) Phillipsburg. Point Lévis.		and the second at any
P., CS		"	", Point Levis. ", Phillipsburg.		Column Colonia
Tr	patelliform		Canada, New York.		
Pleta			Poulkova (Russia). (Canada East) Point Lévis.		
H. R. G	rugosa,	Hall.	(New York) Troy.		
Pleta	silurica,	Eichw.	Réval (Baltic). (Canada W.) Merrickville.		and the same of th
CS			Poulkova (Russia).		Harman Strategies
BL			(Canada W.) Middle Ottawa River.		Total Same
Tr		sis, "	Montreal (Canada East).		and the last sense.
P., Queb. G		onia, D'Arch. &	(Canada East) Point Lévis.		
CH., Ut. Sl			(New York) Clinton County,		
			(Iowa) Elkader.		OV 0
L. H. G Div.G.,CS.,Queb.		Billings	(Newfoundland West) Port	***************************************	(Nova Scotia) Arisaig.
G.		Dininge	au Choix.	Transvious III	
CS		**	LowerOttawaRiver(Can.E.).		
Div.G=CS.,Queb. G.	Adelina,	33	(Newfoundland North) Cape Norman.		
Divs.G, H=CS., Queb. G.	agilis,	,,	(Newfoundl. N. & W.) Cape Norman &c.		
BL	Alexandra,		(Can, W.) Mid. Ottawa River.		cingery
Carad., Llandov., Tr.	angulata,	Sowerby.	Caernarvonshire, Carnedd Dafydd(Wales), (Wiscon-		desiral and the base
B., Tr	27	Hall	sin) Mineral Point. New York, N.W. Michigan		
Llan	angulocine	ta, Salter	(Lake Superior). (N.W. Scotland) Durness.		
	angustata,	Hall	(N. & S. Scotland) Durness, Knockdollian, Ayrshire,		
D:- C - CS		Dillinon	New York, Sweden?	al sealth and the	The second second
Div. G=CS	Anna,	Dinnigs	(Newfoundland W.) Hawkes Bay, (Can. E.) St. Anne and Beauharnois.		
Tr	Arachne,	Billings	Montreal (Canada East).		
CS	arenaria,	17	Godmanchester, Beauhar	A THE PARTY OF THE	
L. H. G	Arisaigens	is. Hall	nois (Canada East).		Arisaig (Nova Scotia).
CS	Artemisia,	Billings	LowerOttawaRiver(Can.E.)		
Llandov., U.L	articulata,	Sowerby		Tonlegee (Galway)	Ludlow, Ledbury, &c., Wales Kendal (Westmoreland)
CH	aspera.	Billings	Mingan Isles (G. St. Lawr.)		Norway, Gothland.
	attenuata.	Hising			Gothland.
Divs. H, I, K, L M, N, Queb. G	Augustina	, 19	(Newfoundl. W. & N.) Point Rich, Burnt Cape, &c.		
Llandov., W	balteata,	Phill	Kien, Burnt Cape, &c.	Galway (Ireland), Lla dovery (Wales).	n-Dudley, Mayhill, Wales.
H. R. G B., BL., Tr		Hall	(Canada East) Yamaska. (Canada E.) Lake St. John	IL COULT	
D., DD., T.	beiliellieta	, IIai	(N. York) Trenton, Turin		
	-		&c., Tennessee, Kentucky Missouri. (Iowa) Elkader		
	Page 1		&c., (Illinois) Scale's Mound, N.W. Michigan (N.W. Scotland) Durness		
Llan., Carad	bicineta,	M · Coy	Silesia. (Ireland) Kildare, (Can. E. Montreal, Middle Ottawa	1	A CONTRACT OF THE PARTY OF THE
Carl A Une	I neptito		River, Lorette, &c., Nev York, Tennessee, Missouri		S CONTRACTOR OF STREET
BL., Delth.Sh. L	bilirata,	Hal			(New York) Albany County
Guelph, Onon. S		,,			(Canada W.) Dumfries an Galt Townships.

Subdivision.		Species, and thor.	Lower Stage.	Middle Stage.	Upper Stage.
Guelph, Onon. S. G.	Boydii,	Hall.			(New York) Wayne County (Can. W.) Guelph Town
Carad., Llandov.	cancellatula,	M'Coy.	(S.W. Scotl.) Mulock, Mei-		ship.
Div. K, Queb. G. Queb. G.		Billings.	fod, Alt-y-Anker (Wales). Point Lévis (Canada East). (Newfoundl. W.) Tablehead.		
Div. L, Queb. G.		"	(Newfoundland W.) Point Rich &c.		T
W., L	cingulata,	Hising.		Cong (Galway)	Leintwardine, Herefordsh. Aymestry Scotland, Nor way, Gothland, Esthonia Nijni-Tagilsk (Ural), (Rus sia) Petropaulofsk.
M. Sa Carad., U.L		Hall. Sowerby.	Tramore (Ireland)	(New York) Lockport.	Ludlow, Malvern, (Wales Llandeilo, Radnorshire (Gothland) Grotlingbo.
Guelph	Estella,	Billings.			Galt (Canada West).
Tentac. Lst., L. H. G.					(New York, east) Schoharic and Onondago Counties.
Div. 1, A. G., Tr. ,, 4,A.G.,May- hill.		Billings.	Tasmania West.	(Anticosti) The Jumpers.	
Div. 1, A. G., Llandov.	gigantea,	,,		(Isle Anticosti) Prinsta Bay &c.	
Tr.,H.R.G.,Llan- dov.	gracilis, Hormotomo		Pennsylvania, Carlisle (New York), Watertown, Wis- consin, (Canada E.) Lake St. John, Montreal, (Can. W.) Middle Ottawa River,	(Anticosti) Cape Sand-top &c.	
Carad			Camp d'Ours, LakeHuron. (N. & S. Wales) Yspatty, Evan, Llanfechan, &c.		(C W) C-1 m 1:-
Guelph B., BL., Tr	helicteres,	Salter.	Middle Ottawa River, Wis- consin.		(Can. W.) Galt Township.
Guelph CH. or BL		,,	Mingan Isles (G. St. Lawr.). (Himalaya) Niti, Chorhoti Pass.		22 25
Queb. G Llandov	inflata,	Billings. M'Coy.	(Canada E.) Phillipsburg.	Tonlegee, Galway (Ire- land).	man a man
СН	A STATE OF THE PARTY OF THE PAR		(Canada W.) Grand Isle, near Cornwall.		
Queb. G. Racine, Niag Carad	Laphami,	Hall.	Point Lévis (Canada East). Desertcreate (Ireland).		Wisconsin (U. S. America)
CS. W., L.	linearis,	Billings.	Mingan Isles (G. St. Lawr.)		(Shropshire) Wenlock Edge
			· ·		Dudley, Aymestry, Mal- vern, Herefordsh., (Wales Mynydd Tryfan, Craig-hir
Onond. S. G., Niag.		1000		and the second second second	Illinois, Iowa, (Canada W. Guelph. (Can. W.) Galt Township.
Guelph Onond. S. G., Guelph.	macrospira.	Hall.			", Dumfries Townsh
Pr			Green Bay, Lake Michigan, Wisconsin (U.S.America), Dubuque (Iowa).		
Γr Γentac. Lst., L.	mimetica,	Salter.	Missouri (U. S. America). Tasmania West.		(Central NewYork) Fayette-
H. G. Queb. G H. R. G	Missisquoiens	is, Billings.	(Canada East) Phillipsburg. Isle Anticosti, English Head (Gulf St. Lawrence).		ville.
,,	multivolvis,	**	Isle Anticosti (west end), Macasty Bay.		
Niag		,,			Illinois, Iowa (U. S. Amer.), Galt (Canada West).
	obscura.	73 41 1	(Ireland) Desertcreate.		

CH	a, Salte	Ill. New York. Niti (Himalaya), Kalajowar (Sec. Niti (Himalaya), Kalajowar (Sec. Niti (Himalaya), Kalajowar (Sec. Niti (Himalaya), Kalajowar (Camp d'Ours, L. Huron Highgate Springs (N.W Vermont), Montreal (Can E.), Mingan Isles, (New York) Jefferson County. (NewfoundlandNorth) Cape Norman. (Canada W.) Middle Ottawa River. (Wales) Meifod, Tremadoe Ireland, (S.W. Scotland Mulock. (AnticostiIsle)EnglishHead (Anticosti I.) English Head &c. (Wales) Llyn Idwal, Nam Francon, &c., (S.W. Scotland) Stincher River.	Mandinam (Wales). Wales?, Leenane (Galway).	
B., BL., CH., Tr. perang Div.G, CS., Queb. placid G. BL	a, Billing s, ,, e, Sowerb, a, M·Co, a, Billings ,, s, ,, salte	Camp d'Ours, L. Huron Highgate Springs (N.W Vermont), Montreal (Can E.), Mingan Isles, (Nev York) Jefferson County. S. (NewfoundlandNorth) Cape Norman. (Canada W.) Middle Ottawa River. Y. (Wales) Meifod, Tremadoe Ireland, (S.W. Scotland Mulock. ?. (Anticosti I.) English Head &c. r. (Wales) Llyn Idwal, Nant Francon, &c., (S.W. Scot.	Mandinam (Wales). Wales?, Leenane (Galway).	
G. BL	s, , Sowerb, a, M·Co, a, Billings , , , , , , , , , , , , , , , , , , ,	(NewfoundlandNorth) Cape Norman. (Canada W.) Middle Ottawa River. (Wales) Meifod, Tremadoc Ireland, (S.W. Scotland Mulock. (AnticostiIsle)EnglishHead (Anticosti I.) English Head &c. r. (Wales) Llyn Idwal, Nam Francon, &c., (S.W. Scot	Mandinam (Wales). Wales?, Leenane (Galway).	
Carad., Llandov. pulchr H. R. G ramoss Div. 1, A. G., rugosa Llandov., H. R. G. Llandov., H. R. G. Llandov., Carad scalari serrata serrata serrula Queb. G Silvia, U.Llandov., Car. simple Divs. H, I, K, L, simula M, N, CS. &c., Queb. G. Divs.H, I, K, L, M, N, CS., Queb. G. var.	a, M·Co	y. (Wales) Meifod, Tremadoc Ireland, (S.W. Scotland Mulock. (AnticostiIsle)EnglishHead (Anticosti I.) English Head &c. r. (Wales) Llyn Idwal, Nant Francon, &c., (S.W. Scot	Wales?, Leenane (Galway).	
Div. 1, A. G., rugosa Llandov., H. R. G. Llan., Carad scalari serrata serrula Queb. G Silvia, U.Llandov., Car. simple Divs. H, I, K, L, M, N, CS. &c., Queb. G. Divs.H,I,K,L,M, N,CS., Queb.G. var.	s, Salte	(Anticosti Isle) English Head (Anticosti I.) English Head &c. r. (Wales) Llyn Idwal, Nant Francon, &c., (S.W. Scot-	(Anticosti) Gamache Bay	
Llan., Carad scalari B., BL., Tr serrata serrata serrata serrata Queb. G Silvia, U.Llandov., Car. simple Divs. H, I, K, L, M, N, CS. &c., Queb. G. Divs.H,I,K,L,M, N,CS., Queb.G. var.	, ,,	Francon, &c., (S.W. Scot-		
Queb. G Silvia, U.Llandov., Car. simple Divs. H, I, K, L, M, N, CS. &c., Queb. G. Divs.H,I,K,L,M, N,CS., Queb.G.	4.0	(Can.W.) Mid. OttawaRiver.		
M, N, CS. &c., var. Queb. G. Divs.H,I,K,L,M, sororcu N, CS., Queb.G. var.	x, Billing	New York, Wisconsin, Mont- real (Canada East). 8. Point Lévis (Canada East). y. (S.W. Scotland) Girwan &c.,		
Divs.H,I,K,L,M, sororeu N,CS., Queb.G. var.		Meifod &c. (Wales). (Newfoundland W.) Point Rich &c.	Bogmine, (Engl.) Nor- bury.	
Trsubfusi		(Newfoundland W.) Point Rich &c.		1
	perangulata, formis, Hall	Newfoundland. l. Canada, (N. York) Lewis Co. &c., Tennessee, Big Spring River (Iowa).		
Carad subrotu M. Sa., CL., Niag. subulat	a, Hall	Tyrone (Ireland).	Isle Anticosti, Flam- borough (CanadaWest).	
Corall. Lst. of terebra Schoharie.	lis?, Hall			(N. York) Schoharie County.
Div. 1, A. G., H. teretifo R. G. L., Tilestone torquat	and the same of th	IsleAnticosti,CharltonPoint.		Spital and Benson Knot,
Tr., Ut. Slate tricarin	ata, Hall	Falls of St. Anthony (Minnesota), New York, Canada,		Westmoreland (England), Stormhill, Golden Grove.
GuelphTullia,	Billings	(Wiscons.) Mineral Point, Sardinia.		(Can.W.) Guelph Township.
	ormis, Hall	Anticosti Isle, west end.		New York?, (Canada West) Galt Township.
H. R. G. Divs. 1, 4, A. G., Llandov.			New York, (Anticosti Isle) The Jumpers &c.	
Caradturrita, H. R. Gvarians, Bvaricoss	Billings.	Ireland, Merioneth, Bala (Wales). Isle Anticosti, English Head. (N. York) Jefferson County.		
B., Tr., H. R. G., Div. 1, A. G., Llandov.	sa, ,,	(Canada W.) Ottawa River, Montreal, Lake St. John (Canada E.), (Anticosti) Gamache Bay &c.		
Faunæ F, G. g. 1. P., CS. Verneui Vesta, Guelph Vitellia, Tr. vittata,	lli, Barr. Billings.	(Canada East) Phillipsburg. (NewYork)Jefferson County.		

Subdivision.	Au	Species, and athor.	Lower Stage.	Middle Stage.	Upper Stage.
H. R. G., Tr	uniangulata	, Hall.	(New York) Middleville.		
I.F	var. a.	**	New York.		The state of the s
H. R. G	" abbre	eviata, ,,	(New York) Lewis County,		
Guelph	Xanthippe.	Billings.	Turin, &c.		
	en ind	Meneghini.	Sardinia		(Can. W.) Galt Township.
Carad	,,		Caernaryon, Betts-y-Coed.		
	"	D. D. Owen.	Upper Mississippi River.		
	",	Salter	opper mississippi kiver.		
w	"	Daniel.			Arctic Seas (America).
	1000	**			
W	"	Solwen			. ,,
	,,	Dewson.		Wantowin (Ametwolin)	
	Natica 4	danson 1757 ·	Ampullaria, Sowerby; Nat		· (Nova Scotia) Arisaig.
Pleta	ampullacea	SECRETARION OF A REST A. B.	Isle of Odinsholm, Baltisch-	DOODETE AFT ON INCh	
	din paradecta,	Inchi.	nest Desired of Nest		
			port, Peninsula of Nouk		
	borealis,		(Esthonia).		
Carad	concinna	**	Ch.:- (T2) (T-1-3)	Altai	· Altai.
U.L	glancinoides	Soweehy	Chair of Kildare (Ireland).	TO THE OWNER OF THE PARTY OF TH	
	Succinoides	, Sowerby.			Benson Knot and Kirkl
	emograpie	Day			Lonsdale (Westmorel.).
	gregaria,	Darr.			/ M. D. Dallamin V. T. Marin
Pleta	inflata,				Gothland, Harz?
Pleta	irregularis,	A22 C 0.0 57 a	FOUROVA (BUSSIA).		
Fauna G. g. 1	minuta,	Barr.	(Fethon)Balticahnort Lyak		(Bohemia) Sub-Chotecz
Pleta	nodosa,	Eichw.	(Assenon, Danuschport, Lyck-		The Chocoe.
II T	Section 1		holm, Poulkova (Russia).		The state of the s
U.L	parva,	Sowerby.	, (/ -		. (Wales) Presteign Wood
					hope&c.,Shropshire,Wes
		-			The state of the s
Fauna G. g. 1	primigenia,	Eichw.			111 1 25
Fauna G. g. 1	subvelata,	Barr.			(Robernia) Choteer
BU.Llandov	sp. ind.,	Hall.	(NewYork)JeffersonCounty.		(Bonemia) Chotecz.
U.Llandov	",	Salter.	2. (Straparollus.)	Norbury Bogmine	
	Ophileta,	Vanuxem, 184	2. (Straparollus.)	roroury, Dogimine.	1
	CHAPTER LONG	APILLELING C.	Point Levis (Canada Bast).		
Llan	anglica.	W vatt-Edgell.	(SouthWales) Abereidy Bay.		
B., BL	asperostriate	a, Billings.	(Can.W.) Mid.Ottawa River.		
Div. P, Queb. G.	bella,	The state of the s	Point Lévis, Newfoundland,		
		,,,	Stanbridge (Canada East).		
B., BL	Circe.		(CanW.) Mid. OttawaRiver.		
Potsdam S., CS.,	compacta.	Salter.	New York, (Can. E.) Gren-		
Llan.	Maclurea.		ville, (N.W. Scotl.) Dur-		
	STORES OF STREET		ness.		
CS	complanata.	Hall.	(Canada East) Phillipsburg,		
	companion,		(New York) Mohawk Val-		
					and the same of
B., BL	Eurydica	Billings	ley &c.		
	zati juice,	Dirings.	(Canada W.) Middle Ottawa		
cs	lovata	Hall	River.		
	ac recently	Hail.	(New York) Mohawk Valley,		
Carad	magazzala	a MiCon	Phillipsburg (Canada E.).		The second secon
Div.F,CS., Queb.	Navina		(S.W. Scotland) Ayrshire.		
G.	rerina,	Dillings.	(Newfoundland) Bay of St.		
Fr	Ottomo		John.		
P Potedam	Ottawa-ensi		Middle Ottawa (CanadaW.).		
P., Potsdam	primordialis	winchell.	Wisconsin.		
Lst. 2, Queb. G.	profunda,	Billings.	Point Lévis (Canada East).		
CS		Hall.	Phillipsburg (Canada East).		
**	uniangulata,	Billings.	Point Lévis (Canada East),		The state of the s
T Tless			(Newfoundl.)Cowhead &c.		
L.Llan	sp. ind.,	Salter.	Shropshire, west of Stiper		the second second
			Stones.		TO THE
		innæus, 1758.	the state of the s	Company of the Compan	
Dlata	antiquissima	Hising.	(Ostrogotha) Borenshult	Norway.	
Pleta	constricta,	Eichw.	Réval (Raltie)		the state of the s
Corall. Lst		Münster.			Isle Oesel Fight (Baltia)
o !'	mitreola,	Elena.			
Carad	? Saturni,	Portlock.	Tirnaskea, Desertcreate (Ty-		. 11 21 21
			rone).		
Pleta	scutellum,	Eichw.	Poulkova (Russia).	Man III '	
	umbonata,				
	sp. ind.,	Salter.			Palinia Millana VIII
	and the second second			***************************************	Bolivia, MillepayaValley (
	Phasianel	la, Lamarck, 1	812		America).
Pleta, Carad	gigas,	Eichw	Kildare (Ireland)?, (Estho-		
		AMOUNT.			
			nia) Sutlep, Kirna, &c.		

Subdivision.	Genus, Speci Author		Lower Stage.	Middle Stage.	Upper Stage.
	Pilidion, Barran	nde. 1865?	Total San J. M. St.	37 w / 1343	The same of the sa
Fauna G. g. 1					(Bohem.) Lochkov &c., Tetin
Fauna G. g. 3	fastigiatum.				
	Platychisma,	M'Coy. 1	844 = Trochus,		A STATE OF THE STA
Llan., Llandov.,	helicites,	Sowerby.			Westmorel., Horeb Chapel
L., Passage beds	Trochus.			PER LINE IN THE RESERVE AND ADDRESS OF THE PER LINE IN THE PER	Kington, Herefordshire
					Llandeilo, Park Lane, &c.
				Control of the contro	Ludlow, Arisaig (Nov.
					Scotia), S.W. Scotland
			^	W W	Isle Oesel, &c.
? Red Pentam.L.					T 1 D 1 1 TEN
L	simulans,	Salter.			Lesmahago, Pentland Hill
Llandov.?, L	Williams	e			(Scotland).
Liandov. :, L	wimamsi,	Sowerby.			Llangadoc, Llandovery, Ho reb Chapel (Wales), West
				Committee and the same	moreland.
w	sp. ind	Salter			
			843 = Naticopsis, M. Coy.		(traice) craig int
Delth. Sh. Lst	arenosa.	Conrad.			(New York State, east) Cats
	1				kill.
., .,	depressa,	Hall.			(New York, east) Catskill
				The second of th	Becraft's Mountain.
CL., Niag	hemisphærica,	,,,			Isle Anticosti (G. St. Lawr.)
					(New York) Rochester
				Design the second	Grimsby (Canada West).
Niag	Niagarensis,	,,			(New York) Wolcott &c.
				THE RESERVE OF THE PERSON OF T	Grimsby (Canada West)
Dolah Ch Tot	9				Tennessee.
Delth. Sh. Lst		Course			(New York, east) Albany Co (New York, east) Catskill &c.
** **	ventricosa,	Conrad.	***************************************		Gaspé (Canada East).
L. H. G	en ind	Rogers			Pennsylvania.
CL	op. ma.,		***************************************		
022 11111111111111111111111111111111111					Arisaig (Nova Scotia).
	,, (4),				Cape Girardeau (Missouri).
Corall. L., Schoh.	"	Hall.			(New York) Schoharie Co.
	Pleurotomaria				
CS			Mingan Isles (G. St. Lawr.).		particular and a second
P., Potsdam S			Wisconsin (U. S. America).		
Pleta, Corall.Lst.	æquilatera,	Eichw.	Isle Dago, Hohenholm (Bal-	•••••••••••	Isle Oesel (Baltic).
Die H CS Ouch	Amulata	D:112	(Nonformalland W.) Table		
Div.H,CS., Queb. G.	Agarista,	Dillings.	(Newfoundland W.) Table- head.		
Tr	Agave		(Minnesota)Naquerau River.		
	ambigua,	Hall.	(New York) Jefferson County.		
"			(Minnesota)Naquerau Ri-	Control State	
			ver.	DESCRIPTION OF THE PROPERTY OF	Committee of the state of the s
B., BL., Tr., H.	Americana,	Billings.	(Anticosti) Charlton Point	person and the second	
R. G.			&c., (Can.W.)LakeHuron,		
200			Cape Smyth and St. Joseph		The state of the s
			Island, Ottawa City, Min-		
OTT			gan Isles (G. St. Lawr.).		
CH			Mingan Isles.		
Carad		Sowerby.	New Ross (Ireland), Char-		
	Murchisonia.		field Green, Gloucester-		
СН	antiqueta	II-11	shire. New York.		
Pleta	antiquata,		Réval, Wesenberg, &c. (Es-		
	miriquissima,	Literw.	thonia), Isles Dago &c.,	THE PARTY NAMED IN COLUMN TWO IS NOT THE PARTY N	
and the same of th	AND THE RESERVE OF THE PARTY OF		Poulkova &c. (Russia).		
B., Tr	aperta.	Salter	(Canada W.) Middle Ottawa		
Day III, concession			River ?.	Remarks to the	A TOTAL PROPERTY OF THE PARTY O
		Billings.	(Canada E.) Lower Ottawa		
CS	Arabella,		River.		
CS	to constant		Triver.		A STATE OF THE REAL PROPERTY.
	to constant	,,	MiddleOttawaRiver, Murray		
CS	Arachne,	,,	MiddleOttawaRiver, Murray Bay, Montreal (Can. E.).		
CS	Arachne,	,,	MiddleOttawaRiver, Murray Bay, Montreal (Can. E.). Cape Smyth, Lake Huron		
CS	Arachne, Artemis,	"	MiddleOttawaRiver,Murray Bay, Montreal (Can. E.). Cape Smyth, Lake Huron (Canada West).		
CS	Arachne, Artemis,	"	MiddleOttawaRiver, Murray Bay, Montreal (Can. E.). Cape Smyth, Lake Huron		
CS	Arachne, Artemis, articulata,	,, Sowerby.	MiddleOttawaRiver,Murray Bay, Montreal (Can. E.). Cape Smyth, Lake Huron (Canada West).		Ludlow, Ledbury.
CS	Arachne, Artemis, articulata, Axion, Winchell	Sowerby.	MiddleOttawaRiver,Murray Bay, Montreal (Can. E.). Cape Smyth, Lake Huron (Canada West).		Ludlow, Ledbury. Chicago (Illinois).
CS	Arachne, Artemis, articulata, Axion, Winchell balteata,	Sowerby. & Marcy? Phillips.	MiddleOttawaRiver,Murray Bay, Montreal (Can. E.). Cape Smyth, Lake Huron (Canada West).		Ludlow, Ledbury.
CS	Arachne, Artemis, articulata, Axion, Winchell balteata, Baltica, De	Sowerby. & Marcy? Phillips. Verneuil.	MiddleOttawaRiver,Murray Bay, Montreal (Can. E.). Cape Smyth, Lake Huron (Canada West). Réval (Baltic, Russia).		Chicago (Illinois).
CS	Arachne, Artemis, articulata, Axion, Winchell balteata, Baltica, De	Sowerby. & Marcy? Phillips. Verneuil.	MiddleOttawaRiver,Murray Bay, Montreal (Can. E.). Cape Smyth, Lake Huron (Canada West). Réval (Baltic, Russia). Lake St. John (Canada E.),		Ludlow, Ledbury. Chicago (Illinois).
CS	Arachne, Artemis, articulata, Axion, Winchell balteata, Baltica, De	Sowerby. & Marcy? Phillips. Verneuil.	MiddleOttawaRiver,Murray Bay, Montreal (Can. E.). Cape Smyth, Lake Huron (Canada West). Réval (Baltic, Russia).		Ludlow, Ledbury. Chicago (Illinois).

Subdivision.	Genus, Spe		Lower Stage.	Middle Stage.	Upper Stage.
CH Pentam. Lst		Hall. Eichw.	New York (U. S. America).	Bogoslowski (Ural)?	oblight to have
H. R. G	bilex.	D Owen	(Iowa) Turkey River		
Corall.L., Guelph		Hall	(10ma) Laracy Miron		New York (Can W) Galt
Fauna G. g. 1		Barr			(Rohemia) Tetin
r B. 1	Bussacensis,	Sharne	(Portugal) Bussaco, (Spain)	***************************************	(Donemia) Term.
	Dussaccusts,	Sharpe.	Pueblo de Don Rodrigo.		
Div.C, CS.,Queb. G.	calcifera,	Billings.	Newfoundland West, (Can. E.) Point Lévis, Beauhar-		
	Calphurnia?,	,,	nois. (Newfoundland North) Cape		
			Norman.		
CH			Montreal (Canada East).		
CS	Canadensis,	"	(Canada E.) Lower Ottawa,		
			Mingan Isles.		
Pleta	cingulata,	Eichw.	Isle Dago (Baltic), (Estho-		Bogoslowsk (North Ural)
			nia) Borkholm.		
H. R. G		Billings.	(IsleAnticosti)English Head.		
U.L	crenulata,	M'Coy.			(Westmoreland) Brigster
					Kington, Ludlow, &c.
CH	Crevieri,	Billings.	(Canada E.) St. Dominique.		
Div.3, A. G. May-	cryptata,	"		(Anticos.) Chaloupe River.	
hill.		"			
Guelph	Deiopeia.				Elora (Canada West).
Pleta, Mid. Sil	delphinuliform	s. Sandb.	Odinsholm Isle, Sutlep, &c.	Ural (Pentam, Limestone).	(
	T TOTAL TOTAL		(Baltic).		
Shales above Tr.	denaunerata.	Hall	S.W. Wisconsin, Iowa.		
CH			Montreal, l'Orignal (Can. E.).		
BL		"	(Can.W.) Mid. Ottawa River.		
		,,	(Can. 11.) Min. Ottawa Miver.		Flora (Canada West)
Juelph Div. G, H, Queb.	Etora,		(Newfoundl. W. & N.) Cape	***************************************	Elora (Canada West).
	Estio,	***	Norman, Tablehead.		
G., CS. BL	D				
DL	Eugenia,	"	N.W. of Lake Huron (Can.		
01.4		*** * * * * * * * * * * * * * * * * * *	W.), Montreal (Can. E.).		
Pleta	exilis,	Eichwald	Isle Dago, Pyhalep, (Estho-		
		The 1991	nia) Laisholm.	se 1 2 1 (2) 11	
U.Llandov		Phillips.		Malvern, Norbury (Engl.).	
Guelph		Billings.			Galt Township (CanadaW
Carad		Salter.	Chair of Kildare (Ireland).		
Pleta, Mid. Sil	globosa,	Eichwald.	Isle Dago, Hohenholm, Kirna	Talkhof (Livonia).	the last report to the last report to
			(Esthonia).		and the same of th
Niag	gonopleura, Wi	inch. & Mar.		***************************************	Chicago (Illinois, U. Stat
		1.5			America).
CS	gregaria,	Billings.	Mingan Isles (G. St. Lawr.),		THE PERSON NAMED IN COLUMN 1
			Lower Ottawa River.		and the second second
Niag	Halei,	Hall.	(Newfoundland North) Cape		(Wisconsin) Racine.
Div. G, CS., Queb.	Harpya,	Billings.	(Newfoundland North) Cape		
G.			Norman.		and the state of t
H. R. G	Hebe,	,,	Cape Smyth, Lake Huron.	(1) 36 (1)	
11	Helena,	"	(Canada) Cape Smyth, Lake		
1900	Constant Con	.,	Huron, (Anticosti) Charl-		
	1		ton Point, Tablehead (New-	all the	
	and the same of th		foundland?).		
Div. H, Queb.G.,	Hortensia.	,,	(Newfoundl. W.) Tablehead.		
CS.		"			A STATE OF THE STA
Niag	Hovi.	Hall			(Wisconsin) Racine.
Niag., Guelph	Huronensis				
Div. F, CS., Queb.		mings.	(Newfoundland West) Kep-		Corpo 21ai
G.	V	11	pel Isle &c.		
Niag	Ida.	Hall	per asie de.		(Wisconsin) Racine
CH		Billings	(Canada East) Montreal.		The state of the s
Tr	The state of the s		(New York) Watertown.		
Llandov			(New York) Watertown.	Cong. Galway (Ireland)	The state of the s
D.0.1007	Murchisonia			Cong, Carring (Arciana).	
Pleta			Isle Dago, Pyhalep, Hohen-		The state of the s
L 10404	maignis,	Edenw.			
	inqueta	Q-14-	holm (Baltic).		Manager and the second
II I land-	insueta,	Salter.	West Tasmania,	Norbury Shuanahina Dani	
U.Llandov	Jugosa,	satter (MS.).			
D 141 01 T . T	1.1	77. 11	The same of the same of the same of	teign, &c.	(N - V - 1) 411 - 0
Delth.Sh. Lst., U.	labrosa,	Hall.			(New York) Albany Coun
Pentam. Lst.	1 110			British and the state of the st	
Carad			Tirnaskea (Ireland), (S.W.	The Park of the Pa	
	Trochonema		Scotland) Stinchar River.	Mark the second second	The second secon
Div.G, CS., Queb.	Laurentina,	Billings.	Newfoundland, Mingan Isles,		
G.			(G. St. Lawrence), North		
			Wisconsin.		

Subdivision.	Genus, Species, and Author.	Lower Stage.	Middle Stage.	Upper Stage.
Tr	lenticularis, Ha	ll. (N. York) Watertown, (Can. W.) Belleville, Missouri, (California) Hot Creek, Nevada, (Iowa) Dubuque &c., (Illin.) Scale's Mound, N.W. Michigan, Red River of the North (Rupert's Land), Minnesota State, Lake St. John (Canada E.), Anticosti.		
Carad., U.L	" Sowerl	ov. (Montgomeryshire) Meifod.		Leintwardine (Shropshire).
M.Sa Shales above Tr.	micula, ", Raphistoma.		(New York) Lockport.	
	mimetica, Salt	er. West Tasmania.	A CONTRACTOR OF THE PARTY OF TH	
CS		gs. Mingan Isles (G. St. Lawr.).		
Queb. G L.Llandov		Phillipsburg (Canada East). er. (S.W. Scotl.) Stinchar River.		
CS		en. Cincinnati (Ohio), Red River of the North (Minnesota),		
BL, Tr BL	Niete	L.Winnipeg (Rupert's L.). Wisconsin (U. S. America).	The second	authoris
B., BL., Tr	nodulosa	(N. York) Jefferson County.		
Div. G, Queb. G.,	Normani, Billin	gs. Newfoundland North (Cape		
CS. Pleta	notabilis, Eich	w. (Esthonia) Sutlep, Poulkova, Ropscha, &c. (Russia).		
В		ll. (NewYork)JeffersonCounty, Pennsylvania.		
Div.G, CS.,Queb. G.		gs. Newfoundland North (Cape Norman).	The state of the s	(P-1 :-) V :-
Fauna G. g. 2		rr. ill. (N. York) Jefferson County.	***************************************	(Bohemia) Vavrovitz.
B		gs. (Can. E.) Grenville, Lower Ottawa River, Kingston		political in the second
Tr Onon. S. G., L.	percarinata, Ha	(Can. W.). (New York) Middleville.		New York. (Canada Wes
H. G.				Galt.
M. Sa	? pervetusta,	rr	(N. York) Medina Village.	(Bahamia) Chataas
Fauna G. g. 2 Pleta	pigra, Da plicifera Eich	w. I. Dago, Hohenholm (Baltic)		(Bonemia) Chotecz.
Lst. 2, Queb. G. Queb.G., BL., Tr.	Postumia, Billin	gs. (Can.) Pt. Lévis, Philipsburg (Anticosti) English Head (Canada E. & W.) Mon- treal, Ottawa City, Belle-		
Llandov	Murchisoni.	ville, Trenton (N. York). Wales.		
B	quadricarinata, Ha	all. (New York) Watertown.	Committee and Co	26.1 (72.1.1)
L. Lst. 2, Queb.G	Quadristriata, Philli	ps. Point Lévis (Canada East).		Malvern (England).
CS		(Canada E.) Lower Ottawa River, Mingan Isles (G		
BL., Tr	rotuloides, Ha	St. Lawrence). Montreal, Chateau Gaye, (N York) Middleville, Ten		
Tr	var., Billin	gs. Lake Winnipeg &c., Rupert's Land (North America).	s .	
Queb. G Divs. H, I, K, L,		Point Lévis (Canada East). (Newfoundland) Tablehead		her in the second
CS., Queb. G. Shales above Tr. Div. 1, Antic. G.	sibyllina, Billin	all. Wisconsin.	Anticosti, Junction Cliff.	
Niag	sigaretoides, Winch, & M	ar. ww. Réval, Isles Dago and Odins	- Talkhof (Livonia).	Chicago (Illinois).
Lst. Niag., Onond. S.	solaroides, Ha	holm, Wesenberg (Estho.)		(Can. W.) Galt Townshi
G., Guelph. Div. N, Queb. G.	sponsa, Billin	gs. (Newfoundl. W.) Tablehead		New York, Illinois, Iow
Tr		on. (Can. W.) Palladeau Island LakeHuron,(Can.E.)Mon treal, Bays St. Paul and Murray.		

Subdivision.	Genus, Spec Author		Lower Stage.	Middle Stage.	Upper Stage.
L.L	striatissima,	Salter.			Ledbury (England), (Wales
BL., Tr	subconica,	Hall.	(Can. W.) Middle Ottawa River, (New York) Turin, Camp d'Ours, LakeHuron, (Minnesota) Fort Snelling, Watertown, Tennessee, N.W. Michigan, Anticosti (English Head &c.).		Usk.
Corall.Lst.,Scho-	subdepressa,	.,,			(N. York) Schoharie Count
harie. Carad		Portlock.	Tyrone (Ireland).	purally deposit	
Fr	Murchisonia. subtilistriatus,	Hall.	(NewYork)Watertown, Mis-		
"	supracingulata,	Billings.	souri. Lake Huron, N.W. Marmora (Can. W.), Lake St. John, (Canada East).		
	tenuis,	,,	Cape Smyth, Lake Huron.	A THE STREET	
Div. 1	Thalia,	,,	(N. Scotl.) Durness, Suther-	Anticosti I., JunctionCliff.	
Llan			landshire.		
Carad	and the same of the same of	Portlock.	(Ireland) Tyrone, Desert- create, &c.		
w	. ,,	M'Coy.			Ferriter's Cove, Kerry Co
	turbinata,	Salter.	Niti, Himalaya (Chorhoti	The state of the s	Pomeroy, Tyrone,
cs	turgida,	Hall.	Pass). (NewYork) SaratogaCounty,		
Corall. Lst	turricula,	Eichw.	Pennsylvania.		Isle Oesel (Baltic), Loho
B., Carad	The second secon	Portlock.	Tyrone County, Llyn, Ogwen, Cyrn-y-Brain (N. Wales),		Randifer.
D		77.11	&c. Anticosti, Lake St. John (Can.		
B., Tr	umonicata,	Haii.	E.), (Can.W.)Mid.Ottawa, New York, Pennsylvania, Tennessee, Missouri, Falls of St. Anthony (Minne-		
Pleta, L.L	undata,	Sowerby.	sota) N.W. Michigan. Réval (Esthonia)		Dudley, Leintward., Shro shire, Presteign (Wales
Queb. G Guelph		Billings.	Point Lévis (Canada East).	Marchaelle .	
Pentam. Lst. ?	ventricosa,	Eichw.		(Ural) Nijeny-Taghilsk.	
Guelph Divs. H, I, K, L,		Billings.	(Newfoundl, W.) Tablehead.		Galt (Canada West).
Queb. G., CS.	virguncula,				Angel on colonia
BL	Vitruvia,		(Can.W.) Mid.Ottawa River.		
Tr	sp. ind. (3), D.	Dawson.	Upper Mississippi River.		Nictaux (Nova Scotia),
Onon. S. G		Hall		(Carry)	Arisaig G. New York, Galt(CanadaW
P		Billings.	Point Lévis (Canada East).		
B	,,	,,	New York.		
Ut. Sl., H. R. G.	"	Salter.	(New York) Pulaski. South-west Scotland.		
т.,	,,		Lancashire, Coniston.		Sant Florence House
Tr	"	Billings.	Missouri (U. S. America).		(N. New Brunswick) Res
CS	" (2),	Bonissent.	Missouri. La Manche (France).		gouche.
?	Porcellia I			Victoria (Australia).	Manual Manual Control
Red Pentam. Lst.	Alpheus,	Hall.	·······		Chicago (Illinois).
9	ornata, D	. D. Owen.	Upper Mississippi River.	North Ural (Russia).	phase of the same
Niag.	senex. Winchel	ll & Marcy.			Chicago (Illinois).
TREMANOTUS.	Raphistoma,	Hall, 1847	; Scalites, pars, Conrad, E (S.W. Scotl.)Girvan, (Wales) Llanfyllin &c., (England) Shropshire.	theridge.	

BL	Euomphalus? terna, Salter perta, Billings liptica, Portlock modi, Salter thiata?, Emmons spicida, Salter	Norway, Sweden. West Tasmania. (Can.W.)Mid. Ottawa River. (Irel.) Desertcreate, (Wales) Yr. Arddu. Niti, Himalaya (Chorh. Pass). New York, North Scotland. (Can.W.)Mid. Ottawa River.	Name of the last o	
BL aet ap Carad., Llandov. eli L. Llan. lal BL lal L. & U. Llandov., ler Carad.	Euomphalus? terna, Salter perta, Billings liptica, Portlock modi, Salter thiata?, Emmons spicida, Salter	West Tasmania. (Can.W.)Mid. Ottawa River. (Irel.) Desertcreate, (Wales) Yr. Arddu. Niti,Himalaya(Chorh.Pass). New York, North Scotland. (Can.W.)Mid. Ottawa River.	Name of the last o	
BL aet ap Carad., Llandov. eli L. Llan. lal BL lal L. & U. Llandov., len Carad.	terna, Salter perta, Billings liptica, Portlock modi, Salter thiata?, Emmons apicida, Salter	. (Can.W.)Mid. Ottawa River. (Irel.) Desertcreate, (Wales) Yr. Arddu. Niti,Himalaya(Chorh.Pass). New York, North Scotland. (Can.W.)Mid. Ottawa River.	Name of the last o	
Carad., Llandov. ell L.Llan. lal BLla L. & U.Llandov., ler Carad.	liptica, Portlock modi, Salter biata?, Emmons picida, Salter	(Irel.) Desertcreate, (Wales) Yr. Arddu. Niti, Himalaya (Chorh. Pass). New York, North Scotland. (Can. W.) Mid. Ottawa River.	Name of the last o	
L.Llan. Elal BL. lal L	emodi, Salter ebiata?, Emmons epicida, Salter	Yr. Arddu. Niti, Himalaya (Chorh. Pass). New York, North Scotland. (Can. W.) Mid. Ottawa River.	Name of the last o	
L.Llan. lal BL. lal L.& U.Llandov., let Carad.	biata?, Emmons picida, Salter	Niti, Himalaya (Chorh. Pass). New York, North Scotland. (Can. W.) Mid. Ottawa River.		
L.Llan. lal BL. lal L. & U.Llandov., let Carad.	biata?, Emmons picida, Salter	New York, North Scotland. (Can.W.)Mid. Ottawa River.		
L. & U.Llandov., Carad.	picida, Salter	. (Can. W.) Mid. Ottawa River.		
L. & U. Llandov., ler Carad.	nticularis, Sowerby			
Carad.	,		(Gloucestersh.)Tortworth,	
		N. York, Wisconsin.	Radnorshire, Norbury,	
CH pla			Marloes Bay, &c.	
	lanistria, Hall	New York.		
Carad	var. parva, ,,	" (Irel.) Tirnaskea.		
Pletaqu	ualteriata, Schloth	Sweden, Norway, (Russia)		
		Poulkova &c., Silesia, (Es-		
		thonia) Baltischport &c., Belleisle Straits, Labrador.		
CH., Tr sta	aminea Hall	(N. York, north-east) Clin-		
	æqualis?	ton County, Pennsylvania,		
		(Wiscons.) Escanaba River,		
		N.W. Michigan, (Canada		
		W.) Middle Ottawa River.		
CH., Tr str	riata, "	(New York) Clinton County,		
0 1		Pennsylvania,		
Carad str	riatula,	Penwhapple Burn, Girvan		
sn	o. ind. (2), Logan.	(S.W. Scotland). (Canada W.) Middle Ottawa		
°P	. ma. (2), Logan	River, (Can.E.) Montreal.		
L.Llan	Salter.	(N.W. Scotland) Durness.		
	"	Caernaryonshire, Bettws-y-		
		Coed, Shelve.		
_		Texas (U. States America).		
R	totella, Lamarck, 1822.			
Fauna G. g. 2, 3 tar	rda, Barr.		***************************************	(Bob.) Trzebotov, Vavrovitz
	calites, Conrad, 1843.	(New York) Clinton County.		
CS., CHan	nstralis Salter	Tasmania West.		
Carad. len		Shropshire, Church Preen &c.		
	Pleurotomaria.			
	inor, Billings.	Lake St. John (Canada E.).		
	traparollina, Billings,	1865.		
Divs. G, H, CS., pel	elagica, Billings.	(Newfoundland N.) Pistolet	- 9	
Queb. G.	Transporting Montfort	Bay and its Cape, Norman.		
R RL set	traparoflus, Montfort.	(Canada East) Montreal.		
Tr. Cir	rce, ,,	" "		
Guelph Da			·····	Galt (Canada West).
Tr Eu		(Canada East) Montreal.		
Guelph Hi	ippolyta, ,,			Galt (Canada West).
	vata, D. D. Owen.	Missouri.		
	innesotensis, "	(Minnesota) Sioux Crossing.		
Ut. Slate sp.	trophostylus, Hall, 18	Elkader, Turkey River, Iowa.		
Delth. Sh. Lst de	pressus. Hall	00.		(N. York, east) Beeraft's Mr.
	egans, ,,			" Decide Shi
U.Pentam. Lst Fit				(N. York) Schoharie County.
Delth. Sh. Lst glo	obosus, ,,			(New York, east) Catskill &c.
U.Pentam. Lst ob				" Becraft's
	1 1 1			Mountain.
,, ,, ?r	rotundatus, ,,	(Paramanana Partical)		(N.York, east) Schoharie Co.
		(Polyphemopsis, Portlock.) Wesenberg (Esthonia).		
	evis, Winchell & Marcy.			Chicago (Illinois).
CS. cal		Mingan Isles (G. St. Lawr.).		omeago (Innois).
Tr., H. R. G., elo		(Esthonia) Kirna, (Can. E.)		
Pleta, Llandov.,		Lake St. John, (Can. W.)		
Div. 1, A. G.		Mid. Ottawa River, Snake		
		Island, Lake Huron, New		
		York, Tennessee, Missouri,		
		(Iowa)Dubuque &c., N.W.		
		Michigan, (Wisconsin) Mineral Point.		
Pletagig	gas. Eichw	(Esthonia) Sutlep, I. Dago,		
21000	540,	Hohenholm, Lower Sile-		
		sia (drift).		

Subdivision.	Genus, Spec		Lower Stage.	Middle Stage.	Upper Stage.
Pleta Div.1,A.G.,Llan- dov.			Wesenberg (Esthonia).	(Anticosti) Junction Cliff.	
BLPleta		Eichw.	(Can.W.)Mid. Ottawa River. Poulkova(Russia), (Esthon.)		
Queb. G H. R. G		Billings.	Réval, Odinsholm Isle. Quebec (Canada E.) (drift). Isle Anticosti, Charlton Point		
Tr	subfusiformis,	Hall.	(G. St. Lawrence). Montreal (Canada East).		N. W. ale Chi. (This) G
Guelph,Niag.,&c.	sp. ind.,	Portlock.	Tyrone.		Township, Iowa (Can. W.
Tr		, Salter, 18	59,=EUOMPHALUS (partim) Tasmania West.	Auctorum, J.W.S.	Dudley (England).
Carad	cincta,	Portlock?	(Ireland) Chair of Kildare. Niti Pass, Himalaya (E. I.).		
Carad	latifasciata, lyrata, Euomphalus.	M'Coy.	(Irel.) Tyrone, Desertcreate. (Wales) Llansantfraid &c., Denbighshire.		
CS	tricarinata,	Billings.	Isle St. Geneviève, Mingan		
Llandov Carad., W		M'Coy.	Wrexham (Denbighshire)		Golden Grove, Llandeil (Wales).
L. & U.Llandov.		. "	Mid.Ottawa R. (CanadaW.).	(Wales) Penlan.	(wates).
BL	umbilicata,	Hall.	(Anticosti) English Head, (Can. E.) Montreal, L. St. John, (Can. W.) Camp d'Ours, L. Huron, Wiscon- sin, Lake Winnipeg, &c.,		
Carad	Trochus, Lin	næus, 1758.	Rupert's Land. Llangollen (Denbighshire).		
Llandov	? cælatulus, ellipticus.	M'Coy. Hising.	(Dalecarlia) Furundal.	Radnorshire (Wales).	
U.L	helicites, Platychisma.	Sowerby.	Ireland,	A STATE OF THE PARTY OF THE PAR	Golden Grove, Westmore
Llandov	? Moorei, multitorquatus,			Ardaun &c., Galway, Mar-	A SECTION AND A SECTION AND ASSESSMENT OF THE PARTY OF TH
Faunæ E, G. g. 1	sp. ind	Lindström.		loco Day (Walco).	(Bohemia) Listice, Tetin. Gothland.
	Turbo, Linna bicarinatus,	Hising.	CYCLONEMA, Hall, 1852. Norway, (Ostrogotha) Bo- renshult, (Dalecarlia) Vi- karby.		
Pleta Corall. Lst W.	borealis,	Eichw.	I.Dago, Hohenholm (Baltic).		Bogoslowsk (North Ural). (England) Wenlock.
***	corallii, Murchisonia.	"			(S. Gothl.)Grotlingbo, (England) Ludlow &c., (Wale
Carad	crebristria,	M'Coy.	(Wales) Gelli Grin, Bala, Mandinam,&c.,(England) Horderley.		Radnorsh.,(Norw.)Malm
CS Carad	euomphaloides,	Portlock.	(N. York) Herkimer Co. &c. Chair of Kildare (Ireland).		
Pleta CS	? obscurus,	Hall.	Réval (Esthonia), Poulkova (Russia), Dago Isle. (New York) Fort Plain.		
Fauna G. g. 1	primigenius, spoliatus,	Eichw. Barr.			Bogoslowsk (Ural). (Bohemia) Tetin.
Pleta		Hising.	Poulkova (Russia)		Gothland. Norway, (Gothland) Mour Klinteberg.
Niag Llandov		M'Coy.		Galway (Ireland).	Tennessee (U. S. America)
U.Llandov., W	? tritorquatus,	,,		Cong, Galway, Pen-y-lan, Llandovery.	Bogmine, Shelve (Shropsh.
?	sp. ind.,	Rouault. Stutchbury.	Vitré, Rennes (France). Berrigal (New South Wales).	fulfold.	

Subdivision.	Genus, Species, and Author.	Lower Stage.	Middle Stage.	Upper Stage.
Delth. Sh. Lst		(S.W. Scotland) Mulock.		Missouri(U, States America).
CS	Turritella, Lamarck, 180	Missouri.		(Bohemia) Tetin.
Carad	cancellata, Salter?.	Bogmines, Mandinam, &c., Pyrton Passage.		(N. Gothland) Grotlingbo.
U.L	obsoleta, Sowerby.			Westmoreland.

Turbo.

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Stage.	Genus, Species, and Author.	Locality.	Stage.	Genus, Species Author.	, and	Locality.
	Bellerophon?, Mo	nt fort.	E. e. 2	constrictus.	Barr.	Dvoretz.
	Calyptræa, Bar		"	cristatus,		Lodenitz, Luzetz.
E. e. 2	Lvelli. Bar	r. St. Ivan, Dlauha Hora.	",	decorus,		Kozorz.
	Capulus, Montfo	t. Acroculia &c.	D. d. 5			Mount Kosov.
E. e. 2	ampliatus, Ba	r. Dvoretz.	E. e. 2			St. Ivan, Listice.
	and district	Lockhov, Viscocilka.	D. d. 5			Königshof, Leiskov,
F. ř. 2	anguis, "		The Particular States of the States	incola,		Leiskov.
C ~ 1	apridens, ,,	Konieprus, Mnienian.	D "1 1			
	bellulus, ,,	Chotecz.	D. d. 1	nitidus,	.,,	Vosek.
E. e. 2	bipartitus, "	Bubovitz, Lodenitz.	E. e. 1, 2	piebeius,		Dlauha Hora.
D. d. 2	catilloides, ,,	Mount Drabow.	D. d. 1			Vosek.
E. e. 2	comes, ,,	Lockhov, Karlstein.	D. d. 4			Trubsko.
" "	compressus, ,,	Dlauha Hora.	E. e. 2			Butovitz, Dlauha Hor
	conoides, ,,	Konieprus, Mnienian.	G. g. 1	solitarius,		Tetin.
	corticosus, "	Butovitz.	D. d. 5	suspectus,		Mount Kosov.
E. e. 2	directus, ,,	Hinter-Kopanina.	E. e. 2	tardus,		Bubovitz, Lodenitz.
19	dorsatus, ,,	Dvoretz.	D. d. 2			Mount Drabow.
	elegans, ,,	,, Karlstein.		Delphinula?,	Lamar	ck.
F. f. 2	emarginatus, "	Konieprus.	E. e. 2	aster,	Barr.	Dlauha Hora.
D. a. 2	extenuatus, "	Mount Drabow.	F. f. 2	biplex,	,,	Konieprus.
E. e. 2	fecundus,	Bubovitz, Sedletz.	E. e. 2			Dlauha Hora.
E. e. 2, F. f. 2	gibbosus, ,,	Dvoretz, Konieprus.	E. e. 1	expandens,		Butovitz.
D. d. 2		Mt. Drabow, Trubsko.		percincta,		Dlauha Hora.
E. e. 2	interruptus, ,,	Tachlovitz.		protendens,		Konieprus.
E. e. 1		Butovitz.	,,	simplex,	"	
	and the same of th	Borek.	,,	Ecculiompha	lus P	ortlock
F. f. 2		Konieprus, Mnienian.	E. e. 2	Bohemions	Barr	Gros-Kuchel.
F 0 9	Investigation of the second	Listice.		subuloides,	Dair.	Dlauha Hora.
	1.212	Dvoretz.	**	Euomphalus,	Samon	L.
,,	nobilis, ,,		E . 0	Euomphaius,		
n "1 1	ædematosus, ,,	,, Karlstein.	E e. 2			Dlauha Hora.
D. d. 1		Vosek.	**	apponens,	39	" " Lockho
E. e. 2		St. Ivan.	"	bifrons,	31	" " **
,,	præposterus, "	Slivenitz, Zmrzlik.	- " -	Bohemicus,	"	" " Lockho
. ".	primordialis, "	Dvoretz.		coluber,	33	Konieprus.
D. d. 5		Leiskov.	D. d. 1	comes,	,,,	Vosek.
	pustulatus, "	Mount Drabow.	E. e. 2	confertus,	22	Dvoretz.
E. e. 2	pyramidalis, "	Dvoretz.	"	debilis,	19	Dlauha Hora.
11	regens, ,,	. "	***	docens,	"	yy yy
,,	rigidus, "	Karlstein.	,,	dulcis,	**	Bubovitz, Lodenitz.
,,	robustus, ,,	Lockhov, Viscocilka.		eximius,	,,	Konieprus.
E. e. 2, F. f. 2	rostratus, ,,	St. Ivan, Konieprus,	E. e. 2	filiformis,		Kozel &c.
		Mnienian.	D. d. 5	inchoans,	,,	Königshof.
E. e. 2	subcarinatus, ,,	Dvoretz,	E. e. 2		,,	Bubovitz, Lodenitz.
	surgens	Karlstein.	,,	placidus,	"	Dlauha Hora.
E. e. 2	tænia, "	Kolednik, Lockhov.		plicatulus.	"	Bubovitz, Lodenitz.
"	togatus, "	Dvoretz.	D. d. 1	primus,	"	Vosek.
,,	transiens, ,,		E. e. 2	pulcher.	"	Dvoretz.
	tranhaides	", Lockhov.		robustus,		Vozowa
"	umbraculum, ,,		F. f. 2	selectus,	"	Konieprus.
"	Cirrus?, Sower	· · · · · · · · · · · · · · · · · · ·	E. e. 2	similans,	"	Lodenitz, Luzetz.
E. e. 2	Bohemicus,	Dvoretz.		tegulatus	,,,	Dlauha Hora.
G. g. 1, 2		Chotecz, Vavrovitz.	D. d. 5	tiro,	,,	Leiskov.
	contextus,	Novy Mlyn.	77 0	tremulans,	"	Kozorz.
	disjunctus,	Lockhov.	77 0 0	tubiger,	22.	Konieprus.
"	expandens,			0 .	"	Kozorz.
***		Dlauha Hora.	E. e. 2	verna,	onnand	
19	Karlsteinensis,	Karlstein.	12 . 0	Gyrotrema, B		
"	servus,	Dvoretz.	E. e. 2		Barr.	Dlauha Hora.
n 1 .	Cyrtolites?, Vanu			fortis,	**	Konieprus.
D. d. 1		rr. Mount Drabow.		nobilis,	"	Dlauha Hora.
G. g. 1				polygona,	"	Konieprus.
D. d. 1, 4		Vosek, Zahorzan.		tuboides,		Butovitz, Lodenitz.
F. f. 2	Bohemicus, ,	Konieprus.		Loxonema, P		
T . Y					Barr.	

Sta	ge.	Genus, Species, Author.	and	Locality.	Sta	ge.	Genus, Specie Author.		Locality.
E. e. 2		Beraunensis,	,,	Dlauha Hora.	F. f. 2		senilis,	Barr.	Konieprus,
F. f. 2, 6	3. g. 1	Devonicans,	"	Konieprus.	D. d. 4		spoliata,	,,	Lodenitz,
			79	Listice, Bubovitz.	E. e. 2		texta,	"	" Bubovitz.
D. d. 5		parvula,	**	Leiskov.	D. d. 2		tranquilla,	"	Kozel.
E. e. 2		rudis,	,,	Luzetz, Lodenitz.			Ribeiria, Sha	rpe.	
,,		ungulata,		Viskocilka.	D. d. 1,	4	pholadiformis,	Sharpe.	Vozek, Zahorzan.
		Murchisonia,	Verne	uil.	D. d. 3	*********	Sharpei,	Barr.	Vinice,
E. e. 2		allevata,	Barr.	Dlauha Hora.			Rotella, Lame		
F. f. 2			"	Konieprus.	F. f. 2		albicans,	Barr.	Konieprus.
E. e. 2		cuneus,	,,	Karlstein.			nigricans,	39	Bubovitz, Lodenitz.
"		Cybele,	12	Lockhov.	F. f. 2		nummularia,	"	Konieprus.
**		filosa,	,,,	Listice.	G. g. 2,	3	tarda,	"	Trzebotov, Varvovitz
33		fugitiva,	**	Karlstein.	E. e 2, 1	f. I. I	vulgaris,	7)	Lockhov, DlauhaHor
F. f. 2		gracillima, invertens,	"	Viscocilka. Mnienian.	F. f. 2		Scoliostoma,	Bronn.	Vanianana
	D 6 9	Latona,	**	DlauhaHora,Konieprus	F. I. 2		Siphonaria,	Darr.	Konieprus.
		Minerva,	"	Mnienian.	F. f. 2		inchoata,		Konieprus.
		obscura,	"	Vavrovitz.	F. 1. 2		Stomatella, L		
G. g. 1			"	Chotecz.	E. e. 1		Bohemica,		Bubovitz.
E. e. 1			"	Butovitz.	A. C. I		Subulites,	Conrad.	
E. e. 2		terebrans,	"	Lockhov.			Bohemicus,		Bubovitz, Lodenitz.
D. d. 5			"	Leiskov.	E. e. 2		inexpectatus,	,,	" "
		Verneuili,	"	Konieprus.			Trochus?, Li		" "
1000		Natica, Lamare.	k.		E. e. 2		accedens,		Kozorz.
F. f. 2		evoluta,	Barr.	Konieprus.	,,		amicus,	,,	Bubovitz, Lodenitz.
		gregaria,	,,	Lockhov, Konieprus.			aspersus,	"	Kozorz.
G. g. 1		minuta,	"	Chotecz.	F. f. 2		comes,	,,	Konieprus.
F. f. 2		modesta,	,,	Konieprus,	E. e. 2		dominus,	**	Dlauha Hora.
"		ovoides,	"	n. '".	F. f. 2		excavatus,	"	Konieprus.
E. e. 2		plebeia,	22	Bubovitz.	E. e. 2		frater,	33	T " T 11
**		plicatula,	,,	Hinter-Kopanina.	**		mixtus,	,,	Kozorz, Lochkov.
n" -		rustica,	33	,, Dvoretz.	D"3 "		normalis,	"	Karlstein,
		scrobiculosa, subvelata,	19	Königshof. Chotecz.			occultus.	"	Leiskov. Zahorzan.
G. g. 1 E. e. 1		tumescens,	"	Kozorz,	D. d. 4			"	Listice, Tetin.
E. C. 1		Naticella, Mün	ster	Rozorz.	E. 6. 2,	a. g. 1	patulus,	"	Konieprus.
E. e. 2		matercula,	Barr.	Bubovitz, Lodenitz.	E. e. 1		rugulosus,	"	Butovitz.
"		naticoides,	,,	Dvoretz, Hinter-Kopa-	E. e. 1,	2	viator,	,,	
"			"	nina,			Tubina, Barr	ande, 18	68.
D. d. 5		primula,	39	Leiskov.	E. e. 2		aperta,		Hinter-Kopanina.
E. e. 1,	2	tubicina,	,,	Bubovitz, Tachlovitz.	F. f. 2		armata,	"	Konieprus.
E. e. 2		ventricosa,	,,	Lodenitz, Sedletz.	E. e. 2		elongata,	,,	Dvoretz.
		Patella, Linnæu			F. f. 2		hystrix,	,,	Konieprus.
F. f. 2		humilis,	Barr.	Konieprus.	E. e. 1,	2	patula,	33	Butovitz, DlauhaHor
		modesta,	"	Leiskov.	D. d. 5		primula,	"	Königshof.
E. e. 2			,"	Kozorz.	E. e. 2		socialis, spinosa,	"	Dlauha Hora.
T . 1 . 0	0 - 1	Pilidion, Barra Bohemicum,	nae.	Lashbar Tatin	F. f. 2		Turbo?, Linn		Konieprus.
		fastigiatum,			E. e. 2		ananas,	Rave	Hinter-Kopanina,
G. g. 3 F. f. 1		nobile	,,	Lockhov.			cognatus,		Bubovitz, Lodenitz.
E. e. 2		radians,	317	DOCKHOY.	F. f. 2		comitans,	"	Konieprus.
		Porcellia, Levei	llé."	"	E. e. 2		complexus,	"	Dlauha Hora.
F. f. 2		Bohemica,	Barr	Konieprus.	The state of the s		dives,	,,	
E. e. 2		consobrina,	11	Kolednik.	F. f. 2		dubius,	,,	Konieprus.
"	THE PERSON NAMED IN	filiformis,	"	Dlauha Hora.	E. e. 2		fraternus,	"	Bubovitz, Lodenitz.
33		turgescens,	,,	,, ,,	,,		hospitalis,	,,,	Lockhov.
		Pleurotomaria	, Defr	ance.			infidelis,	,,	Bubovitz, Lodenitz.
E. e. 2		ambigena,	Barr.	Lockhov.	F. f. 2		lætus,	,,,	Konieprus.
F. f. 2		amica,	33	Kozel.	. "		laudabilis,	"	Mnienian.
		aperiens,	"	Konieprus.	E. e. 2		magister,	,,	Dlauha Hora.
E. e. 2		Bohemica,	"	Bubovitz, Lodenitz.	,,		pauper,	"	Bubovitz, Lodenitz.
E. e. 1		carinata, concurrens,	"	Bubowitz.	0"1		peregrinus, spoliatus,	79	Dlauha Hora. Tetin.
D. d. 5 E. e. 2		concurrens, confusa,		Königshof, Kozolup,	G. g. 1 D. d. 3		sulphurifer,	"	Trubin.
F. f. 2		confusa, consimilis,	"	Konieprus.	E. e. 2		timidus,	"	Bubovitz, Lodenitz.
E. e. 2		consolans,	27	Tachlovitz,	15. 0. 2		trepidans,	"	Karlstein.
F. f. 2		Daphne,	29	Konieprus.	D. d. 3		tricinctus,		Leiskov.
D. d. 1		desiderata, .	"	Vosek.	2. 0. 0		Turritella, L	amarck.	
F. f. 1		humilis,	"	Konieprus.	G. g. 1		benevola,	Barr.	
F. f. 2		illudens,	"		F. f. 2		contraria,	33	Konieprus.
D. d. 5		infausta,	"	Königshof.			domestica,	"	
22		læta,	"	,,	E. e. 2		mater,	"	Kozorz,
,,		longior,	**	Butowitz.	**		perlonga,	. ,,	nı "ı
E. e. 2	Contract Con	migrans,		Dvoretz, Lockhov.	33		potens,	"	Dlauha Hora, Lockho
n "		minuscula,	,,,	Bubovitz, Lodenitz.	n "		soror,	"	Kozorz.
F. f. 2		occludens,	"	Konieprus.	F. f. 2		verticalis,	17	Konieprus.
"		pollens,	"	,,	72.00		Vermetus?,		
		procera,	23	Lockhov.	F. f. 2		longissimus, pulcher.	Darr.	Mnienian.
E. e. 2		rugulosa	**		**				11

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	Number of Countries inhabited.	
	Number of Species.	
	Grand Total of Appearances.	80001000000000000000000000000000000000
	Total Appearances (Europe &c.).	下2 : 10-101-10 : : 20-40至10202020202020202020202020202020202020
	South Australia.	
	North India.	; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;
	Norway.	
	Sweden.	
	Russia.	4
	Baltic Russia.	
&c.	Silesia.	
	Franconia.	
P	Thuringia.	8
EUROPE		
15	Bohemia.	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
1	Sardinia.	
	Spain.	·
1	France.	- · · · · · · · · · · · · · · · · · · ·
	Wales.	L : : : : : : : : : : : : : : : : : : :
1	England.	9
	Scotland.	01 1 1 1 1 1 1 1 1 1
	Ireland.	H : : : : : : : : : : : : : : : : : : :
	(America).	
- Indiana	Total Appearances	56 : 1 : 1 : 1 : 1 : 2 : 2 : 2 : 2 : 2 : 2
-	California.	
	Newfoundland.	
5	Mingan Isles.	
	Anticosti.	
	Nova Scotia.	
-	New Brunswick.	
	Vermont.	[] [] [] [] [] [] [] [] [] []
	Canada East.	1 : : : : : : : : : : : : : : : : : : :
	Canada West.	001
	New York.	# 18 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
14	Pennsylvania.	
AMERICA	Virginia.	
18	Texas.	
18	Kentucky.	
A	Tennessee.	H 1 H 1 H 1 H 1 H 1 H 1 H 1 H 1 H 1 H 1
	Obio.	: in : : : : : : : : : : : : : : : : : :
	Illinois.	
	.imossiM	
	LewoI	
	Wisconsin.	
	Minnesota.	1 : : : : : : : : : : : : : : : : : : :
	N.W. Michigan.	
	Prince Rupert's Land.	-:::::::::::::::::::::::::::::::::::::
	Arctic America.	
	Bolivia.	
	Genera.	Acroculia Calyptræa Carmaropsis Carmaropsis Carintum Chiton Cirus Cirus Cirodora Cirus Cirodora Cirus Cirodora Cirus Cirodora Cirus Cirodora Cirus Cirodora Cirus Cirus Cirodora Cirus Cirodora Cirus
4	0	training photo octor of the state of the sta
		Acroculia . Carinaropsi Carinaropsi Carinaropsi Carinaropsi Carinaropsi Carinaropsi Carinaropsi Carinaropsi Carinaropsi Carinara Chitom Circus Cioderra Cioderra Cioderra Cioderra Cioderra Cioderra Cioderra Delphinula Delphinula Delphinula Delphinula Delphinula Delphinula Trochoma Holopea Holopea Holopea Holopea Hormotoma Holopella Hormotoma Holopella Hormotoma Parcollia Natical Patychisma Platychisma Platych
		Acrocali Carinar Carinar Carinar Carinar Carinar Corinar Corinar Corinar Corinar Corinar Corinar Corinar Corinar Corinar Cicoso Cicoso Cicoso Delphin Natical Natical Natical Platych Platych Platych Platych Platych Platych Platych Pritidio Corinar Corona Natical Natical Natical Corona C
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Subkingdom MOLLUSCA. Province ODONTOPHORA. Class CEPHALOPODA. Orders:—DIBRANCHIATA, TETRABRANCHIATA.

Subdivision.	Genus, Spec		Lower Stage.	Middle Stage.	Upper Stage.
?	Actinoceras, baccatum, H. Backii,	Woodward.	5; Ormoceras, Hall; Disco Woolhope (Herefordshire).		Drummond's Isl., L. Huro
	Bayfieldii,		Thessalon Island, L. Huron,	••••••	" "
W Carad		Sowerby. Portlock.	Nyby, Wesenby (Esthonia). Tyrone (Ireland).		Malverns (England).
Corall. Lst	Orthoceras.		* '		
?	conoideum, Discosurus.	Hall.			Randifer. Lake Huron, Drummon Island, Rupert's Land, Wisconsin.
H. R. G			North America. (N. York) Turin &c., N. Wis- consin, Pennsylvania.		Traconomic Control of the Control of
CH., BLBL.	Lyonii,	Stokes.	(New York) Watertown. N. York, Igloolik and Ooglit, (Arctic Amer.)Fort Garry, Rupert's Land.		
CH Llandov., W	moniliforme, nummularium, Orthoceras.	Hall. Sowerby.	New York.	Llandovery (Wales)	(Gloucestershire) Tortwor Norway, Arisaig (No
	Richardsoni,	Stokes.	Lake Winnipeg (Rupert's		Scotia).
BL			Land). (New York) Watertown &c., Lake St. John (Can. E.), Lake Huron (Canada W.), Pennsylvania, Tennessee, Missouri, N.W. Michigan.		
ÖÜ?	var. distans, vertebratum, Whitei,	Stokes.	(New York) Watertown.	(New York) Niagara Co.	
Cr	sp. ind. (2),		Tasmania West. United States of America.		Huron).
	Ascoceras, Ba	arrande, 18	47; CRYPTOCERAS, Barrande,		
Div. 1, Anticosti G., Llandov.	Anticostiensis,	Billings.	·····	(Anticosti) Junction Cliff.	
H. R. G., Fauna E, W., U.L.					North America, S. Scotlar Ludlow (England).
Fauna E. e. 2	Bohemicum, Bronnii,	Barr.			(Bohemia) Slichov, Kozo Kuchelbad. (Bohemia) Dlauha Hora.
H."R. G	Canadense,		(Anticosti Island) English Head.		(Donellia) Diamii Hota.
Pleta Fauna E. e. 2			(Baltic) Isle Dago, Hohen- holm.		(Bohemia) Kozorz, Gros
, ,,	Goldfussi,	,,			Kuchel, &c. (Bohemia) Dlauha Hora.
" "	invertens, Keyserlingii,	"		•••••••••••••••••••••••••••••••••••••••	(Boh.)Dlauha Hora, Sliche (Bohemia) Dlauha Hor Slivenetz, Kozorz, Lockho
" "	var. amœna, Koninckii,	,,			(Bohemia) Butovitz. "
" " Div. 1, A. Gr.,	Murchisoni, Newberryi,	Billings.	(Canada E.) Three Rivers,(I.		(Bohem.)Karlstein, Lockho Slivenetz?, &c.
H. R. G. ?	Norwegicum, singulare.		Anticosti) English Head.		Brewig (Norway). (Bohemia) Dlauha Hora.
" Subgenus	Verneuilli, Aphragmites, E	Barrande, 1	861.		" "
Fauna E. e. 2 ?	Buchii, Ascoceras. Salteri,				(Bohem.)Gross-Kuchal, K zorz, Lockhov. ?
	Ascoceras. Glossoceras, Bo	.,			

Subdivision.	Genus, Spec		Lower Stage.	Middle Stage.	Upper Stage.
Fauna E. e. 2	gracile,	Barr			. (Bohemia) Kozorz, Dlauha
A	Ascoceras.				Hora.
" "	var. curta. Bactrites, San	adberger, 18	8 42; STENOCERAS, D' Orbigni	y.	. (Bohemia) Kozorz, Lockhov
Argill. Lst.? .		Münster	(Dalania) Dalitana (Baraia		. (Russ.)Petchora, Oust-Oukh
Pleta, Fauna I d. 1, 5.		Elenw	. (Bohemia)Rokitzan,(Russia Poulkova.		
Fauna D. d. 1,	5 Sandbergeri,		. (Bohem.) Wosek, Konigsho	f.	
Fauna D. d. 1.	Bathmoceras complexum,	Barr	(Bohemia) Vosek near Rokitzan.	-	
, ,	præposterum, Cameroceras	, Conrad, 1	842. See Endoceras.	Daniel Paff	
Base of Up.Stage	Trentoneum,	Hall.	(New York) Middleville.		Sardinia.
Pleta	Clymenia, Mii	nster, 1839. Eichw.	Réval, Kertal (Baltic).		
17	depressa,	. "	Isle Odinsholm (Baltic). Isle Dago (Baltic).	A CONTRACTOR OF THE PARTY OF TH	
"	flexuosa,	Munster. Eichw.	Isle Dago (Baltic). Isle Odinsholm (Baltic).		
"	Odini,	"		Constitution of the Local Control of the Local Cont	
33	rarospira,	"	Réval, Haljal, Isle Odinsholn (Baltic).	n e e e e e e e e e e e e e e e e e e e	particular and the second
	Cochlioceras,	Eichwald,	1860.		
Pleta	avus,	Eichw.	Ropscha (St. Petersburg Russia.)	
(ORTHOCERAS)		Coy, 1844.	The Rollyston	SHEWAY SHOW	bulliage to the first
Carad., Woolh. W., Pleta.	annulatum, Orthoceras.	Sowerby.	Shropsh., (Wales) Dermydd- fawr, Isle Dago (Baltic)		
			Ropscha (Russia).		
Carad	arcuoliratum,	Hall.	(S.W. Scotl.) Wrae Quarry, (England) Cheney Long-		The second second
			ville, Coniston (Lancash.).	The second secon	and the same of the
Pleta Corall. Lst		Eichw.	Réval, Baltischport (Baltic).		(Podolia) Smotvytsch River.
Pleta	devexum,	,,	Wesenberg (Esthonia), Réval.		(Lodona) Smocrytsen River.
Carad., Pleta	fenestratum,		Wesenberg &c. (Esthonia). Isle Dago(Baltic), Lyckholm,		
	Orthoceras.		Westmoreland, Scotland.	The said that we had	
Pleta	serpentinum. tenuiannulatum,	M'Cov.	(Esthonia) Kirna &c.		Wales, Leintwardine (Shrop-
	Orthoceras.			50	shire).
Passage-beds	Orthoceras.	Sowerby.			Wales.
Pleta		Hisinger.	(Esthonia) Réval &c., St.	Aliferial Market	
	Cyrtoceras, Ge	oldfuss, 18	Petersburg (Russia). 33.		3000
Onond. S. G	acuticameratum,	Hall.	·····		New York.
P., Queb. G Pleta, Tr., BL	alethes, annulatum.		Point Lévis (Canada East). Canada, (New York)Middle-		
21000, 211, 223111			ville, Wisconsin, (Esthon.) Wesenberg, Pijalep.		
Llandov. &c	approximatum,	Sowerby.		England, S.W. Ireland	Eastnor Park (Worcestersh.).
Pleta Onond. S. G	arcticameratum,	Hall.	Réval, Isle Dago, Pijalep.		(Canada W.)Galt Township.
Tr	arcuatum,	,,	(New York) Middleville.		
B. 2, Queb. G Carad	atramentarium,		(Canada East) Philipsburg. (Wales) Rhiwlas, Westmore-		Authorities and the same
			land.		
**	Brateri, Bruckneri,		Tyrone (Ireland). North Germany (drift).		atalogad a management of
Tr., BL			(New York) Middleville, Wis-		
Niag	? cancellatum,	,,	consin.		(New York) Lockport, Nia- gara Falls.
	centrifugum,		(Himalaya) Niti, Rimkin.		
Niag	Clitus, conicum, D.	D. Owen	(Wisconsin) Mineral Point.	***************************************	(Central Canada) Grimsby.
	constricto-striatur	m, Hall.	(New York) Middleville.		
B., BL., Tr Fauna E. e. 2, W.	constrictum, corniculum.	Billings.	Canada.		Isle Odinsholm (Baltic) Bo-
	A STATE OF THE STA				hemia.
Niag	Corydon, Dardanus,				
0" 1 0		THE RESERVE OF THE PARTY OF THE			
Queb. G		Billings.	Point Lévis (Canada East).		

Subdivision.		Species, and author.	Lower Stage.	Middle Stage.	Upper Stage.
Pleta	digitale.	Eichw.	(Esthonia) Wesenberg.		
Tr., BL		Hall	Wisconsin.		Control of the second second second
Tr	exiguum.		(Canada West) L'Orignal,		
	carbattan,	"	Ottawa River, Upper Mis-	The state of the s	100
	0.0		sissippi River.		The state of the s
D1-4-	C.1	0.1.1.41	Bissippi River.	Territoria de la constitución de	AND DESCRIPTION OF THE PARTY OF
Pleta		Schloth.	Réval (Esthonia).		
Corall. Lst		Eichw.			Isle Oesel (Baltic).
B., BL., Tr	falx,		(Can.W.) Mid. Ottawa River.		
Fr	filosum,	Hall.	New York.	Tall a non-la anni	
Fauna E. e. 2,	Forbesi.	Etheridge, Barr.	(Wales) Rhiwlas		(Bohemia) Dlauha Hora
Carad.					(Something) Diminist 1101m
Niag,	Fostori	Hall			Chicago 9 (Illinois)
Div. 1, A. G.,	fragile	Pillings		(Antiqueti) Clamacha Pou	Cincago: (Tinnois).
Tlandon	tragne,	Dinings.		(Anticosti) Gamache Bay.	THE REAL PROPERTY AND ADDRESS OF THE PERTY
Llandov.		35:01	The same and a second s		T II + CTILL I >
Niag	giganteum,	M'Chesney.		***************************************	Joliet (Illinois)
Fauna D	hospes,		North Germany (drift).		
BL. or Tr	Huronense	Billings.	Lake Huron (N.W. end).	and an interest of the latest	
Compact Pleta	ibex.	Sowerby.	Czarskoye-selo (Russia), Isle		
			Odinsholm (Baltic).		
Carad	inæquisent	m. Portlock	(Irel.) Desertcreate, (Wales)		
	Phragm.	Brateri.	Llangollen.		Market Committee
BL., Tr			Lake Huron (N.W. end).		
		0			(Canada W.) Catem
Juelph	Jonesi,	,, ?	(Consider Front) Montreel	••••	(Canada W.)Galt Townshi
Tr			(Canada East) Montreal.		22/12/22/2
"	lamellosum	, Hall.	(New York) Middleville,		The state of the s
		1	Canada.		
H. R. G	? ligarium,	Billings.	Lake Huron (N.W. end).		
Гr		Hall.	Wisconsin.		
Niag					Wisconsin.
		Billings	(East L. Huron) Cape Smyth.		11.100111111
CH	M.Cori		Mingan Isles (Gulf of St.		
JH	at Coyi,	"	T. Common St.	The second secon	The state of the s
		77 11	Lawrence).		
Гr	macrostom	um, Hall.	(Norway) Christiania, Ca-		
			nada, (New York) Middle-		
	(100000010)		ville, Pennsylvania, (Wis-		
			consin) Mineral Point.		
	marginalis,	Conrad.	(Wisconsin) Mineral Point.		The state of the s
Queb. G	Metellus		Point Lévis (Canada East).		
		ntum Hall	England, (S.W. Scotland)		
B., Tr., Carad	muiticamer	atum, Han,	England, (S.W. Scotland)		
		ar Coy.	Knockdollian,(New York)		
			Middleville,		
Dolom. Lst	multiseptat	um,		(Russia) Kolpino?.	CARRY AND ADDRESS OF THE PARTY AND ADDRESS OF
Pleta	nanum,		Wesenberg (Esthonia).		
BL.=Tr	Nileus,	Hall.	Wisconsin.		
Pleta	Odini.	Eichw.	Isle Odinsholm (Baltic).		Wanted Street,
Niag		Hall.			Wisconsin or Iowa.
	Orestes,				Flamboro' Township (Ca
19	O'Tebeco,	Thinning.			W.).
Guelph	Orodon				
Guelph	the Control of the Co	,,			New Hope (Canada West)
H. R. G		6"1	(East L.Huron)Cape Smyth.		
U.Tremad	præcox,	Salter.	(North Wales) Garth, Tu-	PACIFICATION OF THE PACIFIC AND ADDRESS OF THE P	
12000			hwnt-yr-bwlch.	mate/f	
Pleta		Eichw.	Isle Dago, Hohenholm.	the state of the s	NOTES AND ADDRESS OF THE PARTY.
B., BL., Tr	regulare.	Billings.	(Can. W.) Mid. Ottawa R.	and the state of the state of the	
Pleta	scindens.		(Russia) Poulkova.		
	The State of the S		Kirna (Esthonia).		
RT.	Jimpiea,				Particular State of the Control of t
BĽ B., BL	ginnetur.		(Canada) Nepean Township.		March 1985
D., DL	smuatum,	,,	(Canada West) Ottawa River,		
0 1	Carry Company		Little Chaudière.		Property and the second
Carad		Salter.	England, (N. Wales) Rhiwlas.		
"	subarcuatui	m, Etheridge.	(Scotland) Ayrshire, (Irel.)	STREET, STREET	
		30	Desertcreate, (Wales) Twll		The second second second
	1200		Dhu, Llyn, Rhiwlas.		The state of the s
L. H. G	subrectum	Hall.			(Central N. York) Herkime
Pleta	enhetriature		(Esthonia) Isle Dago, Hohen-		(Dinitial III I DIN) II CI MINE
	out with the	, Elenw.	holm.		
CIT P DT	ambt 1	Dilli			Section 1
CH., B., BL	subturbinat	um, Billings.	Mingan Isles (G. St. Lawr.).		
P., Queb. G		_,,,	Point Lévis (Canada East).		
Pleta		Eichw.	Wisconsin.		
	3 .		(Esthonia) Isle Dago.		
Tr	Whitneyi		Isle Dago, Pyhalep.		
9	sp. ind.,		Isle Dago, Lynaich.	(Sardinia) Flumini Mag-	
	p. mu.,	Menegiiii.	•••••		
		0.14	NW Carland	giore.	
	33		N.W. Scotland.		Red Committee Co
	F 500	The state of the s	(Caernarvonshire) Carnedd		
	99	***	Dafydd.		

Subdivision.	Genus, Species, and Author.	Lower Stage.	Middle Stage.	Upper Stage.
	sp. ind., Haughton.			Boothia, Arctic Seas.
?				. Dootma, Article beast
	Cyrtocerina, Billings, 1	865.	(
Queb. G	Mercurius Billings	Point Lévis (Canada East).		
BL		(Canada W.) Middle Ottawa		
	cy pica, ,,	River.		
	Dictyoceras, Eichwald,			
Corall. Lst	porosum Fisher			(Baltic) Isle Oesel, Lohde
Cotan. List	Discosurus, Hall, 1852.	***************************************		(Battle) Isle Oeser, Donde
Niag				(Can. W.) Lake Tematscar
Niag	Actinoceras.		***************************************	
	Accinocerus.			ing, (N. York) Lockpo (L. Huron) Drummon Island.
	Endoceras, Hall, 1847.	and the second s		
	angusticameratum, Hall.	(New York) Middleville.		
	annulatum. "	,, Watertown.	and the same of th	
Fr	approximatum, ,,	" Middleville.		31
**	arciventrum, "	" W.Canada Creek.		
	camurum, ,,	New York.	The second secon	The second secon
Niag				(New York) Lockport &c.
Pleta		(Russ.)Lapukhinka, Ropscha,		
	8.	(Esthonia) Baltischport.		
,,	complanata, Eichw.	(Russia) Lapukhinka, Odins-		
	T	holm Isle (Baltic).		2 1 1 1 1 1 1 1 1
H. R. G	Cuvieri. Hall	Turkey River (Iowa), Ru-		The second secon
	22011	pert's Land (N. America).		
Fr	distans	(New York) Lewis County.	The second secon	
Pleta		St. Petersburg, Ropscha (Rus-		
Lices	duplex, Estenw.			
Γ.,	dunlicatum Hall	sia), Baltischport (Baltic).		
Ir		(New York) Middleville.		
dan	Eddin, Wyatt-Edgen.	(N. Voul) Lafferson County		
BL	gemeniparum, nan.	(N. York) Jefferson County.	The state of the s	
Pleta		Lyckholm (Esthonia).		
BL	longissimum, Hall	(N. York) Jefferson County.		
Fr		" Middleville.		
" "	var.	* 17 1 m 2		
Pleta		Lyckholm (Esthonia).		
3L		(New York) Watertown.	The state of the s	
[r	proteiforme, ,,	(N. York) Middleville, Ca-		
		nada, L. Winnipeg, Penn-		
		sylvania, Tennessee, N.W.		
		Michigan, (Wiscon.) Falls		
		of St. Anthony, (Iowa)		
		Turkey River.		
,,	var. elongatum, "	(New York) Middleville.	A series of print along	
,,	" lineolatum, Hall.	NewYork(with proteiforme).		
,,	" strangulatum, "	"		
,,	" subcentrale, "	"		THE RESERVE TO STREET,
,,	" tenuistriatum, "	,, ,,		and the second second
"	" tenuitextum, "			
Pleta	regulus, Eichw.	Hohenholm, Dago Isle (Bal-		
		tic).	Witness Comment	A STATE OF THE PARTY OF THE PAR
,,	remotum, ,,	Wallkhoff, Lake Ladoga Rus-		Million Blog and the said
**	, ,	sia).		deline della company della com
BL., Tr	subcentrale. Hall	Turkey River (Iowa) &c., (N.		Cain 12/13/
	aran.	York) Jefferson County.		
Pleta	telum, Eichw.	Wesenberg (Esthonia).		Control of the Contro
	and the second second	Réval (Baltic), Ingria, Po-		500000000000000000000000000000000000000
"	vaginatum, ,,	merania.	We have the same of	ATTENDED TO THE REAL PROPERTY.
2	vertebrale,	Réval, Wesenberg, Baltisch-		San faith of the san faith
"	vertebrate, ,,	port (Esthonia).		
	sp. ind., Verneuil.	New York.		
	Gomphoceras, Sowerby.	Bolboceras, Apioceras,	Poteniocenie	2 July Charles Company
Carad., U.Llan-	approximatum M.Com	(Ireland) Pomeroy		
dov.	pproximatum, Br Coy.	(Ireland) I omeroy	(Ireland) I omeroy.	Contract to the second
Pleta, Corall.Lst.	holhos Fish	Isle Dago, Pyhalep (Baltic).	Isla Dago	
Fauna E.e. 4				Dohamia
Pleta, Fau. E. e.2		Wesenberg (Esthonia)		Bohemia.
		Pámal (Fethania) Comb	······	31
Pleta	verneuil.	Réval (Esthonia), Czarskoe-		
Plank Compli To	allintianon acro	celo (Russia).		(D. 1.11.)
Black Corall.Lst.				(Podolia) Orynine.
Pentam. Lst	elongatum, Eichw.			
Viag				Chicago (Illinois).
	Naumanni, Geinitz.	Saxony.		military and the second
I. R. G	obesum, Billings.	(Anticosti I.) Charlton Point		
		&c.		

Subdivision.	Genus, Species Author.	s, and	Lower Stage.	Middle Stage.	Upper Stage.
W., L	pyriforme,	Sowerby.			(England) Aymestry, Leint-
	Phragmoceras.		A STATE OF THE PARTY OF THE PAR	A STATE OF THE STA	wardine, Ledbury.
Niag		Hall.			Chicago (Illinois).
	Marcyæ.		9	N. Asias Londilla	
	septoris,	TO:111. "			G (D ID 11/0 D)
Comell Tet	subgracile,	Billings.		•••••	Gaspé, Port Daniel (Can. E.)
Corall. Lst					Ural, Russia, River Ylitsch. South Wisconsin.
	sp. ind.,		••••••		South Wisconsin.
	Gonioceras, Ha anceps,		Canada, (New York) Water-		
***	ансерь,	Han.	town, Tennessee, Missouri,		Contract the second
			N.W. Michigan, (Wiscon-		
			sin) Prairie du Chien.		
	occidentale,	,,,	Wisconsin.		
	Gyroceras, Kon	ninck, 18	44.	The second secon	
	Americanum,	Billings.			Gaspé (Canada East).
					Chicago (Illinois).
	Heloceras, Eich				
Pleta	tuberculatum,	, ,, ,	(Esthonia) Lyckholm.		
Plata(preparatio)	memiceras, Eu	Fiel-	840. (A doubtful genus.) Isle Odinsholm (Baltic).	District Control of the	
Pleta(pyroxenic)					
	compressum, cylindricum,	"	59 19		
"	Lituites Brewn	ius, 1759	(The Bohemian species are	of the subgenus Opuroce	BAS. J.W.S.)
Carad		Salter.	Mynydd, Frons, Frys, Llan-	or the subgentis Ormock	nas, 0.77 101)
	D	- AMERICA I	gollen.		
Pleta	antiquissimus,	Verneuil.	(Esthonia) Isle Dago, Silesia.		
CS., CH	Apollo,	Billings.	Mingan Isles (G. St. Lawr.).		
L.L					Ludlow, Aymestry, Shelder
					ton (England).
W	Biddulphi,	,,			Nant Glyn, Welchpool (W.)
					Ledbury (Herefordshire).
Niag	capax,	Hall.			Wisconsin.
BL	convolvens,	,,,	(N. York) Watertown, River		the state of the s
Dlata		Cal. 1-41	Kinnikinnick(Wisconsin).		The state of the s
Pleta	29	semoth.	(Russia) St. Petersburg, (Es-		
Pleta, Carad., U.	acemu aviatia	Samanha	thon.)Réval,(Swed.)Uitby. (S.W. Scotland) Peebles &c.,	(Wales) Prestein &c	Bogmine Shelve (Sheen
Llandov., W.	cornu-arieus,	sowerby.	(Wales) Bala Lake, Pres-		shire).
Zamioori, iii.			teign, &c., (Irel.) Desert-		Silic).
			create, Coniston (Lan-		
			cashire), Isle Dago, Réval,		
			Haljal, D'Erras (Estho-		
22 22		40.00	nia), Norway.		
Carad			(Ireland) Tyrone.		Mary Mary 1
	var. β,	Salter.	(Wales) Denbighshire, Cer-	THE WAY TO SERVE TO S	
T1	6-1	0.11	rig-y-Druidion.	The second second	
Llan		Schloth.			
BL., Tr		Somethings.	(Canada East) Phillipsburg.		Leintwardine, Malvern, As
W., L	giganteus,	sowerby.		***************************************	ton (Ludlow).
Tr	Gouldii	Salton	Tasmania West,		ton (manow).
Niag.		h. & Mar	Tasmania West		Chicago (Illinois).
Carad		Salter	(Ireland) Kildare		,
L.L		?			Stokesay, Ludlow(England)
W., U.L		Sowerby.			Ledbury (Herefordsh.), Un
					derbarrow, Westmoreland
BL., Tr			(Canada East) Phillipsburg.		
		Verneuil.	(Spain) Almadenejos.		
	iuliformis,		Himalaya, Niti, Chorh. Pass.		
H. R. G		Billings.	Anticosti Island, S.W. end.		
TOL 4	Gyroceras.	W	D : TI 01 1 1 0 1		
Pleta	Odini,	verneuil.	Russia, Isle Odinsholm (Bal-		
Ce	Palinyma	Pillian.	Mingan Islan (G St Lawn)		
CS Llan		Wahlenb.	Mingan Isles (G. St. Lawr.).		
Carad., Ut. Sl.,	planorhiformis		(New York) Lewis County,		
H. R. G.	pranor bitorinis,	Conrad.	England, (Wales) Bala,		
11. 16. O.	1-11/11 14/14		Cymmerig Eithin (Caer-		
			narvon).		
Queb. G	Pluto,	Billings	(Newfoundl, W.N.W.) Point		The second secon
		Pol	Rich.		principal designation of the second
Pleta	rarospira,	Eichw.	Réval (Baltic).		100
	Robertsoni.	Hall.	Wisconsin.		
BL	Robertsoni, Sowerbyensis,	THE R . LEWIS CO. LANS.	Llandeilo (Wales).		The state of the s

Subdivision.		Species, and Author.	Lower Stage.	Middle Stage.	Upper Stage.
Pleta			(Esthonia) Wesenberg, Isle Odinsholm, Ropscha (St. Petersburg).		
W. ?, L BL, Tr		Sowerby. Hall.	(N. York) Watertown, Ten- nessee, (Can.E.) Lorette &c.		Welchpool (Wales).
Niag Llandov	var. oeci undosus,	dentalis, ,, Sowerby.			Wisconsin.
B., BL	vagrans,	Billings.		dinam.	
Llan Carad		,,	North-west Scotland. (Merioneth) Bala Lake.		(1-1:-1:-) G:ma
	"			and the second second second	Isle &c.
	Nautilus	, Breynius, 1732.	***************************************		Arisaig (Nova Scotia).
Divs. F, G, Queb. G., CS.	calciferus,	Billings.	(Newfoundl, N. & W.) Cape Norman &c.		
701	? complana	tus, Hising.			(Gothland) Hamra.
Pleta Div. L, Queb. G.			Poulkova (Russia). (Newfoundl. W.N.W.) Point Rich.		
CS	ferox.	.,	Mingan Isles (G. St. Lawr.).		
H. R. G Div. L, Queb. G.	Hercules,	,,	Anticosti I., Charlton Point. (Newfoundl.W.N.W.) Point		
	involvens,		Rich. (Himala.) Niti, Gunesgunga.		
CH Niag	POR CONTRACTOR OF THE PARTY OF		Mingan Isles.		
	Litaritan	man Cwallow			Wisconsin.
CS	Pomponius	Billings.	(Canada East) Phillipsburg.		
CH	Tyraus,	,,	Mingan Isles.		
Div. H, Queb.G., CS.			(Newfoundland W.) Bonne Bay.	Manager State of the State of t	
Pleta	Nothoce: impressum	cas, Barrande, Eichw.	1856. (Esthonia) Lyckholm, Pres- qu'île de Neuk.		
Tr	abruptum,	s, Hall, 1846 = Hall.	Phragmoceras. Wisconsin.		
Div. 3, Mayhill, A. G.	Alceum, amator,	Billings.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(Anticosti) Jupiter River.	
Tr., H. R. G	constrictun	a, Hall.	Anticosti, west end, Lake St. John, Lorette, &c. (Can. E.), OttawaCity and River (Canada W.), Middleville (N.York), Tennessee, Ohio, Indiana.		
Corall. L., Scho- harie.	expansum,	"		••••••	(N. York) Schoharie County
Div. 3, Antic. G.					
M. Sa BL., Tr			Wisconsin.	(New York) Lockport.	*
L. H. G			wisconsin.		(Central N. York) Herkime
	Pandion,	,,	Wisconsin.		
BL., Tr.			Wisconsin.		(Central Canada) Grimsby
CL	subrectum,	,,		(New York) Lockport.	
Niag		Billings.			(Central Canada) Grimsby
Lian	Thales, sp. ind	Salter?	Wales		" "
	Ormocer:		(North Scotland) Durness.		
av.	Orthocer	as, Breynius, 1	732 : LOXOCERAS, M. Coy.		- 70
CL			Now Voul	(New York) Lockport.	
H. R. G?	æquate, affine,	Meneghini.	New York.	(Sardinia) Flumini Mag-	
	ageloideum		Sardinia.	giore.	
CH., BL., Divs. L, M, Queb. G.			(Can. E.) Aylmer, Clarence, Middle Ottawa River, &c.,		
Tr., Corall. Lst., Schoharie.	amplicame	ratum, Hall.	Newfoundland, N.W. Canada, (NewYork) Middle- ville.		(New York) Schoharie Co.
B., BL., Tr	ancens	Billings	(Can.W.)LaCloche,L.Huron.		

Subdivision.		Species, and uthor.	Lower Stage.	Middle Stage.	Upper Stage.
BL., Tr	anellum,	Conrad.	Lyckholm (Esthonia), (New York) Middleville, (Wis- consin) Mineral Point.		
Carad., Llandov., W., L.L.	angulatum,	Wahlenb.	(S.W.Scotland) Ardwell &c., (Wales) Builth, (Ireland) County Clare,		Russia, Norway, (Gothland Katthammar, Westmore land, Brigsteer (England) Shelve &c., (Wales) Usk Llangynyw.
Car., CL., Niag., W., L.	annulatum, Cyrtocera		Norway, Scotland, Ireland, (S. Wales) Sholes Hook.	(N.York)Wayne's County.	(Wales) Presteign &c., (Ire land) Creaghmartin &c. (England) Malvern, Wal sall,&c., Russia, Gothland Norway, Franconia, Bo hemia.
	non	Sowerby, Boll.			Gothland.
CH	Antenor,		Mingan 1sles (G. St. Lawr.).		
H. R. G Tr	and the second		(Anticosti) Charlton Point, Lake St. John (Can. E.). Tasmania West.	WEST OF	
Fauna E, W					England, Bohemia.
Carad., Tr	arcuoliratun Cyclocera	n, Hall.	(Can. W.) Lake Huron, La Cloche, (N. York) Water- town, (S.W. Scotl.) Wrae,		
Tr	Var	Saltan	(N.W. Scotl.) Durness. Tasmania West.		The state of the s
L	articulatum,	Sowerby.			(Norway) Hedemark, Lud low &c. (England).
W	attenuatum,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			(Engl.) River Onny, Shrop
Queb. G Carad	Atticus,		(Canada East) Stanbridge. (Wales)Rhiwlas, Haverford-		shire.
Curau.	autua,		west, &c., England, (Ire- land) Kildare.		
Lst. 2, Queb. G. L.Llan.	Autolyeus, Avelinii,		(Canada East) Point Lévis. (Wales) Cefn Gwynlle, (England) Shropshire, Shelve.	White the second	
Tr			New York. (Russia) Lake Ladoga, (Es- thonia) Réval, Baltisch- port, &c.		
U.L	baculiforme,	Salter.			(Westmorel.) Brigsteer &c.
H. R. G		Billings.	(Anticosti) English Head.	CHE C. A. A. M. H. A.	
Llandov Niag	Bayfieldii,	Stokes.			High Hill Village, Manitou line Island (Lake Huron
CS			Mingan Isles (G. St. Lawr.).		
Div. 3, Antic. G. Pleta	bellatulum, bicingulatur	Billings. n, Sandberger.	(Esthonia) Lyckholm, Pres- qu'ile de Neuk.	(Anticosti) Challoupe Riv.	
BL,	Bigsbyi,	Hall.	New York, (Can.W.) Lough- borough&c.,(Can.E.)Mur- ray Bay, (Vermont) High-	and the second	
CH.,Tr.,H.R.G., Carad.,U.Llan-			gate Springs. (S.W. Scotl.) Girvan, (Ireland) Desertcreate, (New		
dov.			York) Albany, Middle- ville, (Can. W.) Middle Ottawa River, (L. Huron) Point Rich, Cape Smyth.		1
Tr	var. a,	,,	(New York) Middleville &c.		The same of the sa
Carad	breviconicui	m, Portlock.	Tirnaskea, Tyrone (Ireland).		Ledbury (Herefordsh.),Ma
Llan., Carad			Desertcreate(Tyrone),(N.W. Scotland) Cribol, Saxony.	Sugar	vern (England).
Niag	Brontes,	Billings.			(Central Canada) Grimsby
Div. 3, Antic. G. Fauna E, Llan- dov., L.		"		(Anticosti) S.W. Point. Galway (Ireland)	(England) Stanbach, Hagley Malvern, Lambrigg, Ken dal, &c., (Wales) Llyn Al
Mary.	2.5				wyn, Storm Hill, &c., (Ire land) Ferriter's Cove, Din gle, Russia, Bohemia, (8 Australia) Melbourne

Subdivision.	Genus, Spec		Lower Stage.	Middle Stage.	Upper Stage.
Niag	Cadmus	Rillings			(Central Canada) Grimsby
Carad., Fauna E.	calamiteum.	Portlock.	(S.W. Scotl.)Ardwell,(Irel.)		Lockhov (Bohemia) France
Caraci, Facilia 25.	,	101110011	Tyrone, N. Persia, Russia.		nia (Ural), Nijeni Taghils
Niag	cameolare. I	M'Chesney.			Milwaukee (Wisconsin) Ch
211116		- Illiani			cago (Illinois).
Div. 4, A. G	Canadense,	Billings.		(Anticosti) S.W. Point,	
				(Con W) Lake Human	
Niag	cancellatum,	Hall.		,	(New York) Rochester &c.
	Endoceras.				
w	caniculatum,	Sowerby.			Esthonia, Russia, (England
And the second	The state of the s				Ledbury, (Wales) Usk.
?	canonicum,	Meneghini.	(Sardinia)FluminiMaggiore.		
Fauna E, Carad.		Barr.	Desertcreate (Ireland)		Bohemia, Franconia.
Queb. G	Catilina,	Billings.	Phillipsburg (Vermont).		
	Cato,	"	,, or Canada E. (Vermont).		
11	Catullus,	. "	" (Vermont).		
Carad., L	centrale,	Hisinger?	(Esthonia) Wesenburg &c.,		
			Bohemia, Llandeilo ?		Vikarby, Sollerö.
			(Caermarthenshire).		
w		Sowerby.		••••••	(England) Dudley.
	clathrato-annula		Lower Silesia (drift).	Killman and the same of the sa	
Th-	10.	Römer.	(N. N. N. 1) 25:13		
Tr		Hall.	(N. New York) Middleville.		(N - V - 1) (1)
L. H. G	clavatum,	"			
N'	,				Herkimer Counties.
Niag	columnare,				
Oslo Group	11	Walslanh	Norman Cond. D.		Gothland.
Osio Group	commune,	wantenb.	Norway, Sweden, Russia,		
Carad	complenate cent	Dontl	Thuringia. Tyrone (Ireland).		
U.Llandov., W.,	complanato-sept	Um, Porti.	Tyrone (Treand).	Fastney Pauls /Waysester	Vendel (Westmansland)
L.	comeum,	Hisinger.		shire), Tortworth (Glou-	
2.				cestershire), Marloes	
				Bay (Wales).	Vikarby &c.
Utica Slate, H. R.	coralliferum.	Hall	(N.York), Turin &c., Canada.	zaly (Walles).	riadi by des
G.	corumnica anny	22001.	(21120111), 2 strin des, cuitadis		
U.Llandov	coralliforme.	M'Cov.		Clifden (Galway), (Wales)	
	corumnorme,	ni coj.	***************************************	Lwyn Meredith.	
CH., Tr	cornuum.	Billings.	Mingan Isles (G. St. Lawr.).	THE PARTY OF THE P	
W	crassiventer,	Wahlenb.			Gothland, Esthonia.
	cochleatum.				
H. R. G	crebriseptum,	Hall.	(Can. E.) St. Grégoire, (L.		
1.			Huron) Cape Smyth, (Can.		the state of the state of the state of
			W.) River Don, N.W. Mi-		
			chigan.	The state of the s	
Niag	crebristriatum,	Meek &			Joliet (Illinois).
701 4 0		Worthen.			
Pleta?			Isle Dago, Pyhalep (Baltic).		
Guelph		Billings.			(Can.W.)New Hope, Guelp
Pleta			(Esthonia) Réval, Lyckholm.		Township.
B., BL., Tr	decrescens,	Billings.	(Can. E.)Montreal,(Can.W.)		
			Mid. Ottawa River, Lake		
			Huron N.W.		West Tennessee.
Niag	Do Francoii	Dimo			West Lennessee.
Niag	De Franceii,		Mingan Telas	•••••	
CH.?	deparcum,		Mingan Isles.		
CH.?	deparcum, diffidens,	Billings.	Mingan Isles.		
CH. ? CH Carad., L. & U.	deparcum, diffidens,	Billings.			(Westmorel.) Brigsteer &c
CH.?	deparcum, diffidens,	Billings.	Mingan Isles.		(Westmorel.) Brigsteer &c (Shropsh.) Leintwarding
CH. ? CH Carad., L. & U. Llandov.	deparcum, diffidens,	Billings. Sowerby.	Mingan Isles. Norway		(Westmorel.) Brigsteer &c
CH. ? CH Carad., L. & U. Llandov.	deparcum, diffidens, dimidiatum,	Billings. Sowerby. Münster.	Mingan Isles. Norway "		(Westmorel.) Brigsteer &c (Shropsh.) Leintwardine (Wales) Radnorshire.
CH. ? CH Carad., L. & U. Llandov.	deparcum, diffidens, dimidiatum,	Billings. Sowerby. Münster.	Mingan Isles. Norway "		(Westmorel.) Brigsteer &c (Shropsh.) Leintwardine (Wales) Radnorshire. Franconia, Bohemia, Aymes
CH. ? CH. Carad., L. & U. Llandov. Pleta	deparcum, diffidens, dimidiatum,	Billings. Sowerby. Münster.	Mingan Isles. Norway "		(Westmorel.) Brigsteer &c (Shropsh.) Leintwarding (Wales) Radnorshire. Franconia, Bohemia, Aymes try(England), Bar Beaco
CH.? CH. Carad., L. & U. Llandov. Pleta Pleta, Fauna E, Llandov.	deparcum, diffidens, dimidiatum,	Billings. Sowerby. Münster. Sowerby.	Mingan Isles. Norway "		(Westmorel.) Brigsteer &c (Shropsh.) Leintwardine (Wales) Radnorshire. Franconia, Bohemia, Aymes
CH.? CH. Carad., L. & U. Llandov. Pleta	deparcum, diffidens, dimidiatum, distans,	Billings. Sowerby. Münster. Sowerby. Billings.	Mingan Isles. """ (Esthon.)Borkholm,I. Dago. (Esthonia) Wesenberg, Norway. Kingston (Canada West). (Russia) Waivara, Popowa,		(Westmorel.) Brigsteer &c (Shropsh.) Leintwarding (Wales) Radnorshire. Franconia, Bohemia, Aymes try(England), Bar Beaco
CH.? CH. Carad., L. & U. Llandov. Pleta	deparcum, diffidens, dimidiatum, distans, Drummondii, duplex,	Billings. Sowerby. Münster. Sowerby. Billings. Wahlenb.	Mingan Isles. """ (Esthon.)Borkholm,I. Dago. (Esthonia) Wesenberg, Norway. Kingston (Canada West). (Russia) Waivara, Popowa,		(Westmorel.) Brigsteer &c (Shropsh.) Leintwarding (Wales) Radnorshire. Franconia, Bohemia, Aymes try(England), Bar Beaco
CH.? Carad., L. & U. Llandov. Pleta Pleta, Fauna E, Llandov.	deparcum, diffidens, dimidiatum, distans,	Billings. Sowerby. Münster. Sowerby. Billings. Wahlenb.	Mingan Isles. """ Norway "" (Esthon.)Borkholm,I. Dago. (Esthonia) Wesenberg, Norway. Kingston (Canada West). (Russia) Waivara, Popowa, Ropscha, &c., Bohemia,		(Westmorel.) Brigsteer &c (Shropsh.) Leintwardine (Wales) Radnorshire. Franconia, Bohemia, Aymes try(England), Bar Beaco
Pleta Pleta, Fauna E, Llandov.	deparcum, diffidens, dimidiatum, distans, Drummondii, duplex,	Billings. Sowerby. Münster. Sowerby. Billings. Wahlenb.	Mingan Isles. """ Norway "" (Esthon.)Borkholm,I. Dago. (Esthonia) Wesenberg, Norway. Kingston (Canada West). (Russia) Waivara, Popowa, Ropscha, &c., Bohemia, (Esthonia) Isle de Roog, Baltischport &c., Norway,		(Westmorel.) Brigsteer &c (Shropsh.) Leintwarding (Wales) Radnorshire. Franconia, Bohemia, Aymes try(England), Bar Beaco
CH.? CH	deparcum, diffidens, dimidiatum, distans, Drummondii, duplex,	Billings. Sowerby. Münster. Sowerby. Billings. Wahlenb.	Mingan Isles. """ Norway "" (Esthon.)Borkholm,I. Dago. (Esthonia) Wesenberg, Norway. Kingston (Canada West). (Russia) Waivara, Popowa, Ropscha, &c., Bohemia, (Esthonia) Isle de Roog, Baltischport &c., Norway, New York?, Silesia, (Swe-		(Westmorel.) Brigsteer &c (Shropsh.) Leintwarding (Wales) Radnorshire. Franconia, Bohemia, Aymes try(England), Bar Beaco
CH.? CH	deparcum, diffidens, dimidiatum, distans, Drummondii, duplex,	Billings. Sowerby. Münster. Sowerby. Billings. Wahlenb.	Mingan Isles. """ Norway "" (Esthon.)Borkholm,I. Dago. (Esthonia) Wesenberg, Norway. Kingston (Canada West). (Russia) Waivara, Popowa, Ropscha, &c., Bohemia, (Esthonia) Isle de Roog, Baltischport &c., Norway, New York ?, Silesia, (Sweden) Kinnekulle, (Spain)		(Westmorel.) Brigsteer &c (Shropsh.) Leintwardine (Wales) Radnorshire. Franconia, Bohemia, Aymes try(England), Bar Beaco
CH.? CH	deparcum, diffidens, dimidiatum, distans, Drummondii, duplex,	Billings. Sowerby. Münster. Sowerby. Billings. Wahlenb.	Mingan Isles. """ Norway "" (Esthon.)Borkholm,I. Dago. (Esthonia) Wesenberg, Norway. Kingston (Canada West). (Russia) Waivara, Popowa, Ropscha, &c., Bohemia, (Esthonia) Isle de Roog, Baltischport &c., Norway,		(Westmorel.) Brigsteer &c (Shropsh.) Leintwarding (Wales) Radnorshire. Franconia, Bohemia, Aymes try(England), Bar Beacon
CH.? CH	deparcum, diffidens, dimidiatum, distans, Drummondii, duplex,	Billings. Sowerby. Münster. Sowerby. Billings. Wahlenb.	Mingan Isles. """ Norway "" (Esthon.)Borkholm,I. Dago. (Esthonia) Wesenberg, Norway. Kingston (Canada West). (Russia) Waivara, Popowa, Ropscha, &c., Bohemia, (Esthonia) Isle de Roog, Baltischport &c., Norway, New York ?, Silesia, (Sweden) Kinnekulle, (Spain)		(Westmorel.) Brigsteer &c (Shropsh.) Leintwardine (Wales) Radnorshire. Franconia, Bohemia, Aymes try(England), Bar Beacon
CH.? CH	deparcum, diffidens, dimidiatum, distans, Drummondii, duplex,	Billings. Sowerby. Münster. Sowerby. Billings. Wahlenb.	Mingan Isles. "" Norway "" (Esthon.)Borkholm,I. Dago. (Esthonia) Wesenberg, Norway. Kingston (Canada West). (Russia) Waivara, Popowa, Ropscha, &c., Bohemia, (Esthonia) Isle de Roog, Baltischport &c., Norway, New York?, Silesia, (Sweiden) Kinnekulle, (Spain) Toledo Mountains, Huerto del Llanos, (Newfoundl.) Cape Norman, Mingan		(Westmorel.) Brigsteer &c (Shropsh.) Leintwardine (Wales) Radnorshire. Franconia, Bohemia, Aymes try(England), Bar Beacon
CH.? CH	deparcum, diffidens, dimidiatum, distans, Drummondii, duplex,	Billings. Sowerby. Münster. Sowerby. Billings. Wahlenb.	Mingan Isles. """ Norway "" (Esthon.)Borkholm,I. Dago. (Esthonia) Wesenberg, Norway. Kingston (Canada West). (Russia) Waivara, Popowa, Ropscha, &c., Bohemia, (Esthonia) Isle de Roog, Baltischport &c., Norway, New York?, Silesia, (Sweden) Kinnekulle, (Spain) Toledo Mountains, Huerto del Llanos, (Newfoundl.) Cape Norman, Mingan Isles, (Wales) Gorllwyn-		(Westmorel.) Brigsteer &c (Shropsh.) Leintwardine (Wales) Radnorshire. Franconia, Bohemia, Aymes try(England), Bar Beacon
CH.? Carad., L. & U. Llandov. Pleta Pleta, Fauna E, Llandov.	deparcum, diffidens, dimidiatum, distans, distans, Drummondii, duplex, bisiphonatum?	Billings. Sowerby. Münster. Sowerby. Billings. Wahlenb., Sowerby.	Mingan Isles. "" Norway "" (Esthon.)Borkholm,I. Dago. (Esthonia) Wesenberg, Norway. Kingston (Canada West). (Russia) Waivara, Popowa, Ropscha, &c., Bohemia, (Esthonia) Isle de Roog, Baltischport &c., Norway, New York?, Silesia, (Sweiden) Kinnekulle, (Spain) Toledo Mountains, Huerto del Llanos, (Newfoundl.) Cape Norman, Mingan		(Westmorel.) Brigsteer &c (Shropsh.) Leintwardine (Wales) Radnorshire. Franconia, Bohemia, Aymes try(England), Bar Beacon

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Subdivision.	Genus, Spec		Lower Stage.	Middle Stage.	Upper Stage.
L. H. G Pleta	elegantulum, H ellipticum,		(Esthonia) Baltischport, Isle Dago, Pyhalep.		
L.Llandov	,,	M'Coy.	Dago, Pyhalep.		Aymestry (Herefordshire).
? Carad	Poterioceras. elongato-cinctu		(Ireland) Chair of Kildare, Desertcreate, Tipperary, Clare.	And the second of the second of the second of	
L.Llandov., Arenig R.		1000000	(Wales) Cefn Gwn, Shelve (Shropshire).	Carlo and the carlo and the	
Pleta			(Baltic) Isle Dago, Hohen- holm.		
Corall. Lst., W	excentricum,				dine (England), (Wales Radnor &c.
P., Div. H, CS		Billings.	Newfoundland, Schooner Isl. Thuringia.	•	Arisaig (Nova Scotia).
Div. 1, H. R. G. Carad., L.Llan., W., L.L.	ferum, filosum,	Billings. Sowerby.	Anticosti Island (West end). Coldwell, Randypike, Ambleside (Westmoreland), ConistonWaterhead (Lancashire), Church Stretton (Shropshire).	Galway (Ireland)	(England)Ludlow,Leintwar dine, Aymestry, (Wales Builth.
W., L	fimbriatum, annulatum.	Sowerby.			(England)Mayhill, Malvern Sweden.
Div. 1, Queb. G.	Flavius,		(Newfoundl. W.N.W.) Point Rich.		
Tr., H. R. G	Fluminense, formosum,	Meneghini. Billings.	(Canada E.) Montreal, (An- ticosti) English Head and Junction Cliff,		
CS BL	fusiforme,	,,	(Can. W.) Kitley Township. (NewYork) Jefferson County &c., (Can. W.) Pakenham, Tennessee, Missouri, N.W. Michigan.		
Carad	Glaucus, gracile,		Norway. (Canada West) Oxford.		
Carad. &c	grande, gregarioides,	Meneghini. D'Orbigny.	(France) St. Sauveur	(France) Baubigny, Cher- bourg, Pyrenees.	North Spain.
Carad., Fauna E, Llandov.	gregarium,	Sowerby.	(Ireland) Chair of Kildare, (France)Angers,Caen, &c., N. Spain.	Leenane (Galway)	Bohemia,(England) Ludlow
Shale above Tr Div. 1. M, Queb. G.	Griffithi,		Wisconsin. (Newfoundl. N.N.W.) Point Rich &c.		Arctic Seas (N. America).
	Hagenowi, hastatum,	Boll. Billings.	(Canada West) Ottawa City,		Gothland.
Delth. Sh. Lst	Helderbergii,	Hall.	Paquette Rapids.		(New York, east) Carlisle County &c.
сн?	hians, Hisingeri,	Billings.	Thuringia. (Canada East) Grenville. (France) Vitré, Poligné, &c.		
Racine Lst., Niag. Tr.		M'Chesney.			Racine (Wisconsin).
Fauna E, Carad., Llandov.	ibex, Cycloceras.	Sowerby.	Westmoreland, (Wales) Bala Lake, Haverfordwest.	Coolin (Galway), Norway, France.	Norway, Gothland (North and Central), Russia, (Eng- land) Shropshire, Hagley Park, (Wales) Builth, Usk Malvern, Kendal, &c.
Carad., Niag., L. Llandov., Oslo Gp.	Actinoceras.		Coniston (Lancashire), Norway.		(England) Ludlow, Kendal Benson Knot, (Gothland Katthammar, Esthonia (New York) Lockport Pennsylvania, Ferriter
CS	indagator,		Ireland. Mingan Isles (G. St. Lawr.).		Cove (Ireland).

Subdivision.	Genus, Species, an Author.	d Lower Stage.	Middle Stage.	Upper Stage.
Pleta	insigne, Ei	chw. St. Petersburg, Kotly (Russia), Baltischport (Baltic		
Niag	irregulare, M'Che	sney.		Milwaukee (Wisconsin).
		then.		Joliet (Illinois).
Tr		euil (Spain) Asturia, Ferrones. Hall. (New York) Watertown.		
	Kemas, Se	Alter. (Himalaya) Niti Chorhot Pass.		
Onon. S. G	læve,	Hall		(New York) Wayne County
G., CS.	Lamarckii, Bill	ings. (Newfoundland N.)Schoone Island, Godmanchester Beauharnois (Canada E.)	r,	
H. R. G., Niag	lamellosum,	Hall. (Can. W.) Toronto, N. York Wisconsin, N.W. Michigar		
Niag	Laphami, M'Ches	sney.		Wauwautosa, Milwauke
Carad., CS., Tr.,	laqueatum, I	Hall. (N. York) Watertown, (Lan	-	Westmoreland, (Wales) D
W., L.		cashire) Coniston, Turke	y	nas Bran.
	" Daw	Kiver (Iowa),		Nictaux (Nova Scotia).
Tr	var. a, I late-annulatum,	Hall. New York. (N. York) Middleville.	4-1	
Niag.	linealatum, M'Ches	sney 1 ork) Middleville.		Joliet (Illinois).
Fauna E, Pleta,	lineare, Barrande, Mün	ster. (Esthonia) Wesenberg &c.	,	Franconia, Bohemia.
Carad.		(Irel.) Chair of Kildare.	A CONTRACTOR OF THE PROPERTY O	
Pleta	lineatum, Hi	sing (Ireland) Tipperary & Clar Counties, Norway, (Swe den) Mosseberg, Odins	-	
	, 1	holm Isle (Baltic). Hall. Missouri.	1997/1992	OVE LE CAN C. A
BL	longe-cameratum,	ings. (Can. W.) Mid. Ottawa Riv		. (N. York East) Albany Co. &c
Fauna E, Pleta.	Ludense, Sowe	rby. (Baltic) Isle Odinsholm ?		Bohemia, north and centra
W., L. & U.L.				Gothland, Malverns, Leini wardine, &c., Benson Kno Kendal (England), Pre- teign (Wales).
H. R. G	Lyelli, Billi	ings. (Anticosti I.) Salmon River	A THE PART OF THE	seign (maies).
w	Maclareni, Sa	lter.		(Scotland) Carlops, Peebler Pentland Hills, Llanbs
H. R. G		ings. Anticosti Isle, Charleton Pt (Can. W.) Cornwall Townsh		darn (Radnorshire).
w		lips.		(S. Wales) Wooltack an Marloes Bay.
CH	Maro, Billi	ings. Mingan Isles (G. St. Lawr.)	The state of the s	
Niag	medullare, D. D. O	wen.		Upper Mississippi River.
,,	" Hall & Whit	ney		. "
ElanBL.		lter. North-west Scotland. ngs. (Can. W.) Kingston, (Can E.) Montreal &c.		
CH., B., BL				
B 2, Queb. G				(England) Mashing II.
L	stocktree-ense, Sowe	rby.		(England) Mocktree Hays Ledbury, Abberley, New ent.
CS	Montrealense, Billi	ngs. (Canada E.) St. Eustache.		
CH., B., BL.?		Iall. (Canada W.) Lake Huron La Cloche, (New York)		
		Watertown, (Canada E.) Montreal, Mingan Isles		
m-	letti	Pennsylvania, Wisconsin. N.W. Michigan.		NI.
Tr	and the same to the same	Iall. New York. ,, Thuringia (drift)	(N. York) Medina, Lock- port.	
BL		" (Canada W.) Middle Ottawa River, (Can. E.) Montreal.		
Fr		lter. Tasmania West.	or the same	
B., BL., Tr		son. (Can. E.) Murray Bay, (Can. W.) L. Huron, La Cloche.		
csı		ngs. Mingan Isles.		Milmonles (Mills
	odocostum, M'Chesi		Llandovery (Weles)	Milwaukee (Wisconsin). Bohemia, (Engl.) Tortworth

Subdivision.	Genus, Specie Author.		Lower Stage.	Middle Stage.	Upper Stage.
Niag	Ohonon	Dillings			(Carada Wast) Cairada
Pleta?	obliguum.	Eichw.	(Esthonia) Kirna.	***************************************	(Canada West) Grimsby.
	Okemas,		Himalaya, Niti Pass (E. I.).		
	Ommaneyii,	Duricez.	1111111111 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Arctic Seas (America)
CS		Billings.	(Can. W.) Oxford, (Can. E.)		mode ceas (mierica).
			St. Anne.		
B., BL., Tr	Ottawaensis,	11	(Can W) Mid Ottawa River		
Delth. Sh. Lst	pauciseptum,	Hall.	(France)La Sarthe,Bohemia.		(N.York, east) Schoharie Co
	pelagicum,	Barr.	(France)La Sarthe, Bohemia.		
Carad	perannulatum,	Portiock.	Desertcreate, Tyrone (Irel.).		
H. R. G	,,	Billings.	Anticosti Isle, west end.		
	crocus.	-			
W., U.L		Salter.			(Wales) Usk Castle, Llan
	Lituites articu	tatus.			sannan, (Engl.) Ludlov
					Malvern, Hagley, (N. Yorl
BL	DOMES OF THE PARTY	Dillings	(Counts W) Take House		east) Schoharie County.
DL	perparvum,	Diffings.	(Canada W.) Lake Huron, north-west end.		
P., Queb. G	Persons		(Canada East) Phillipsburg.		
Div. 3, Antic. G.	nersinhonatum	.,,	(Canada East) Fininpsourg.	Commonant Pt (Antiqueti)	
Delth. Sh. Lst	perstriatum.	Hall		Cormorant F (Anticosti).	(New York, east) Schohari
- Cittle Mill Libert	p	21011			County.
B., BL	Pertinax.	Billings	(Canada West) Kingston.		Jouney.
Div. 2, Antic. G.	milanton	,,	(Canada West) Kingston.	Anticosti (Juniter River)	
Divs. I, K, L, M,	piscator.	"	(NewfoundlandW.)W.N.W.	Zinicosti (Gupiter Ziver).	
N. Queb. G.		"	Point Rich &c.		
H. R. G	Piso,		(Lake Huron) Cape Smyth.		
Tr	plano-convexum,	Hall &	Wisconsin.		
		Whitney.			
Carad	politum,	M'Coy.	(Scotl.) Ayreshire, Penqua-		
			ple, Knockgeirn, &c.		
,,	Pomeroense,	Portlock.	Desertcreate, Tyrone (Irel.).		
	pressum, H.		Pennsylvania.		
Divs.L,M, Queb.	Priamus,	Billings.	Newfoundland W.&W.N.W.		
G.			D 1 1: D 24 D :1		C PIPILITEIN
Carad., W	primævum,	Forbes.	Radnorshire, Builth Bridge,		Cwm Bach, Builth (Wales)
OB.		TT 11	Dry Bridge (Horton).		
CS	primigenium,	nan.	(N.York,north-east)Mohawk River.		
	prolapsum,	Righton	Thuringia.		
H. R. G	prompsum,	Billings.	(Anticosti Isle) Charlton		
11. 14. 0	fulgur.	Dimingo	Point.		
CS., Tr		Billings.	(Can. W.) Lake Huron, La		
			Cloche, (Can. E.) Mont-		
			morenci Falls.		
	pseudo-regulare,	Portlock.	Reagh fadda, Tipperary(Ire-		
			land).		
Carad	pseudo-speciosun	n, Portl.?	Desertcreate (Tyrone).		
L. H. G	puncto-striatum,	Hall.			
	-			1	Arisaig (Nova Scotia).
Niag	Pylades,	Billings.			(Central Canada) Grimsby.
L.L		Sowerby.			Mocktree Hill (Herefordsh.)
Tr	Python,	Billings.	(Can. E.) Montreal, Kenyon	Control of the Contro	
D Dr			Township.		The state of the s
B., BL.	rapax,	"	(Canada West) Kingston.	(A-Harris G.W. D.)	
Div. 4, Antic. G.	raptor,	Tr.11	(Now York) Clinton Court	(Anticosti) S.W. Point.	The state of the s
CH. (Lst.)	rectiannulatum,		(New York) Clinton County.		
CH., BL	recucameratum,	"	(Can. E.) Murray Bay, (Can.		
			W.) Marmora, (N. York)		
			Clinton County, Highgate Springs, North Vermont.		
Pleta, Fauna E,	regulare	Schloth	(Esthonia) Réval, Baltisch-	Silesia (drift)	Bohemia, (Gothland)Klefv
W.	- Same,	Dona Otto	port, France, Norway ?,	Carrier (Carrier)	Mosseberg, Russia, Fran
			Fermanagh (Ireland).		conia (Barrande).
?	remotum,	Richter	Thuringia.		
and the second	,,	Salter.	(Portugal) Vallongo.		
Niag		Billings.			(Central Canada) Grimsby
B 2, Queb. G	repens,	Billings.	Phillipsburg (Canada East).		
L. H. G		Hall.			
		70.111	The same of the sa		mer County.
Niag	rotulatum,	Billings.			
		-			caming.
L. H. G	rudis,	Hall.			
					County.
0.10	O:	TOTAL	DL/III - L - (C - 1 T) ()		
Queb. G	Sayi,	Billings.	Phillipsburg (Canada East), Lake Champlin		

Subdivision.		Species, and author.	Lower Stage.	Middle Stage.	Upper Stage.
Niag	. Scammoni,	M'Chesney.			Bridgeport, near Chicag
Div. 1 & H. R. G	. Sedgwickii,		Anticosti Isle, west end		
W	· Sal	Forbes.			(Wales) Llansannan.
Llandov., U.L	. semipartitu	m, Sowerby.		Tonlegee (Galway)	Galt Township (CanadaW. (S.Wales)Felindre, Usk, &c
			Succession 7		Deerhope, Pentlands (Scot land).
Pleta, Corall. Lst	seps,	Eichw.	(Esthonia) Wesenberg, St. Petersburg (Russia).		
U.Tremad	. sericeum,	Salter.	(Wales) Garth, Tuhwynt-yr- bwlch.		
Div. L, Queb. G			(Newfoundl.W.) Point Rich.		
CH Div. 1 & H. R. G			Mingan Isles (G. St. Lawr.). (Anticosti) west end, Light-	(Anticosti) Gamache Bay.	221
?	simplex,	Desnoyers.	house.	(Sardinia) Flumini Mag-	
он			LakeWinnipeg (Rupert'sL.).	giore.	
?	sinuato-sept	um, Römer.	Thuringia (drift).		
?	sinuatum,	Richter.	Thuringia.	1	
Ning		m McChesney	Mingan Isles (G. St. Lawr.).		Bridgeport, Chicago (Illin.)
The state of the s	striatissimu	m, Salter.	Himalaya, Chorhoti Pass.		
3., BL., Tr	strigatum,	Hall.	(N. York) Middleville, High- gate Springs, N. Vermont.	and a full planting	
aunæ D, E. e	styloideum,	Barr.	Col. Krejci (Boh.), (France)		(Boh.) Butovitz, Thuringia.
1, 2, &c. Carad., U.L	subannulare	Münster	St. Sauveur le Vicomte. (Radnorsh.) Builth, (West-	(Sardinia) Flumini Mag.	(Bohemia) Dlauha Hora
oradi, Cibini	State Committee	, municon.	morel.) Coldwell, (Lanca-	giore.	Butovitz, (Westmoreland
		17.00	shire) Coniston, Ireland,		Brigsteer.
Carad. CH	subarcuatum	. Hall. Portl.	(Bohemia) Col. Krejci. (N.E. New York) Clinton	Marie Marie	PHARLES IN THE PROPERTY OF
		,,	County, (Can. E.) Corn-		
OT.	anh ant ala	Minston	wall, Montreal. (Can. W.) Mid. Ottawa R.		
3L?	subconoideu	m, Meneghini.	(Sardin.) Flumini Maggiore.		
orall. Lst	subcyprium,		, ,		(Russia) Petschora, Oust-
	land to the same		- and Labour and		Gukhta.
lan., L.L., U.L.	subgregariui	n, M'Coy.		(Ireland)Leenane &c.,Gal- way.	shire), Kington (Hereford- shire).
arad	subimbricatu	ım, Portlock.	(Ireland) Tyrone.	H. W. C. L.	suite).
?	subjunceum,	Meneghini.		Sardinia.	A 14
arad	submonilifor	me, ",	Pomeroy (Ireland).	(Sard.) Flumini Maggiore.	
	Poteriocer	as approxima-	comercy (areama).		
	tum.	D'Oubiens		MAT ALL DESIGNATION OF THE PERSON OF THE PER	(Fngl) Ludlow Toutmouth
H. G		Hall.			(Engl.) Ludlow, Tortworth. (N. York E.) Schoharie Co.
?	subtrochleate	um, Münster.		(Sard.) Flumini Maggiore.	
arad., Llandov.,	subulatum, l	Meek & Worth.	(Wales) Builth Bridge &c.,	Wales	Joliet (Illinois). Leintwardine, Ludlow, Mal-
W., L. & U.L.	subunitulatu	m. Portiock.	(England) River Onny,	vv ares	vern, Underbarrow (West-
			Coniston (Lancashire),	He fall to	moreland), (Wales) Llan-
			N.W. Yorkshire.		gollen, Craig-hir,&c., (Ire- land) Tirnaskea, Kilma-
Cale (Sept.)				and the same of th	culla, Co. Clare, Derry-
	Tallivignesi,	Parault	(France) Poligné.	The second second	more Glen.
75.00	tenerum,		Can. W.) Mid. Ottawa R.	CONTRACTOR OF THE PARTY OF	
	tenue,				Isle Oesel, Roodzekulle (Es-
					thonia), (Sweden) Mount Mosseberg.
.L	tenuiannulat	um, M'Coy.			Brigsteer (Westmoreland),
			Control of the Contro		Leintwardine, Aymestry
			2		(Herefordshire), Oernaut (Wales).
elth. Sh. Lst	»	Hall.	0 0 d 1) T		East New York) Albany Co.
auna E, Carad., W.	tenuicinetum	, Portlock.	S. Scotland) Lammermuir, Coniston (Lancash.), Cold-	England, (Irel.) Galway.	Kendal (Westmoreland) Di- nas Bran.
2		The same of	well (Westmoreland), De-	-	Into Art uni
				The second secon	Management of the second
			sertcreate (Tyrone), Tip- perary, Latteragh, Clare		

Subdivision.	Genus, Spec		Lower Stage.	Middle Stage.	Upper Stage.
CH Fauna E, Carad., U.Llandov.	tenuiseptum, tenuistriatum,	Hall. Münster.		(S.W. Scotland) Girvan, Haverfordwest (Wales).	Bohemia, Franconia (Barrande).
U.L	textile,	Phillips.	Ambleside.		Freshwater East (Pembrok
Tr?	tneca,	calter.	(New York) Watertown. Lower Silesia. Tasmania West.		shire).
Queb. G U.L	Tityrus, torquatum, tracheale, Cycloceras.	Münster.	Phillipsburg (Canada E.).		(Westmorel.) Kendal, Kirkl Moor, Howgill Fell, (Her fordsh.) Kington, (Wale Llandovery, Horeb Chape
Tr		Hall.	Thuringia. (New York) Trenton Falls.		Dinas Bran, Llangoller Stormhill.
U.L. Car., Col. Krejci.			Bohemia, Desertcreate, Ty-		Westmoreland, Norway, N & central Gothland, (Dale carlia) L. Siljan, Vicarby Tirnaskea? (Ireland).
L.Llandov., Tr	undulatum, M	urch., Hall.	rone.		(Gothland)Djupricken, Norway, Wisconsin, N.W. Michigan, (Canada West
	undulabellisins	tum Munah			Flamborough, Cape Hure Lake Huron, Tennesse (New York) Lockport &
L.Llandov., Tr		, Hall.	(N. Scotl.) Durness, Suther- landshire, (New York) Middleville, Upper Mis- sissippi River.		(S.W. Scotland) Daime.
Car., L.Llandov.	vagans,	Salter.	Westmoreland, (Lancashire) Coniston, (Wales) Bala.	(Wales) Builth &c.	
Carad	vaginatum,	Schloth.	England, (Scotl.) Ardwell, (Russia) Archangel, Lake Ladoga,&c., Esthonia, Thu- ringia, Silesia, Sweden.		
Niag	velatum,	and the second	Chair of Kildare (Ireland), (Wales) Rhiwlas nr. Bala.		(Central Canada) Grimsby.
W., L			Mingan Isles, Montreal(Can. E.).		(Wales) Corwen, Built
L.Llandov., Tr., L.	Creseis.		(N. York) Middleville, (Rupert's Land) Fort Garry,		Bridge, Bron Einion, &c
?.	verticillatum,Vo	nHagenow.	Missouri, Pennsylvania. Durness (N.W. Scotland).		Gothland.
CS Llandovery, L.,	veterator,	Billings.	(Can. W.) Oxford Township. Ireland.		the same of the sa
Niag.	annulatum,	Wahlenb.		Pass.	N.W.Michigan, (England Mocktree Hill, Malvern.
CL., Niag		Hall.		(New York) Reynale's Basin, Lockport.	-
W	Xerxes,	Billings.	Phillipsburg (Canada E.). (Can. W.) Ottawa City, (Anticosti I.) English Head.		oweden.
Tr	sp. ind. (6),	Hall.	Tasmania West. Point Lévis (Canada East).		(New York) Rochester.
Queb. G.))))	Leymerie. Logan.	(France) La Manche. (Pyrenees) Luchon. Point Lévis (Canada E.).		
	" (9)	Salter.	Isle Sardinia. Missouri, State of.		(Arctic Amer.) Griffith's Isle (Arct. Amer.) Beechey's Isle
Carad	"	Salter.	(Merionethshire) Bala Lake.		Plas Madoc (Wales).

Subdivision.	Genus, Sp Autl		Lower Stage.	Middle Stage.	Upper Stage.
	sp. ind.,	Coquand.	(Morocco, passim) Ceuta.		
L.Llandov	,,	Salter	(Wales)Portmadoc, Ty-obry.		
Carad	,,	,,	(Caernarvonshire) Dolwy-		in trottle
			ddalan &c.		
L. H. G	,,	Honeyman.			Arisaig (Nova Scotia).
M. Sa	,,	Hall		(New York) Lockport.	
	,,	Meek.			Kennedy's Channel (Arcti
					America).
Tr		Hall.	(New York) Middleville.	Market State of the State of th	
Pentam. Lst	**	. ,,,			(N. York E.) Schoharie Co
P., Tremad	**	Salter.	Ramsey I. &c. (S.W. Wales).		
Utica Sl	,,,	Hall.	(New York) Lewis County.		
	Phragmoce	ras, Broderi	(New York) Lewis County. p; Oncoceras, Hall. Tyrone (Ireland).		Substitution of the substi
		i, M'Coy.	Tyrone (Ireland).		T 1 1 T 11 T 11
L		Sowerby.			
Carad	Cyrtoceras.		T(T11)		Shelderton, Bohemia.
Carad	Drateri, I		Tyrone (Ireland).	and the second like the cold	
Dlata		Münster).			
Pleta		Somonhar	Lyckholm (Esthonia). (Esthon.)Wesenberg, I. Dago,	(Wales) Havenforderest	(Engl) Armostus Todhum
Plet., Tr., L.Llan- dov., W., L.L.	compressum,	sowerby.	(Wiscons.) Mineral Point.	England	(Wales) Presteign.
Pleta	conjour	Eicher	(Baltic) Isle Odinsholm		
W		Salter MSS	(Date) Isle Ounsioni.		Little Hope, Woolhop
	our accum,	Durior Misso.			(Sharpe).
Pleta	curtum.	Eichw	(St. Petersburg) Poulkova.		(Sim Po).
	eximium,	ALCOHOL: N	Lyckholm (Esthonia).		
**	flexuosum,	Schloth	Lyckholm (Esthon.), I Dago.		Barresson III and American
Guelph	Hector.	Billings.			Guelph Township (Can. W.
L.L	intermedium,	M'Coy.			(England) Leintwardine.
W., L		Sowerby.			(Wales) Usk, Plas Mado
					Middeton Hall.
Pleta?		Eichw.	(Baltic) Isles Dago and Oesel.		
Pentam, Lst				(Esthonia) Kattentak.	
Tr	præmaturum,	Billings.	(Can. W.) La Cloche, Lake		
T T		0	Huron, Mid. Ottawa River.		(FE -1) W 1-11 T 11
L.L	pyrnorme,	Sowerby.			(Engl.) Walsall, Ledbury
Pleta	na atiaanta tum	Dimen	(Baltic) Réval, Silesia.		Leintwardine, &c.
	Sphynx,		(Esthonia) Lyckholm, Pres-		
"	opilyna,	ocimiae.	qu'ile de Neuk.		
"	sulciferum,	Eichw.	(Esthonia) Lyckholm, Isle		
"			Oesel, Hohenholm.		
Carad., U.Llan-	ventricosum,	Sowerby.	(South Wales) St. Clair	Mayhill (England), Nor-	Bohemia, Gothland, (Engl.
dov., W., L.L.,	Broderipi.			way.	Aymestry, Dudley, &c
Faunæ E, G.					(Wales) Cardiff.
	sp. ind.,	Angelin?			Gothland.
L. H. G	**				
Corall.Lst.,Scho-	**	Hall.			New York (U. S. America)
harie.	Dilasana C	-W 1070			
	Piloceras, Se	Dillings	Mingan Isles and Newfound-		
Divs. F, G, CS	Canadense,	Dillings.	land, north-west.		
	gracile,		(Newfoundland N.)Schooner		
	5. done,	31	Island.		
L.Llan	invaginatum	Salter	(North Scotland) Durness.		
CS		Billings.			
Divs. H, I, Queb.	Triton,	,,	(Newfoundland N.) Pistolet		
G., CS.			Bay.		
Div. H, Queb.G.,	Wortheni,	,,	(Newfoundland West) Port		
CS.			au Choix.		
L.Llan	sp. ind.,		(North Scotland) Durness.		The state of the s
	. "		(Canada West) Kingston.		
N:	streptocera		866. See Phragmoceras.		(0 + 10 1) 0
Niag		Billings.			
	Janus,	on Pull			11 11
1440	Trematocer	Eichwal	Wesenberg (Esthonia).		
Pleta	Tretoceras,		resenterg (Escholita).		
Pleta	hisiphonetum	Sowerhr		(Wales) Llandovery Gor-	The state of the s
Pleta	ASSESSMENT OF THE PARTY OF THE	cowerby.		llwynfach.	
U.Llandov				1111/11111111111	T 11 - (T2 -1 1)
U.Llandov	semipartitum 2				Ludlow (England)
U.Llandov	semipartitum?	s. Hall 1852		••••••	Ludlow (England).
Pleta	semipartitum?	s, Hall, 1852.		•••••	(New York, east) Schohari
U.Llandov	semipartitum?	s, Hall, 1852. Hall.			(New York, east) Schonario
Pleta U.Llandov L Corall. Lst., Scho-	semipartitum ? Trochoceras Gebhardi,	Hall.	Builth (Radnorshire)		County.

Subdivision.	Genus, Species, and Author.	Lower Stage.	Middle Stage.	Upper Stage.
Corall.Lst.,Scho- harie.	turbinatum, Hall. Trocholites, Conrad. (L.			(N.York) Schoharie County
Tr., Ut. Slate		(New York) Canojoharie &c., Fort Snelling (Minnesota), Prairie du Chien (Wis- consin), Lorette (Can. E.).		
Upper Carad		Norway, (Denbighsh.) Myn- ydd Frons.		
Carad	flexuosus, Munster. Hibernicus, Salter.	(Baltic) Isle Odinsholm. " Isle Dago. Ireland. (Baltic) Isle Odinsholm.		

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Stage.	Genus, Species, and Author.	Locality.	Stage.	Genus, Species, and Author.	Locality.
	Cyrtoceras, Goldfuss,	1833.	E. e. 2	corbulatum. Bar	r. Karlstein, Hinter-Ko-
E. e. 1		Butowitz.			panina, Dvoretz, &c.
	acies,		,,	cordigerum, "	Lockhov.
E. e. 2	acinaces, ,,	" Dlauha Hora.		corniculum	" Karlstein,&c
	acutum, ,,	Karlstein.	G. g. 3	crassiusculum, "	Hlubocep.
	acyrtos, ,,	Viscocilka.	E. e. 2	cuneiforme, ,,	Lockhov, Hinter-Ko-
	adjutor, .,	Lockhov, Kozorz.		Contract of the Contract of th	panina.
F. f. 2	aduncum, "	Dvoretz, Konieprus.	,,	cyathus, ,,	Kozorz, Dlauha Hora
D. d. 4, 5	advena, ,,	Motol (Colony).	,,	cycloideum, ,,	
E. e. 2	æmulum, ,,	Lockhov.			Karlstein, &c.
,,	æquale, "	Lockhov, Viscocilka.		cyclostomum, ,,	Viscocilka, Butovitz.
,,	agnatum, ,,	Viscocilka.	E. e. 2	cylindraceum, "	Dvoretz.
,,	Ajax, "	Lockhov.	,,	Danai, "	Kozorz.
G. g. 1		Tetin.	,,	debile, ,,	,, Lockhov.
E. e. 2		Lockhov, Kozorz.	11	decipiens, ,,	Karlstein, Lockhov,&c
	Alphæus, "	Slivenetz.	,,	decurio, "	Slivenitz.
_ "	ambiguum "	Butovitz, Kozorz, &c.		delicatum, ,,	Lockhov.
E. e. 2		" Slivenetz.	,,,	derelictum, ,,	Kozorz,
"	Angelini, "	Hinter-Kopanina, Kon-	G. g. 3	Devonicans, "	Hlubocep.
		varka.		discoideum, "	Karlstein.
. "	anormale, ,,	Dvoretz.		discrepans, ,,	Lockhov.
G. g. 3	apertum, ",	Lhubocep.		discretum, ,,	Kozorz.
E. e. 2	baculoides, ,,	Kozorz, Lockhov, &c.	F. f. 1		Lockhov.
_ " _ 0	Baylei, ,,	Viscocilka, Lockhov, &c.		dives, ,,	Dlauha Hora, Dvoretz
E. e. 1, 2	Beaumonti, . "	Kozorz, Lockhov, &c.		dolium, ,,	Kozorz.
G. g. 1	bellulum, "	Lhubocep.	,,	dorsuosum, ,,	Lockhov.
E. e. 2		Dlauha Hora.	,,	electum, ,,	,, Viscocilka,&c
	bigener, ,,	,,	"	elongatum, ,,	,, DlauhaHora,&c
a " ?	Billingsi, "	" "	n	Eremita, "	Konieprus.
G. g. 3	Bolli, "	,, Lhubocep.	,,	errans, ,,	Butovitz. Dlauha Hora.
E. e. 2		Dvoretz.	F. 7. 1	esuriens, ,,	Lockhov.
0"0	bonum, ,,	Lockhov.		exesum, ,, exile, ,,	77
G. g. 3	Laurence and the	Lhubocep. Chotecz.	E. e. 2		
G. g. 1 E. e. 2	Cl	Dlauha Hora, Kozorz,	,,	expandens, ,, extenuatum, ,,	Kozorz.
E. c. 2	Camiliae, "	Lockhov.	"	Caller	,, &c.
	Conne		,,	Compaliano	Hinter-Kopanina.
"	Canna, ,, capuloides, ,,	Hinter-Kopanina. Kozorz.	E. e. 1, 2	Consistant	Karlstein, Butowitz.
		Vohrada.	E. e. 2	C	Bubovitz,
	Chatan	Butovitz, Viscocilka.	12. 0. 2	Cdam	Dvoretz.
AD. C. I	D-11	Viseocilka.	Carad E e 2	Doubert /Wales	Dlauha Hora.
E. e. 2	ainanna damana	Karlstein, Zmrzlik.	E. e. 2	Commidendum	Dvoretz.
	clava, ,,	Lockhov, Kozorz.	79	forte, ,,	Hinter-Kopanina, Ko-
E. e. 1, 2		Butovitz, Kozorz, &c.	"	"	zorz, Lockhov.
E. e. 2	cognatum,	Lockhov, ,,	E. e. 1	fortiusculum, ,,	Butovitz.
	concors, ,,	" "	The second secon	fortunatum, ,,	
,,	confertum, ,,	,, ,,	E. e. 2	fractum, ,,	Dvoretz.
,,	confine, ,,	" Kozorz.	"	fragile, ,,	Konieprus.
,,	consangue, ,,	Kozorz, Slivenetz, &c.	,,	fratrorum, ,,	HintKopanina, Lock-
	consimile, ,,	" Lockhov.	"		hov, Butowitz, &c.
",	conspicuum, "	Lockhov.	E. e. 1	fugax, ,,	Butovitz.
,,	constringens, ,,	Kozorz.	E. e. 2	Geinitzi, "	Kozorz, Lockhov.
		100000000000000000000000000000000000000			Karlstein.
,,	contrarium, "	Lockhov.	,,	gibbum, "	Karistein.

Stage.	Genus, Species, and Author.	Locality.	Stage.	Genus, Species, and Author.	Locality.
E. e. 2	grande, Barr	Lockhov.	E. e. 2	patiens, Ba	rr. Viscocilka.
G. g. 1	grave, ,,	Chotecz.	"	patulum, ,,	
	Halli, ,,	g "11 T	11	pergratum, "	
E. e. 2		Zmrzlik, Kozorz, &c.	7 . 1		cocilka, &c.
F. f. 2	Hebes, ,, heteroclytum, ,,	Slivenetz.	E. e. 1	Dhillingi	
E. e. 2	Hammani	Konieprus, Mnienian. Dlauha Hora.	E. e. 2	rillolne ,,	Translatain
	In conceptions	Butowitz.	D Col., E. e. 1,2	pheorus, "	TALL TE TO
,,	hospitale, ,,	Luzetz.	D Col., 12. c. 1, 2	piebeium, ",	&c.
	humile, ,,	Butovitz.	E. e. 2	Pluto, ,,	Dvoretz.
"	hybrida, ,,	Dlauha Hora, Lockhov.			Wisses allles
,,	ibis, ,,	Lockhov.		var. Castor	D. danida
"	Icarus, ,,	"	E. e. 2	potens, ,,	Dvoretz.
"	imbelle, "	" Kozorz.	E. e. 1, 2		Karlstein, Lockhov, &c
**	imbricans, ,,	on: "	E. e. 2	primitium, "	Lockhov.
"	impatiens, ,,	Slivenetz, Kozorz.		problematicum, "	Kozolup, Dvoretz, &c.
"	imperiale, ,,	Kozorz, Butowitz. Lodenitz.	E. e. 2 F. f. 1	2022 01 0	Kozorz.
"	imperatum, ,, indomitum, ,,	Lockhov, Slivenetz, &c.	F. L. 1	man immaanna	Lockhov, Slivenetz.
"	iman	Kozorz, Lockhof.	E. e. 2	model allows	Konieprus.
F. f. 1	in amma atatama			quasi-rectum, ,,	Dlauha Hora, Lock-
E. e. 2	infidum, ,,	Butowitz. "	"	1	hov, &c.
"	inflectans, ,,	Kozorz, Lockhov.	,,	var. contrarium, "	Kozorz &c.
,,	innoxium, "	Lockhov.	"	quidam, ,,	Hinter-Kopanina.
11	insociale, ,,	Kozorz, Lockhov.	,,	Ramsayi, "	, Ko
,,	intermedium, "	" Karlstein, To-			zorz, &c.
		bolka.		rarum?, "	Butovitz.
13	inversum, ,,	Lockhov.	E. e. 2		Lockhov.
"	invisum, ,, Iridis, ,,	Varietain Kozorz.		recurvum, ,, residuum, ,,	
" ?	lowe	Karlstein.	E. e. 2	matura flamouro	Hlubocep. Kozorz.
	Makeum .	Luzetz.		wimale	Lockhov.
"	lentigradum, ,,	Lockhov.		Roemeri, ,,	Kozorz.
"	lentum, ,,	Dlauha Hora.	G. g. 1	rotundum, "	Lockhov.
	var. sociale, ,,		E. c. 2	rugulatum, "	Kozorz.
	lepidum, "	Lockhov, Butowitz, &c.	- "	Salteri, "	Lockhov.
E. e. 2	lethæum, "	" Dlauha Hora.	G. g. 3		Hlubocep.
31	limosum, ,,	Dvoretz. Lockhov.	E. e. 2	secans, ,,	Zmrzlik, Hinter-Ko-
,,	"	Kozorz.		selectum,	panina. Lockhov, Kozorz.
"	Townston and the	Karlstein.		and the state of	Dlauha Hora.
		Butowitz.		semitectum, ,,,	Karlstein, Hinter-Ko-
G. g. 3	malefidum, .,	Hlubocep.	Market Ma	A.	panina.
E. e. 2	Marcoui,	Viscocilka.		serratum, ,,	Butowitz.
11	medullosum, "	Dlauha Hora, Kozorz.	E. e. 2	serum, "	Lockhov, Kozorz.
**	The state of the s	Lockhov, Kozorz, &c.		Sharyi, "	Slivenetz, Rzepora.
**	11	Kozorz.	F "	sica, ,,	Slivenetz, Rzepora.
	and an and	Luzetz. Slivenetz, Lockhov.	E. e. 2	-imarilana	Konieprus.
		Dvoretz.		Sinon, ,,	Hinter-Kopanina. Kozorz.
		Konieprus.		sinuatulum, ,,	Konieprus.
		Lockhov.		sociale, ,,	Dlauha Hora, Lock-
		Slivenetz, Dlauha Hora,			hov, &c.
	The second secon	&c.	,,	var. lenta, "	Dlauha Hora.
		Dvoretz.		solitarium, "	Dvoretz.
G. g. 3		Hlubocep.		Sosia, ,,	Jarov.
E. e. 2	nescium, ,,	Butovitz, Lockhov, Ko-	5	speciosum, ,,	Viscocilka, Lockhov,
	neutrum,	zorz. Viscocilka, Lockhov, Ko-	F. f. 1, 2	sporadicum	&c. Konieprus,Lockhov,&c
"	neutrum, ,,	zorz, &c.		strangulatum, ,,	Dvoretz.
	nigrum, "	Dvoretz.		twainle	
		Hinter-Kopanina, Ko-		subrectum, ,,	Lockhov.
100	Commence of the last of the la	zorz, Dlauha Hora.	,,	var. corniculum, "	" Kozorz.
7.7		Lockhov.	,,	Suessi, ,,	,,
1.5	nocturnum, .,	Kozorz.	n" o	sulcatulum, "	Vohrada, Butowitz.
- 18		Hinter-Kopanina.		superbum, "	Dvoretz, Karlstein.
	obonim	Butowitz,	77 0	superstes, ,,	Hlubocep.
E. e. 1, 2 E. e. 1	abanaman	St. Procop. Butowitz.	E. e. 2	tardum, "	Karlstein, Hinter-Ko- panina.
	abtusum	Vohrada.	Allegan and a	tesseratum, "	Dlauha Hora.
	and annual	Butowitz.		Thetidis, ,,	Viscocilka, Lockhov.
		Listice, Butovitz, Bubo-	"	, ,,	&c.
"	"	vitz, Luzetz.	,,	timidum, "	Kozorz, Lockhov.
		Kozorz.		Trilby, "	Lockhov.
11	Panderi, ,,	Dvoretz, Zmrzlik.	,,	truncum, ,,	Kaukalova Hora. Lockhov.
	parvulum, ,,	Kozorz, Lockhov, &c.		tumefactum,	

Stage.	Genus, Species, Author.	and	Locality.	Stage.	Genus, Species, Author.	and	Locality.
E. e. 2	ultimum	Barr.	Lockhov, Kozorz.	E. e. 2	ovum.	Barr	Viscocilka, Dvoretz
E. e. 1			Zmrzlik, Butowitz.			2000	Lockhov, Dlauh
	Uranus,		Tachlowic, Butowitz.		Control of		Hora.
E. e. 2	urhanum	**	Vohrada, Karlstein, Sli-	G. g. 3	neramplum		Hlubocep.
2. 0. 2	ur banum,	33	venetz, &c.	E. c. 2	pollene		Kozorz, HKopanina.
E. e. 1, 2	validum		Dlauha Hora &c.		racoma odania	"	Lockhov, Karlstein.
	velox,	22.	Bubovitz, Hinter-Kopa-	D. d. 5	porrectum,		Leiskov, Karistein.
** .T	velox,	27		E. e. 2.	primum,	**	
			nina, &c.				Lockhov.
"	verna,	27	Dlauha Hora, Hinter-	"	rectum,	22	Lockh., Kozorz, Dvoret
F - 1			Kopanina.	"	rigidum,	33	Dvoretz.
	vestitum,	33	Butovitz.	"	robustum,	"	Kozorz.
THE RESERVE THE PARTY OF THE PA	veteranum,	27	Kozorz.	n " o	rugosum,		Karlstein.
	victor,	99	Dvoretz.	F. f. 2	semiciausum,		Konieprus, Mnienian.
"	virgula,	99	Konieprus, Vohrada,	G. g. 3	senex,		Hlubocep.
- 1	***		Lockhov.	E. e. 2	simplex,	33	Karlstein, Lockhov.
	vittatum,	22	Konieprus.	33	singulare,	22	Kozorz.
	vivax,	"	Dlauha Hora.	33	Spei,	22	Lockhov.
"	zebra,	22	Lockhov.	33	sphærosoma,	"	Dvoretz.
	Gomphoceras,	Sow.	; Poterioceras, M. Coy.	"	staurostoma,	**	Kozorz.
E. e. 2	accedens,	Barr.	Karlstein, Hinter-Ko-	"	stigmatum,	40	Lockhov.
The same of the			panina.	"	striatulum,	"	Dvoretz,
**	ægrum,	27	Karlstein.	,,	tenerum,	"	Karlstein.
,,	Agassizi,	"	Dvoretz, Hinter-Kopa-	"	transgrediens,	,,	,,
and the second	B S		nina, St. Procop, &c.	,,	transversum,	22	Dvoretz.
"	Alphæus,	,,	Hinter-Kopanina.	"	tumescens,	,,	Dvoretz, Karlstein.
	amphora,	"	Karlstein, Lockhov, &c.	"	vellerosum,		HintKopanina, Dlaul
	amygdala,	22	Dlauha Hora, Dvoretz,	"	State and State .		Hora.
	.0		Karlstein, &c.	,,	Verneuilli,	***	Lockhov, Kozorz.
E. e. 1?	anonymum,	"	Butovitz.	,,	vespa,	"	Karlstein.
E. e. 2	atrophum.	"	Hinter-Kopanina, Dvo-	"	sp. ind. (young),		Dvoretz.
		"	retz, &c.	"	Goniatites, Ha	an (De	Haen), 1825.
	Belloti,		Kozorz, Bubovitz.	G. g. 3	ambigena,		Hlubocep.
	biconicum,	"	Hlubocep.		amœnus,		zzadocep.
E. e. 2	Billingsii		Dvoretz.	"	Bohemicus,	"	Hlubocep, Klukovit
A. C. W	Bohemicum,	22	Dvoretz.	**	L'onemicus,	22	Gross Morzin.
	capitatum,	23	Hinter-Kopanina.		crebriseptus,		Hlubocep.
		"	Karlstein.	F. 2, G. g. 3	orienus,	21	Hlabosep.
	centrale,	**	Karistein.	F. 2, G. g. 3	crispus,		Hlubocep, Konieprus.
"	cingulatum,	"	Lockhov, Kozorz, Vis-	G = 1 0 9 H	fooundus,	"	Hlubocep.
	1		cocilka.	G. g. 1, 2, 3, H.	recundus,	23	Hlubocep, Hosti
"	elava,	77	Lockhov, Karlstein, Ko-	h. 1.			Franta, Vavrovit
			zorz, Viscocilka, Dvo-				Pekarckovitz, Chotec
Old Town II and			retz.	T. C.O.	0.3-1:-		&c.
"	eonicum,	22	Lockhov, Karlstein, Vis-	F. I. 2	ndens,	22	Konieprus.
1				G. g. 1	ntuus,	**	Chotecz.
			Dvoretz.	G. g. 3	neglectus,	**	Hlubocep.
	consobrinum,	,,,	Lockhov, Karlstein.	- "	occultus,	"	
**	contrarium,	"	Kozorz, Viscocilka.	F, G. g. 3	plebeius,	"	Hlubocep, Cheyni
	conulus,	"	Bohemia.				Konieprus, Trzebot
,,	crassiventer,	**	Dlauha Hora.		Van Lynna and Carlot		&c.
	curtum,	,,	Hlubocep.	G. g. 3	simulans,	79	Hlubocep.
E. e. 2	cylindricum,	,,	Karlstein, DlauhaHora,	,,	solitarius,	"	"
	Breathannia .		Lockhov.	F. f. 2	solus,	,,	Konieprus.
,,	decurtatum,	,,	Kozorz.	G. g. 3	tabuloides,	**	",
.,	Deshayesi,	"	Lockhov.	F. f. 2, G. g. 3	verna,	**	Konieprus, Hlubocep
G. g. 3	emaciatum,	,,	Hlubocep.		Gyroceras, De	Konin	ck, 1844.
E. e. 2	extenuatum,	"	Karlstein.	F. f. 2, G. g. 1	alatum,	Barr.	Tetin, Konieprus, Mn
**	ferum,	**	Lockhov.		The state of the s		nian, &c.
	gracile,	"	Lockhov, Dvoretz.	G. g. 1	annulatum.	,,	Lockhov.
	gratum,	19	Bubovitz, Lodenitz.		circulare,	"	Chotecz.
	Halli,	"	Karlstein, Dvoretz.	G. g. 3	Devonicans,	"	Hlubocep.
- 33	Haueri,		Karlstein.		minusculum,	"	"
	imperiale,	"	Dvoretz, Novy Mlyn.	,,	nudum,		
	? incertum,	"	Hlubocep.	,,	proximum,	"	27
	incola,	"	Viscocilka, Lockhov,	G. g. 2, H. h. 1		"	Kozorz, Hostin.
		"	Slivenetz &c.	o. g. 2, 11. II. I	Hercoceras, B	arrand	e. 1865
	magmin		Hinter-Kopanina.	G. g. 3	mirum		Hlubocep,
	magnum,	"	Lockhov.		von irrogularo		
	mancum,	"		,,	Lituites Provi	nive 1	732." (The Bohemi
	marsupium,	"	Hinter-Kopanina.		Lituites, Brey	ha Cal	752. (The Bonemi
	microstoma,	"	Bubovitz, Lockhov &c.		species are of t.	ne Sub	genus Ophioceras,
"	mirum,	11	HKopanina, Zmrzlik,	72 . 1		D	J.W.
and a			&c.	E. e. 1			Königshof.
	Mumia,	"	Dvoretz, Slivenetz.	D. d. 1		22	Sancta Benigna.
	Myrmido,	",	Lockhov, HKopanina.	E. e. 1		"	Butovitz.
	nanum,	"	Lockhov.		Ophidioceras.		and the same of
	nuciforme,	"	Dvoretz. Lockhov.	,,	rudens, Ophidioceras.	19	Tachlovitz, Butowit

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Stage.	Genus, Species, and Author.	Locality.	Stage.	Genus, Species, and Author	and .	Locality.
E. e. 1	simplex Barr	Lockhov, Kozorz, Dlauha	E. c. 2	capax.	Barr	Kozorz, Slivenetz.
	Ophidioceras.	Hora, &c.	E. e. 1, 2, F. f. 2,	capillosum.	22	Butovitz, Konieprus,
		Viscocilka.	G a 1 2	cupinosum	33	Butovitz, Komeprus,
"		VISCOCIIKA.	G. g. 1, 2 E. e. 1, 2	conton		Viscocilka, Kozorz.
	Ophidioceras.	Taskhan Datasita	E. e. 2	captor,	**	Viscociika, Kozorz.
,,	tessellatus, ,,	Lockhov, Butovitz.			22	Dlauha Hora.
	Ophidioceras.		E. e. 1	carminatum,	25	Ratinka.
	Lituunculus, Barran	de, 1867.	E. e. 1, 2, G. g.	cavum,	"	Hinter-Kopanina, H
	DISCOCERAS.		3.			bocep, &c.
	Nautilus, Breynius,	732.	E. e. 2	centrifugum,	,,	Dvoretz.
7. g. 3	anomalus. Barr	Hlubocep.	" F f 2	circumrosum,	"	Lockhov.
2 6 2	Bohemicus, "	Konieprus, Lockhov,	"	circumsutum,		Dvoretz.
	Donemicus, ,,	Karlstein.	F. f. 2	citum	"	Konieprus.
	J		2.1.	1	22	TOTAL CONTRACTOR OF THE PARTY O
"	desideratus, ,,	Lockhov.	E. e. 2	clepsydra,	"	Karlstein.
"	Sacheri, Sternbergii, tyrannus, vetustus,	Lockhov, Smichov, &c.			23	
**	Sternbergii, ,,	Lockhov, Viscocilka.		columen,	**	Kozorz.
**	tyrannus, ,,	Lockhov, Slivenetz.		comatum,	**	Lockhov.
J. g. 3	vetustus, ,,	Hlubocep.	D. d. 1	complexum,	**	Rokitzan.
?	sp. ind., "	Bohemia.	E. e. 2	comptum,	"	Kozel.
	Nothoceras, Barrano				,,	Dvoretz.
7. g. 3	Bohemicum Barr	Hlubocep.	G. g. 3	concors.		Hlubocep.
8.0	Orthoceras, Breynius	1799	E. e. 1	concretum	"	Kozel.
			E a 9	confrontenii,	"	
Le. 2		Slivenetz.	E. e. 2		22	Dvoretz.
. g. 1	ablatum, ,,	Tetin.		conjugatum,	22	- "
l. e. 2	accedens, ,,	Ratinka, Lockhov.	>1	connexum,	,,	Lockhov.
,,	Acis, "	Kozorz, Butovitz.		consobrinum,	,,	
	Actaon	Kozorz.	G. g. 3	consolans,	"	Hlubocep.
ol. D. d. 3, E.	acuarium?, ,,	Lockhov.	E. e. 2	conspicuum		Dlauha Hora.
e. 2	,, ,, ,,	Docariov.		and the state of t	97	Listice.
		Taskhan Datamita	E. e. 1	contextum,	7.7	Butovitz.
č. e. 1, 2	requare, ,,	Lockhov, Butowitz.	E. e. 1	contranens,		Butovitz.
	var. Panderi.			(var. of pellucid	(um.)	
. e. 2, G. g. 1,	Agassizi, ,,	Lockhov, Hlubocep,	E. e. 2	contrarium,	Barr.	Kozel.
3.		Branik.	E. e. 1	contrastans,	,,	Butovitz.
C. e. 2	alpha, ,,	Konieprus.	D.d.5, Col. F.f.2	contumax.	,,	Konieprus.
		Vohrada,	E. e. 1, 2	conviva	-	Konvarka, Butowitz.
"	lticola	HintKopanina, Kozorz	E e 2	convolvulue	"	Kozorz.
" ". f. 2	ilticola, ,,			convolvarus,	"	Lockhov.
. 1. 2	dumnus, ,,	Konieprus.	"	corticosum,	"	
l. e. 2		Lockhov.		crinoideum,	22	Karlstein.
. e. 1, 2	ambigena, ,,	,,		culter,	**	Lockhov, Konieprus.
i. e. 1, 2	amœnum, "	Lockhov, Butovitz.	D. d. 5, E. e. 2	currens,	"	Dlauha Hora, Slivene
. g. 3	nalogum, "	Hlubocep.	E. e. 2	curtum,	,,	Kozel.
Le. 1, 2	nnulatum. Sowerby	Dvoretz, Butovitz.			,,	Lockhov, Konieprus.
l. e. 2	nomalum Barr	Karlstein.	E. e. 1	debilitatum.	"	Butowitz.
. e. 1, 2	neriens	Lockhov, Butovitz.	E. e. 1, 2	deciniens		Dlauha Hora, Kozorz
	(var. of transiens.)	Localiot, Dutotte.	F. f. 1	docoming,		Lockhov.
l. e. 2	(var. of transiens.)	Viscocilka, Listice.	E. e. 1	decorum,	32	Butowitz.
. 0. 2	phragma, ,,		E. C. 1	decurtatum,	22	
g. 1		Tetin.	E. e. 2		**	Viscocilka.
. e. 1, 2		Rzepora, Bubovitz.	G. g. 1			Cheinitz.
. e. 2 a	approximans, "	Lockhov, Slivenetz.	F. f. 1		,,	Lockhov.
The state of the s	(var. of Hærnesi.)		E. e. 2	despectum,		Konieprus.
,,	raneosum, "	Dlauha Hora, Kozorz,	F. f. 2			
"	, ,,	Hinter-Kopanina.	E. e. 2		"	Hinter-Kopanina.
. g. 3	Archiaci	Hlubocep.	F. f. 2	discreture		Konieprus,
d. 1	weiteman		E. e. 1	dicionetoro		Butowitz.
6.0	l manua	Vosek.			33	Dutowitz.
. f. 2	Argus, "	Konieprus.	n".	dispar,	"	?
. e. 1, 2	Arion, ,,	Kozorz, Slivenetz.	D. d. 5	disruptum,		Leiskov.
. e. 2 s	sparagus, ,,	Dvoretz.	E. e. 2		,,	Dvoretz, Karlstein.
	stutum	Lockhov.		dominus,		Konieprus.
. e. 2, G. g. 1	Bacchus, ,,	Lockhov, Dlauha Hora,	E. e. 2	Doricum.		Viscocilka.
	THE STATE OF THE S	Tetin.		dorsatum,		Lockhov.
. g. 1	oaculus, "	Tetin.		dorulites,	"	Lockhov, Kozorz.
1	na mha mum	Dvoretz, Tetin.		dulce,	**	Branik, Karlstein, K
. e. 2	i Cdum		15. 6. 1, 2	ituice,	11	
	oifidum, ,,	Hinter-Kopanina.	T C	1 1		zorz, Dvoretz.
	oifrons, "	Kozel.	E. e. 2			Viscocilka, Konieprus
	Billingsi, ,,	Slivenetz, Kozorz.	E. e. 1, 2			Butovitz.
	oipellis, ,,	Viscocilka.	G. g. 1			Chotecz.
. d. 4, 51		Liëben, Lodenitz, Vraz.	G. g. 3			Hlubocep.
. g. 3	Dohamianna	Hlubocep.	E. e. 1, 2	electum.		Lodenitz, Butovitz.
e. 1, 2	Dohamiana	Lockhov, Karlstein,	E. e. 2	emeritum		Lockhov, Kozorz.
	bonemicum, ,,					
3.1		Dvoretz.		emicans,		Kozorz.
. d. 1		Vosek, Rokitzan.	E. e. 1			Kozel, Vohrada.
. e. 2	Bronni, .,	Kozorz.		epulans,		Butowitz.
. h. 1	oubo,	Trubsko.	G. g. 2, H. h. 1			Hostin, Hlubocep.
e. 1	nduonum	Kozel, Col. Krejci.	D. d. 5	erosum.	1	Königshof.
	mlabe	Konieprus.	E. e. 2	Ervy		Dlauha Hora.
e. 2		AND REPORT UP 1	Ant to Managerassasses	are y day	99	Diadia Hola.
. e. 2	(var. of dulce.)		E. e. 1, 2, G. g. 1		,,	Viscocilka, Kozel, Loc

Stage.	Genus, Species, and Author.	Locality.	Stage.	Genus, Species, and Author.	Locality.
D. d. 5	evictum. Barr	Leiskov.	F. f. 2	lenidulum Rom	Konieprus.
G. g. 1	evisceratum	Chotecz.	Col. D. d. 5, E.	libonum	Viscocilka.
E. e. 2	Control of the Contro	Dvoretz.	e. 2	liberum, "	VISCOCITEG.
			P . 1 0	1244 1	D. t. it. V
 F. ř. 2	evolvens, ,,	Konvarka.	E. e. 1, 2	littorale, ,,	Butovitz, Kozors.
. "	exaratum, ,,	Lockhov.	E. e. 2		Kozorz, Karlstein.
F. f. 2	excussum, ,,	Konieprus,		longulum, ,,	Hinter-Kopanina.
E. e. 2	eximium, ,,	,,	E. e. 2, F. f. 2,	loricatum, ,,	Dvoretz, Tetin.
,,	exoticum, ,,	Kozorz.	G. g. 1, 3.		
**	explanans, ,,	Kozorz, Lockhov.	E. e. 2	Losseni	Gross Kuchel.
		Karlstein.		land attacks	Kozorz, Lockhov.
77		Hinter-Kopanina.			
	extenuatum, "	Tinter-Kopanina.	"	lupus, ,,	,,
	extraneum, ,,	Lockhov, Kozorz.		(var. of alticola.)	-
	extremum, ,,	Dvoretz.	"	Lychas, "	Lockhov.
"	famulus, ,,	Hinter-Kopanina.	,,	lynx, ,,	,,
D.d.5, Col. E.e.2	fasciolatum, ,,	., .,	11	mactum, "	Konieprus.
G. g. 3	felis, ,,	Hlubocep.		magister, ,,	Dvoretz.
E. e. 2	fidum, "	Konvarka.			Dlauha Hora.
	Commence	Kozorz, Dlauha Hora.	,,	(var. of senile.)	Diamin Troiti
E. e. 1	0 1 1		72 . 1		Butowitz.
E. e. 1	fistula, ,,	Butovitz.		maneum, ,,	
D. d. 2, 4		Mt. Drabow, Lodenitz.	G. g. 1	Martium, ,,	Tetin.
E. e. 1		Butowitz.	E. e. 2		Viscocilka.
	(var. of styloideum.)		G. g. 1	Mercurii	Tetin.
E. e. 2	(var. of styloideum.) Ganymedes, ,,	Lockhov, Viscocilka.	E. e. 2	Michelini, .,	Lockhov, Karlstein.
	CI .	Dlauha Hora.		The Account of the Control of the Co	Viscocilka.
,,	(var. of Janus.)	L. J. Miller L. L. Ville.	G. g. 1	MCJ.	Tetin.
	CU. 1. 12	Dutomite	W . 1 0	Midas, ,,	
	Giebeli, "	Butowitz.	E. e. 1, 2		Slivenetz, Lockhov.
	grave, "	Dvoretz.	"	mimus, "	Kozel, Lockhov.
,,	gravidum, "	",	E. e. 2	minoratum, ,,	Lockhov.
E. e. 1, 2	Grewingki, "	Dlauha Hora.		Minos,	Karlstein.
E. e. 2	Gruenewaldti, "	Lockhov, Tobolka.	G. g. 3	miserum, ,,	Hlubocep.
		Dlauha Hora.	E. e. 2	In the same	Viskocilka.
G. g. 3	gryphus, ,,	Hlubocep.			Kozel, Konieprus.
G. g. o	gurgitum, "		E. e. 1		Tarklan Barrens
E. e. 1		Viscocilka.	D. 5, Col. E. e.	Morrisi, ,,	Lockhov, Rzepora.
,,	hastile, ,,	Kozel.	2.		
E. e. 2	Heberti, ,,	Hinter-Kopanina, Vis-	E. e. 2	mundum, ,,	Karlstein, Hinter-Ko
		eocilka.			panina.
	helluo, "	Lockhov.	D. d. 5, Col. E.	Murchisoni,	Dvoretz, Kozorz, Loc
E. e. 1, 2	Hoernesi	Kozorz, Slivenetz.	e. 2.	Deuremooni, ,,	hov, Konieprus.
		Mnienian.	E. e. 2		Dvoretz.
F. f. 2				mus, ,,	Karlstein.
E. e. 2		Karlstein.	99	mutabile, "	
	Hylas, "	Smerlik.	_ "	Myrmido,	Lockhov.
,,	ignotum, "	St. Procop, Rzepora.	D. d. 1		Vosek.
E. e. 1	illudens, ,,	Butowitz,	E. e. 2	nemo, ,,	Luzetz, Lodenitz.
E. e. 2		Viscocilka.	G. g. 1	Nepos,	Tetin.
	1	Karlstein.	E. e. 2	Nentunieum	Dlauha Hora, Lockho
E. e. 1	0.1	Butovitz.		Namaidam	77 1
D. J. 5	impericiens, .,		"		Karlstein.
D. d. 5	importunum, "	Trubsko.	,,	Nestor, "	
E. e. 2		Lockhov, Kozorz.	- "	nobile, ,,	Dlauha Hora.
G. g. 2		Vavrovitz, Hlubocep.	D. d. 1	novator, ,,	Vosek.
E. e. 2		Slivenetz.	E. e. 1, 2	novellum, ,,	Dlauha Hora.
E. e. 1, 2	incultum, ,,	Kozorz,	F. f. 2		Konieprus.
G. g. 1	incumbers	Chotecz.	G. g. 1	nugay.	Branik.
E. e. 2	1	Hinter-Kopanina.	E. e. 2	oblitum ,,	Viscocilka.
E. C. 2		IIInter-Kopanina.		-b	Königshof.
	(var. of truncatum.)	**	D. d. 5		
.99.	indocile, ,,	Kozorz.	E. e. 1		Butovitz, Slivenetz.
,, 19.	infirmum, ,,	Dlauha Hora.	E. e. 2		Hinter-Kopanina.
	infundibulum, "	Lockhov, Karlstein.		occludens, ,,	Luzetz, Lodenitz.
D. d. 4	in many street	Lodenitz.	D. d. 1		Vosek.
E. e. 2	Carrie a de a deserva	Tachlowitz, Dvoretz.	E. e. 1, 2		Karlstein, Branik, Dy
	1	Kozorz.	As. c. 1, a	(var. of dulce.)	retz.
"	inops, ,,		T . 0	i	Konieprus.
	insectum, ,,	Karlstein.	E. e. 2		Chatas Variation
**	insons,	Lockhov.	G. g. 1, 2, 3, H	opimum, "	Chotecz, Vavrovitz.
"	interferens, ,,	Novy Mlyn.	h. 1.		-
E. e. 1	intermittens, .,	Butowitz.	G. g. 1	orca, ,,	Tetin.
	intermixtum, ,,	Lockhov, Kozorz.	D. d. 5, Col. E	originale,	Karlstein, Lockhov.
	Induitant	Butowitz.	e. 1, 2, G. g. 1		
E. e. 2	in mileson.	Tachlowitz.	E. e. 1, 2	Palemon	Butovitz, Kozorz.
	Tomas		P. C. 1, 2	Palemon, ,,	Konieprus.
. " .	Janus, ,,	Viscocilka, Kozorz.	F. f. 2		Komeprus.
	Jonesi, ,,	Butowitz.	.,,	palus, "	T 11 D
E. e. 2		Vohrada.	E. e. 1, 2		Lockhov, Butovitz.
.,	jucundum, - ,,	Dvoretz.	F. f. 2	parallelum, ,,	Konieprus.
	V:10	Butovitz.	E. e. 2	particeps, .,	Dvoretz.
	The annual of	Tetin.			Viscocilka.
	1	Lockhov, Slivenetz.	F. f. 2, G. g. 3	passer, ,,	Hlubocep.
E. e. 2	. lancea, "		F. 1. 2, O. g. 3	. pastinaca, ",	Konieprus, Mnienian
E. e. 1	. latusculum, "	Butowitz. Kozorz, Lockhov.	F. f. 2, G. g. 1 2, 3.	, patronus, ,,	Komoprus, armeman
E. e. 2					

Stage Genus Species and Author Locality	1	1 0 0 :	-	1	1	I a	,	
E. e. 2		Author.	and	Locality.	Stage.		nd	Locality.
E. e. 2, F. f. 2 pelagium, Kozel	F. f. 2	pauper,			E. e. 2		Barr.	Kozorz, Dlauha Hora.
E. e. 1, 2 pelucidum, E. e. 1, 2 pereiricum, E. e. 2 pereiricum, E. e. 2 princes, placidum, poolice, and placidum, placidum, placidum, placidum, placidum, poolice, and placidum, placidum, placidum, placidum, placidum, poolice, and placidum, placidum, poolice, and placidum, placidum, placidum, placidum, placidum, placidum, poolice, and placidum, placidum	E. e. 1				"			Lockhov, Kozek.
Horal Butvitt, Kozorz E. e. 2 Servenum, Daluh Horal Signatulum, Konieprus Signatulum, Signatulum, Konieprus Signatulum, Sign	E 2 Ff 9	pedum,			D 3 5 Col	serratulum,		
E. e. 1	2. C. 2, F. 1. 2	peragrum,	**	Hora.	E. e. 2	Severum.		
E. e. 1	E. e. 1, 2	pellucidum,	.,				"	
E. e. 2	E. e. 1	penetrans,			F. f. 2	signatulum,	,,	Konieprus.
E. e. 1 — Pieteti, pilgus, pil	D. d. 1	peregrinum,			E. e. 1	Simois,	**	
E. e. 1	E. e. 2	Pieteti			E. e. 1, 2	Sinon,		
panina. E. e. 1, 2 pinguis, (var of teres.) placens, placedum, placens, placedum, placens, placedum, placens, placedum, placens, placens, placedum, polysema, placekhov, placekhov, placekhov, placema, placekhov, placema, placekhov, placema,	E. e. 2	pileus.			e. 1. 2	. socium,	"	" Diauna Hora.
E. e. 1, 2 — placetum, placens, placens, placens, placens, placedum, placidum, portics, portices, placidum, portics, placidum, portics, portices, placidum, portics, placidum, portics, placidum, portics, placidum, portics, portices, placidum, portics, placi		Pricus	"		D. d. 1, 4, 5	sodale,	,,	Leiskov, Vosek.
E. e. 1. 2	"	pinguis,	11	Konieprus.	E. e. 2	solitarium,		
Butovitz, Lockhov, Deleurotomun, Butovitz, Lockhov, Dolles, Carlos, Ca	P - 10	(var. of teres.)		V: 1 211	"		19	Konieprus.
Beurotomum, Deurotomum, Dovertz, Dov		placens,			E " 1	and an laws	1999	
Be c. 2	707				E. e. 2	enlandidum	777	
E. e. 2 — poellum, polyterena, polyterena, polytyrena, polytyrena, porties, mental porties, potens, po			"		D. d. 5, Col., E.	comemulatum.		Viskocilka, Dvoretz.
polytgaster, polytrema, polytrema, porderosum, porties, porties, porties, porties, porties, porties, porties, potential, porties, potential,	E. e. 2		,,		e. 2.			
Dauba Hora. Dobreta. Dobret			11	Hinter-Kopanina.		Claum Land	2000	
D. d. 4 Dorderosum, porties, portie					19	Sternbergi,	"	
D. d. 4						Stokesi.		
D. d. 4 pracess, pracess, Roberts Roberts D. d. 5, Col., E. Styloideum, Barr Butoritz, Colemitz F. f. 2 pracess, production, production, production, proposed pracess, production, proceedings, production, proposed pracess, production, pr				Kolednik.	E. e. 1, 2	striato-punctatum,		
E. e. 1. — præda, g. g. g. g. præyer,		potens,		Butovitz, Slivenetz.		Müns		
G. g. 1	D. d. 4	præcox,	"		D. d. 5, Col., E.	styloideum, B	arr.	Butovitz.
F. f. 2	G g 1	præda,				subannulara Mana	ton	Dlauba Herra
E. e. 1. 2 prases, prastans, praces, pracetains, praced and praced	F. f. 2	præpotens.		Konieprus.	G. g. 1	subjectum. Buns		
E. e. 2	E. e. 1, 2	præses,		Butovitz.	E. e. 2	subnotatum,	,,	Hinter-Kopanina.
E. e. 1, 2	E. e. 2	præstans,		Gros Kuchell.		suboriens,	,,	Dvoretz.
E. e. 2 princeps, princeps, D. d. 5, Col. pristinum, Beranka. D. d. 5, Col. pristinum, Beranka. D. voretz. E. e. 2 probum, properlum, productum, productum, productum, protendens, prosperum, protendens,	E. e. 1, 2	prævalens,				- Lateral	- 1	II-lin
D. d. 5, Col. pristinum, Beranka. Dvoretz, Butovitz, E. e. 2 procellum, Prosperum, Protendens, E. e. 1, 2, F. f. g. g. g. 1. Lockhov. Viskocilka. E. e. 2 temperans, Lockhov, Viskocilka. Terminus, Lockhov, Viskocilka. Terminus, Lockhov, Viskocilka. Terminus, Lockhov, Viskocilka. Terminus, Lockhov, Viskocilka. E. e. 1, 2 Tirinarium, Tirinari	D. d. 1	primum,				and dila	"	
E. e. 2	D. d. 5. Col	princeps,				Suggei		Lockhov. Dvoretz
F. f. 1	E. e. 2	probum,			E. e. 1	sylphoideum,		Kozel.
E. e. 2 proclimus, proteinus, prodectum, protendens, properum, protendens, properum, protendens, protected, properum, protendens, protected, properum, protendens, protected, properum, protendens, protected, protected, properum, protected, protected, properum, protected, prot	F. f. 1	procerulum.		Butovitz.	E. e. 2	tæniale,	,,	
Deckhov Deck	E. e. 2	proclinus,				Telephus.		
Prosperum					G. g. 2	tenforme,	27	
Protendens, 2, G, g, 1. Pseudo-calamiteum, 3, Ps	1434					tomos		Konieprus Kozorz
E. e. 1, 2, F, f, 2, G, g, 1. E. e. 2		protendens.				Terminus,	.,	Lockhov.
2. G. g. 1. E. e. 2	E. e. 1, 2, F. f.	pseudo-calamiteum,	119		G. g. 1	Tetinense,	,, /	
F. f. 1	2, G. g. 1.			Dll. Tr	E. e. 1, 2	Tiphys,	,,	Lockhov, Dvoretz.
F. f. 2, G. g. 1, 2 pulchrum, g. e. 2 pulcolum, g. g. 3 transiens, g. Kozel, Butovitz. Hlubocep. triste, g. g. 3 Trinacrium, triste, g. g. 3 Tritonum, Kozorz, Slivenetz. Le. e. 2 triste, g. Tritonum, Kozorz, Slivenetz. Le. e. 2 Lockhov, Viskocilka. Tritonum, Kozorz, Slivenetz. Lockhov, Viskocilka. Lockhov, Viskocilka. Lockhov, Viskocilka. Lockhov, Viskocilka. Lockhov, Viskocilka. Lockhov, Viskocilka. Tetin. Lockhov, Viskocilka. Lockhov, Viskocil			5007			twomofourne	1	
E. e. 2					E. e. 1. 2	transiens.	"	
Putcolum, radix, radix, radix, redix. Tetin. Tetin. Putcolum, radix, redix. Tetin. Putcolum, redix, redux, relapsum, relapsum, relapsum, relapsum, relapsum, repetitum, repetitum, repetitum, repetitum, repetitum, revertens, revertens, revertens, respective, rigescens, respective, re	E. e. 2	pullens,			G. g. 3	The same and same	1	
G. g. 1 redix, rectissimum, rectissimum, rectissimum, redux, relapsum, reluctans, reportitum, repetitum, repetitum, revertens, revertens, respectitum, revertens, revertens, respectitum, respectitum, respectitum, respectitum, respectitum, respectitum, respectitum, revertens, respectitum, revertens, respectitum, respectitum, revertens, respectitum, respectitum, revertens, respectitum, respectitum, revertens, respectitum, respecti	,,	Puteolum,	,,			triste,	.	,,
G. g. 3	G. g. 1	radix,	"		E. e. 2	Tritonum, ,	.,	
Care		modure	"		D. d. 5, Col., E.	truncatum, ,	,	
G. g. 1 reluctans, renovatum, repetitum, repetitum, repetitum, repetitum, repetitum, repetitum, repetitum, revertens, repetitum, revertens, revertens, revertens, revertens, respective repetitum, repetum, repetitum, repetum, repetu	G. g. o	nolonoum		ливосер.	E. e. 1. 2	tumidum.	1	
G. g. 1, 2				Branik, Tetin.	D. d. 5, Col., E.	valens,	1	
Righteri Righteri Richteri	G. g. 1, 2	renovatum,	"	Vavrovitz.	e. 1, 2.			
E. e. 2	т".	repetitum,	,,		G. g. 1	veles, ,		
E. e. 2, F. f. 2, rigescens, G. g. 1. E. e. 2	H. h. 1	Diehtoni	27		E. e. 1	ranno i a	1	
E. e. 2, F. f. 2, rigescens, G. g. 1. E. e. 2	In C. 2	wienteri,	"			ramontila	1	
G. g. 1. E. e. 2	E. e. 2, F. f. 2,	rigescens,			D. d. 1	notonomism	1	
E. e. 2 rivale, E. e. 1 robustulum, E. e. 1 robustulum, E. e. 1 robustulum, E. e. 1, 2 robustum, F. e. 2 rude, E. e. 1, 2 sacculus, E. e. 1, 2 sacculus, E. e. 1, 2 sarcinatum, D. d. 5, E. e. 2 Saturni, E. e. 2 Schmidti, F. f. 2 victima, F. f. 2 victor, G. g. 3 victor, F. f. 2 virescens, F. f. 2 virescens, F. f. 2 visitatum, F. f. f. 2	G. g. 1.	The same of the sa			E. e. 1, 2	Vibragei,	, 1	Butovitz.
E. e. 1, 2 robustum, ", Lockhov, Hinter-Kopanina. E. e. 2 rude, ", Butovitz. E. e. 1, 2 sacculus, ", Lockhov, Butovitz. E. e. 1, 2 sarcinatum, ", Butovitz. D. d. 5, E. e. 2 Saturni, ", Schnuri, ", Schnuri, ", Scutigerum, ", Scutigerum, ", Scutigerum, ", Scutigerum, ", Semilave, ", Kozel. E. e. 2 semilave, ", Kozel. Lockhov, Hinter-Kopanina, Col. ", Viskocilka, Gross Konieprus. E. e. 2 visitatum, "Viskocilka, Gross Konieprus. Volborthi, ", Volborthi, ", Volborthi, ", Volder, ",					G. g. 3	vicarians, ,,	, I	
E. e. 2		no bunotumo			F. f. 2	rioton	T	
E. e. 2 rude, E. e. 1, 2 sacculus, D. d. 5, E. e. 2 Saturni, E. e. 2 Schmidti, Schnuri, Schnuri, Schnuri, Scutigerum, D. d. 5, Col semilave, E. e. 2 Semilave, E. e. 2 Semilave, Semilave, Semilave, Sacculus, Sutovitz. Lockhov, Butovitz. Butovitz. Sutovitz. Sutovitz. Sutovitz. Sivenetz. Sivenetz. Visitatum, Visitatum, Volborthi, Vulgare, Vulgare, Vulgare, Vulpes, Vulpes, Vulpes, Vulpes, Visitatum, Svulgare, Vulpes, Vulpes, Volowardi, Skozolup. Vanthus, E. e. 1 Xanthus, Semilave, Semilave, Woodwardi, Semilave, Semilave, Semilave, Semilave, Semilave, Semilave, Sacculus, Selection Sivenetz. Slivenetz. Slivenetz. Slivenetz. Slivenetz. Slivenetz. Slivenetz. Slivenetz. Semilave, Semilave	12. C. 1, 2	obustum,	"		G. g. 3	victor, "	T	
E. e. 1, 2	E. e. 2	rude,			E. e. 2	ninitates toron	T	Viskocilka, Gross Kuc-
E. e. 1 sarcinatum, D. d. 5, E. e. 2 Saturni, Schmidti, Schnuri, Schuri, Schur	E. e. 1, 2 s	sacculus,				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		hell.
E. e. 2 Schmidti, Schnuri, Schnuri, Scutigerum, Scutigerum, Seminanulatum, Rzepora. E. e. 2 seminanulatum, Kozel. E. e. 2 seminanulatum, Schnuri, S	E. e. 1 s	sarcinatum,	,,	Butovitz.	17.			
E. e. 2 Schmidti, , , Slivenetz. F. f. 2 Woodwardi, , , Konieprus. Schnuri, , , , scutigerum, , , Viskocilka. E. e. 1 Xanthus, , , , Konieprus. Butovitz. , , Konieprus. E. e. 2 semiannulatum, , , Kozel. E. e. 2 bellatulum, Barr. Viskocilka.	D. d. 5, E. e. 28	Saturni,	,,					
Schnuri, Scutigerum, Scutigerum, Seminnulatum, Rzepora. E. e. 2	Ee2	Schmidti	2	Krejci. Slivenetz		Woodmandi	T	
D. d. 5, Col semiannulatum, Kozel. E. e. 1, 2 zenatum, Konieprus. Phragmoceras, Bro derip. E. e. 2 bellatulum, Barr. Viskocilka.	16	Sohmuni	7,0			Vanthua	T	
D. d. 5, Col semiannulatum, ,, Rzepora. E. e. 2 semilæve, ,, Kozel. E. e. 2 bellatulum, Barr. Viskocilka.	8	scutigerum,	,,	Viskocilka.	E. e. 1, 2 2	enatum, ,,		" Konieprus.
T 11 - 12 - 12 - 12 - 12 - 12 - 12 - 12	D. d. 5, Col s	semiannulatum,	,,	Rzepora.		Phragmoceras, B		lerip.
" semiplanum, " Locknov. " bieinetum, " "	AND DESCRIPTION OF THE PARTY OF		10		1	dain dum		
	" 8	semipianum,	"	Locknov.	"	nemetum, ,,		"

St	age.	Genus, Species, Author.	and	Locality.	Stage.	Genus, Species, a	and	Locality.
E. e. 2		bi-impressum,	Barr.	Tobolka, Bubovitz, Ko-	E. e. 2	Archiaci,	Barr.	Lockhov.
				zorz.	,,	arietinum,	,,	Kozorz, Hinter-Kopa-
E. e. 2,	G.g. 3	Broderipi,	,,	Lockhov, St. Ivan, Bu-	"		"	nina, &c.
			"	tovitz, &c.		asperum,	**	Viskocilka, Slivenetz, &c
E. e. 2		var. sublæve,	"	Hinter-Kopanina.		elavum.	**	Lockhov.
E. e. 1.	. 2	callistoma,	"	Butovitz, Vohrada, &c.	000	crassius,	,,	
			,,	Hlubocep.	F. f. 2	Davidsoni.	",	Konieprus.
		Conradi,	"	Lockhov, Kozorz, Hin-	E. e. 2	debile.	,,	Slichov, Dvoretz, &c.
	10000	Control of the Contro	"	ter-Kopanina.	E. e. 1, 2	degenerum.	**	Lockhov.
		desideratum,	.,	Butovitz.	E. e. 2	disjunctum.	**	" Kozorz,
G. g. 3		Devonicans,	,,	Hlubocep.	G. g. 1	distortum.	,,	" Tetin, Branik, &c
E. e. 2		discrepans,	***	Lockhov.			17	Tetin.
G. g. 3		Forbesii.	**	Gelinek, Burian, Hlu-	E. e. 2	Hoernesi,		Kozorz.
		Particular Control		bocep.	E. e. 1	imperfectum,	11	Viskocilka.
E. e. 2		globulosum,		Dlauha Hora.	E. e. 2	inclytum.	23	Hinter-Kopanina.
G. g. 3		gutturosum,		Hlubocep.		San and the san an	***	Lockhov.
E. e. 1		imbricatum,	,,	Viskocilka, Butovitz.	F "	mancum,	,,	Konieprus.
E. e. 2		infaustum,	.,	Lockhov, Kozorz.	E. e. 2	minus.	,,	Lockhov.
,,		insolitum,	.,			mirandum.	"	Karlstein.
**		labiosum.	,,	Konieprus, Hinter-Ko-	"	modestum,	**	Kozorz.
		The state of the s	"	panina.		mulus.	,,	" Viskocilka, &c.
,,		longum,	,,	Konieprus, Lockhov,	E. c. 1, 2	nodosum.	,,	Lockhov, Slichov, &c.
"			"	Hinter-Kopanina.		var. robustum,		Lockhov.
,,		Loveni,		Karlstein, Lockhov.	E. e. 2	optatum.	,,	" Tachlovitz, &c
		Panderi.		Lockhov, Dvoretz, Gross		oxynotum,	"	,, Kozorz, Hinter-
.11		I dilderi,	**	Kuchell.	,,	oaynovana,	"	Kopanina.
		pavidum.		Karlstein.	,,	pingue,		Hinter-Kopanina.
39		perversum,	"	Kozorz, Lockhov, Buto-	"	var. of arietinum	,,,	Transfer Tropania
***		perrersum,	31)	vitz, &c.	E. e. 1, 2	nlacidum	.,	Kozorz, Butovitz.
		var. falciforme,		Hinter-Kopanina.	E. e. 2			TOTOLOGIA DICTORNA
"		subrectum,	"	Butovitz.		priscum,	**	Lockhov, Slivenetz, &c.
G a 3				Hlubocep.	E. e. 1	pulchrum	"	Butovitz, Voh
E e 2		problematicum,	"	Lockhov.		Princing City	**	rada.
		pusillum,	"	,, Kozorz.	E. e. 2	ranav		Rzepora.
G " 3		POX	"	Hlubocep.		regale,	"	Lockhov, Dlauha Hora
E e 2		rimosum,		Lockhov, Hinter-Kopa-	"	- Burei	22	&c.
21.0		- Indoording	"	nina.		Sandbergeri,		Kozorz, Dlauha
		Saturnum.		St. Procop.	,,	- Million Berry	"	Hora, &c.
G. g. 3		Snessi		Hlubocep.		secula.	1	Lockhov, Kozorz.
E. e. 2		sulcatum,	"	Lockhov, Slivenetz.		signatulum,	37	Lockhov,
G. g. 3		Verneuilli,		Hlubocep.		simplex,		
E. e. 2				Lockhov, Kozorz.		simplex,	"	,, St. Procop.
		Trochoceras, H	Tall	LIOURIUT, AUGUST.		speciosum,	"	Hinter-Kopanina.
E e 9			Rame	Lockhov.		tardum.		Tetin.
20. 0. 2				Slivenetz.		transiens,	"	Hlubocep.
E. e. 1		amicum,		Butowitz, Vohrada, &c.		trochoides,	300	Lockhov, Kozorz, Vis-
				Lockhov.	13. C. 2	ti ociloioce,	"	kocilka, &c.
		anguis, anomalum,		** 1		turgescens,		Kozorz.
**		anomatum,	"	"Konieprus.	,,	ent Bescens,	"	11 OF OLD

Summary (Geographical).

		Number of Countries inhabited.	80-00-00-00-00	
+		Number of Species.	\$1000000000000000000000000000000000000	1419
		Grand Total of Appearances.	852224230008559124887775123819428889911950	1726 1419
		Total Appearances (Europe).	@ 52 0 0 0 4 0 1 0 0 0 8 5 5 5 5 6 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1287
		.einemeaT	e : : : : : : : : : : : : : : : : : : :	1-
		South Australia.		20
		North India.		9
		Norway.		8
- 1		Sweden.		24
		Russia.		355
		Baltic (Russia).	91 1 2 1 2 1 6 9 1 1 8 9 1 1 7 9 1 1 8	94.3
	&c.	Podolia.		10
				00
	E	Silesia.		9
	0	Franconia.		1000
	EUROPE	Harz.		312
	M	Bohemia.	: F 1 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 2	826 conv
		Sardinia,	F : : : : F : : : F : : : : : : : : : :	168
		Spain.		- S
		France,		11
				611
3		Wales.		266 diar
251		England.		372 Ind
E.		Scotland.		28
5		Ireland.	[_ ; ; ; ; ; ; ; ; , 4, ; ; ; ; , ; ; ; ;	49 oid
(Geographical)		Total Appearances (America).	1	8 8 106 82 54 5 9 30 21 19 439 49 28 72 66 11 5 16 826 N.B.—Orthoceras (additional). Ohio 1. Indiana 2. Saxony
-		Newfoundland.		119
3		Mingan Isles.		22 itio
Summary	1	Anticosti Island.		90 ad
		Nova Scotia.	T : : : : : : : : : : : : : : : : : : :	0 0
0		Vermont.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	13.8 SE
-		Canada East.		54
	A.	Canada West.	1-::::::::::::::::::::::::::::::::::::	82
	0		1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	9 0
	J.	New York.		106
	AMERICA	Pennsylvania	[a, i i i i i i i i i i i i i i i i i i i	ω B
	4	Tennessee.		
		.sionillI		133
		Missouri.	T	9
		lowa.	: : : : : : : : : : : : : : : : : : :	1-
		Wisconsin,	[0] [[] [] [] [[] [] [] [] []	43
		Minnesota.		4
		A.W. Michigan.	H	6
		Rupert's Land.	8	1-
		Arche America.	- : : : : : : : : : : : : : : : : : : :	00
		Genera.	Actinoceras Ascoceras Aphragmatites (subgenus) Glossoceras (subgenus) Bactrites Bathmoceras Cameroceras Cycloceras Cyrtocerina Dictyoceras Cyrtoceras Gonjetices Trecoceras Trecoceras Trechoceras	
			A A A A A A A A A A A A A A A A A A A	
L				

INCERTÆ SEDIS.

Subdivision.	Genus, Species, and Author.	Lower Stage.	Middle Stage.	Upper Stage.
Fauna D. d. 2	Cophinus, König, 1839.	re incertain. Mount Drabow (Bohemia). (? Markings of Crinoids, M		(Engl.)Ludlow,Hagley Park.
Fauna E. e. 1. 2	Furca, Barrande. Bohemica, Barr. Lobolithus, Barrande, 1 Michelini, Barr.	Mount Drabow (Bohemia). 867?		(Boh.) Viskocilka, Lockhov.
Tr Div. 1, Anticosti	Pasceolus, Billings, 185 globosus, Billings.	7=Sph.erospondia, Salter, (Canada W.) Ottawa City.	1855. (Anticosti) Reef Point,	(Dom) Visaocina, Docarov.
L	intermedius, Sedgwickii, Salter, MS.	(Canada W.) Ottawa City.		Kendal (Westmoreland).
	sp. ind., Billings. Pleurodictyum, Goldfu megastoma, M'Coy. Polymeres, Murchison, 1	Yarra, South Australia.	(Anticosti) Fox River.	
D. d. 5	Demetarum, Serpulites.	Pensarn (Caermarthen). (Boh.) Königshof, Leiskow.		

PISCES.

[Note.—The late Professor Pander has described many genera of Upper-Silurian fishes, mostly Ganoids; but the strata holding them are of very doubtful age.]

P G . 1	Asterolepis, Eichwald, 1	840.	(D.1 1.) (II
Fauna G. g. 1	Bohemicus, Barr.	C: D 1f D 4 1058	(Bohemia) Chotecz.
m:1	Auchenaspis, Egerton,	Sir P. M., Bart., 1854.	D 7 C 40 T 7
Tilestone	Salteri, Egerton.	······································	Railway Cutting, Ludlov
			Kidderminster, Ledbur
			(England).
	Cephalaspis, Agassiz, 18	35.	
	Lewisii, Murch.		. River Dniester (Russia).
Tables 1	Lloydii, "		,, ,,
U.L	Murchisoni, ,,		Paper-mill, Ludlow, Russi
Tilestone	ornatus, Egerton.		(Downton Sandstone) King
			ton (Herefordshire).
	Schrenckii, Pander.		Russia, Isle Oesel (Baltic).
U.L	verrucosus, Murch.		
	Coccosteus, Agassiz, 184	3.	" "
D 0 1	Agassizi Barr		(Bohemia) Sous-Choteez
Fauna F	primus	3.	(Bohemia) Konjeprus
- market 4	Ctenacanthus Aggesia	1837.	(Done in a prome pr us.
*	abnormie Giobal	1001.	Schoorenstoig Hong (Comm
Vouna C. a. 1	Bohemicus, Barr.		(Pohomia) Chatan Tatin &
rauna G. g. 1	Dendrodus, R. Owen, 18	40	(Bonemia) Chotecz, Tetin, &
			Salaraha III (G
	lævis, Giebel.		
		To al. 1 1000	many).
	Dipterus, Valenciennes &	Pentland, 1828.	F1 0 1 (D 11)
Corall. Lst.?	sp. ind.,		Isle Oesel (Baltic).
	Glyptolepis, Agassız, 18	43.	
	orbis, Eichw.		Pilnaya-Melnitza (Russia).
	Gompholepis, Pander.		
Fauna G. g. 1	Panderi, Barr.		(Bohemia) Sous-Chotecz.
	Leptocephalus, Agassiz	(Gron., 1754).	
	gracilis, Agassiz,	Poissons fossiles, p. 307.	
	medius, ,,		
	tænia.		
	Macropetalichthys, Br	onn.	
Up.Silurian	sp. ind Bronn.		?
- P	Odontolodus, Pander, 18	56.	
EurypterusLst	Roodziküllensis Pander		Roodzikülle, I. Oesel (Balt
True J Prot us 130	Onchus, Agassiz, 1837.		I Ocsel (Date.
Pass sheds II T.	Murchisoni Murch		Ludlow, Woolhope, Kingto
Lussi-Deas, U.L.	Marcheon, March.		(England), Russia, Isl
			Oesel (Baltic).
Done had II I	tonssistatetas		Tudford Tone (Tudlom)
Bone-bed, U.L			Ludiord Lane (Ludiow).
	Parka, Fleming.		D 1 11 CI D 11 11
However 10 to 2	decimions		Balruddery Glen, Perthshir
Devonian?	decipions,	***************************************	(Scotland).

Subdivision.	Genus, Species, and Author.	Lower Stage.	Middle Stage.	Upper Stage.
	Plectrodus, Agassiz, 183	9.		T. II. (P. 1. IV.
U.L	mirabilis, Agassiz.			Ludlow (England).
11	pleiopristis, ,,	***************************************		12
	pustuliferus, ,, Sclerodus. ,,		••••••	"
	Pteraspis, Kner, 1847.			100
Pass,-bds., Down-	Banksii, Huxley & Salter.			Kington and vicinity (Her
ton Sa.				fordshire).
L.L	Ludensis, ?		***************************************	Church Hill (England).
Passage-beds	truncatus, Huxley & Salter.			Kington (Herefordshire).
				low).
	Sclerodus, Agassiz, 1839.			
U.L	parvidens, Agassiz?			Norton & Ludlow (Shropsh.
,,	pustuliferus, ,, ?			,,
	Sphagodus, Agassiz, 183			
Bone-bed	pristodontus, Agassiz.			Ludlow.
	Thelodus, Agassiz, 1839.			
Bone-bed	parvidens, Agassiz.			Ludlow.
	Thyestes, Eichwald, 185			
				Roodzikülle, I.Oesel (Baltic
, I	Cephalaspis.			,
	Tollipeltis, Pander, 1856.			
	undulatus, Pander.			Ohhossen I Ossel (Poltie)

ADDENDA.

	PLANTÆ		Subdivision.	Genus, Species, and Author.	Locality.
Subdivision.	Genus, Species, and Author.	Locality.		Sphærospongia.	O Pi (Shank)
UL	Actinophyllum.	(England) Ludlow,Per-	BL	Stromatocerium.	Onny River (Shropsh.) Madison (Indiana).
		ton, Woolhope (Shrop- shire).	E. e. 2	Stromatopora. Bohemica, Barr.	Kozel, Tachlovitz.
H. R. G	Beatricea. undulata, Billings.	Manitouline Island, L. Huron.	P.,Queb.G.,CH. E. e. 2	concentrica, Goldfuss.	hemia), Wales, Eng
Primordial	Buthotrephis. Goepperti, Geinitz.	Lobenstein (Reuss,Ger- many),	F. f. 2	conferta, ,,	land, New York, Ca nada. Esthonia, Koniepru
	Hostinella, Barrande	Lobenstein, Wisconsin. . (A land plant.)	L. Silur. (top).	mammillata, Bell.	(Bohemia). (L. Huron) Manit. Isl
H. h. 1 D. d. 2	Leptophycus, Barra	Hostin (Bohemia). nde, 1866. (A Fucoid). Mount Drabow.	E. e. 2 F. f. 2	perfoliata, ,,	Tachlovitz (Bohemia). Konieprus ",
"	venosus, ,, Palæophycus.	2)		Tetradium. ? Saffordi, ?	Tennessee.
Primordial		Lobenstein (Reuss,Ger- many).		CONT ENTRED LE	14
"	spinatus, Phytopsis. (See Ann	", ", ", ELIDA.)		CŒLENTERAT Acervularia.	Α.
B., Tr	tubulosum, Hall. Sagenaria, Brongnia	Wisconsin, Illinois (U. S. A.).	Llandov	typus, M'Coy. Alveolites,	
H. h. 1	Bohemica, Barr.	Hostin (Bohemia). A land plant.	W	Bechii, Salter. squamula, Lindström. Bolborites.	Ferriter's Cove, Kerry Gothland.
	sp. ind., Geinitz. Sargassites, Sternber	many).	CH	Americanus, Billings. Callopora.	Montreal (Mingan Is.
H. h. 1	Hostinensis, Barr.	Hostin (Bohemia).	f	Missouriensis, Meek & Worth. Campophyllum, M.	
	AMORPHOZO.	Α.	W Upper Silurian	Lovéni, MEdw. &c. Chætetes.	Gothland.
w	Amphispongia. oblonga, Salter.	Pentland Hills (Scotl.).	B., Tr., &c	lycoperdon, Hall. Pavonia, Rominger.	Greenbay (Wisconsin) Madison, Richmond
Lower Silurian.	Brachiospongia, M Lyonii, ? Marsh.	arsh, 1867. Franklin County (Kentucky).	,, ?	quadratus, " Chonophyllum.	(Indiana).
,, ,,	Römerana, ,, Cliona.	11 11	777	Niagarense, Hall.	Gothland.
Llandov., L	Coscinium.	Broom (Shropsh.), Mal- vern.	CH	alveolata, Billings. incerta, ,, parva, ,	(Can. E.) Montreal &c Mingan Isles, Montreal
B., BL	flabellatum, Billings.	(Can. W.) Lake Huron, Camp d'Ours.	Llandov., W	Cyathophyllum.	Wenlock, Woolhop
сн	Romeri, Billings.	Mingan Isles.	U. & L. Silurian W.		(Engl.), Gothland. Podolia. (Gothland) Capellham
L	Favospongia, M'Co Ruthveni, Salter.	Kendal (Westmorel.).	,,		mar, Slitehamn. (Gothland) Klinteberg
G. g. 2 W.	Grindrodi, Salter.	Hlubocep (Bohemia). Malvern (England).		helianthoides?, Haughton?	
Llan., W., L. E. e. 2.	Königi, Murchison.	Shropshire, (Bohemia) Bubovitz.	Guelph	irregulare, Billings.	Hespeler (Canada W. (Gothland) Djupviker
B., BL., Tr	occidentalis, Saiter.	Murray Bay (Can. E.), La Cloche Island, L. Huron.	Tr	patulum, Lindström. profundum, Conrad.	(Ostrog.) Borenshul Gothland. (Wiscons.) Mineral P
Niag		Chicago (Illin.), Shrop- shire.		pseudoceratites, M'Coy. Strephodes.	Gothland, (Wales)Pres teign, (Engl.)Dudley
Passage-beds	Pachyspongarium. pilula, Salter. Palæomanon.		w	stellare, Lindström.	Gothland. Dudley (England).
4.0	sp. ind. Lindström.	Gothland.		Strephodes.	

Subdivision.	Genus, Species, and Author.	Locality.	Subdivision.	Genus, Species, and Author.	Locality.
Carad	turbinatum, Sowerby.	Chair of Kildare, Cong (Galway), (Gothland) Djupviken, (Vestro- goth.) Alleberg.	? Tr., Llandov. &c., Galena L., CL., Niag., E.		Lake St. John, Port Daniel (Canada E.), Penlan, Llandovery,
	var. echinatum, Hising.	(Gothland) Djupviken,	e. 2.		Dudley, Ledbury, Wenlock, Elora (Can.
Niag	Vennori, Billings.	High Hill, Manitouline Island (Lake Hu-			W.), UpperGlenmore &c. (Ireland), (Boh.) Kozel, Podolia.
w	vermiculare, Hising.	Podolia.		labyrinthica, Goldfuss. parallela, Schmidt. Heliolites.	22 22
***	Clisiophyllum. Cystiphyllum.	Wenlock (Shropshire).	Use Car. &c., W	Grayi, MEdw. &c.	Craighead (Ayrshire). (Gothland) Wisby &c. (Can. E.) Port Daniel
	Bohemicum, Barr. Siluriense, Lonsdale. Diplophyllum.	(Bohemia) Tachlowitz.	Llan., H. R. G., CL., &c.	interstinctus, Wahlenb.	land), Glyn Ceiriog
L. Silur. (top).	fasciculus, Kutorga. Eridophyllum.	Borkholm (Esthonia). High Hill(Manitouline,			&c. (Wales), Port Daniel (Can. E), West Bay, Manitouline Is-
Loraine Shales.	Favistella. stellata, Hall.	Lake Huron). (Canada E.) Farnham, West Par, C. Smyth	Ning	macrostylum, Billings?	land (Lake Huron), Middle Gothland, Podolia.
	Favosites.	(Manitouline, Lake Huron).			Thorold (CanadaWest), Creaghmartin (Irel.), Malvern (England),
L. H. G	basalticus, Goldfuss.	(Can. E.) Gaspé, (Goth- land) Djupviken. (Canada East) Gaspé.	W., L. H. G	Murchisoni.	Podolia, Middle Goth- land, Port Daniel (Canada East).
E. e. 2	cristatus, Blumenbach.	(Bohemia) Kozel, Port- rane (Dublin), Coose- more &c. (Ireland).	Llandov., W		Wisconsin. Cefn-y-Garreg (Wales), Malvern.
E. e. 2 &c	fibrosus, Goldfuss.	Dent (Yorkshire), Chair of Kildare, Wexford, Waterford, (Bohem.)	Llandov., W	Laceripora.	S. and Mid. Gothland.
,,	Gothlandicus,	Podolia, (Bohem.) Tach- lowitz, Guelph, High	F. f. 2	Lithostrotion. Bohemicum, Barr.	South Gothland. Konieprus (Bohemia).
	Hisingeri, MEdw. &c.	Hill, Manitouline I., Malvern (England). Wenlock Edge, Tort- worth (Engl.), Port	G. g. 1	Lithophyllum, M sp. ind.?, Lindström. Millepora. Bohemica, Barr.	Gothland. (Bohemia) Chotecz.
	lycopodioides, Say.	Daniel (Canada E.), Thorold, Manitouline Island (Canada W.). Sardinia, Conway, Mei-	w	Monticulipora.	(Gothl.) Kapellhamn. Middle Gothland.
		fod (Wales), North America.	Carad	favulosa, Phill.	(Shropshire) Gretton &c., Gothland.
Guelph &c	var. tuberosa ramosa,	(Galway) Coolin, Fer- riter's Cove, Kerry Co. Gothland.	L.LLlan.,Tr., Pleta.	papillata, M'Coy.	Dudley?, Gothland. Ludlow &c. (England). St.Petersburg &c. (Rus-
	,, ramoso-divari- cata, Hising.	"		Oldhamia.	sia), Podolia, Estho- nia, Baltic (passim).
Carad., W	ramulosus, Phill.	Dudley, Westmoreland (England), Mercklin, Acton Scott (Shrop-	Primordial	Omphyma.	Howth, Bray, Delgany (Ireland).
Llan., Car., &c.		shire), S.W. Scotland. Dent (Yorkshire), Ken- dal (Westmoreland).	E. e. 2	Murchisoni, MEdw.	Tachlowitz, Kozel (Boh.) Tortworth (England), Cardiff &c. (Wales).
Upper Silurian.	Fistulipora. cribrosa, M'Coy.	(Gothl.) Capellhamn. Podolia.		turbinatum, Goldfuss. Ossiculum, Barrand	bury, &c.
w	decipiens, ,, Fletcheria.	,, Mayhill,Wen- lock Edge.			Konieprus.
	clausa, Lindström. Halli, Meek & Worth.	Gothland. Waldron (Indiana), Ro- chester (New York).		Pelliculites, Barrand	East) &c.
	neglecta, " " Hallia, MEdwards	Waldron (Indiana), Lockport (N. York). &c., 1850.		Petraia.	Dent (Yorksh.),Dolben- maen (Caernarvon-
		Gothland.			shire), Yspatty Evan (Wales).

Subdivision.	Genus, Spec Author		Locality.		CRINOIDEA.	
Aymestry L	bina,	Lonsd.	Creaghmartin(Ireland), Shelve, Malvern, &c.	Subdivision.	Genus, Species, and Author.	Locality.
H. R. G		Billings.		2	Actinocrinus.	Waldron (Indiana).
?	corniculum, Streptelasmo	Hall.	(Can. E.) St. Antoine, Lindsay, Wisconsin,		Christyi, Hall. moniliformis, Goldfuss.	
	The state of the s	4.	(Esthon.) Borkholm.	,,	pulcher, Salter.	Nant Glyn (Wales).
Carad., Llan-	Du Noyerii,		Ballycar (Ireland). (Ireland) Kilmoculla,	"	regularis, Hising. tesseracontadactylus,	Gothland.
dov., W.	erongata,	T IIIII.	Bull's Head (Kerry),		Goldfuss.	
			Llandovery, Gwyd- don (Wales), Conis-	"	Wynnei, Baily.	Kilnacreagh, Clare, and Tipperary Counties.
Johnson A. H.	in the same		ton, Waterhead (Lan-	W	Anthocrinus.	
BL., Tr	profunda	Hall	cashire). Marmora (Canada W.),	W	Lovéni, Müller, Lindst Ascocrinus, Barrand	
Du, 11	prorunda,	Hair.	Montreal, L. St.John,	Carad		Moitiers d'Allone, Cher
Canad W &c	enhdunlieste	MiCon	River Metabechouan. Bull's Head, Kerry,	D. d. 2	Draboviensis, Barr.	bourg (France). Mt. Drabow (Bohem).
Carad., W., &c.	suodupiicata,	M Coy.	Creaghmartin, Bally-		Balanocrinus, Troos	t, non Agassiz.
			car, Clare County (Ire- land), Haverfordwest,	Racine Lst. = Niag.	inflatus, Hall.	Milwaukee &c. (Wis consin).
100			Builth, Bogmine, &c.		Crotalocrinus.	
W	Plasmopora	M Edw		W	rugosus, Salter, Miller.	Gothland, Podolia, Wen lock Edge (England)
W	and do	MEdw.	Gothland.		Cyathocrinus.	
-	Protarea. inordinata,			W		Gothland. Dudley (England).
Annual Control			Ferriter's Cove, Doon- quin (Ireland).	Niag	ornatus, Billings.	Thorold (Can. W.).
			Dubuque (Iowa) &c.	W Corall. Lst		Gothland. ,, Mount Klinte
Niag	Ptychophyl Belli,	Billings.	High Hill (Manitouline	Corain List		berg, Slitcham, &c.
Land of the same of			Island, Lake Huron).	w	scrobiculatus, Hising.	Gothland, Wisconsin.
Div. 4, Antic. G.	sp. ind.		(Anticosti) South-west Point.		Eugeniacrinus.	
11 6 0	Romeria?			w	costatus, Hising.	Gothland, Mt. Klinte berg.
F. f. 2	Stenopora.	Barr.	Konieprus (Bohemia).		Glyptocrinus.	
СН		Billings.	Mingan Isles (G. St.	Primordial, H. R. G.	decadactylus, M'Coy.	Lobenstein (Reuss, Germany).
N. Academie	fibrosa,	Goldfuss.	Lawr.). Podolia, Cape Santé			Bardahessiagh(Tyrone)
			(Can. E.), High Hill,	B., BL	Trochocrinus,	(Can. W.) River Moira
			Cape Smyth (Lake Huron).	D., DL	Juliusus, Dillings.	Camp d'Ours, Lak
Tr. &c	Petropolitana,	Pander.	Montreal (Canada E.),			Huron, (Can. E.) Mon treal, Murray Bay.
			River Don, Osna- bruck (Canada W.).	Niag	siphonatus, Hall&Whit.	New York, Wisconsin.
L. H. G	pulchella,	Billings.	Port Daniel, Gaspé (Ca-	Pleta	Heliocrinites. echinoides, De Vern.	(Russia) Poulkova.
	Strombodes	i.	nada East).	11000	Heterocrinus.	
			MiddleGothland, Egool	Tr	Canadensis, Billings.	Lindsay, Ops Township (Canada West).
			&c. (Ireland), High Hill (Manitouline Is-	"		Savanna (Illinois).
Nice		D:11:	land, Lake Huron).	L. H. G	Mariacrinus. ramosus, Hall.	Herkimer County (Nev
Niag	pentagonus,	Dillings.	West Bay, Manitouline Island (Lake Huron).			York).
w			Gothland.		Palæchinus? Phillipsii, Forbes.	Worcester Beacon, Mal
	plicatus, Syringopor	a.	Doonquin (Ireland).			vern.
II Cilmian	cancellata,	Eichw.	Gothland. Podolia.	Tr	Palæocrinus. angulatus, Billings.	(Canada West) Middle
Upper Silurian Niag		Hall.	High Hill (Lake Hu-	2		Ottawa River.
		-	ron).	H. R. G	Retiocrinus. fimbriatus, Billings.	(Canada West) Middle
w	Lyelli, serpens,		(Can. W.) Sydenham. Gothland &c.			Ottawa River &c.
	Aulopora:			CH., B	Rhodocrinus. pyriformis, Billings.	(Canada E.) Montreal.
Niag			Lake Tematscaming (Canada West).		, ,	
H. R. G	Zaphrentis		West Bay (Manitouline		CYSTIDEA.	
11. IV. G	bilateralis,		Island, Lake Huron).	_	1	
CL	The same of the sa		(Canada W.) Thorold.	W. Marly Lst	Apiocystites.	(Gothland) Mt. Klinte
	Stokesii,	"	S.W. Point (Anticosti), Flamborough (Ca-	W. Marly Lst		berg.
L. ?	turbinata,	Hall	nada West). (Ireland) Derrymore	Ning	Caryocystites.	(Wisconsin) Racine.
Ad- 4	curomata,	Han.	Glen &c.	Carad	granatus Forbes	Chair of Kildare (Irel.)

	Anthor	Locality.	Subdivision.	Genus, Species, and Author.	Locality.
Den	Author. ndrocystites, Bar	rande, 1865.		Crossopodia.	
D. d. 4 Boho	emicus, Barr.	Lodenitz, Zahorzan, &c. (Bohemia).			Lobenstein (Reuss, Ger- many).
,, Sedg		Zahorzan (Bohemia).	Llan., Carad	Scotica, M'Coy. Fucoides. (Worm-bu	Dunse (Berwick) &c.
D. d. 2 Bohe	A CONTRACTOR OF THE PARTY OF TH	Trubsko (Bohemia).	Llan.?	Alleghaniensis, ?	The Harz (Germany).
D. d. 1long Ech	ulus, ",	Vosek "		Hall.	Gaspé (Canada East).
anati	tiformis, Hall.	Fort Atkinson (Iowa) &c.	Llan	Helmintholites. sp. ind., ?	Bray Head (Ireland).
Carad. Ech	hinosphærites.	Garrihadaggan, Wex-	Taconic	Lophotenium, Geini comosum, Richter.	tz. Lobenstein (Reuss, Ger-
gr citru	ranatus.	ford, Norway, &c. Eland, Gothland, Ves-		Hartungi, Geinitz.	many).
au	urantium.	trogotha. Pont Hafod (Wales).		Myrianites. tenuissimus, Emmons.	
D. d. 1 delet D. d. 2 ferri	tus, Barr.	Vosek (Bohemia).		Naites, Geinitz.	many).
F. f. 2 flavu	us, .,	Mnienian "		priscus, Geinitz.	Lobenstein.
D. d. 4infau D. d. 1pirui	11	Zahorzan " Vosek "	Prim., Taconic.		Lobenstein.
Gly	ptocystites.	(Can.W.)Riv.Moira &c.	" "	Thuringiacus, Geinitz. Scolecoderma.	"
	micosmites.	Rhiwlas, Bala (Wales).	Primordial		Malvern (England).
Pala	æocvstites.		D. d. 2		Mt. Drabow (Bohem.).
CHpule		Mingan Isles (G. St. Lawr.).	P., Potsd., Tre-	linearis, Hall.	(Wiscons.) Baraboo &c
,, tenui	iiradiatus, Hall.	(Canada E.) Phillips- burg &c.		Arenicolites. Serpulites.	
	eudocrinites. drifasciatus, Pearce.	Dudley(Engl.), Marloes			Milain Glacier, Nita Himalaya.
	phocrinites.	Bay (Pembroke).	w	Spirorbis. Lewisii, Sowerby.	Gothland &c.
E. e. 2elega	ans, Barr.	Dvoretz, Karlstein (Bo- hemia).	Carad., Llan-	Tentaculites.	Norway, Acton Scot
	hæronites.		dov. W., L. H. G		(Shropshire), &c. Wenlock Edge (Engl.)
Caradaura		Sholes Hook (Wales).	111, 23 211 01111	ormand, concrej.	Llandeilo (Wales Gothland &c.
		Sholes Hook, Rhiwlas (Wales).			Galway (Ireland).
Tro	ctatus, ,, ochocystites.	" "			Ferriter's Cove (Irel.) Saxony, Gothland.
Fauna C Bohe D. d. 1 mitr	nemicus, Barr.	Skrey (Bohem.), Spain. Vosek (Bohemia).			Damschen, Niti (Hima laya).
	The second second		U.L	Trachyderma. squamosa, Phill.	Woolhope (Engl.), Fer
	ASTERIDEA.			-	riter'sCove (Ireland Cappatcemore, Co
D. d. 2	elacrinites.	Mt. Drabow (Bohem.).		Trichoides, Harkne	Clare (Ireland).
Ast	terias, Linnæus.				(S.W. Scotland) Barlae
D. d. 4 Boh D. d. 1 prin	mula, "	Zahorzan (Bohemia). Vosek "		CIDDIDEDE	,
	læaster. actaci, Salter.	Marshbrook &c. (Shrop-	The state of	CIRRIPEDES	100
Pal	læocoma.	shire).	D. d. 1, 2	Anatifopsis, Barran acuta, Barr	de. Mount Drabow, Vose
W., L.L Mar		Leintwardine (Shrop- shire).	D. d. 3		(Bohemia). Trubin (Bohemia).
	miformis, ,, Bdellacoma,	Ludlow (Engl.), Mock- tree (Wales).	D. d. 4		Zahorzan (Bohemia).
Pro	otaster.		D. d. 1	Bohemicum, Barr.	Vosek (Bohemia).
Carad Salt	Tæniaster.	(Wales) Denbighshire.	D. d. 4 D. d. 5	regius, ,,	Trubsko " Königshof "
The second	ANNELIDA.		"	squamatula, ,,	Mt. Kosov "
Ch	ondrites.			TRILOBITA	
Prim. & Pleta info W veri	ormis, M'Coy. risimilis, Salter. ornulites.	Réval (Esthonia) &c. Pentland Hills (Scotl.). (Wales) Usk, Shelve,	Carad., W?	bispinosa, M'Coy	. Dudley. . Dudley &c. . (Vestrogotha) Mour
		Marloes Bay, North- west Harz, &c.	Llan., Carad	Jamesii, Salter	Mosseberg. Wexford &c.

Subdivision.	Genus, Spec Autho		Locality.	Subdivision.	Genus, Species, and Author.	Locality.
Llan., Carad	Æglina.	Forbes	Stoneford, Haverford-		Bathyonotus, Hall,	1859,
D. d. 3, 4, 5	100		west (S. Wales), &c.		Angelina, Billings.	(Canada W.) Kingston
			Ballyvorgal, Clare Co. (Ireland).			(Canada East) Hunt- ley.
D. d. 1, 5		**	Königshof, Vosek (Bohemia).	?	Bronteus. insignitus, Beyrich.	
Carad	Agnostus. limbatus,	Salter.	(S.W. Scotl.) Piedmont	Carad., W	laticauda, Wahlenb. pendulus, Beyrich.	Britain, Sweden. Prague.
			Glen, Chair of Kil- dare (Ireland).	Reg. E	platyactin, Angel.	Wisby (Gothland). Harz (Germany).
L.Llan	Morei,	"	Skiddaw (Westmore- land) &c.	Lst.	Bumastes.	rians (dermany).
	nodosus,	Belt.	Mawddach R., Dolgelly	Niag	Barriensis, Hall.	Gothland, Podolia, (Ca
Upper Dolgelly beds.	obtusus,	,,	(Wales). Moel, Corse-y-Garnedd			nada W.) Thorold (Iowa) Turkey Rive
Alum Shale	pisiformis,	Linnæus.	(Wales). Norway &c.		Calymene.	&c.
L.Lingula Fl	The second second		R. Mawddach, Dolgelly (Wales).		Blumenbachii,	Podolia &c. Roosetherrig, Bull's
L. & U.Ling.Fl. Llan. ?		Salter. Vaumann.	(England) Malvern. Norway.		Blumenbach.	Head (Irel.), Podolia (Wisconsin) Milwaukee
P., Carad			Newfoundland, (Wales) Dolgelly, Rhiwlas.	Ilan Fauna F	duplicata, Murchison.	Racine.
			&c., Haverfordwest,			Wales).
			(Irel.) Chair of Kil- dare, Ballyvorgal,	Carrier Williams	Whitney.	
			(S.W. Scotl.) Pied- mont Glen.	Primordial	obtusa, M'Coy.	Chair of Kildare? (Ire land).
P., Lingula Fl. L.Lingula Fl		"	Dolgelly (Wales). Malvern (England)	Pleta	polytoma, Dalm. sclerops, Dalm.	Russia, (Scania) Scar-
Potsd. Sa			Wisconsin.			paden, (Dalecarlia Furundal.
Queb. G	Caylei,	Billings.	Point Lévis (Can. E.).		senaria, Conrad.	(Wisconsin) Plattville
Carad	Description 1	Portlock.	Tramore, Waterford (Ireland).			(Iowa) Bellevue (Kentucky) Frank
СН			(Can. E.) Farnham.			ford &c., (Ohio) Ox- ford, (Tennessee) Da-
Llan., Carad	The same of the sa		(S.W. Scotl.) Penwhap- ple Glen.			vidson County, (In- diana) Madison, (Ca-
L.L	parvulus,	Forbes.	Vinnal Hill, Ludlow, &c.	Carad., D. d. 2,	Verneuilli, Rouault.	nada W.) Russell. Brittany, Bohemia.
P., Llan Llan., Carad		Salter.		4	Cheirurus.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	Arionellus.				bimucronatus, Murch.	
Potsd. Sa	Agraulos.	Hayden.	Dacota Territory (U. States of America).	Carad., L.&U.L.	clavifrons, Dalm.	
Carad	Asaphus. Barrandei, Ha					(Wales), Westmore- land, Sweden.
W Lower Silurian.	caudatus, cornigerus,	Dalm. Verneuil.	Gothland. Russia.	Upper Silurian. Carad		N.W. Harz (Germany) England, Ireland, Scot-
Oslo G			Sweden &c. Russia.	The second secon	pleurexanthemus,	land. (Canada E.) Montreal
	extenuatus,	-	(Ostrogotha) Husby- fjol, Heda, &c.	, 22. 100, 400	Green.	A CONTRACTOR OF THE CONTRACTOR
	fallax,	,,	(Smaland) Humlenas,			(Minnesota) Falls of
Tr., Carad	gigas,	Dekay.	(Dalecarlia) Sjurberg. (Ireland) Desertcreate,			St.Anthony, (Illinois Dunleith &c., (Wis
Carad			New York. (France) Brittany &c.			consin)MineralPoint (Ohio) Cincinnati.
Ut. Slate Carad		Billings. Salter.	Canada.	Reg. E	speciosus, Hising. Conocoryphe.	Sholes Hook (Wales) &c
CH., BL., H. R. G.			Anticosti, west end.	U. Lingula Fl U.Dolgelly beds	abdita, Salter.	Dolgelly &c. (Wales).
	platycephalus,	Stokes.	(L. Huron) La Cloche Isle.	L. Potsd. Sa U.Dolgelly beds	minor, Shumard.	Wisconsin. Dolgelly (Wales).
Llan., Carad	Powisii, M	urchison.	(Wales)Berwyns, (Eng-		Crepicocephalus.	
Reg. C		Angel.	land) Westmoreland. Sweden.	Potsd, Sa,	D. D. Owen.	Minisca (Minnesota).
Llan	tyrannus,	"	Wales, Odinsholm (Es- thonia), St. Peters-	,,		(N. Wisconsin) Moun- tain Isle.
	Barrandia.		burg (Russia).		Cromus. Arcticus, Haughton?	Garnier Bay (Arctic
	Cordai, Portlockii,	M'Coy.	Wales. Ireland.		Salter.	America). (Bohemia) Lockhov &c.,
	radians,	M'Coy.		15. 6. 2	Donellicus, Darr.	Belgium.

	Genus, Species, and	- 1	0.13::::	Genus, Species, and	T Vit-
Subdivision.	Author	Locality.	Subdivision.	Author.	Locality.
	Cybele.			Proetus.	n 1 11
Carad	sexcostata, Salter.	SholesHook (Wales) &c.	Corall. Lst		Podolia.
" Llandov.	Dalmania.	Russia, (Yorksh.) Dent.	U. Llandov., W., L.		Gothland. Bull's Head, Kerry, Fer-
D. d. 2		Bohemia, New York.	1111110011, 11 1, 12	menions, 21 coj.	riter's Cove (Irel.).
Delth, Sh. Lst.	Hall.		L.Silur. (top)	ramisulcatus, Nieszk.	Esthonia.
Niag., Racine	vigilans, Hall&Whitney.	(Wisconsin) Waukesha		Ptychaspis.	
Lst.	D. 1	&c.	Potsd. Sa	granulosus, D. D.Owen.	(Minnesota) Miniska K.
	Dikelocephalus.	(Minnesota) Head of		Ptychopyge.	Tosna &c. (Russia).
	repinensis, D. D.Owen.	L.Pepin, Mazomania.	2 1000 11111111111111111111111111111111	Sphærexochus.	Zoona dei (zeacona)i
	Dindymene.			alatus, Angel.	Norway.
D. d. 1, 5	Haidingeri, Barr.	Ballyvorgan, Co. Clare	C3	Olenus,	Chair of Vildon (Tuel)
	Ellipsocephalus.	(Ireland), Bohemia.	D d 5	latens Phili. (MS.).	Chair of Kildare (Irel.). Königshof (Bohemia)
LingulaFlags		(Wales) Wern, Pen-	D.d.4, Niag. &c.	mirus, Beyrich.	Königshof (Bohemia). Bohemia, Irel., Ohio,&c.
2	Conocoryphe.	morfa.		Sphærophthalmus	
~	Encrinurus.		U.Ling. beds	humilis, Phill.	Upper Dolgelly Beds
Carad., W., &c.	punctatus, Wahlenb.	(Canada W.) Thorold, Gothland, Podolia.		Staurocephalus.	(North Wales).
	Calymene. vigilans, Hall.	(Canada E.) Malbay,		Murchisoni, Murch.	Bohemia, Rhiwlas (W.).
	- Ignano,	Lakes St. John and	W., E. e. 2		Chair of Kildare,
	the state of the state of	St. Louis, &c.			(Bohem.) Listice &c.
	Eurycare.	(0))))	T1 0 1	Trinucleus.	Thursday Co. Class /Ton
Reg. A	latum, Angelini.	(Sweden) Andrarum,	Llan., Carad	concentricus, Laton.	Trough, Co. Clare (Ire- land) &c.
	Homalonotus.	Norway, &c.	Carad	seticornis. Hising.	Norway &c.
		Victoria (S. Australia).	Carad. ?	Wahlenbergi, Rouault.	
	Illænus.				
Niag. &c	Barrandei, D. D. Owen.			ENTOMOSTRAC	7.4
Corall. Lst., E.	Bouchardi, Barr.	Racine.		ENTOROSTRA	JA.
e. 1.				Bactropus, Barrande.	
Lower Silurian.	centrotus,	(Ostrogotha) Husby-		longipes, Barr.	Konieprus (Bohemia).
		fjol, (Tyrone) Barda-		Bairdia.	Chair of Vildon (Tuel)
	Lusitanus, Verneuil,	hassigh. (Spain) Sierra Morena	Carad	Holl.	Chair of Kildare (Irel.).
	Sharpe.	&c.	,,	Murchisoniana, ,,	,, ,,
		(Minnesota) Prairie du	,,	Salteriana, ,,	,, ,,
		Chien, (Iowa) Elka-	D 10	Beyrichia.	(Dahamia) makin
Carad	Rosenbergii Eichw	der. Llandeilo (Wales) &c.	L	Bohemica, Barr. Jonesi, Boll.	Gothland
Curam	Lichas.	manuello (Traice) etci	25	tuberculata, var. nuda,	" (Lindström).
W., L	Anglicus, Beyr.	Ferriter's Cove (Ire-		R. Jones.	
w	Ddel Platabas	land) &c.	D	Ceratiocaris.	(Bohem.) Dvoretz, Ko- zorz, Beranka (col.).
W	Barrandei, Fletcher.	Port Daniel Gasné (Ca-	D. d. 5, E. e. 2.	Donemicus, Darr.	zorz Beranka (col.)
1. 11. 0	Camadensis, Akani	nada East).	F. f. 2	debilis, "	(Bohemia) Konieprus.
Upper Pleta	margaritifer, Nieszk.	Borkholm (Esthonia).	D. d. 5	elegans, "	,, Leiskow.
W	rotundifrons, Angelin.	Gothland.		ensis, Salter.	Taisham (Dalamia)
Primordial	Lonchocephalus. Chippeway-ensis,	Pennsylvania, Marine			Leiskow (Bohemia). Borek, Lodenitz (Boh.).
	D. D. Owen.		20. 0. 1, 20		Saxony.
		River (Wisconsin).		leptocheles.	
"	sp. ind.,	Mountain Island, Lake			Leiskow (Bohemia).
	Olenus.	Pepin.	G. g. 1	sp. ind., Lindström.	Tetin ",
Up. Ling. Fl		Norway &c.	?	,, Baily.	Boulannunane, County
Primordial	forficula,	Norway.			Clare (Ireland).
Alum Slate		Norway &c.		Cythere.	Chain of Wilder CT 11
	Paradoxides. actinura, Dalm.	(Ostrogotha) Berg.		Inkasiana	Chair of Kildare (Irel.).
	Phacops.	(Ostrogotila) Derg.		Harknessiana, ,,	" "
E, F, G. g. 1	Bronni, Barr.	N.W. Harz, Bohemia.		Wrightiana, "	,, ,,
B., BL., Tr., H.	callicephalus, Hall.	(Minnesota) Fort Snel-	TO CO	Entomoconchus, M	
R. G. L. &c	caudatus, Brünn.	ling &c. Ferriter's Cove (Irel.).		min out in	Konieprus (Bohemia).
	conicophthalmus, Boeck.	Kilmoculla, Co. Clare	"	Eurypterus.	"
2	Asaphus Powisii.	(Ireland).	E. e. 2		Dlauha Hora, Tobolka
Lower Silurian.	Dujardini, Rouault.	(Spain) Sierra Morena			(Bohemia).
Carad. &c	mucronatus Reason	&c.	U.L		Lanarkshire (Scotland).
Carad. &C	macronatus, brongn.	(Vestrogotha) Mounts Mosseberg & Alteberg.	L." H. G	raniceps, "Dekay.	Gothland, New York.
Llandov., W.,	Stokesii, MEdw.	South Thuringia, (Eng-	U.L.	scorpioides, H. Woodw.	Lanarkshire (Scotland).
L.		land) Gunwick Mill,		tetragonophthalmus,	Russia, Podolia, &c.
		Malvern.		Fischer.	

Subdivision.	Genus, Species, and Author.	Locality.	Subdivision.	Genus, Species, and Author.	Locality.
		Victoria (S. Australia).	L.Tremad		Rhiw-felyn, Dolgelly (Wales).
	Leperditia.		E. e. 2	grandis, Barr	Karlstein (Bohemia).
Pleta	brachynota, Schmidt.	Borkholm (Esthonia).	Primordial		Norway.
L. Silur. (top).	marginata, Keyserling.	Borckholm (Esthonia).	Tr	Neenan, D. D.Owen	Appleton, Fox Rive (Wisconsin).
Pleta &c	phaseolus Hising.	Russia, Podolia.		Didymograpsus.	(Wisconsin).
Primordial		Skiddaw (Cumberland).	Llan	Clingani, Carruthers	Moffat.
E. e. 2		Bohemia, S. Wales.		flaceidus, "Hall	Skiddaw (Cumberland)
L. Lingula Fl	Solvensis, Jones.	Solva (South Wales).		Forchhammeri, Geinitz	Moffat &c.
	Primitia. Neolimulus, H. Woo	dward 1867	"	fractus, Salter.	Skiddaw Slates (Cum berland).
	falcatus, H. Woodward.		Llan	patulus, Hall.	P.Lévis(C E.),Skiddaw
	Primitia.			ramosus,	Moffat (Scotl.), Bendig
F. f. 2		Konieprus (Bohemia).			(Australia), &c.
D. d. 5	gregaria, ,,	Königshof "		sextans, ,,	Moffat &c.
D 115	M'Coyi, Salter.	Chair of Kildare (Irel.).		Suessi, Barr	Vosek (Bohemia).
D. d. 1, 5	prunella, Barr.	Vosek, Mt. Kosow (Boh.)		Diplograpsus, M [*] Co angustifolius, Hall	Bendigo (S.Austral.) &c
Carad. ?	Sancti Patrici, Jones &	Gothland &c.		antennarius,	SkiddawGp.(Cumberl.)
Carau	Holl.	Chair of Kildare (frei.).	The state of the s		Moffat (Dumfries).
F. f. 2		Konieprus (Bohemia).		minutus, Carruthers	in the contract of
			"		Belvoir (Irel.), Bendig
	OOMD LOOD L				(South Australia).
	OSTRACODA			palmeus, Barr persculptus, ?	Bendigo (Australia) &c Gogofau, Caermarthen
	Aristozoe, Barrande,	1866?			shire.
	amisa, Barr.	Konieprus (Bohemia).	L.Llan	pristis, Hising	Moffat, Bendigo (Au
"	bisulcata, ,, memoranda, ,,	" "		quadrangularis, M'Coy	stralia), &c.
	********	99 99		Discopora,	bendigo (S. Australia)
7.7	orphana, ,,	"			Borkholm (Esthonia).
	perlonga, ,,	" "		Fenestella.	Doranoim (Lizinoimu).
,,	regina, ,,	., ,,	F. f. 2	bifrons, Barr	Konieprus (Bohemia).
	Bolbozoe, Barrande,			gracilis, ,,	
	anomala, Barr.		E. e. 2	Ivanensis, ,,	St. Ivan (Bohemia).
		Kozel ,, Branik	F. f. 2	parallela, ,,	Konieprus (Bohemia).
G. g. 1	Callizce, Barrande, 1		w."		Derrymore Glen (Ire
F. f. 2		Konieprus.		princes, Dany	land) &c.
	Nothozoe, Barrande.	T	CANAL GOEST	Filites, Barrande.	
	Bohemica, Barr.			Bohemicus, Barr	Konieprus (Bohemia).
D. d. 2	pollens, "	Mount Drabow.		Graptolithus.	w
	-		D. d. 1		Vosek (Bohemia).
	POLYZOA.		Carad., Fau. D	Deckii,	Moffat (Scotland) &c.
			Queb. G	bryonoides, Hall	South Australia &c.
	Cladograpsus, Carr	uthers, 1868; Pleuro-	Queb. G	bryonoides, Hall Clingani, Carruthers	South Australia &c. Moffat.
	Cladograpsus, Carr	GRAPSUS, Nicholson.	Queb. G	bryonoides, Hall Clingani, Carruthers Halli, Barr	South Australia &c. Moffat. Moffat &c.
Llan	capillaris, Carruthers.	Grapsus, Nicholson. Moffat (Scotland).	Queb. G	bryonoides, Hall Clingani, Carruthers Halli, Barr intermedius, Carruthers	South Australia &c. Moffat. Moffat &c.
Llan	capillaris, Carruthers. gracilis, Hall,	Grapsus, Nicholson. Moffat (Scotland). Moffat (Scotland) &c.	Queb. G Llan	bryonoides, Hall Clingani, Carruthers Halli, Barr intermedius, Carruthers nitidus, Hall	South Australia &c. Moffat. Moffat &c. Point Lévis (CanadaE) South Australia.
Llan	capillaris, Carruthers. gracilis, Hall, linearis, Carruthers.	Grapsus, Nicholson. Moffat (Scotland).	Queb. G Llan	bryonoides, Hall Clingani, Carruthers Halli, Barr intermedius, Carruthers nitidus, Hall ovatus, Barr	South Australia &c. Moffat. Moffat &c. Point Lévis (CanadaE) South Australia. Bohemia.
Llan	capillaris, Carruthers. gracilis, Hall, linearis, Carruthers. Cladopora.	GRAPSUS, Nicholson. Moffat (Scotland). Moffat (Scotland) &c. Moffat (Scotland).	Queb. G Llan	bryonoides, Hall Clingani, Carruthers Halli, Barr intermedius, Carruthers nitidus, Hall ovatus, Barr Salteri, Carruthers	South Australia &c. Moffat. Moffat &c. Point Lévis (CanadaE) South Australia. Bohemia. Moffat.
Llan	capillaris, Carruthers. gracilis, Hall, linearis, Carruthers. Cladopora. lichenoides, Winchell &	GRAPSUS, Nicholson. Moffat (Scotland). Moffat (Scotland) &c. Moffat (Scotland).	Queb. G Llan	bryonoides, Hall Clingani, Carruthers Halli, Barr intermedius, Carruthers nitidus, Hall ovatus, Barr	South Australia &c. Moffat. Moffat &c. Point Lévis (CanadaE) South Australia. Bohemia. Moffat. Kilnacreagh, Garrans
Llan	capillaris, Carruthers. gracilis, Hall, linearis, Carruthers. Cladopora. lichenoides, Winchell & Marcy.	GRAPSUS, Nicholson. Moffat (Scotland). Moffat (Scotland) &c. Moffat (Scotland). Chicago (Illinois).	Queb. G Llan	bryonoides, Hall Clingani, Carruthers Halli, Barr intermedius, Carruthers nitidus, Hall ovatus, Barr Salteri, Carruthers Sedgwickii, Portlock	South Australia &c. Moffat. Moffat &c. Point Lévis (CanadaE) South Australia. Bohemia. Moffat.
Llan	capillaris, Carruthers. gracilis, Hall, linearis, Carruthers. Cladopora. lichenoides, Winchell & Marcy. verticillata ,, Climacograptus.	GRAPSUS, Nicholson. Moffat (Scotland). Moffat (Scotland) &c. Moffat (Scotland). Chicago (Illinois).	Queb. G Queb. G Llan Llan Llan., Carad	bryonoides, Hall Clingani, Carruthers Halli, Barr intermedius, Carruthers nitidus, Hall ovatus, Barr Salteri, Carruthers Sedgwickii, Portlock Hellipora.	South Australia &c. Moffat. Moffat &c. Point Lévis (CanadaE) South Australia. Bohemia. Moffat. Kilnacreagh, Garrans &c. (Ireland).
Llan	capillaris, Carruthers. gracilis, Hall, linearis, Carruthers. Cladopora. lichenoides, Winchell & Marcy. verticillata Climacograptus. bicornis, Hall.	GRAPSUS, Nicholson. Moffat (Scotland). Moffat (Scotland) &c. Moffat (Scotland). Chicago (Illinois). " Moffat (Scotland) &c.	Queb. G Queb. G Llan Llan Llan., Carad	bryonoides, Hall Clingani, Carruthers Halli, Barr intermedius, Carruthers nitidus, Hall ovatus, Barr Salteri, Carruthers Sedgwickii, Portlock	South Australia &c. Moffat. Moffat &c. "Point Lévis (CanadaE) South Australia. Bohemia. Moffat. Kilnacreagh, Garrans &c. (Ireland). Illinois?
Llan	capillaris, Carruthers. gracilis, Hall, linearis, Carruthers. Cladopora. lichenoides, Winchell & Marcy. verticillata " Climacograptus. bicornis, Hall. minutus, Carruthers.	GRAPSUS, Nicholson. Moffat (Scotland). Moffat (Scotland) &c. Moffat (Scotland). Chicago (Illinois). " Moffat (Scotland) &c. Moffat (Scotland) &c. Moffat (Scotland).	Queb. G Queb. G Llan Llan Llan 7	bryonoides, Hall Clingani, Carruthers Halli, Barr intermedius, Carruthers nitidus, Hall ovatus, Barr Salteri, Carruthers Sedgwickii, Portlock Hellipora. antheloidea, Meek & Worthen Nereograpsus, Geim	South Australia &c. Moffat. Moffat &c. Point Lévis (CanadaE) South Australia. Bohemia. Moffat. Kilnacreagh, Garrans &c. (Ireland). Illinois?
Llan	capillaris, Garruthers. gracilis, Hall, linearis, Carruthers. Cladopora. lichenoides, Winchell & Marcy. verticillata Climacograptus. bicornis, Hall. minutus, Carruthers. Cyrtograptus, Carr	GRAPSUS, Nicholson. Moffat (Scotland). Moffat (Scotland) &c. Moffat (Scotland). Chicago (Illinois). " Moffat (Scotland) &c. Moffat (Scotland) &c. Moffat (Scotland). uthers, 1867.	Queb. G Queb. G Llan Llan. , Carad ?	bryonoides, Hall Clingani, Carruthers Halli, Barr intermedius, Carruthers nitidus, Hall ovatus, Barr Salteri, Carruthers Sedgwickii, Portlock Hellipora. antheloidea, Meek & Worthen Nereograpsus, Geimtz Cambrensis, Geinitz	South Australia &c. Moffat. Moffat &c. Point Lévis (CanadaE) South Australia. Bohemia. Moffat. Kilnacreagh, Garrans &c. (Ireland). Illinois?
Llan	capillaris, Carruthers. gracilis, Hall, linearis, Carruthers. Cladopora. lichenoides, Winchell & Marcy. verticillata Climacograptus. bicornis, Hall. minutus, Carruthers. Cyrtograptus, Carr Murchisoni, Carruthers.	GRAPSUS, Nicholson. Moffat (Scotland). Moffat (Scotland) &c. Moffat (Scotland). Chicago (Illinois). " Moffat (Scotland) &c. Moffat (Scotland) &c. Moffat (Scotland). uthers, 1867.	Queb. G Llan Llan Llan. Carad ? Llan. ? Llan	bryonoides, Hall Clingani, Carruthers Halli, Barr intermedius, Carruthers nitidus, Hall ovatus, Barr Salteri, Carruthers Sedgwickii, Portlock Hellipora. antheloidea, Meek & Worthen Nereograpsus, Geint Cambrensis, Geinitz Sedgwickii, "	South Australia &c. Moffat. Moffat &c. Point Lévis (CanadaE) South Australia. Bohemia. Moffat. Kilnacreagh, Garrans &c. (Ireland). Illinois? tz. Thuringia.
Llan	capillaris, Garruthers. gracilis, Hall, linearis, Carruthers. Cladopora. lichenoides, Winchell & Marcy. verticillata Climacograptus. bicornis, Hall. minutus, Carruthers. Cyrtograptus, Carr Murchisoni, Carruthers. Dendograptus.	Grapsus, Nicholson. Moffat (Scotland). Moffat (Scotland) &c. Moffat (Scotland). Chicago (Illinois). " Moffat (Scotland) &c. Moffat (Scotland). Moffat (Scotland). uthers, 1867. Builth, Pencerrig (W.),	Queb. G Llan Llan Llan., Carad ? Llan.? Llan	bryonoides, Hall Clingani, Carruthers Halli, Barr intermedius, Carruthers nitidus, Hall ovatus, Barr Salteri, Carruthers Sedgwickii, Portlock Hellipora. antheloidea, Meek & Worthen Nereograpsus, Geinitz Sedgwickii, tenuissimus, Emmons	South Australia &c. Moffat. Moffat &c. Point Lévis (CanadaE) South Australia. Bohemia. Moffat. Kilnacreagh, Garrans &c. (Ireland). Illinois? tz. Thuringia. Saxony &c.
Llan	capillaris, Garruthers. gracilis, Hall, linearis, Carruthers. Cladopora. lichenoides, Winchell & Marcy. verticillata ", Climacograptus. bicornis, Hall. minutus, Carruthers. Cyrtograptus, Carr Murchisoni, Carruthers. Dendograptus. lentus, Carruthers.	GRAPSUS, Nicholson. Moffat (Scotland). Moffat (Scotland) &c. Moffat (Scotland). Chicago (Illinois). " Moffat (Scotland) &c. Moffat (Scotland) &c. Moffat (Scotland). uthers, 1867.	Queb. G Llan	bryonoides, Hall Clingani, Carruthers Halli, Barr intermedius, Carruthers nitidus, Hall ovatus, Barr Salteri, Carruthers Sedgwickii, Portlock Hellipora. antheloidea, Meek & Worthen Nereograpsus, Geintz Sedgwickii, tenuissimus, Emmons Phyllograptus, Hall	South Australia &c. Moffat. Moffat &c. Point Lévis (CanadaE) South Australia. Bohemia. Moffat. Kilnacreagh, Garrans &c. (Ireland). Illinois? tz. Thuringia. Saxony &c. ; Graptopora, Salter.
Llan	capillaris, Garruthers. gracilis, Hall, linearis, Carruthers. Cladopora. lichenoides, Winchell & Marcy. verticillata " Climacograptus. bicornis, Hall. minutus, Carruthers. Cyrtograptus, Carr Murchisoni, Carruthers. Dendograptus. lentus, Carruthers. Dichograptus.	GRAPSUS, Nicholson. Moffat (Scotland). Moffat (Scotland) &c. Moffat (Scotland). Chicago (Illinois). " Moffat (Scotland) &c. Moffat (Scotland) &c. Moffat (Scotland). uthers, 1867. Builth, Pencerrig (W.), Fermanagh (Ireland).	Queb. G Llan Llan Llan., Carad ? Llan.? Llan	bryonoides, Hall Clingani, Carruthers Halli, Barr intermedius, Carruthers nitidus, Hall ovatus, Barr Salteri, Carruthers Sedgwickii, Portlock Hellipora. antheloidea, Meek & Worthen Nereograpsus, Geintz Sedgwickii, tenuissimus, Emmons Phyllograptus, Hall	South Australia &c. Moffat. Moffat &c. Point Lévis (CanadaE) South Australia. Bohemia. Moffat. Kilnacreagh, Garrans &c. (Ireland). Illinois? tz. Thuringia. Saxony &c. ; Graptopora, Salter. Skiddaw Slate (Cum
Llan	capillaris, Garruthers. gracilis, Hall, linearis, Carruthers. Cladopora. lichenoides, Winchell & Marcy. verticillata " Climacograptus. bicornis, Hall. minutus, Carruthers. Cyrtograptus, Carr Murchisoni, Carruthers. Dendograptus. lentus, Carruthers. Dichograptus.	GRAPSUS, Nicholson. Moffat (Scotland). Moffat (Scotland) &c. Moffat (Scotland). Chicago (Illinois). " Moffat (Scotland) &c. Moffat (Scotland). uthers, 1867. Builth, Pencerrig (W.), Fermanagh (Ireland). Victoria (S. Australia). Point Lévis (Canada E.),	Queb. G Llan Llan Llan. Carad ? Llan.? Llan. ? Llan Queb. G., CS., CH.	bryonoides, Hall Clingani, Carruthers Halli, Barr intermedius, Carruthers nitidus, Hall ovatus, Barr Salteri, Carruthers Sedgwickii, Portlock Hellipora. antheloidea, Meek & Worthen Nereograpsus, Geimtz Sedgwickii, tenuissimus, Emmons Phyllograptus, Hall angustifolius, Hall	South Australia &c. Moffat. Moffat. Moffat &c. Point Lévis (CanadaE South Australia. Bohemia. Moffat. Kilnacreagh, Garrans &c. (Ireland). Illinois? tz. Thuringia. Saxony &c. ; Graptopara, Salter. Skiddaw Slate (Cumberland) &c. Canada.
Llan	capillaris, Carruthers. gracilis, Hall, linearis, Carruthers. Cladopora. lichenoides, Winchell & Marcy. verticillata Climacograptus. bicornis, Hall. minutus, Carruthers. Cyrtograptus, Carruthers. Cyrtograptus, Carruthers. Dendograptus. lentus, Carruthers. Dichograptus. Logani, Hall. var. "	GRAPSUS, Nicholson. Moffat (Scotland). Moffat (Scotland) &c. Moffat (Scotland). Chicago (Illinois). " Moffat (Scotland) &c. Moffat (Scotland). uthers, 1867. Builth, Pencerrig (W.), Fermanagh (Ireland). Victoria (S. Australia). Point Lévis (Canada E.), Skiddaw (England).	Queb. G Llan	bryonoides, Hall Clingani, Carruthers Halli, Barr intermedius, Carruthers nitidus, Hall ovatus, Barr Salteri, Carruthers Sedgwickii, Portlock Hellipora. antheloidea, Meek & Worthen Nereograpsus, Geimtz Sedgwickii, tenuissimus, Emmons Phyllograptus, Hall angustifolius, Hall	South Australia &c. Moffat. Moffat &c. Point Lévis (CanadaE South Australia. Bohemia. Moffat. Kilnacreagh, Garrana &c. (Ireland). Illinois? tz. Thuringia. Saxony &c. ; Geaptopora, Salter Skiddaw Slate (Cumberland) &c.
Llan	capillaris, Garruthers. gracilis, Hall, linearis, Carruthers. Cladopora. lichenoides, Winchell & Marcy. verticillata Climacograptus. bicornis, Hall. minutus, Carruthers. Cyrtograptus, Carr Murchisoni, Carruthers. Dendograptus. lentus, Carruthers. Dichograptus. Logani, Hall. var. multiplex, Nicholson.	GRAPSUS, Nicholson. Moffat (Scotland). Moffat (Scotland) &c. Moffat (Scotland). Chicago (Illinois). " Moffat (Scotland) &c. Moffat (Scotland). " Moffat (Scotland). " Moffat (Scotland). " Moffat (Scotland). " Fermangh (Feland). Victoria (S. Australia). Victoria (S. Australia). Skiddaw (England). Skiddaw (Cumberland).	Queb. G Llan	bryonoides, Hall Clingani, Carruthers Halli, Barr intermedius, Carruthers nitidus, Hall ovatus, Barr Salteri, Carruthers Sedgwickii, Portlock Hellipora. antheloidea, Meek & Worthen Nereograpsus, Geimtz Sedgwickii, tenuissimus, Emmons Phyllograptus, Hall angustifolius, Hall Anna, flabelliformis, Angel iliciformis, Hall	South Australia &c. Moffat. Moffat. Moffat &c. Point Lévis (CanadaE South Australia. Bohemia. Moffat. Kilnacreagh, Garrans &c. (Ireland). Illinois? tz. Thuringia. Saxony &c. ; Graptopara, Salter. Skiddaw Slate (Cumberland) &c. Canada.
Llan	capillaris, Carruthers. gracilis, Hall, linearis, Carruthers. Cladopora. lichenoides, Winchell & Marcy. verticillata Climacograptus. bicornis, Hall. minutus, Carruthers. Cyrtograptus, Carruthers. Cyrtograptus, Carruthers. Dendograptus. lentus, Carruthers. Dichograptus. Logani, Hall. var. "	GRAPSUS, Nicholson. Moffat (Scotland). Moffat (Scotland) &c. Moffat (Scotland). Chicago (Illinois). " Moffat (Scotland) &c. Moffat (Scotland). " Moffat (Scotland). " Moffat (Scotland). " Moffat (Scotland). " " Moffat (Scotland). " " " Moffat (Scotland). " " " " " " " " " " " " "	Queb. G Queb. G Llan	bryonoides, Hall Clingani, Carruthers Halli, Barr intermedius, Carruthers nitidus, Hall ovatus, Barr Salteri, Carruthers Sedgwickii, Portlock Hellipora. antheloidea, Meek & Worthen Nereograpsus, Geinitz Sedgwickii, tenuissimus, Emmons Phyllograptus, Hall angustifolius, Hall Anna, flabelliformis, iliciformis, Hall typus,	South Australia &c. Moffat. Moffat &c. Point Lévis (CanadaE South Australia. Bohemia. Moffat. Kilnacreagh, Garrans &c. (Ireland). Illinois? tz. Thuringia. Saxony &c. ; Geaptopora, Salter. Skiddaw Slate (Cumberland) &c. Canada. Norway. Canada.
Llan	capillaris, Garruthers. gracilis, Hall, linearis, Carruthers. Cladopora. lichenoides, Winchell & Marcy. verticillata Climacograptus. bicornis, Hall. minutus, Carruthers. Cyrtograptus, Carr Murchisoni, Carruthers. Dendograptus. lentus, Carruthers. Dichograptus. Logani, Hall. var. multiplex, Nicholson.	GRAPSUS, Nicholson. Moffat (Scotland). Moffat (Scotland) &c. Moffat (Scotland). Chicago (Illinois). " Moffat (Scotland) &c. Moffat (Scotland). " Moffat (Scotland). uthers, 1867. Builth, Pencerrig (W.), Fermanagh (Ireland). Victoria (S. Australia). Point Lévis (Canada E.), Skiddaw (England). Skiddaw (Cumberland). Point Lévis (Canada E.), Skiddaw (England).	Queb. G Llan	bryonoides, Hall Clingani, Carruthers Halli, Barr intermedius, Carruthers nitidus, Hall ovatus, Barr Salteri, Carruthers Sedgwickii, Portlock Hellipora. antheloidea, Meek & Worthen Nereograpsus, Geint Cambrensis, Geintz Sedgwickii, tenuissimus, Emmons Phyllograptus, Hall angustifolius, Hall Anna, flabelliformis, iliciformis, Hall typus, Ptilograptus, Hall	South Australia &c. Moffat. Moffat &c. Point Lévis (CanadaE South Australia. Bohemia. Moffat. Kilnacreagh, Garrans &c. (Ireland). Illinois? tz. Thuringia. Saxony &c. ; Geaptofora, Salter. Skiddaw Slate (Cumberland) &c. Canada. Norway. Canada. 1865.
Llan	capillaris, Garruthers. gracilis, Hall, linearis, Carruthers. Cladopora. lichenoides, Winchell & Marcy. verticillata " Climacograptus. bicornis, Hall. minutus, Carruthers. Cyrtograptus, Carruthers. Dendograptus. lentus, Carruthers. Dichograptus. Logani, Hall. var. " multiplex, Nicholson. octobrachiatus, Hall.	GRAPSUS, Nicholson. Moffat (Scotland). Moffat (Scotland) &c. Moffat (Scotland). Chicago (Illinois). " Moffat (Scotland) &c. Moffat (Scotland). Moffat (Scotland). " Withers, 1867. Builth, Pencerrig (W.), Fermanagh (Ireland). Victoria (S. Australia). Point Lévis (Canada E.), Skiddaw (England). Skiddaw (England), Skiddaw (England), South Australia.	Queb. G Queb. G Llan	bryonoides, Hall Clingani, Carruthers Halli, Barr intermedius, Carruthers nitidus, Hall ovatus, Barr Salteri, Carruthers Sedgwickii, Portlock Hellipora. antheloidea, Meek & Worthen Nereograpsus, Geintz Sedgwickii, tenuissimus, Emmons Phyllograptus, Hall angustifolius, Hall Anna, flabelliformis, Hall typus, Ptilograptus, Hall typus, Ptilograptus, Hall	South Australia &c. Moffat. Moffat. Moffat &c. Point Lévis (CanadaE South Australia. Bohemia. Moffat. Kilnacreagh, Garrana &c. (Ireland). Illinois? tz. Thuringia. Saxony &c. ; Geaptofora, Salter Skiddaw Slate (Cumberland) &c. Canada. Norway. Canada. 1865. Point Lévis (Can. E.).
Llan	capillaris, Garruthers. gracilis, Hall, linearis, Carruthers. Cladopora. lichenoides, Winchell & Marcy. verticillata " Climacograptus. bicornis, Hall. minutus, Carruthers. Cyrtograptus, Carr Murchisoni, Carruthers. Dendograptus. lentus, Carruthers. Dichograptus. Logani, Hall. var. " multiplex, Nicholson. octobrachiatus, Nicholson.	GRAPSUS, Nicholson. Moffat (Scotland). Moffat (Scotland) &c. Moffat (Scotland). Chicago (Illinois). " Moffat (Scotland) &c. Moffat (Scotland). Moffat (Scotland). " Withers, 1867. Builth, Pencerrig (W.), Fermanagh (Ireland). Victoria (S. Australia). Point Lévis (Canada E.), Skiddaw (England). Skiddaw (England), Skiddaw (England), South Australia.	Queb. G Queb. G Llan	bryonoides, Clingani, Carruthers Halli, Barr intermedius, Carruthers nitidus, Hall ovatus, Barr Salteri, Carruthers Sedgwickii, Portlock Hellipora. antheloidea, Meek & Worthen Nereograpsus, Geintz Sedgwickii, tenuissimus, Emmons Phyllograptus, Hall angustifolius, Hall Anna, flabelliformis, iliciformis, typus, Ftilograptus, Hall typus, Geinitzianus, plumosus, "Hall Hall, plumosus,"	South Australia &c. Moffat. Moffat &c. Point Lévis (CanadaE South Australia. Bohemia. Moffat. Kilnacreagh, Garrana &c. (Ireland). Illinois? tz. Thuringia. Saxony &c. ; Graptopora, Salter Skiddaw Slate (Cumberland) &c. Canada. Norway. Canada. 1865.
Llan	capillaris, Garruthers. gracilis, Hall, linearis, Carruthers. Cladopora. lichenoides, Winchell & Marcy. verticillata " Climacograptus. bicornis, Hall. minutus, Carruthers. Cyrtograptus, Carr Murchisoni, Carruthers. Dendograptus. lentus, Carruthers. Dichograptus. Logani, Hall. var. " multiplex, Nicholson. octobrachiatus, Hall. reticularis, Nicholson. Dictyonema.	GRAPSUS, Nicholson. Moffat (Scotland). Moffat (Scotland) &c. Moffat (Scotland). Chicago (Illinois). " Moffat (Scotland) &c. Moffat (Scotland). Moffat (Scotland). " Withers, 1867. Builth, Pencerrig (W.), Fermanagh (Ireland). Victoria (S. Australia). Point Lévis (Canada E.), Skiddaw (England). Skiddaw (England), Skiddaw (England), South Australia.	Queb. G Queb. G Llan	bryonoides, Clingani, Carruthers Halli, Barr intermedius, Carruthers nitidus, Hall ovatus, Barr Salteri, Carruthers Sedgwickii, Portlock Hellipora. antheloidea, Meek & Worthen Nereograpsus, Geimtz Sedgwickii, tenuissimus, Emmons Phyllograptus, Hall angustifolius, Hall Anna, flabelliformis, iliciformis, typus, Ptilograptus, Hall typus, Ptilograptus, Hall plumosus, plumosus, Retepora.	South Australia &c. Moffat. Moffat. Moffat &c. Point Lévis (CanadaE South Australia. Bohemia. Moffat. Kilnacreagh, Garran &c. (Ireland). Illinois? tz. Thuringia. Saxony &c. ; Geaptofora, Salter Skiddaw Slate (Cumberland) &c. Canada. Norway. Canada. 1865. Point Lévis (Can. E.)

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Subdivision.	Genus, Sp.		Locality.	Subdivision.	Genus, Species, and Author.	Locality.
	Retiolites.		4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	L. H. G	Artemis, Billing	s. Cape Bonami, Gaspe
Pleta			Poulkova (Russia).	The		(Canada East).
"	deformatus,	,,,	Czarskoe-selo (Russia).	Llan	Barr.	Norway &c.
CL	Rhinopora angulata,		New York.		kali, Salte	. (Himalaya) Kalajowar.
Niag	. tuberculosa,	Hall.	,,	L. H. G		s. Cape Bonami (Gaspé).
CL		, ,,	", Dundas (Ca-	Potsd. Sa	pinnæformis, D. D. Ower	(Wisconsin) River St.
", Niag	. verrucosa,	"	nada West).	Tr		. (Wisconsin) Plattville.
	Tetragrap	sus, Salter.				Fort Garry, Rupert's
L.Llan	. crucifer,	Hall.	Skiddaw (Cumberland)		Lingulella.	Land (N. America).
L.Llan., Queb.	Headi.	"	&c. Skiddaw, Point Lévis	L.Lingula Fl		. Christiania (Norw.) &c.
G.	Graptolith	bus.	(Canada East).	L.Llan., Mene-	ferruginea, Hicks	St. David's (S. Wales).
				vian Gp.	var. ovalis. Meganteris.	
	BRACI	HIOPOD.	A.	U.Pent. Lst		(New York) Schoharie
	T					County.
W., L	Athyris.	Sowanha	(Ireland) Derrymore	Delth. Sh. Lst	elliptica, ,, lævis,	(N. York) Albany Co.
	Rhynchone	ella.	Glen &c.	., .,	prima, Conrad	. ", Albany and
W., L.L	obovata,		Thuringia &c. (Ireland) Coosathorig,			Columbia Counties.
n n	tumida, Meristella.	Dalm.	(Ireland) Coosathorig, Bull's Head, Kerry,	Fauna F	Merista.	Bohemia, Gaspé (Ca-
	Autrested.		&c.	Paulia P		nada East).
****	Atrypa.	0.11		Delth.Sh. Lst	lævis, Vanuxen	(New York) Herkimer
U.Llandov., W	aspera, reticularis.		Norway, England, &c.	U.Pentam. Lst.	princeps Hall	&c. Counties. (New York) Carlisle
U.Llandov	crassicostis?	Murch.	Norway.		princeps, Han	and Schoharie Cos.
H. R. G	hemiplicata,	Hall.	Turkey River, Iowa,	W	Meristella.	Foodond D.L.
W. &c.	hemisphæric	a. Sowerby.	Wisconsin. (Ireland) Bull's Head,	W	Circe, Bari	England, Bohemia, Gothland.
			Kerry, &c.	Niag., W		Gothland &c. (Hall.)
Carad., Llandov Tr. &c	marginalis,		(Irel.) Bull's Head &c. Savannah (Illinois).	Lower Silurian.	Obolus.	Spain, Norway.
Pleta			(Ostrogoth.) Husbyfjol,	Lower Shurian.	Orthis.	
			(Esthon.)Reval,(Rus-	Pleta	Asmussi, Verneuil	(Esthon.) Réval, Odins-
	phoca.	Salter	sia) St. Petersburg. Gothland &c.	H. R. G. &c	hiforata Schlotl	holm. Russia &c.
W. &c			Norway, (Irel.) Bull's	Llandov. &c	biloba, Linnæus	Norway.
		D.L.	Head.	Llan., W., &c	calligramma, Daln	Ferriter's Cove
Pentam. L., W.	tumius,	Daim.	Norway, Walsall (Eng- land), New York.	Carad	var. virgata, Sowerby	(Ireland), Thuringia. Ballyvorgan, (Irel.) &c.
_	Chonetes.					(Himalaya) Niti and
Lower Silurian.	nana,	Verneuil.	(Indiana) Charlston, (Ohio) Louisville.			Mamrang Passes, Damchen.
	Discina.		(Olio) Louisville.		convexa, ,,	Himalaya, Niti, Dam-
L. H. G	bella,		Cape Bonami, Gaspé.			chen.
Tr	cancellata, Trematis.	Sowerby.	New York &c.	Carad., W., &c.	elegantula, Dalm	(Ireland) Ballyvorgan, Bull'sHead, Ferriter's
Potsdam Sa		Hall.	(N. Wisconsin) Mazo-			Cove, Yarra (South
Oboles 6-	MANAGER	Same 1	mania.	Delah Sh. T.	aminana TT V	Austral.), N.W. Harz.
Obolus Sa	Leptæna.	sowerby.	Russia, Ireland, &c.	Delth.Sh.Lst	eminens, Hall	(N.E. New York) Car- lisle County &c.
	Himalensis,	Salter.	(Himalaya) Niti, Chor-	W., L	filosa, Sowerby	. Kendal (Westmorel.),
	var. textilis		hoti Pass.	Carad., L.Llan-	insularis Fisher	Llandeilo &c.(Wales). Norway &c.
Lower Silurian.		Davidson.	(Canada W.) Toronto.	dov.	modatio, Eschw	and may wo
TI The de-	Jaschei,	Römer.	N.W. Harz (Germany).	Corall.L., Scho-	interstriata, Hall	(New York) Schoharie
U.Llandov	lævigata, Chonetes.	Sowerby.	Thuringia &c.	harie. Tr., Llandov	lamellosa Logan	County. Lake St. Louis (Canada
	minima,	-"	". "			East), Norway.
	nux,	Salter.	Himalaya, Niti, Milam Glacier, and Kala-		lata, Sowerby	South Thuringia &c. Gothland &c.
		1	jowar.		monticula, Salter.	(Himalaya) Damchen.
	repanda,	"	(Himalaya) Niti, Dam-	H. R. G		(Wisconsin) Green Bay,
	rugosa,	Dalm	chen. N.W. Harz &c.		parva, Pander.	L. Michigan. (N. York) Jacksonburg.
Carad. &c	sericea,		S. Thuringia (Can W.),			(Ohio) Cincinnati &c.
	transversalis,	Dalm	Toronto, &c. S. Thuringia.	Carad	pecten, ?	Norway. (Wisconsin) Mineral
"	Lingula.	Datin.	o. Thurmgia.	Tr	conrad.	(Wisconsin) Mineral Point &c.
	ancyloides,	Salter.	(Himalaya) Damschen		var. semiovalis, Hall.	(N. York) Watertown
Potsd. Sa	antiqua.	Hall	(16,500 feet high). Wisconsin) Falls of St.	Carad., W	rustica. Sowerby	&c. Bull's Head, Kerry, &c.
			Croix &c.			(Himala.)Niti, Rimkin.
	-	-				

Subdivision.	Genus, Species, and Author.	Locality.	Subdivision.	Genus, Species, and and Author.	d Locality.
	Tibetica, Salter.	(Himalaya) Niti, Ku-		Astarte.	
	- Tootion, Cultur	maon.	E. e. 2		rr. Karlstein (Bohemia).
	uncata,	(Himalaya) Niti, Chor-			on the
		hoti Pass.	G. g. 2	subrotunda, ,	, Vavrovitz. "
	Pentamerus.			Cardiomorpha.	"
W. &c	galeatus, Dalm.	(France) Cotentin &c.	E. e. 2		rr. Dvoretz, Lockhov (Boh
Llandov. &c		Russia &c.		Cardiola.	
,, ,,	oblongus, "	Gothland &c.	E. e. 1, 2	alata, Ba	rr. Butovitz, HKopanin
Niag	ventricosus? Hall &	Wisconsin.	E. e. 1, W., L		, Viskocilka.
	Whitney.		E. e. 1, D,Col	gibbosa, ,	, Butovitz.
	Retzia.		Carad., E. e. 2	interrupta, ,	
W	reticulata, M'Coy.	Cheney Longueville			, Dvoretz.
		(Shropshire), Mel-			ter. Dlauha Hora.
	D1 11.	bourne (Australia).		Cardium.	T 14:
ATT C.	Rhynchonella.	G 01-1 N 6	E. e. 2	3 11	rr. Karlstein.
W. &c		Gothland, Norway, &c.		delicatum, ,	17 1-4-1-
Fauna E &c	narioula Sowerby.	Thuringia. (Bohemia) Beraun &c.	"	primulum, Conocardium.	, Karlstein.
W. &c	The state of the s	North and Mid. Goth-	F. f. 2	Rohamiaum Bo	rr. Konieprus.
17 . 000	nucula, "	land &c.	F. I. 2	Ctenodonta = Nuc	
Delth. Sh. Lst	Stricklandia	Gothland &c.	D. d. 1, 3, 4		rr. Trubin, Zahorzan, Vo-
&c.	Stricklandia, "	Gottinana &c.	D. a. 1, 0, 1	Donellicum, Do	sek.
	Siphonotreta.	Design Control	D. d. 3, 4	major.	, Trubin, Lodenitz.
Pleta		(Russia) Archangelskoi,	2. a. o, 1	Cypricardia.	, article, accutilities
	might be a second	River Volkof, &c.	E. e. 2		rr. Dvoretz, Lockhov.
	Spirifera.	and to the total total	D. d. 2		, Mount Drabow (Bo-
Delth. Sh. Lst.		(New York) Albany and		,	hemia).
		Schoharie Counties.	F. f. 2	gratiosa, ,	Vonionma
,, ,,	perforata, ,,	(New York) Albany and		migrans,	, Butovitz, Dvoretz.
		Hudson Counties.	F. f. 2	nitidula, ,	Wanismus.
	Spirigerina = ATRYF	Α.	E. e. 2	perlata, ,	, Hinter-Kopanina, Lei
W	imbricata, Sowerby.	Britain, Russia, Goth-			kow.
		land.	D. d. 5		, Leiskow.
	Stricklandinia.		F. f. 2		, Konieprus.
U.Llandov	Davidsoni, Billings.	(Anticosti) S.W. Point			, ,,
	a 1	&c.		submissa, ,	·
**	Salteri, ,,	(Anticosti) Heath Point	D. d. 4	veterana.	Lodenitz.
"			D. U. 1	7000101101,	
		&c.		Hemicardium, C	uvi er.
	Strophomena*.	&c.	D. d. 5, E. e. 2	Hemicardium, C colonum, Ba	uvi er. arr. Col. Beranka, Butovit
200	Strophomena*.	&c. (New York) Albany and	D. d. 5, E. e. 2 E. e. 2	Hemicardium, C colonum, Be elevatum,	uvi er. arr. Col. Beranka, Butovit Viskocilka (Bohemia).
200	Strophomena*.	&c.	D. d. 5, E. e. 2 E. e. 2	Hemicardium, C colonum, Ba elevatum, humile,	uvi er. arr. Col. Beranka, Butovit
Delth. Sh. Lst * N.B.—Hall	Strophomena*. cavumbona, Hall. states that the followi	&c. (New York) Albany and Columbia Counties. ng species, described as	D. d. 5, E. e. 2 E. e. 2	Hemicardium, C colonum, Bi elevatum, humile, Isocardium?	uvi er. arr. Col. Beranka, Butovit Viskocilka (Bohemia) Dvoretz, Lockhov.
Delth. Sh. Lst * N.B.—Hall this genus, are	Strophomena*. cavumbona, Hall. states that the followi	&c. (New York) Albany and Columbia Counties. In species, described as genus Streptorhynchus	D. d. 5, E. e. 2 E. e. 2 E. e. 2	Hemicardium, C colonum, Bo elevatum, humile, Isocardium? major, Bo	uvi er. Arr. Col. Beranka, Butovit Viskocilka (Bohemia) Dvoretz, Lockhov. Dvoretz (Bohemia).
* N.B.—Hall this genus, are (King):—S. alt	Strophomena*. cavumbona, Hall. states that the followi more nearly allied to the ternata. deltoidea, defle	&c. (New York) Albany and Columbia Counties. In species, described as genus Streptorhynchus tta, filitexta, incrassata,	D. d. 5, E. e. 2 E. e. 2	Hemicardium, C colonum, Bo elevatum, humile, Isocardium? major, Bo minor,	uvi er. arr. Col. Beranka, Butovit Viskocilka (Bohemia) Dvoretz, Lockhov. arr. Dvoretz (Bohemia).
* N.B.—Hall this genus, are (King):—S. alt	Strophomena*. cavumbona, Hall. states that the followi	&c. (New York) Albany and Columbia Counties. In species, described as genus Streptorhynchus tta, filitexta, incrassata,	D. d. 5, E. e. 2 E. e. 2	Hemicardium, C colonum, Ba elevatum, humile, Isocardium? major, Ba minor, simplex,	uvi er. arr. Col. Beranka, Butovit Viskocilka (Bohemia) Dvoretz, Lockhov. arr. Dvoretz (Bohemia).
* N.B.—Hall this genus, are (King):—S. alt	Strophomena*. cavumbona, Hall. states that the followi more nearly allied to the ternata. deltoidea, defle	&c. (New York) Albany and Columbia Counties. In species, described as genus Streptorhynchus tta, filitexta, incrassata,	D. d. 5, E. e. 2 E. e. 2	Hemicardium, C colonum, Bo elevatum, humile, Isocardium? major, Bo minor,	uvi er. arr. Col. Beranka, Butovit Viskocilka (Bohemia) Dvoretz, Lockhov. arr. Dvoretz (Bohemia). , Hinter-Kopanina (Bo
* N.B.—Hall this genus, are (King):—S. alt	Strophomena*. cavumbona, Hall. states that the followi more nearly allied to the ternata. deltoidea, defle rofunda?, recta, rugosa,	&c. (New York) Albany and Columbia Counties. In species, described as genus Streptorhynchus eta, filitexta, incrassata, subplana.	D. d. 5, E. e. 2 E. e. 2	Hemicardium, C colonum, Ba elevatum, humile, Isocardium? major, Ba minor, simplex, Lucina?	uvi er. arr. Col. Beranka, Butovit Viskocilka (Bohemia). Dvoretz, Lockhov. arr. Dvoretz (Bohemia). Hinter-Kopanina (Bo
* N.B.—Hall this genus, are (King):—S. alt	Strophomena*. cavumbona, Hall. states that the followi more nearly allied to the ternata. deltoidea, defle	&c. (New York) Albany and Columbia Counties. In species, described as genus Streptorhynchus eta, filitexta, incrassata, subplana.	D. d. 5, E. e. 2 E. e. 2	Hemicardium, C colonum, Ba elevatum, humile, Isocardium? major, Ba minor, simplex, Lucina? calva, Ba	uvi er. arr. Col. Beranka, Butovit Viskocilka (Bohemia). Dvoretz, Lockhov. arr. Dvoretz (Bohemia). Hinter-Kopanina (Bohemia). arr. Dvoretz (Bohemia).
* N.B.—Hall this genus, are (King):—S. alt	Strophomena*. cavumbona, Hall. states that the followi more nearly allied to the ternata. deltoidea, defle rofunda?, recta, rugosa, MONOMYARI	&c. (New York) Albany and Columbia Counties. In species, described as genus Streptorhynchus eta, filitexta, incrassata, subplana.	D. d. 5, E. e. 2 E. e. 2	Hemicardium, C colonum, Ba elevatum, humile, Isocardium? major, Ba minor, simplex, Lucina? calva, Ba mater,	uvi er. Arr. Col. Beranka, Butovit Viskocilka (Bohemia) Dvoretz, Lockhov. Arr. Dvoretz (Bohemia). "" Hinter-Kopanina (Bohemia). Arr. Dvoretz (Bohemia).
* N.B.—Hall this genus, are (King):—S. alt planumbona, pr	Strophomena*. cavumbona, Hall. states that the followi more nearly allied to the ternata. deltoidea, defle rofunda?, recta, rugosa, MONOMYARI Avicula.	&c. (New York) Albany and Columbia Counties. In species, described as genus Streptorhynchus Ita, filitexta, incrassata, subplana. A.	D. d. 5, E. e. 2 E. e. 2	Hemicardium, C colonum, Be elevatum, humile, Isocardium? major, Be minor, simplex, Lucina? calva, Be mater, soror, Lunulacardium.	uvi er. arr. Col. Beranka, Butovit Viskocilka (Bohemia). Dvoretz, Lockhov. arr. Dvoretz (Bohemia). Hinter-Kopanina (Bohemia). Arr. Dvoretz (Bohemia). Karlstein Dvoretz "
* N.B.—Hall this genus, are (King):—S. alt planumbona, pr	Strophomena*. cavumbona, Hall. states that the followi more nearly allied to the ternata. deltoidea, defle rofunda?, recta, rugosa, MONOMYARI Avicula.	&c. (New York) Albany and Columbia Counties. In species, described as genus Streptorhynchus Ita, filitexta, incrassata, subplana. A. Konieprus, Lockhov	D. d. 5, E. e. 2 E. e. 2	Hemicardium, C colonum, Be elevatum, humile, Isocardium? major, Be minor, simplex, Lucina? calva, Be mater, soror, Lunulacardium. Bohemicum, Be	uvi er. arr. Col. Beranka, Butovit Viskocilka (Bohemia) Dvoretz, Lockhov. arr. Dvoretz (Bohemia). Hinter-Kopanina (Bohemia). Dvoretz (Bohemia). Arr. Dvoretz (Bohemia). Karlstein " Dvoretz " Arr. Karlstein (Bohemia).
* N.B.—Hall this genus, are (King):—S. alt planumbona, pr	Strophomena*. cavumbona, Hall. states that the followi more nearly allied to the ternata. deltoidea, defle rofunda?, recta, rugosa, MONOMYARI Avicula. Cybele, Barr	&c. (New York) Albany and Columbia Counties. In species, described as genus Streptorhynchus Ita, filitexta, incrassata, subplana. A. Konieprus, Lockhov (Bohemia).	D. d. 5, E. e. 2 E. e. 2	Hemicardium, C colonum, Bi elevatum, humile, Isocardium? major, Bi minor, simplex, Lucina? calva, Bi mater, soror, Lunulacardium. Bohemicum, Bi Carolinum,	uvi er. arr. Col. Beranka, Butovit Viskocilka (Bohemia) Dvoretz, Lockhov. arr. Dvoretz (Bohemia). Hinter-Kopanina (Bohemia). Arr. Dvoretz (Bohemia). Karlstein Dvoretz " " " " " " " " " " " " " " " " " " "
* N.B.—Hall this genus, are (King):—S. alt planumbona, pr	Strophomena*. cavumbona, Hall. states that the followi more nearly allied to the ternata. deltoidea, defle rofunda?, recta, rugosa, MONOMYARI Avicula. Cybele, Barr dispersa, ,,	&c. (New York) Albany and Columbia Counties. In species, described as genus Streptorhynchus Ita, filitexta, incrassata, subplana. A. Konieprus, Lockhov (Bohemia). Dvoretz (Bohemia).	D. d. 5, E. e. 2 E. e. 2	Hemicardium, C colonum, Ba elevatum, humile, Isocardium? major, Ba minor, simplex, Lucina? calva, Ba mater, soror, Lunulacardium. Bohemicum, Ba Carolinum, dimidiatum,	uvi er. arr. Col. Beranka, Butovit Viskocilka (Bohemia) Dvoretz, Lockhov. arr. Dvoretz (Bohemia). "Hinter-Kopanina (Bohemia). arr. Dvoretz (Bohemia). arr. Dvoretz (Bohemia). arr. Karlstein " Dvoretz "
* N.B.—Hall this genus, are (King):—S. alt planumbona, pr	Strophomena*. cavumbona, Hall. states that the followi more nearly allied to the ternata. deltoidea, defle rofunda?, recta, rugosa, MONOMYARI Avicula. Cybele, Barr dispersa, " explanata, "	&c. (New York) Albany and Columbia Counties. In species, described as genus Streptorhynchus eta, filitexta, incrassata, subplana. A. Konieprus, Lockhov (Bohemia). Dvoretz (Bohemia). Butovitz "	D. d. 5, E. e. 2 E. e. 2	Hemicardium, C colonum, Ba elevatum, humile, Isocardium? major, Ba minor, simplex, Lucina? calva, Ba mater, soror, Lunulacardium. Bohemicum, Carolinum, dimidiatum, Mytilus.	arr. Col. Beranka, Butovit Viskocilka (Bohemia). Dvoretz, Lockhov. Arr. Dvoretz (Bohemia). Hinter-Kopanina (Bohemia). Arr. Dvoretz (Bohemia). Karlstein "Dvoretz " Arr. Karlstein (Bohemia). Dvoretz "
* N.B.—Hall this genus, are (King):—S. alt planumbona, pr	Strophomena*. cavumbona, Hall. states that the following more nearly allied to the ternata. deltoidea, defle rofunda?, recta, rugosa, MONOMYARI Avicula. Cybele, Barr dispersa, " explanata, " imperfecta, "	&c. (New York) Albany and Columbia Counties. In species, described as genus Streptorhynchus Ita, filitexta, incrassata, subplana. A. Konieprus, Lockhov (Bohemia). Dvoretz (Bohemia). Butovitz "Konieprus",	D. d. 5, E. e. 2 E. e. 2	Hemicardium, C colonum, Bi elevatum, humile, Isocardium? major, Bi major, Simplex, Lucina? calva, Bi mater, soror, Lunulacardium. Bohemicum, Bi Carolinum, dimidiatum, Mytilus. consors, Bi	arr. Col. Beranka, Butovit Viskocilka (Bohemia) Dvoretz, Lockhov. arr. Dvoretz (Bohemia). Hinter-Kopanina (Bohemia). Arr. Dvoretz (Bohemia). Karlstein Dvoretz Arr. Karlstein (Bohemia). Arr. Karlstein (Bohemia). Arr. Dvoretz Arr. Lovoretz Bohemia). Arr. Dvoretz Bohemia).
* N.B.—Hall this genus, are (King):—S. alt planumbona, pr	states that the followimore nearly allied to the ternata. deltoidea, deflerofunda?, recta, rugosa, MONOMYARI Avicula. Cybele, Barr dispersa, explanata, imperfecta, manulia, "	&c. (New York) Albany and Columbia Counties. In species, described as genus Streptorhynchus Ita, filitexta, incrassata, subplana. A. Konieprus, Lockhov (Bohemia). Dvoretz (Bohemia). Butovitz "Konieprus "Bubovitz" Bubovitz "	D. d. 5, E. e. 2 E. e. 2	Hemicardium, C colonum, Ba elevatum, humile, Isocardium? major, Ba minor, simplex, Lucina? calva, Ba mater, soror, Lunulacardium. Bohemicum, Ba Carolinum, dimidiatum, Mytilus. consors, Ba conspicuus,	arr. Col. Beranka, Butovit Viskocilka (Bohemia) Dvoretz, Lockhov. Arr. Dvoretz (Bohemia). Hinter-Kopanina (Bohemia). Arr. Dvoretz (Bohemia). Karlstein Dvoretz Arr. Karlstein (Bohemia). Arr. Karlstein (Bohemia). Arr. Covoretz Bohemia). Arr. Novoretz Bohemia). Bounderus Bohemia
* N.B.—Hall this genus, are (King):—S. alt planumbona, pr E. f. 2 F. f. 2 E. e. 1 E. e. 1 E. e. 2	states that the followimore nearly allied to the ternata. deltoidea, deflerofunda?, recta, rugosa, MONOMYARI Avicula. Cybele, Barr dispersa, explanata, imperfecta, manulia, migrans, victoria.	&c. (New York) Albany and Columbia Counties. In species, described as genus Streptorhynchuseta, filitexta, incrassata, subplana. A. Konieprus, Lockhov (Bohemia). Dvoretz (Bohemia). Butovitz "Konieprus "Bubovitz "Lockhov "Lockhov "	D. d. 5, E. e. 2 E. e. 2	Hemicardium, C colonum, elevatum, humile, Isocardium? major, simplex, Lucina? calva, soror, Lunulacardium. Bohemicum, Carolinum, dimidiatum, Mytilus. consors, elongatus, elongatus,	arr. Col. Beranka, Butovit Viskocilka (Bohemia) Dvoretz, Lockhov. arr. Dvoretz (Bohemia). Hinter-Kopanina (Bohemia). Arr. Dvoretz (Bohemia). Karlstein Dvoretz Arr. Karlstein (Bohemia). Dvoretz Arr. Karlstein (Bohemia). Arr. Korlstein (Bohemia). Dvoretz Bohemia). Dvoretz Bohemia). Bohemia
* N.B.—Hall this genus, are (King):—S. alt planumbona, pr	Strophomena*. cavumbona, Hall. states that the following more nearly allied to the ternata. deltoidea, defle rofunda?, recta, rugosa, MONOMYARI Avicula. Cybele, Barr dispersa, explanata, imperfecta, manulia, migrans, imperfecta, migrans, imperfecta, migrans, imperfecta, imperfect	&c. (New York) Albany and Columbia Counties. In species, described as genus Streptorhynchus Ita, filitexta, incrassata, subplana. A. Konieprus, Lockhov (Bohemia). Dvoretz (Bohemia). Butovitz "Konieprus "Bubovitz" Bubovitz "	D. d. 5, E. e. 2 E. e. 2	Hemicardium, C colonum, elevatum, humile, Isocardium? major, simplex, Lucina? calva, soror, Lunulacardium. Bohemicum, Garolinum, dimidiatum, Mytilus. consors, conspicuus, elongatus, esuriens,	arr. Col. Beranka, Butovit Viskocilka (Bohemia) Dvoretz, Lockhov. arr. Dvoretz (Bohemia). Hinter-Kopanina (Bohemia). Arr. Dvoretz (Bohemia). Karlstein Dvoretz Arr. Karlstein (Bohemia). Dvoretz Arr. Karlstein (Bohemia). Arr. Konieprus Duuha Hora Lockhov Tablasita Tablasita
* N.B.—Hall this genus, are (King):—S. alt planumbona, properties of the control	states that the following more nearly allied to the ternata. deltoidea, defler of unda?, recta, rugosa, MONOMYARI Avicula. Cybele, Barr dispersa, explanata, imperfecta, imperfecta, imparlia, imgrans, Niobe, palliata, internation in the content of the content	&c. (New York) Albany and Columbia Counties. In species, described as genus Streptorhynchus Ita, filitexta, incrassata, subplana. A. Konieprus, Lockhov (Bohemia). Dvoretz (Bohemia). Butovitz Konieprus Bubovitz Lockhov Lockhov Konieprus """	D. d. 5, E. e. 2 E. e. 2	Hemicardium, C colonum, Be elevatum, humile, Isocardium? major, Be minor, simplex, Lucina? calva, Be mater, soror, Lunulacardium. Bohemicum, Be Carolinum, dimidiatum, Mytilus. consors, Be consors, Be consors, elongatus, elongatus, esuriens, parens,	arr. Col. Beranka, Butovit Viskocilka (Bohemia) Dvoretz, Lockhov. arr. Dvoretz (Bohemia). "Hinter-Kopanina (Bohemia). "Arr. Dvoretz (Bohemia). "Arr. Dvoretz (Bohemia). "Arr. Karlstein "Dvoretz " "Arr. Karlstein (Bohemia). "Arr. Novoretz (Bohemia). "Arr. Dvoretz " " "Arr. Dvoretz " " " " " " " " " " " " "
* N.B.—Hall this genus, are (King):—S. alt planumbona, properties of the control	Strophomena*. cavumbona, Hall. states that the following more nearly allied to the ternata. deltoidea, defle rofunda?, recta, rugosa, MONOMYARI Avicula. Cybele, Barr dispersa, explanata, imperfecta, manulia, migrans, imperfecta, migrans, imperfecta, migrans, imperfecta, imperfect	&c. (New York) Albany and Columbia Counties. In species, described as genus Streptorhynchuseta, filitexta, incrassata, subplana. A. Konieprus, Lockhov (Bohemia). Dvoretz (Bohemia). Butovitz "Konieprus "Bubovitz "Lockhov "Lockhov "	D. d. 5, E. e. 2 E. e. 2	Hemicardium, C colonum, Be elevatum, humile, Isocardium? major, Be minor, simplex, Lucina? calva, Be mater, soror, Lunulacardium. Bohemicum, Be Carolinum, dimidiatum, Mytilus. consors, Be conspicuus, elongatus, esuriens, parens, protendens,	arr. Col. Beranka, Butovit Viskocilka (Bohemia) Dvoretz, Lockhov. arr. Dvoretz (Bohemia). "Hinter-Kopanina (Bohemia). "Arr. Dvoretz (Bohemia). "Arr. Dvoretz (Bohemia). "Arr. Karlstein " Dvoretz " "Arr. Karlstein (Bohemia). "Arr. Karlstein (Bohemia). "Arr. Novoretz " "Arr. Dvoretz " "Arr. Novieprus " "Arr. Dovoretz (Bohemia). "Arr. Novieprus " "Arr. Dovoretz (Bohemia). "Arr. Novieprus " " "Arr. Novieprus " " " " " " " " " " " " "
* N.B.—Hall this genus, are (King):—S. alt planumbona, pr	states that the following more nearly allied to the ternata. deltoidea, defler of unda?, recta, rugosa, MONOMYARI Avicula. Cybele, Barr dispersa, explanata, imperfecta, manulia, migrans, Niobe, palliata, seminuda, "	&c. (New York) Albany and Columbia Counties. In species, described as genus Streptorhynchus Ita, filitexta, incrassata, subplana. A. Konieprus, Lockhov (Bohemia). Dvoretz (Bohemia). Butovitz "Konieprus "Bubovitz " Lockhov " Konieprus " Bubovitz Lodenitz (Bo- "Bubovitz, Lodenitz (Bo-	D. d. 5, E. e. 2 E. e. 2	Hemicardium, C colonum, Bi elevatum, humile, Isocardium? major, Bi major, Bi minor, simplex, S Lucina? calva, Bi mater, soror, Lunulacardium. Bohemicum, Bi Carolinum, dimidiatum, Mytilus. consors, Bi conspicuus, elongatus, esuriens, parens, protendens, securiformis,	arr. Col. Beranka, Butovit Viskocilka (Bohemia) Dvoretz, Lockhov. arr. Dvoretz (Bohemia). Hinter-Kopanina (Bohemia). Karlstein Dvoretz The color of the color
* N.B.—Hall this genus, are (King):—S. alt planumbona, properties of the control	states that the following more nearly allied to the ternata. deltoidea, defler of unda?, recta, rugosa, MONOMYARI Avicula. Cybele, Barr dispersa, explanata, imperfecta, manulia, migrans, Niobe, palliata, seminuda, serviens, serviens, manulia, mentions.	&c. (New York) Albany and Columbia Counties. In species, described as genus Streptorhynchus Ita, filitexta, incrassata, subplana. A. Konieprus, Lockhov (Bohemia). Dvoretz (Bohemia). Butovitz "Konieprus "Bubovitz " Lockhov " Konieprus " Bubovitz " Lockhov " Konieprus " Bubovitz, Lodenitz (Bohemia).	D. d. 5, E. e. 2 E. e. 2	Hemicardium, Coolonum, Belevatum, humile, Isocardium? major, Baminor, simplex, Lucina? calva, Bamater, soror, Lunulacardium. Bohemicum, Carolinum, dimidiatum, Mytilus. consors, conspicuus, elongatus, esuriens, parens, protendens, securiformis, Orthonota = Teluantiqua, Ba	arr. Col. Beranka, Butovit Viskocilka (Bohemia) Dvoretz, Lockhov. Arr. Dvoretz (Bohemia). Hinter-Kopanina (Bohemia). Karlstein Dvoretz Harr. Karlstein (Bohemia). Arr. Karlstein (Bohemia). Arr. Karlstein (Bohemia). Arr. Karlstein (Bohemia). Arr. Dvoretz Bohemia). Arr. June (Bohemia). Arr. June (Bo
* N.B.—Hall this genus, are (King):—S. alt planumbona, profile E. f. 2	Strophomena*. cavumbona, Hall. states that the followimore nearly allied to the ternata. deltoidea, deflerofunda?, recta, rugosa, MONOMYARI Avicula. Cybele, Barr dispersa, explanata, imperfecta, manulia, migrans, Niobe, palliata, seminuda, serviens, , serviens, , ,	ke. (New York) Albany and Columbia Counties. In species, described as genus Streptorhynchus Ita, filitexta, incrassata, subplana. A. Konieprus, Lockhov (Bohemia). Dvoretz (Bohemia). Butovitz Konieprus Bubovitz Subovitz Su	D. d. 5, E. e. 2 E. e. 2	Hemicardium, Coolonum, Belevatum, humile, Isocardium? major, Baminor, simplex, Lucina? calva, Bamater, soror, Lunulacardium. Bohemicum, Carolinum, dimidiatum, Mytilus. consors, conspicuus, elongatus, esuriens, parens, protendens, securiformis, Orthonota = Teluantiqua, Ba	arr. Col. Beranka, Butovit Viskocilka (Bohemia) Dvoretz, Lockhov. arr. Dvoretz (Bohemia). "Hinter-Kopanina (Bohemia). "Arr. Dvoretz (Bohemia). "Arr. Dvoretz (Bohemia). "Arr. Karlstein "Dvoretz " "Arr. Novoretz " "Arr. Novoretz " "Arr. Lovoretz (Bohemia). "Arr. Novoretz " "Arr. Novoretz " "Arr. Dvoretz " "Arr. Novoretz " "Arr. Dvoretz " "Arr. Novoretz " "Arr. Lockhov " " "Arr. Lockhov
* N.B.—Hall his genus, are (King):—S. alt planumbona, proceedings of the control	states that the following more nearly allied to the ternata. deltoidea, defler of unda?, recta, rugosa, MONOMYARI Avicula. Cybele, Barr dispersa, explanata, imperfecta, manulia, migrans, Niobe, palliata, seminuda, serviens, serviens, manulia, mentions.	ke. (New York) Albany and Columbia Counties. In species, described as genus Streptorhynchus Ita, filitexta, incrassata, subplana. A. Konieprus, Lockhov (Bohemia). Dvoretz (Bohemia). Butovitz Konieprus Bubovitz Lockhov Konieprus Bubovitz Bohemia). Bubovitz	D. d. 5, E. e. 2 E. e. 2	Hemicardium, Colonum, Belevatum, humile, Isocardium? major, Be minor, simplex, Lucina? calva, Be mater, soror, Lunulacardium. Bohemicum, Carolinum, dimidiatum, Mytilus. consors, elongatus, esuriens, parens, protendens, securiformis, Orthonota = Tellantiqua, Costata, Selw.	arr. Col. Beranka, Butovit, Viskocilka (Bohemia), Dvoretz, Lockhov. arr. Dvoretz (Bohemia). "Hinter-Kopanina (Bohemia). "Arr. Dvoretz (Bohemia). "Arr. Dvoretz (Bohemia). "Arr. Karlstein (Bohemia). "Arr. Karlstein (Bohemia). "Arr. Novoretz (Bohemia). "Arr. Jovoretz (Bohemia). "Arr. Jovoretz (Bohemia). "Arr. Lockhov " "Arr. Lockhov " "Archlovitz " "Konieprus " "Lockhov " "Archlovitz " "Konieprus " "Lockhov " "Archlovitz " "Konieprus " "Lockhov " "Archlovitz " "
* N.B.—Hall this genus, are (King):—S. alt planumbona, profile E. f. 2	Strophomena*. cavumbona, Hall. states that the following more nearly allied to the ternata. deltoidea, defler founda?, recta, rugosa, MONOMYARI Avicula. Cybele, Barr dispersa, explanata, imperfecta, manulia, migrans, Niobe, palliata, seminuda, serviens, varians, "	ke. (New York) Albany and Columbia Counties. In species, described as genus Streptorhynchus Ita, filitexta, incrassata, subplana. A. Konieprus, Lockhov (Bohemia). Dvoretz (Bohemia). Butovitz Konieprus Bubovitz Subovitz Su	D. d. 5, E. e. 2 E. e. 2	Hemicardium, Coolonum, elevatum, humile, Isocardium? major, Baminor, simplex, Lucina? calva, Bamater, soror, Lunulacardium. Bohemicum, Bohemicum, Garolinum, dimidiatum, Mytilus. consors, elongatus, elongatus, esuriens, parens, protendens, securiformis, Orthonota = Teliantiqua, Bacostata, Selw Kosoviensis, Bolevatum, Bolevatum, Selwantiqua, Bacostata, Bacostat	arr. Col. Beranka, Butovit, Viskocilka (Bohemia), Dvoretz, Lockhov. arr. Dvoretz (Bohemia). "Hinter-Kopanina (Bohemia). "Arr. Dvoretz (Bohemia). "Arr. Dvoretz (Bohemia). "Arr. Karlstein " "Dvoretz " "Arr. Karlstein (Bohemia). "Arr. Noveretz " "Arr. Lockhow " "Tachlovitz " "Konieprus " "Lockhov " "Tachlovitz " "Konieprus " "Konieprus " "Lockhov " "Tachlovitz " "Konieprus " " "Konieprus " "Koni
* N.B.—Hall this genus, are (King):—S. alt planumbona, properties of the control	states that the following more nearly allied to the ternata. deltoidea, defler of unda?, recta, rugosa, MONOMYARI Avicula. Cybele, Barr dispersa, explanata, imperfecta, manulia, migrans, Niobe, palliata, seminuda, serviens, varians, volitans, volitans, in the state of the sta	ke. (New York) Albany and Columbia Counties. In species, described as genus Streptorhynchuseta, filitexta, incrassata, subplana. A. Konieprus, Lockhov (Bohemia). Butovitz "Konieprus "Bubovitz "Lockhov "Konieprus "Bubovitz "Lockhov "Konieprus "Bubovitz "Lockhov "Konieprus "Bubovitz Lockhov "Bubovitz (Bohemia). Lockhov (Bohemia). Dvoretz (Bohemia). Konieprus (Bohemia).	D. d. 5, E. e. 2 E. e. 2	Hemicardium, Coolonum, elevatum, humile, Isocardium? major, Baminor, simplex, Lucina? calva, Bamater, soror, Lunulacardium. Bohemicum, Bohemicum, Garolinum, dimidiatum, Mytilus. consors, elongatus, elongatus, esuriens, parens, protendens, securiformis, Orthonota = Tella antiqua, Bacostata, Selw Kosoviensis, prima, Pholadomya, Sou	arr. Col. Beranka, Butovia, Viskocilka (Bohemia), Dvoretz, Lockhov. arr. Dvoretz (Bohemia). "Hinter-Kopanina (Bohemia). "Arr. Dvoretz (Bohemia). "Arr. Dvoretz (Bohemia). "Arr. Karlstein " "Dvoretz " "Arr. Karlstein (Bohemia). "Arr. Noveretz " "Arr. Noveretz " "Arr. Noveretz " "Arr. Lockhov " "Tachlovitz " "Konieprus " "Lockhov " "Tachlovitz " "Konieprus "
* N.B.—Hall this genus, are (King):—S. alt planumbona, properties of the control	Strophomena*. cavumbona, Hall. states that the following more nearly allied to the ternata. deltoidea, defler founda?, recta, rugosa, MONOMYARI Avicula. Cybele, Barr dispersa, explanata, imperfecta, manulia, migrans, Niobe, palliata, seminuda, serviens, varians, "	ke. (New York) Albany and Columbia Counties. In species, described as genus Streptorhynchuseta, filitexta, incrassata, subplana. A. Konieprus, Lockhov (Bohemia). Butovitz "Konieprus "Bubovitz "Lockhov "Konieprus "Bubovitz "Lockhov "Konieprus "Bubovitz "Lockhov "Konieprus "Bubovitz	D. d. 5, E. e. 2 E. e. 2	Hemicardium, Coolonum, elevatum, humile, Isocardium? major, Baminor, simplex, Lucina? calva, Bamater, soror, Lunulacardium. Bohemicum, Bohemicum, Garolinum, dimidiatum, Mytilus. consors, elongatus, elongatus, esuriens, parens, protendens, securiformis, Orthonota = Tella antiqua, Bacostata, Selw Kosoviensis, prima, Pholadomya, Sou	arr. Col. Beranka, Butovia, Viskocilka (Bohemia), Dvoretz, Lockhov. arr. Dvoretz (Bohemia). "", Hinter-Kopanina (Bohemia). "", Dvoretz (Bohemia). "", Dvoretz (Bohemia). "", Dvoretz ", "", Dvoretz ", "", "", "", "", "", "", "", "", "",
* N.B.—Hall this genus, are (King):—S. alt planumbona, properties of the control	Strophomena*. cavumbona, Hall. states that the following more nearly allied to the ternata. deltoidea, defler forunda?, recta, rugosa, MONOMYARI Avicula. Cybele, Barr dispersa, explanata, imperfecta, manulia, migrans, Niobe, palliata, seminuda, serviens, varians, volitans, migrans, more palliata, serviens, manulia, migrans,	ke. (New York) Albany and Columbia Counties. In species, described as genus Streptorhynchuseta, filitexta, incrassata, subplana. A. Konieprus, Lockhov (Bohemia). Butovitz "Konieprus "Bubovitz "Lockhov "Konieprus "Bubovitz "Lockhov "Konieprus "Bubovitz "Lockhov "Konieprus "Bubovitz	D. d. 5, E. e. 2 E. e. 2	Hemicardium, C colonum, elevatum, humile, Isocardium? major, simplex, Lucina? calva, soror, Lunulacardium. Bohemicum, Garolinum, dimidiatum, Mytilus. consors, elongatus, esuriens, parens, protendens, securiformis, Orthonota = Tell antiqua, costata, Selw Kosoviensis, prima, Pholadomya, Bohemica, distorta,	arr. Col. Beranka, Butovit, Viskocilka (Bohemia). Dvoretz, Lockhov. arr. Dvoretz (Bohemia). "Hinter-Kopanina (Bohemia). "Arr. Dvoretz (Bohemia). "Karlstein "Dvoretz " "Arr. Karlstein (Bohemia). "Arr. Dvoretz " "Arr. Dvoretz " "Arr. Lovoretz " "Arr. Novoretz " "Arr. Novoretz " "Arr. Dvoretz " "Arr. Lockhov " "Tachlovitz " "Konieprus " "Lockhov " "Tachlovitz " "Konieprus " "Lockhov " "Tachlovitz " "Konieprus " "Lockhov " "Tachlovitz " "Konieprus " "Voekhov " "Arr. Leiskow (Bohemia). "Victoria (S. Australia arr. Vosek " "Vosek " "Vosek " "Voseb " " "Voseb " " "Voseb " " " " " " " " " " " " "
* N.B.—Hall this genus, are (King):—S. alt planumbona, properties of the control	Strophomena*. cavumbona, Hall. states that the following more nearly allied to the ternata. deltoidea, defle forunda?, recta, rugosa, MONOMYARI Avicula. Cybele, Barr dispersa, explanata, imperfecta, manulia, migrans, Niobe, palliata, seminuda, serviens, varians, volitans, " DIMYARIA. Anatina?	ke. (New York) Albany and Columbia Counties. In species, described as genus Streptorhynchus Ita, filitexta, incrassata, subplana. A. Konieprus, Lockhov (Bohemia). Dvoretz (Bohemia). Butovitz "Konieprus "Bubovitz " Lockhov "Konieprus " "Bubovitz, Lodenitz (Bohemia). Lockhov (Bohemia). Lockhov (Bohemia). Dvoretz (Bohemia). Konieprus (Bohemia). Konieprus (Bohemia).	D. d. 5, E. e. 2 E. e. 2	Hemicardium, Colonum, Belevatum, humile, Isocardium? major, Baminor, simplex, Lucina? calva, Bamater, soror, Lunulacardium. Bohemicum, Carolinum, dimidiatum, Mytilus. consors, Baminor, seuriens, parens, protendens, securiformis, Orthonota = Tellantiqua, Bamiqua, Bamiqua, Bamiqua, Sou Bohemica, distorta, Silurina, Barranda, Silurina, Silurina, Barranda, Silurina, Barranda, Silurina, Barranda, Silurina, Barranda, Silurina, Barranda, Silurina, Silurina, Barranda, Silurina, S	arr. Col. Beranka, Butovit Viskocilka (Bohemia) Dvoretz, Lockhov. arr. Dvoretz (Bohemia). "Hinter-Kopanina (Bohemia). "Arr. Dvoretz (Bohemia). "Karlstein "Dvoretz " "Arr. Karlstein (Bohemia). "Arr. Dvoretz " "Arr. Dvoretz " "Arr. Lovoretz " "Arr. Narlstein (Bohemia). "Arr. Dvoretz " "Arr. Dvoretz " "Arr. Lockhov " "Tachlovitz " "Konieprus " "Lockhov " "Tachlovitz " "Konieprus " "Lockhov " "Tachlovitz " "Konieprus " "Lockhov " "Tachlovitz " "Konieprus " "Vosek " "Victoria (S. Australia arr. "Vosek " "Vosek " "Per J 826. "" "1 865 ?
* N.B.—Hall this genus, are (King):—S. alt planumbona, pr	Strophomena*. cavumbona, Hall. states that the following more nearly allied to the ternata. deltoidea, defle forunda?, recta, rugosa, MONOMYARI Avicula. Cybele, Barr dispersa, explanata, imperfecta, manulia, migrans, Niobe, palliata, seminuda, serviens, varians, volitans, " DIMYARIA. Anatina?	ke. (New York) Albany and Columbia Counties. In species, described as genus Streptorhynchus Ita, filitexta, incrassata, subplana. A. Konieprus, Lockhov (Bohemia). Dvoretz (Bohemia). Butovitz "Konieprus "Bubovitz " Lockhov "Konieprus " Subovitz, Lodenitz (Bohemia). Lockhov (Bohemia). Dvoretz (Bohemia). Konieprus " Bubovitz, Lodenitz (Bohemia). Konieprus (Bohemia). Mount Kosow (Bohemia).	D. d. 5, E. e. 2 E. e. 2	Hemicardium, Colonum, Belevatum, humile, Isocardium? major, Baminor, simplex, Lucina? calva, Bamater, soror, Lunulacardium. Bohemicum, Carolinum, dimidiatum, Mytilus. consors, conspicuus, elongatus, esuriens, parens, protendens, securiformis, Corthonota = Tellantiqua, Escostata, Selw Kosoviensis, Belomica, distorta, Silurina, Barranda comatum, Barranda	arr. Col. Beranka, Butovit Viskocilka (Bohemia). Dvoretz, Lockhov. arr. Dvoretz (Bohemia). """ Hinter-Kopanina (Bohemia). """ Arr. Dvoretz (Bohemia). """ Arr. Karlstein "" Dvoretz "" "" """ """ """ """ """ """
* N.B.—Hall this genus, are (King):—S. alt planumbona, properties of the control	Strophomena*. cavumbona, Hall. states that the followi more nearly allied to the ernata. deltoidea, defle rofunda?, recta, rugosa, MONOMYARI Avicula. Cybele, Barr dispersa, explanata, imperfecta, manulia, migrans, Niobe, palliata, seminuda, serviens, varians, volitans, DIMYARIA. Anatina? primula, Barr	ke. (New York) Albany and Columbia Counties. In species, described as genus Streptorhynchus Ita, filitexta, incrassata, subplana. A. Konieprus, Lockhov (Bohemia). Dvoretz (Bohemia). Butovitz "Konieprus "Bubovitz " Lockhov " Konieprus " Bubovitz, Lodenitz (Bohemia). Lockhov (Bohemia). Lockhov (Bohemia). Konieprus (Bohemia). Konieprus (Bohemia). Mount Kosow (Bohemia). Mount Kosow (Bohemia).	D. d. 5, E. e. 2 E. e. 2	Hemicardium, Coolonum, elevatum, humile, Isocardium? major, Baminor, simplex, Lucina? calva, Bamater, soror, Lunulacardium. Bohemicum, Carolinum, dimidiatum, Mytilus. consors, elongatus, esuriens, parens, protendens, securiformis, Corthonota = Teluantiqua, costata, Selw Kosoviensis, prima, Pholadomya, Sou Bohemica, Badistorta, Silurina, Barrando comatum, commune, Barrando comatum, commune,	arr. Col. Beranka, Butovit Viskocilka (Bohemia) Dvoretz, Lockhov. arr. Dvoretz (Bohemia). "Hinter-Kopanina (Bohemia). "Arr. Dvoretz (Bohemia). "Arr. Karlstein (Bohemia). "Arr. Karlstein (Bohemia). "Arr. Novoretz (Bohemia). "Arr. Lockhov " "Tachlovitz " "Konieprus " "Lockhov " "Tachlovitz " "Sone " " "Sone " " " " " " " " " " " " "
* N.B.—Hall this genus, are (King):—S. alt planumbona, properties of the control	Strophomena*. cavumbona, Hall. states that the followi more nearly allied to the ernata. deltoidea, defle rofunda?, recta, rugosa, MONOMYARI Avicula. Cybele, Barr dispersa, " explanata, " imperfecta, " manulia, " migrans, " Niobe, " palliata, " seminuda, " serviens, " varians, " DIMYARIA. Anatina? primula, Barrando	ke. (New York) Albany and Columbia Counties. In species, described as genus Streptorhynchus Ita, filitexta, incrassata, subplana. A. Konieprus, Lockhov (Bohemia). Dvoretz (Bohemia). Butovitz "Konieprus "Bubovitz " Lockhov "Konieprus " Subovitz " Lockhov " Konieprus " Subovitz " Lockhov (Bohemia). Lockhov (Bohemia). Konieprus (Bohemia). Mount Kosow (Bohemia). Mount Kosow (Bohemia). Mount Kosow (Bohemia). Mount Kosow (Bohemia).	D. d. 5, E. e. 2 E. e. 2	Hemicardium, C colonum, Br elevatum, humile, Isocardium? major, Br minor, Simplex, Lucina? calva, Br mater, soror, Lunulacardium. Bohemicum, Br Carolinum, dimidiatum, Mytilus. consors, Br conspicuus, elongatus, esuriens, parens, protendens, securiformis, Orthonota = Tell antiqua, Br costata, Selw Kosoviensis, Br prima, Pholadomya, Sou Bohemica, distorta, Silurina, Barranda comatum, commune, robustum,	arr. Col. Beranka, Butovit Viskocilka (Bohemia) Dvoretz, Lockhov. arr. Dvoretz (Bohemia). """ """ """ """ """ """ """
* N.B.—Hall this genus, are (King):—S. alt planumbona, properties of the control	Strophomena*. cavumbona, Hall. states that the followi more nearly allied to the ernata. deltoidea, defle rofunda?, recta, rugosa, MONOMYARI Avicula. Cybele, Barr dispersa, " explanata, " imperfecta, " manulia, " migrans, " Niobe, " palliata, " seminuda, " serviens, " varians, " DIMYARIA. Anatina? primula, Barrando	ke. (New York) Albany and Columbia Counties. In species, described as genus Streptorhynchus Ita, filitexta, incrassata, subplana. A. Konieprus, Lockhov (Bohemia). Dvoretz (Bohemia). Butovitz "Konieprus "Bubovitz " Lockhov " Konieprus " Bubovitz, Lodenitz (Bohemia). Lockhov (Bohemia). Lockhov (Bohemia). Konieprus (Bohemia). Konieprus (Bohemia). Mount Kosow (Bohemia). Mount Kosow (Bohemia).	D. d. 5, E. e. 2 E. e. 2 "" E. e. 2 "" E. e. 2 "" E. e. 2 F. f. 2 E. e. 2 E. e. 2 D. d. 5 D. d. 1 E. e. 2 "" E. e. 2 "" "" E. e. 2	Hemicardium, C colonum, Br elevatum, humile, Isocardium? major, Br minor, Simplex, Lucina? calva, Br mater, soror, Lunulacardium. Bohemicum, Br Carolinum, dimidiatum, Mytilus. consors, Br conspicuus, elongatus, esuriens, parens, protendens, securiformis, Orthonota = Tell antiqua, Br costata, Selw Kosoviensis, Br prima, Pholadomya, Sou Bohemica, distorta, Silurina, Barranda comatum, commune, robustum, sociale,	arr. Col. Beranka, Butovit Viskocilka (Bohemia). Dvoretz, Lockhov. arr. Dvoretz (Bohemia). """ Hinter-Kopanina (Bohemia). Arr. Dvoretz (Bohemia). """ Arr. Dvoretz (Bohemia). """ """ """ """ """ """ """

HE	TEROPODA-P	TER	COPODA.	Subdivision.	Genus, Species Author.	, and	Locality.
Subdivision.	Genus, Species, as Author.	nd	Locality.	F	costulatus, decipiens,	Barr.	Konieprus, Kosov, Königshof, Za
	Pollorenhen		District	F	diegone		bichlitz, Beraun. Konieprus.
	Bellerophon.	2000	Mount Drabow.	D. d. 1, 4	alegens,	**	Vosek, St. Benigna.
D. d. 2 G. g. 1			Lockhov.	D. d. 3	elegans,	11	Trubin.
E. e. 2		**	Tobolka.	D. d. 1	fortis	19	Vosek.
	constrictus,	**	Dvoretz,	F	hexagon	***	Mnienian.
.,	cristatus,	"	Lodenitz, Luzetz.	D. d. 3, 4, 5	indistinctus.	"	Trubin, Zahorzan, Pra
	decorus.		Kozorz.	2. 4. 0, 1, 0 1	and a second	- 11	koles, &c.
D. d. 5	evolvens.		Mount Kosow.	D. d. 4	magister.	.,	Straznitz near Prague.
E. e. 2		"	St. Ivan.	C			Mleschitz (Skrey).
D. d. 5	grandis,	,,	Königshof, Leiskow.	G. g. 1			Hostin.
	ncola,	,,	Leiskow.	G. g. 2, H. h. 1	novellus,	"	Srbsko, Vavrovitz.
E. e. 1, 2	plebeius,		Dlauha Hora.	F. f. 1	obvius,	,,	Bubovitz, Beraun.
D. d. 1		**	Vosek.	C		,,	Mleschitz.
D. d. 4			Trubsko.	F	pauper,	"	Mnienian, Konieprus.
E. e. 2	rugosus,		Butovitz, Dlauha Hora.	NOTICE AND ADDRESS OF THE PARTY			Ginetz, Skrey, Mleschit
G. g. 1			Tetin.		robustus,	22	Mleschitz.
D. d. 5s			Mount Kosow.	D. d. 1		,,	St. Benigna.
E. e. 2	ardus,	200	Bubovitz, Lodenitz.	E, F	sandalinus,	"	Konieprus, Dlauha
D. d. 2		"	Mount Drabow.	0 .			Hora.
	Conularia.		Manual David	G. g. 1	secans,	**	Hostin.
D. d. 2	and the same of		Mount Drabow.	E	simplex,	,,	St. Ivan, Lodenitz, Kan
G. g. 1		22	Luzetz. Vesela near Beraun.				kalova Hora, and
D. d. 2	nomaia,	"	Vosek, St. Benigna.	D 4 4	-alitanias		more.
D. d. 1	P 4		Vosek, St. Denigna. Vosek.	D. d. 4 D. d. 1, 3, 4, 5			Zahorzan.
D. d. 2	conterta,	**	Mount Drabow.	D. a. 1, 5, 4, 5	striatulus,	11	Vosek, Trubin, Lode nitz, Lieben, Ster
D. d. 1, 3, 4, 5	consoorina,		Vosek, Wraz, Trubin,			- 17	
D. a. 1, 3, 4, 5	exquisita,	27	Leiskow, Lodenitz,	G. g. 1	tandua	180	boholy, and 3 more. Tetin.
			Praskoles, Zahorzan.	D. d. 1	taruus,	27	Vosek.
D. d. 4	ecunda.	,,	In 16 localities.	D. d. 3, 4, 5	undulatus	"	Czernin, Mount Kosov
D. d. 2?	ragilis.		Konieprus, Mnienian.	D. a. o, 1, 0	unuunuu	"	Vraz, &c.
D. d. 3, 4		,,	Trubin, Wraz, Lieben,	C	venustus.		Skrey.
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	"	Praskoles, &c.		Phragmothec	a. Bar	rande, 1867.
D. d. 3	Hawlei,	,,	Trubin.	E. e. 2	Bohemica.	Barr.	Lodenitz Hills.
D. d. 4i	mperialis.		Mauth?		Pterotheca.	201111	
D. d. 1, 3, 4 i		11	Vosek, Trubin, Wraz,	E. e. 2	Bohemica,	Barr.	Lodenitz Hills.
			Zahorzan.		Rhombifera,		
F. f. 2i		,,	Konieprus.	D. d. 4	Bohemica,		Wraz.
D. d. 1, 3	nodesta,	**	Vosek.		Styliola, Lesue	ur.	
D. d. 2			Mount Drabow.	G. g. 1, H. h. 2	clavulus,	Barr.	Holin, Vavrovitz, Karl
D. d. 1			Zahorzan, Motol.				stein, &c.
D. d. 2	olicosa,		Mount Drabow.	D.C.	Tentaculites (ANNEL	IDA).
D. d. 1	orimula,	29	Vosek.	F. f. 1	intermedius,	Barr.	Lockhov.
D. d. 4, E, G. g. 1	roteica,	"	Lodenitz, Bubovitz, Leiskow, and 5 more.	F. 1. 2	longulus,	"	Slichov, Mnienian, &c.
1. D. d. 2, 4	idata		Zahorzan, Mt. Drabow.				
D. d. 2r	oyramidata,	"	Mount Drabow.		CYSTII	DEA.	
D. d. 1 r		"	Vosek.				
Fs	!law	"	Luzetz.	100	Trochocystite	s.	
Es		"	Dlauha Hora.	Primordial	lichenoides.		Ginetz.
E. e. 2	I		Kozel, HintKopanina,	D. d. 1	mitra,	,,	Vosek.
		"	St. Ivan.	Primordial		,,	,,
D. d. 4t	enella,	,,	Lieben.				
	Cornulites (Anni	ELID	A).	PO	HEMIAN BR	ACH	IOPODA
	Bohemicus, B	Barr.	Königshof, Gross Ku-				
1000	The state of the s		chel, Leiskov.	(add	itional, 1868	-M. I	Sarrande).
D. d. 2, 4 c	onfertus,		Trubsko, Vraz.				
E. e. 2, F. f. 1 r	najor,	**	Lockhov, Mnienian,	77 0	Atrypa.	D.	T 1 11 T .
			Konieprus, &c.		audax,	35750	Lodenitz, Luzetz.
	Ecculiomphalus	5.	G - F 1 1		caudata,	"	,, Bubovitz.
E. e. 2			Gross Kuchel.	and the same	confortata,		Dlauha Hora.
	ubuloides,		Dlauha Hora.		contumax, deformata,	1000	Konieprus. Lodenitz, Zahorzan.
7 12	Hyolites = Pugiu	NCU	Butovitz, Tachlovitz,		Dormitzeri,	- 1	Dlauha Hora.
E, Fa	duneus, B	MIT.	and 5 more places.	F. f. 2			Mnienian.
F	lter		Slivenetz, Chotecz, Lock-	E. e. 2		100	Dlauha Hora.
	neer,	99	hov, &c.		macra,		Lodenitz, Luzetz.
D. d. 1 a	renatus		Slivenetz, Tobolka, Ko-		parietalis,		Kozel.
J. d. 1	a continuity	"	nieprus, Beraun.	F. f. 2			Konieprus.
F	atenatus.		Konieprus.		sphærula,		Dlauha Hora.
	in atura	100	Vosek.		squama,		Lodenitz.
0 d 1							
D. d. 1	olumnaris.		Tachlovitz, Borek, Ko- zel, and 4 more places.		Chonetes.		

Subdiv	rision.	Genus, Specie Author.		Locality.	Subdivision.	Genus, Species Author.	, and	Locality.
E. e. 2		margarita,	Barr.	Dlauha Hora.	E. e. 2	gibbosa,	Barr.	Luzetz, Lodenitz.
,,		minor,	"	St. Ivan.	- " -	metuens,	,,	_ " "
"		soror,	,,,	Bubovitz, Sedletz.	F. f. 2	occludens,	"	Konieprus.
F. f. 2		venustus,	,,	Konieprus.	,,	orbitata,	**	"
E. e. 1	********	zephyrus,	,,	Borek.	and the second	Strophomena		and the same of the same
		Discina.		Daniel Lange Language	E. e. 1, 2	bracteola,	Barr.	Borek, Lodenitz.
D. d. 2,	4	hamifera,	Barr.	Mount Drabow, Lieben.	D. d. 1		,,	St. Benigna.
			,,	Borek.	E. e. 2	calcarifera,	"	Bubovitz, Lodenitz.
E. e. 2	*********	triangularis,	,,	Dlauha Hora.	,,	conferta,	,,	Rzepora.
		Leptæna.			D. d. 5	conformis,	**	Mount Kosov.
F. f. 2		translata.	Barr.	Mnienian.		folium,	,,	Königshof.
		Lingula.				humilis,	,,	Konieprus.
		approximans,	Barr.	Hlava.	D. d. 5	mixta,	11	Mount Kosow.
D. d. 1			,,	Vosek.	D. d. 4	oculata,	,,	Zahorzan.
		Feistmanteli,	,,	Kruschna Hora.	E. e. 1		"	Listice.
D. d. 5		fissurata,	,,	Königshof.		rudis,	"	Dlauha Hora.
		lamellosa,	"	Libetschov.	D. d. 5		"	Königshof.
		nigricans,	,,	Borek.	F. f. 2	suavissima,	"	Konieprus.
		perlonga,	,,	Dlauha Hora.	D. d. 5		"	Königshof.
		zebra,			D. a. C	Trematis.	"	Trom Benon.
		Mimulus, Ba	rrande.	1868.	E. e. 2		Sharne	Bubovitz, Lodenitz.
		contrarius,	Barr	Tetin.		- minute,	Print Pro-	Laborator, aroutintor
		perversus,		Listice, St. Ivan.	em			
		Obolus.	"	Liberto, No. Ivan.	The Silurian	Faunæ of the e	nviron	s of Hof, in Bavari
0 4 1		albescans,	Pour	Voleschna.		etermined by I		
Farms (Bohemicus,		Mleschitz.	u u			
D d 1		secundus,	"	Voleschna.	No. of the last of	TRILO	BITA.	The state of the s
D. u. 1		Orthis.	**	r orescina.		Agnostus.		THE PART OF THE PA
E. e. 2		accedens,	Down	Dlauha Hora.	Daimandial 2	Agnostus.	Dam	Hof (Panania)
				Gross Kuchel.	Primordial?		Darr.	Hof (Bavaria).
		aciculata,	"		0.17	Asaphus.	D	TT-COD
E. e. 2		adæquata,	"	Dlauha Hora.		Wirthi,		Hof (Bavaria).
			"	Praskoles, Zahorzan.		Bavarilla, Ba		
		Bohemica,	"	Hlava.	Primordial	Hofensis,	Barr.	Hof (Bavaria).
		capitata,	**	Chrustenitz.	La company of the same of	Calymene.	4	the state of the s
		cognata,	**	Borek.	2nd Fauna (the			Hof (Bavaria).
		degener,	,,,	Mnienian.	only species).	var. Bavaricus	3.	
		dorsata,	,,	Kozel, Ratinka.		Cheirurus.		San Table
F. f. 2		extranea,	,,	Konieprus.	2nd Fauna	discretus,	Barr.	Hof (Bavaria).
,,		fragilis,	,,		,,	gracilis,	***	" "
D. d. 2,	F. f. 2	Grimmi,	"	Holaubka.		Conocephale	=Cono	CORYPHE.
D. d. 4		inclyta,	,,	Lodenitz.	Primordial	Bavarica,		Hof (Bavaria).
E. e. 2		interjecta,	"	,,,	,,	deficiens,	,,	" "
D. d. 1		mœsta,	,,	Vosek.	, and the last	discrepans,	,,	,, ,,
		neutra,	,,		,,	extrema,	,,	,, ,,
D. d. 4		notata,	,,	Lahorska, Radotin.	,, , , , , ,	Geinitzi,	***	9 9
**		partita,	,, ,	Vraz.	,,	Hofensis,	,,	, ,
"		querenda,	,,	Zabiehlitz.	,,	innotata,	19	,, ,,
		radiatula,	,,	Königshof.		Münsteri,		" "
		remota,	,,	Lodenitz, Zahorzan.		problematica,	"	" "
			"	Konieprus.		quæsita,		
D. d. 2		soror.	,,	Holaubka.	,	Wirthi,	**	.,, ,,
		suburbana,	,,	Vrschovitz.	"	Lichas.	"	" "
F. f. 2		tenuissima,	"	Konieprus.	2nd Fauna	primulus,	Barr	Hof (Bavaria).
		Pentamerus			and round in	Olenus.		(
E. e. 1		cuneus,		Ratinka.	Primordial	expectans,	Larr	Hof (Bavaria).
E. e. 2		invalidus,		Viskocilka.		frequens,		
		modestus,	,,	Butovitz.	"	Guimbeli,	"	" "
		proximus,	"	St. Ivan, Konieprus.	Genus uncertain		"	" "
F. f. 2	F. 1. 2		"	Mnienian.	0 1 11		Pow	Hof (Bavaria).
E. e. 2		simplex,	"	Tachlovitz.		prævalens,		A STATE OF THE PARTY OF THE PAR
E. C. 2			2 "	Lacinovitz.	"	corpulenta,	37	" "
		Porambonite		Ratinka, Bubovitz.	"	sp. v,	"	" "
		Bohemicus,			"	,, x,	"	11 11
		robustus,	"	Hlubocep.	"	,, y,	**	" "
		Retzia.	D.	Lookhow	29	,, z,	11	" "
E. e. 2		vesta,	Barr.	Lockhov.				
		Spirifera.	D	V		ANNE	LIDA	
F. f. 2		abscondita,	Barr.	Mnienian.		21212133		
, "		accedens,	**	Konieprus.	The second second	Serpulites?		S. H. Charles
G. g. 1		advena,	,,	Branik.	2nd Fauna	Hofensis,	Barr	Hof (Bavaria).
F. f. 2		approximans,	99	Konieprus.	Ziru Zuulis		-	()
E. e. 2		CONTRACTOR OF THE PARTY OF THE	**	Dlauha Hora.		TAMES TO 0.	DOT .	
"		armata,	,,	Lodenitz, Luzetz.		PTERO	PODA	
**		Bohemica,	,,	., Ratinka.			-	
,,		carens,	"	Dlauha Hora, St. Ivan.		Hyolithus.	-	TT C (D
		deleta,	","	Bubovitz, Lodenitz.	THE PERSON NAMED IN	imperfectus,	Barr.	Hof (Bavaria).
79		The state of the s		Luzetz, Lodenitz.		Wirthi,	,,	,, ,,

	BRACHIOPOD	Α.	Subdivision.	Genus, Species, and Author.	Locality.
Subdivision.	Genus, Species, and Author.	Locality.	Primordial	signata, Barr Wirthi, ,,	Hof (Bavaria).
Primordial Primordial?		Hof (Bavaria).	Primordial? Primordial Lower Silurian.	minor, Barr. palliatus, "	Hof (Bavaria).
Primordial	Bavarica, Barr. cedens, "	Hof (Bavaria).		CYSTIDEA.	1 1
"	humillima, ,, inchoans, ,,	39 39 39 39		Cystidea. Bavarica, Barr.	Hof (Bavaria).

N.B.—The majority of the genera and species indicate the primordial fauna, while the four genera of Trilobites, Asaphus, Lichas, Calymene, and Cheirurus, announce the second fauna, the species being rare. Thus this fauna of Hof seems to constitute a transition and connexion between the first two Silurian fauna.—M. Barrande.

There are a few more Hof fossils scattered about in the 'Thesaurus.'

[The Addenda usually present new information, local and stratigraphical, and frequently newly acquired species.]

ERRATA.

Page.	Error.	Rectification.	Page.	Error.	Rectification.
1	Palæochorda	An Annelid.	84	Rastrites Barrandei	Dele.
2	Trichoides, Harkness	.,	,,	., triangularis	
4	Trichoides, Harkness Nidulites favus	Not in Llandeilo Stage.	95	" triangularis Leptæna calcarata	Only in Llandov, and W.
**	Retioulites	Ought to be Reticulites.	96	" quinquecostata	" Caradoe.
8	Cladopora	Is a Polyzoon.	97	Lingula Bechei	., Llandeilo.
9	Corynoides	,	99	" squamosa, Holl	Malvern.
12	Helopora	,,	102	Obolella polita	Potsdam. Sa. or Calcif. Sa.
13	Oldhamia	,,	114	Rhynchonella Davidsoni	Is in W. and L.
14	Rhinopora		116	serrostata	Only in Llandov Stage
19	Rhinopora Cryptocrinites	A Cystidean.	124	Strophomena undata	W.
26	Hemicystites parasitica Chondrites informis	Only in Niag. Group.	140	Palæarca Billingsiana Bellerophon Murchisoni	Llandeilo Stage.
29	Chondrites informis	In Britain also.	144	Bellerophon Murchisoni	Ludlow "
,,	,, regularis	Not in Llandeilo Stage.	157	Murchisonia bicineta	Only in Caradoc.
11	Crossopodia Scotica	" "	,,	,, bilirata	Not in Black Riv. Lst.
30	Nereites Cambrensis	" Caradoc Stage.	174	Lituites falcatus	In Pleta only.
31	Scolithus linearis	" Llandov. "	176	Orthoceras Avelinii	In Llan. only, Britain.
**	Tentaculites anglicus	" Llandeilo "	178	" encrinale	In Low. Llan. only.
34	Æglina caliginosa	" Caradoe "	,,	" filosum	
11	" mirabilis		181	" subgregarium	In Llandov. only, Lenane
36	Ampyx nasutus	" Britain.			&c., Galway.
58	Lichas verrucosus, Eichw	In Pleta.	182	" undulatum	
,,		Woolhope, Wenlock.	"	" undulobellicinctum	_ **
65	Proetus depressus	Cancel this species.	,,	" undulostriatum	Low. Llan., not Llandov.
81	Climacograptus antennarius	Point Lévis, Queb. G.	-		
		N.B.—Other errors undis	covered	may explain themselves	

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