

A briefe and true report of the new found land of Virginia : Sir Walter Raleigh's colony of MDLXXXV / by Thomas Hariot ; with an introduction.

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A briefe and true report
of the new found land
of Virginia

By *Thomas Hariot* : seruant to
Sir Walter Raleigh, a member of
the Colony, and there im-
ployed in discouering
1585-1586



Edited by

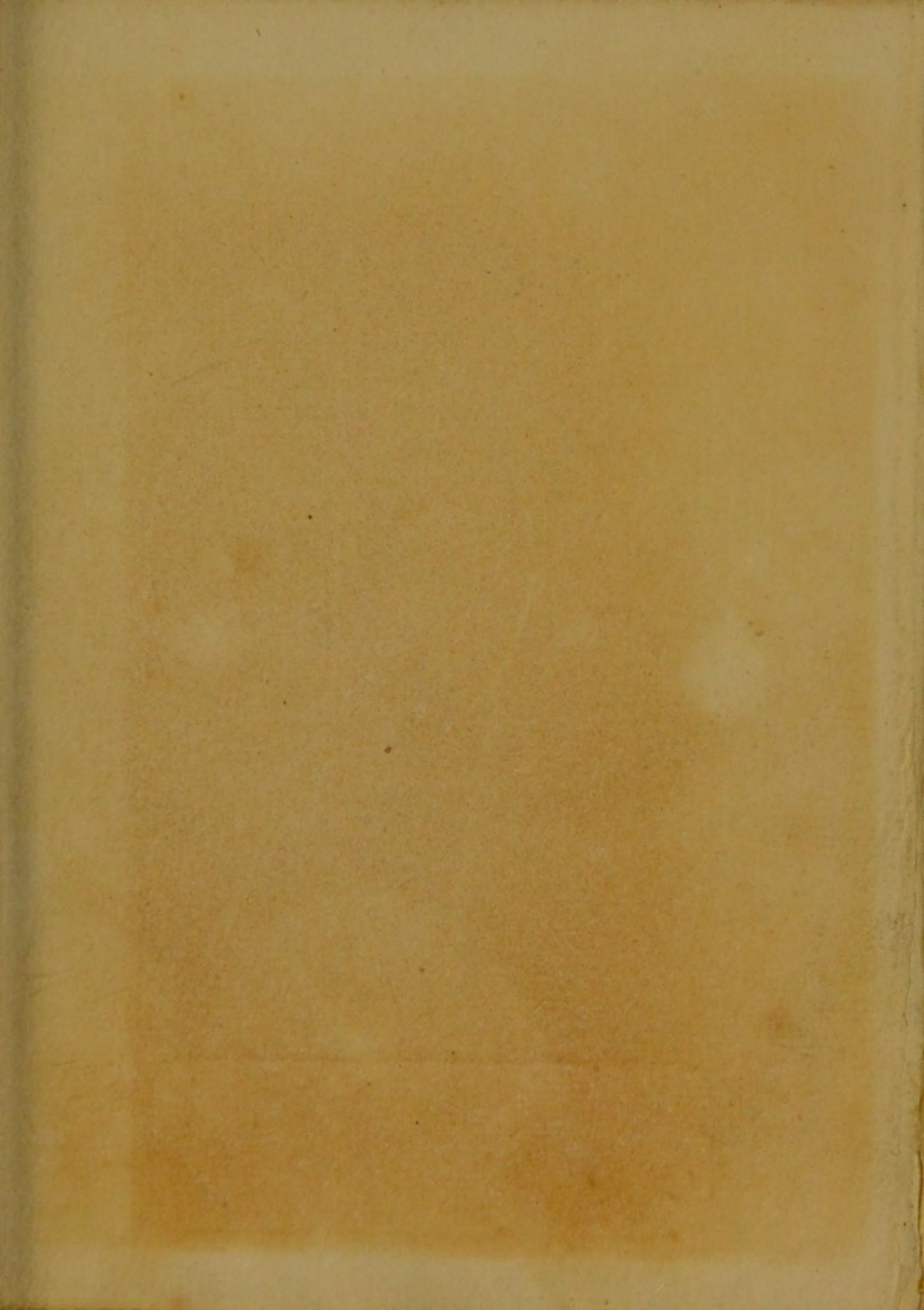
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of Vermont

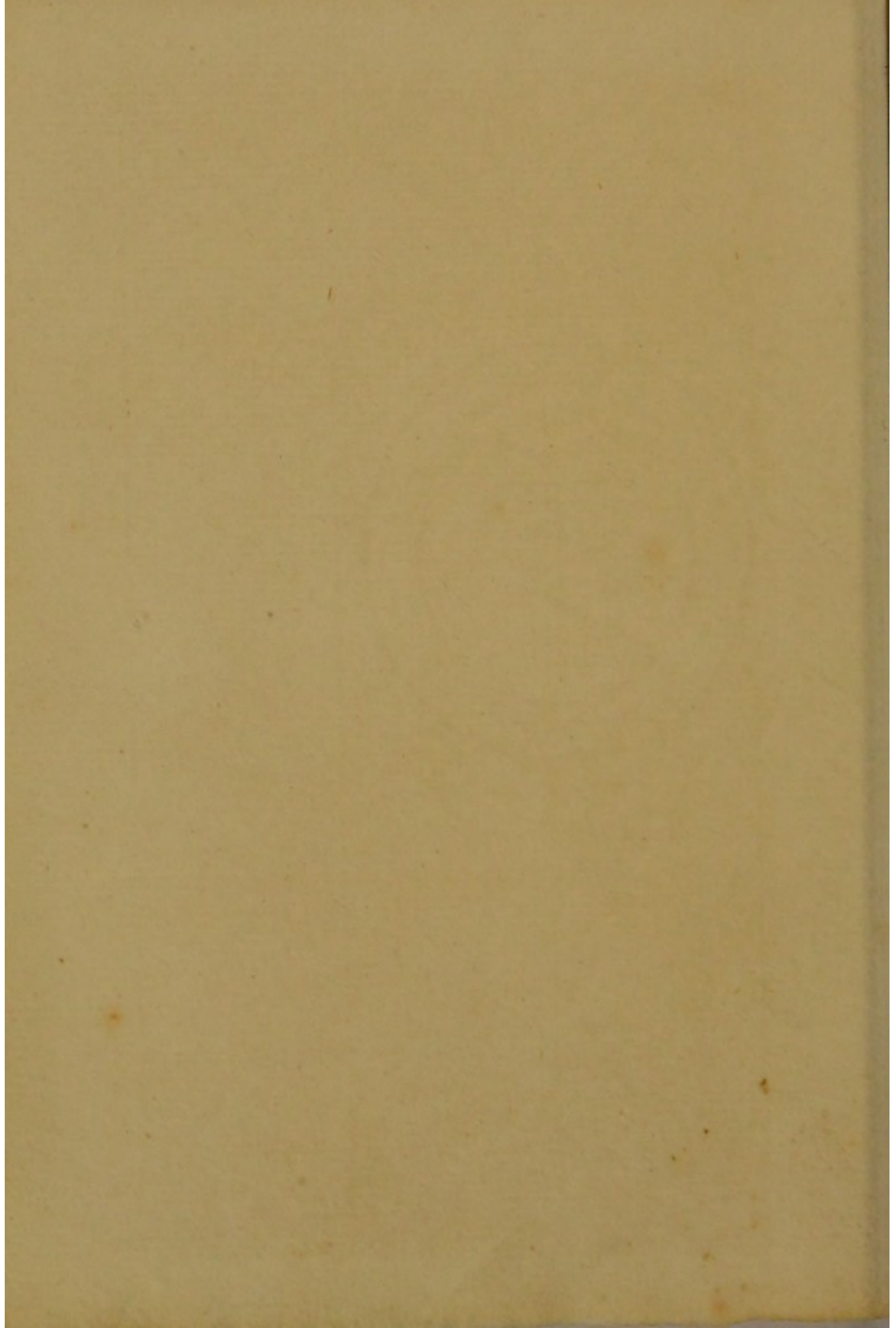
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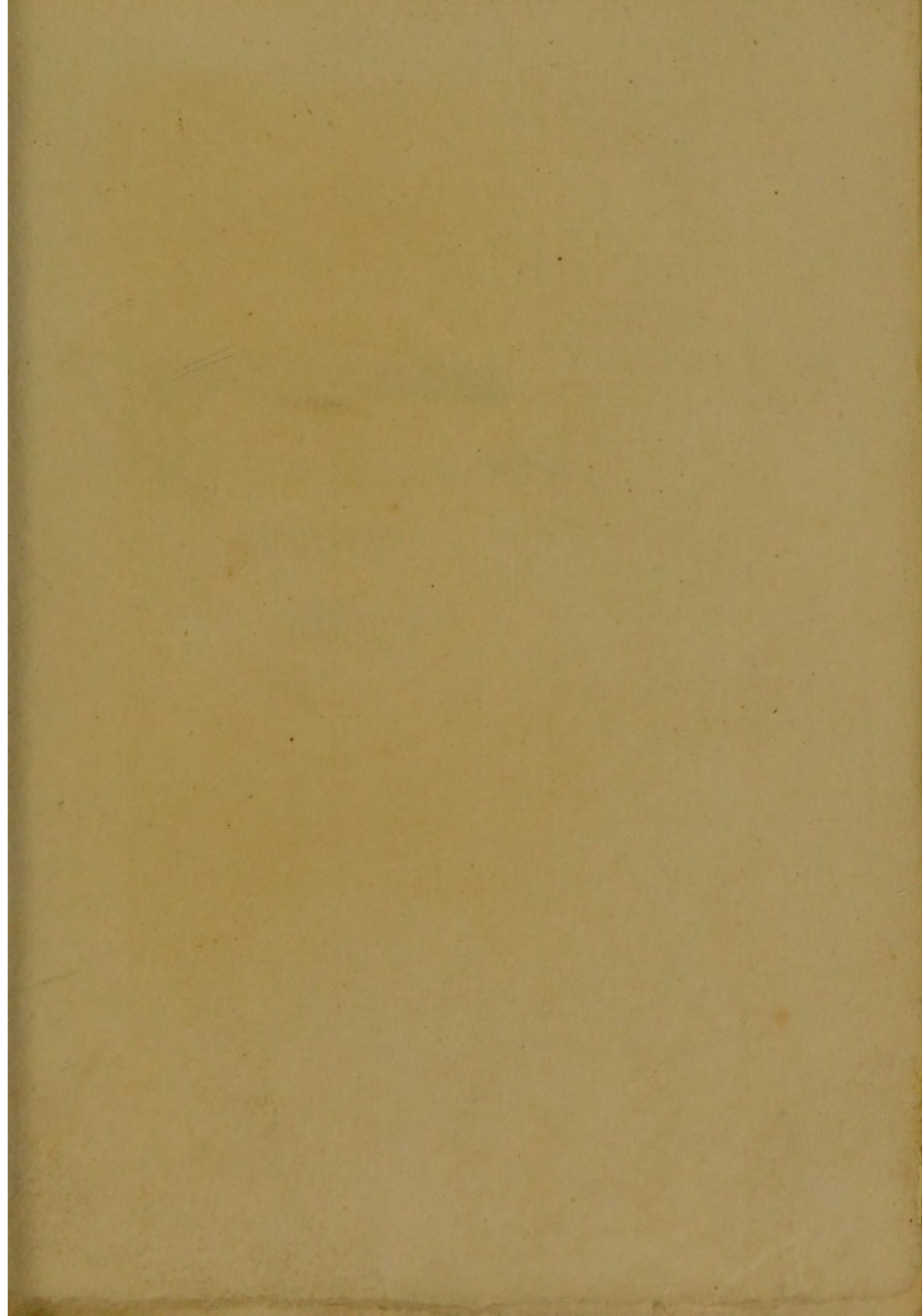
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HARIOT'S VIRGINIA

1585-1586



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A BRIEF AND TRUE
 REPORT
 OF THE NEW FOUND LAND OF
VIRGINIA
 Sir Walter Raleigh's Colony of
 MdLxxxv
 By THOMAS HARIOT
 Mathematician
 WITH AN INTRODUCTION

❧

LONDON
 PRIVATELY PRINTED
 MDCCCC



Wellcome
for the history
and Understanding
of Medicine



Tobacco

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To
THE MEMORY OF
SIR WALTER RALEIGH Knight
THE ORIGINATOR OF
ENGLISH ENTERPRISE
Whose reputation has ever gone on
Increasing like the use of his
TOBACCO
And whose ENEMIES all that be
Good of them like his new
VEGETABLE
the
POTATO
BE ALL UNDER GROUND



One hundred and fifty copies only printed
on Small Paper
and thirty-three copies only
on Large Paper,
of which this is Small Paper

No. ... 64...

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[This Book should be accompanied by a Life of Thomas Hariot, in
a separate volume, as specified on page xi of the Introduction.]



INTRODUCTION



IRGINIA IS TO BE CON-
gratulated on her two most
distinguished sponsors, Sir
WALTER RALEIGH and
THOMAS HARIOT. The
one, the light of the Eliza-
bethan court, was perhaps

the most brilliant man of his time, while the
other, a man of equal eminence, but in a different
sphere, has for five half centuries quietly borne
the 'slings of outrageous fortune' as one of
England's overlooked Worthies. It is not even

now perhaps too late to turn up his lights and let the world see how much of patient merit there is in the blameless life and incomparable intellectual labors of modest Hariot. Work and merit like his are sometimes permitted to slumber, but they can never die.

In reproducing Hariot's 'briefe and true report of the new found land of Virginia' it is unnecessary here to say more than that it was his first book, written from his own observations and experience, and privately issued early in 1589, at the time when Sir Walter was seeking co-operation and friendly aid in his enterprise of Western Planting. It appears to be a brief abstract of 'The Chronicle or Discourse of Virginia according to the course of times' which Hariot had elaborated during his residence of a year, 1585-1586, in Wingandacoa, now North Carolina, as Raleigh's confidential friend and factor. This 'Chronicle' was seen of Hakluyt and used by Strachey, but long since sunk in the pool of oblivion, has become one of the priceless things 'lost upon earth.'

This Report however speaks for itself, having become the corner-stone of the History of 'Ould Virginia,' as that in its turn has become the foundation of the early history of English North America.

Prior to Jamestown almost all that is known of the true character of Florida and Virginia, the lay of the land and the looks of the people, before the coming of the white man, is traceable to this little book, as true to nature, and truthful to history now as it was then, while every thing therein described has passed on in the march of science and the progress of civilization. This book of Hariot with Laudonnière's Florida, taken in connection with Captain John White's and Jacques LeMoyne's pictures as reproduced by Theodore De Bry in 1590 and 1591 in the first two parts of his celebrated Collection of Voyages, affords at this day more authentic materials for the early history of the Atlantic Coast of North America, from the River of May to the Chesapeake, than any other portion of the New World, Spanish or English, can boast of.

Hariot's Report, as all bibliographers know, is very rare, not more than seven copies being now known, and all these, save three, secure in public libraries. This reprint is taken from the fine copy in the Grenville Library in the British Museum. The book was not entered at Stationers' Hall, and bears no printer's or publisher's name. It has the date of February 1588 at the end, that is, 1589 (present reckoning), just before Raleigh's assignment of the rights of a portion of his patent. It was therefore probably printed privately for the use of the parties interested in promoting and carrying out his revised scheme of the 'Second Colonie.'

It was our original intention to give here a sketch of the historical geography of Virginia, as it was by degrees eliminated from the 'Terra Florida' of Juan Ponce de Leon, Ayllon, Gomez, Menendez and others of the Spaniards, and of Verazzano on the part of the French; and particularly to trace how the advantages and experience of the Huguenot Colonies of Florida under Ribault and Laudonnière were eventually

merged into this protestant enterprise of Raleigh; concluding with some account of the extraordinary life and achievements of THOMAS HARIOT, the author of this little book.

But it has since been determined, in view of the abundance of long dormant materials recently discovered, to throw the new matter into a separate and distinct volume on the bibliography and Life of Hariot and his associates, which accompanies this, and to which the reader is referred. Suffice it then to give here only this brief abstract of his personal history.

Thomas Hariot, born and educated at Oxford, took his degree of A.B. in 1579 at the age of nineteen, and soon after became attached to the household of Walter Raleigh as scholar and expert in the mathematical sciences. He is said to have given instruction to Raleigh (who was but eight years his senior) and to his Sea Captains in sciences pertaining to navigation.

In 1585, at the age of twenty-five, he held the important post of Surveyor and Historian of Raleigh's 'First Colonie' led out to Virginia by

Sir Richard Grenville. He remained there one whole year under Governor Ralph Lane, returning in July 1586 with the whole colony of one hundred and nine men in Sir Francis Drake's fleet home-bound from the West Indies.

From that time till Sir Walter's death on the scaffold on the 29th of October 1618, the inquisitive reader may trace in our 'Extra Volume' the remarkable life and eventful career of Raleigh's *Fidus Achates*. One is struck with the close intimacy and confidential relations of these two noble friends for nearly forty years. After Hariot had published this abstract of his 'Chronicle of Virginia' he is found managing and improving Raleigh's Irish estates, and subsequently leasing and occupying 'Pinford-grounds' near Sherburne, Sir Walter's *Tusculanum* acquired by his own boundless enterprise fostered by the Queen's enlightened liberality.

In Raleigh's presence Hariot was his guide philosopher and friend; in his absence Sir Walter's faithful agent. 'According to the order of trust that Sir Walter left with me, before his

departure in that behalf, and as he hath usually done heretofore,' wrote Hariot to Sir Robert Cecil in July 1596 when Raleigh was absent on the famous expedition with Essex and Howard against Cadiz.

In the Guiana expeditions of 1595 and 1617 Hariot was Sir Walter's geographer and literary adviser. During Raleigh's absence from England Hariot was always his man of discretion and trust. In all Raleigh's political vicissitudes at home or abroad, whether at court, or in the army or in the navy, no breath of scandal, political or social, appears against Hariot. But his intimate relations with Hakluyt and De Bry, both suitors of Raleigh's VIRGINIA; his friendly intercourse with Robert Hues and Walter Warner, the mathematicians; his loving intimacy and affectionate correspondence with his disciples Aylesburie, Lower and Protheroe, the astronomers; his relations of cordiality with the artists LeMoyne and John White, Raleigh's second Governor of Virginia; his familiar intercourse with Sir Walter's friends the Sidneys and the Percys; not

to forget Keymis, Hood, Mollineux, William Gilbert of the Magnet, and George Chapman the translator of Homer; all these are telephonic messages from the long silent past testifying to us strongly in favor of our Hariot.

His close connection with Raleigh during his long confinement as 'traitor' in the Tower, and at the same time his close and confidential companionship with Henry Percy, the 9th Earl of Northumberland, also a 'traitor' in the Tower, are remarkable instances of friendship and fidelity to both of these celebrated prisoners of State.

How Hariot aided both 'traitors' in their scientific studies within the Tower, and for years kept them informed of the news of the world; how he corresponded with Kepler and other distinguished men of science abroad, aided Raleigh in his 'History of the World,' supplied Percy with books and news from Sion; how he pursued his investigations into almost every department of natural philosophy, chemistry, the mathematical sciences, and philology; how he used perspective glasses and invented 'perspec-

tive truncks,' or the telescope, and made many consequent astronomical discoveries that have been generally attributed to Galileo; and how he distributed his mathematical problems and philosophical questions to his admiring disciples, may all be read in our 'extra volume.'

And if the patient reader desires more, he may read therein of the blameless and studious life of Hariot, 'whose judgment and knowledge in all kinds, I know to be incomparable and bottomlesse,' wrote his friend George Chapman the poet in 1616, who testifies also to his 'cleare unmatchednesse in all manner of learning.' He may also read of Hariot's varied and interesting correspondence with divers of the most learned in the land; his long residence at Sion on Thames in a house built for him by the Earl of Northumberland, who, in addition, for many years allowed him an annual pension of £80; his many wonderful friendships; his terrible disease and long affliction; his admirable patience, gentle perseverance, and christian fortitude; his loving presence with Sir Walter in the Gate House

Gaol that terrible night before the execution, and his thoughtful 'note of remembrance' for the dying speech; his observations on the comets of 1607 and 1618; his coming up to London to die; his long and remarkable Will, made only three days before his death, and lost sight of till 1879; his death, the 2nd of July 1621, at Buckner's, an old friend who had been with him in Virginia; his burial the next day in the Church of St Christopher; his four eminent executors, one of whom was Sir Robert Sidney, the brother of Sir Philip, and another, Sir Thomas Aylesburie, his 'loytering scholar,' the great grandfather of two queens of England, Mary and Anne; his beautiful monument with splendid epitaph, erected by the Earl of Northumberland, both destroyed in the fire of London; and his century's slumber in the 'garden' of the Bank of England, which, a hundred years ago, was the little churchyard of St Christopher's, where still repose his bones. All these things, and more, may now be read of THOMAS HARIOT, one of the chiefest of

England's neglected worthies; the first surveyor and historian of Virginia; the first mathematician and natural philosopher of his age; an eminent inventor in science and art, and discoverer in mathematics and astronomy. Thomas Hariot, for two centuries and a half the forgotten of his countrymen, now awakes to find the Bank of England built round his bones, and his life at once the pride of Britain, and the glory of America.

OUTIS

Secretary

The Hercules Club,
London, *May 10, 1885*





❧ A briefe and true re-

port of the new found land of Virginia: of
the commodities there found and to be rayfed, as well mar-
chantable, as others for victuall, building and other neces-
sarie uses for those that are and shalbe the planters there; and of the na-
ture and manners of the naturall inhabitants: Discouered by the
English Colony there seated by Sir Richard Greinuile Knight in the
yeere 1585. which remained vnder the gouernment of Rafe Lane Esqui-
er, one of her Maiesties Equieres, during the space of twelue monethes: at
the speciall charge and direction of the Honourable SIR
WALTER RALEIGH Knight, Lord Warden of
the stanneries; who therein hath beene faou-
red and authorised by her Maiestie and
her letters patents:

Directed to the Aduenturers, Fauourers,
and Welwillers of the action, for the inhabi-
ting and planting there:

By *Thomas Hariot*; seruant to the abouenamed
Sir Walter, a member of the Colony, and
there employed in discouering.



Imprinted at London 1588.





¶ Rafe Lane one of her Maiesties

*Equieres and Gouvernour of the Colony in Virginia
aboue mentioned for the time there resi-
dent. To the gentle Reader, wisbeth
all happines in the Lord.*



*Albeit (Gentle Reader) the
credite of the reports in
this treatise contained, can
little be furthered by the
testimonie of one as my selfe,
through affection iudged
partiall, though without
desert: Neuerthelesse forsomuch as I haue beene
requested by some my particular friends, who
conceiue more rightly of me, to deliuer freely my
knowledge of the same; not onely for the satisfy-
ing of them, but also for the true enformation of*

anie other whosoever, that comes not with a pre-
iudicate minde to the reading thereof: Thus much
upon my credit I am to affirme: that things uni-
uersally are so truly set downe in this treatise by
the author therof, an Actor in the Colony & a
man no lesse for his honesty then learning com-
mendable: as that I dare boldly auouch it may
very well passe with the credit of truth euen a-
mongst the most true relations of this age. Which
as for mine own part I am readie any way with
my word to acknowledge, so also (of the certaintie
thereof assured by mine owne experience)

with this my publike assertion,

I doe affirme the same.

Farewell in the

Lorde.





¶ To the Aduenturers, Fauourers,
*and Welwillers of the enterprife for the in-
habiting and planting in Virginia.*



Ince the first vndertaking
by Sir Walter Raleigh to
deale in the action of dis-
couering of that Coun-
trei which is now called
and known by the name of
Virginia; many voyages
hauing bin thither made

at sundrie times to his great charge; as first in the
yeere 1584, and afterwarde in the yeeres 1585,
1586, and now of late this last yeare of 1587:
There haue bin diuers and variable reportes with
some slaunderous and shamefull speeches bruited
abroade by many that returned from thence. Es-
pecially of that discouery which was made by

the Colony transported by Sir Richard Greinuile in the yeare 1585, being of all the others the most principal and as yet of most effect, the time of their abode in the countrey beeing a whole yeare, when as in the other voyage before they staid but sixe weekes; and the others after were onelie for supply and transportation, nothing more being discovered then had been before. Which reports haue not done a litle wrong to many that otherwise would haue also fauoured & aduentured in the action, to the honour and benefite of our nation, besides the particular profite and credite which would redound to them selues the dealers therein; as I hope by the sequelle of euent to the shame of those that haue auouched the contrary shalbe manifest: if you the aduenturers, fauourers, and welwillers do but either encrease in number, or in opinion continue, or hauing bin doubtfull renewe your good liking and furtherance to deale therein according to the worthinesse thereof alreadye found and as you shall vnderstand hereafter to be requisite. Touching which woorthines through cause of the diuersitie of relations and reportes, manye of your opinions coulde not bee firme, nor the mindes of some that are well disposed, bee settled in any certaintie.

I haue therefore thought it good beeing one that haue beene in the discouerie and in dealing with the naturall inhabitantes specially imploied; and hauing therefore seene and knowne more then the ordinarie : to imparte so much vnto you of the fruites of our labours, as that you may knowe howe iniuriously the enterprise is slaundered. And that in publike manner at this present chiefe for two respectes.

First that some of you which are yet ignorant or doubtfull of the state thereof, may see that there is sufficient cause why the cheefe enterpriser with the fauour of her Maiestie, notwithstanding suche reportes ; hath not onelie since continued the action by sending into the countrey againe, and replanting this last yeere a new Colony ; but is also readie, according as the times and meanes will affoorde, to follow and prosecute the same.

Secondly, that you seeing and knowing the continuance of the action by the view hereof you may generally know & learne what the countrey is, & thervpon consider how your dealing therein if it proceede, may returne you profit and gaine ; bee it either by inhabiting & planting or otherwise in furthering thereof.

And least that the substance of my relation should be doubtful vnto you, as of others by reason of their diuersitie: I will first open the cause in a few wordes wherefore they are so different; referring my selfe to your fauourable constructions, and to be adiudged of as by good consideration you shall finde cause.

Of our companie that returned some for their misdemenour and ill dealing in the countrey, haue beene there worthily punished; who by reason of their badde natures, haue maliciously not onelie spoken ill of their Gouvernours; but for their sakes slaundered the countrie it selfe. The like also haue those done which were of their consort.

Some beeing ignorant of the state thereof, notwithstanding since their returne amongst their friendes and acquaintance and also others, especially if they were in companie where they might not be gainesaide; woulde seeme to knowe so much as no men more; and make no men so great trauailers as themselues. They stood so much as it maie seeme vppon their credite and reputation that hauing been a twelue moneth in the countrey, it woulde haue beene a great disgrace vnto them as they thought, if they coulde

not haue saide much whether it were true or false. Of which some haue spoken of more then euer they saw or otherwise knew to bee there; othersome haue not bin ashamed to make absolute deniall of that which although not by them, yet by others is most certainly and there plentifully knowne. And othersome make difficulties of those things they haue no skill of.

The cause of their ignorance was, in that they were of that many that were neuer out of the Iland where wee were seated, or not farre, or at the leastwise in few places els, during the time of our aboade in the countrey; or of that many that after golde and siluer was not so soone found, as it was by them looked for, had little or no care of any other thing but to pamper their bellies; or of that many which had little vnderstanding, lesse discretion, and more tongue then was needfull or requisite.

Some also were of a nice bringing vp, only in cities or townes, or such as neuer (as I may say) had seene the world before. Because there were not to bee found any English Cities, nor such faire houses, nor at their owne wish any of their olde accustomed daintie food, nor any soft beds of downe or fethers; the countrey

was to them miserable, & their reports thereof according.

Because my purpose was but in briefe to open the cause of the varietie of such speeches; the particularities of them, and of many enuious, malicious, and slaunderous reports and deuises els, by our owne countrey men besides; as trifles that are not worthy of wise men to bee thought vpon, I meane not to trouble you withall: but will passe to the commodities, the substance of that which I haue to make relation of vnto you.

The treatise whereof for your more readie view & easier vnderstanding I will diuide into three speciall parts. In the first I will make declaration of such commodities there alreadie found or to be raised, which will not onely serue the ordinary turnes of you which are and shall bee the planters and inhabitants, but such an ouerplus sufficiently to bee yelded, or by men of skill to bee prouided, as by way of trafficke and exchange with our owne nation of England, will enrich your selues the prouiders; those that shal deal with you; the enterprisers in general; and greatly profit our owne countrey men, to supply thē with most things which heretofore they haue bene faine to prouide, either of strangers or of

our enemies : which commodities for distinction sake, I call *Merchantable*.

In the second, I will set downe all the commodities which wee know the countrey by our experience doeth yeld of it selfe for victuall, and sustenance of mans life ; such as is vsually fed vpō by the inhabitants of the countrey, as also by vs during the time we were there.

In the last part I will make mention generally of such other commodities besides, as I am able to remember, and as I shall thinke behoofull for those that shall inhabite, and plant there to knowe of; which specially concerne building, as also some other necessary vses : with a briefe description of the nature and manners of the people of the countrey.





The first part of Marchantable
commodities.



Ilke of grasse or grasse Silke. There is a kind of grasse in the countrey vppon the blades whereof there groweth very good silke in forme of a thin glittering skin to bee stript of. It groweth two foote and a halfe high or better : the blades are about two foot in length, and half inch broad. The like groweth in Persia, which is in the selfe same climate as *Virginia*, of which very many of the silke workes that come from thence into Europe are made. Hereof if it be planted and ordered as in Persia, it cannot in reason be otherwise, but that there will rise in shorte time great profite to the dealers therein ; seeing there is so great vse and vent thereof as well in our countrey as els where. And by the meanes of sowing & planting it in good

ground, it will be farre greater, better, and more plentiful then it is. Although notwithstanding there is great store thereof in many places of the countrey growing naturally and wilde. Which also by proof here in England, in making a piece of silke Grogan, we found to be excellent good.

Worme Silke: In manie of our iourneyes we found silke wormes fayre and great; as bigge as our ordinary walnuttes. Although it hath not beene our happe to haue found such plentie as elsewhere to be in the countrey we haue heard of; yet seeing that the countrey doth naturally breede and nourish them, there is no doubt but if art be added in planting of mulbery trees and others fitte for them in commodious places, for their feeding and nourishing; and some of them carefully gathered and husbanded in that sort as by men of skill is knowne to be necessarie: there will rise as great profite in time to the *Virginians*, as thereof doth now to the *Persians*, *Turkes*, *Italians* and *Spaniards*.

Flaxe and Hempe: The trueth is that of Hempe and Flaxe there is no great store in any one place together, by reason it is not planted but as the soile doth yeeld it of it selfe; and how-

soeuer the leafe, and stemme or stalke doe differ from ours; the stuffe by the iudgemēt of men of skill is altogether as good as ours. And if not, as further prooffe should finde otherwise; we haue that experience of the soile, as that there cannot bee shewed anie reason to the contrary, but that it will grow there excellent well; and by planting will be yeelded plentifully: seeing there is so much ground whereof some may well be applyed to such purposes. What benefite heereof may growe in cordage and linnens who can not easily vnderstand?

Allum: There is a veine of earth along the sea coast for the space of fourtie or fiftie miles, whereof by the iudgement of some that haue made triall heere in England is made good *Allum*, of that kinde which is called *Roche Allum*. The richnesse of such a commoditie is so well knowne that I neede not to saye any thing thereof. The same earth doth also yeelde *White Copresse*, *Nitrum*, and *Alumen plumeum*, but nothing so plentifully as the common *Allum*; which be also of price and profitable.

Wapeih, a kinde of earth so called by the naturall inhabitants; very like to *terra Sigillata*: and hauing beene refined, it hath beene found

by some of our Phisitions and Chirurgeons to bee of the same kinde of vertue and more effectuall. The inhabitants vse it very much for the cure of sores and woundes: there is in diuers places great plentie, and in some places of a blewe sort.

Pitch, Tarre, Rozen, and Turpentine: There are those kindes of trees which yeelde them abundantly and great store. In the very same Iland where wee were seated, being fifteene miles of length, and fiue or sixe miles in breadth, there are fewe trees els but of the same kind; the whole Iland being full.

Sassafras, called by the inhabitantes *Winauk*, a kinde of wood of most pleasant and sweete smel; and of most rare vertues in phisick for the cure of many diseases. It is foūd by experience to bee farre better and of more vses then the wood which is called *Guaiacum*, or *Lignum vitæ*. For the description, the manner of vsing and the manifold vertues thereof, I referre you to the booke of *Monardus*, translated and entituled in English, *The ioyfull newes from the West Indies*.

Cedar, a very sweet wood & fine timber; wherof if nests of chests be there made, or timber therof fitted for sweet & fine bedsteads, tables,

deskes, lutes, virginalles & many things else, (of which there hath beene prooffe made already,) to make vp fraite with other principal commodities will yeeld profite.

Wine: There are two kinds of grapes that the soile doth yeeld naturally: the one is small and sowre of the ordinarie bignesse as ours in England: the other farre greater & of himselfe lushious sweet. When they are planted and husbanded as they ought, a principall commoditie of wines by them may be raised.

Oyle: There are two sortes of *Walnuttes* both holding oyle, but the one farre more plentifull then the other. When there are milles & other deuises for the purpose, a commodity of them may be raised because there are infinite store. There are also three seuerall kindes of *Berries* in the forme of Oke akornes, which also by the experience and vse of the inhabitantes, wee finde to yeelde very good and sweete oyle. Furthermore the *Beares* of the countrey are commonly very fatte, and in some places there are many: their fatnesse because it is so liquid, may well be termed oyle, and hath many speciall vses.

Furres: All along the Sea coast there are great store of *Otters*, which beeyng taken by

weares and other engines made for the purpose, will yeelde good profite. Wee hope also of *Marterns furrres*, and make no doubt by the relation of the people but that in some places of the countrey there are store: although there were but two skinnes that came to our handes.

Luzarnes also we haue vnderstanding of, although for the time we saw none.

Deare skinnes dressed after the manner of *Chamoos* or vndressed are to be had of the naturall inhabitants thousands yeerely by way of traficke for trifles: and no more wast or spoyle of Deare then is and hath beene ordinarily in time before.

Ciuet cattes: In our trauailes, there was founde one to haue beene killed by a saluage or inhabitant: and in an other place the smell where one or more had lately beene before: whereby we gather besides then by the relation of the people that there are some in the countrey: good profite will rise by them.

Iron: In two places of the countrey specially, one about fourescore and the other sixe score miles from the Fort or place where wee dwelt: wee founde neere the water side the ground to be rockie, which by the triall of a minerall man,

was founde to holde yron richly. It is founde in manie places of the countrey else. I knowe nothing to the contrarie, but that it maie bee allowed for a good marchantable commoditie, considering there the small charge for the labour and feeding of men : the infinite store of wood : the want of wood and deerenesse thereof in England : & the necessity of ballasting of shippes.

Copper: A hundred and fiftie miles into the maine in two townes wee founde with the inhabitants diuerse small plates of copper, that had beene made as wee vnderstood, by the inhabitantes that dwell farther into the countrey : where as they say are mountaines and Riuers that yeelde also whyte graynes of Mettall, which is to bee deemed *Siluer*. For confirmation whereof at the time of our first arriuall in the Countrey, I sawe with some others with mee, two small peeces of siluer grosly beaten about the weight of a Testrone, hangyng in the eares of a *Wiroans* or *chiefe Lorde* that dwelt about fourescore myles from vs; of whom thorowe enquiry, by the number of dayes and the way, I learned that it had come to his handes from the same place or neere, where I after vnderstood the cop-

per was made and the white graynes of mettall founde. The aforesaide copper wee also founde by triall to holde siluer.

Pearle: Sometimes in feeding on muscles wee founde some pearle; but it was our hap to meete with ragges, or of a pide colour; not hauing yet discovered those places where wee hearde of better and more plentie. One of our companie; a man of skill in such matters, had gathered together from among the sauage people aboute fise thousande: of which number he chose so many as made a fayre chaine, which for their likeness and vniformitie in roundnesse, orientnesse, and pidenesse of many excellent colours, with equalitie in greatnesse, were verie fayre and rare; and had therefore beene presented to her Maiestie, had wee not by casualtie and through extremity of a storme, lost them with many things els in comming away from the countrey.

Sweete Gummes of diuers kindes and many other Apothecary drugges of which wee will make speciall mention, when wee shall receiue it from such men of skill in that kynd, that in taking reasonable paines shall discover them more particularly then wee haue done; and than now I can make relation of, for want of the ex-

amples I had prouided and gathered, and are nowe lost, with other thinges by causualtie before mentioned.

Dyes of diuers kindes: There is *Shoemake* well knowen, and vsed in England for blacke; the seede of an hearbe called *Wasewówr*; little small rootes called *Cháppacor*; and the barke of the tree called by the inhabitants *Tangomóckomindge*: which Dies are for diuers sortes of red: their goodnesse for our English clothes remayne yet to be proued. The inhabitants vse them onely for the dying of hayre; and colouring of their faces, and Mantles made of Deare skinnes; and also for the dying of Rushes to make artificiall workes withall in their Mattes and Baskettes; hauing no other thing besides that they account of, apt to vse them for. If they will not proue merchantable there is no doubt but the Planters there shall finde apte vses for them, as also for other colours which wee knowe to be there.

Oade; a thing of so great vent and vse amongst English Diers, which cannot bee yeilded sufficiently in our owne countrey for spare of ground; may bee planted in *Virginia*, there being ground enough. The growth therof need not to be doubted, when as in the Ilandes of the

Asores it groweth plentifully, which is in the same climate. So likewise of *Madder*.

We carried thither *Suger canes* to plant which beeing not so well preserued as was requisit, & besides the time of the yere being past for their setting when we arriued, wee could not make that prooffe of them as wee desired. Notwithstanding, seeing that they grow in the same climate, in the South part of Spaine and in Barbary, our hope in reason may yet cōtinue. So likewise for *Orenges*, and *Lemmons*: there may be planted also *Quinses*. Wherby may grow in reasonable time if the actiō be diligently prosecuted, no small commodities in *Sugers*, *Suckets*, and *Marmalades*.

Many other commodities by planting may there also bee raised, which I leaue to your discret and gentle considerations: and many also bee there which yet we haue not discovered. Two more commodities of great value one of certaintie, and the other in hope, not to be planted, but there to be raised & in short time to be provided and prepared, I might haue specified. So likewise of those commodities already set downe I might haue said more; as of the particular places where they are founde and best to be

planted and prepared : by what meanes and in what reasonable space of time they might be raised to profit and in what proportion ; but because others then welwillers might bee therewithall acquainted, not to the good of the action, I haue wittingly omitted them : knowing that to those that are well disposed I haue vttered, according to my promise and purpose, for this part sufficient.





The second part of suche commodities
as Virginia is knowne to yeelde for viētually and
sustenance of mans life, vsually fed vpon by
the naturall inhabitants: as also by vs during
the time of our aboard.

And first of such as are sowed
and husbanded.



PAgatowr, a kinde of graine so
called by the inhabitants ;
the same in the West Indies
is called *Mayze*: English
men call it *Guinney wheate*
or *Turkie wheate*, according
to the names of the coun-
treys from whence the like hath beene brought.
The graine is about the bignesse of our ordinary
English peaze and not much different in forme

and shape : but of diuers colours : some white, some red, some yellow, and some blew. All of them yeelde a very white and sweete flowre : beeing vsed according to his kinde it maketh a very good bread. Wee made of the same in the countrey some mault, whereof was brued as good ale as was to bee desired. So likewise by the help of hops therof may bee made as good Beere. It is a graine of marueilous great increase ; of a thousand, fifteene hundred and some two thousand fold. There are three sortes, of which two are ripe in an eleuen and twelue weekes at the most : sometimes in ten, after the time they are set, and are then of height in stalke about sixe or seuen foote. The other sort is ripe in fourteene, and is about ten foote high, of the stalkes some beare foure heads, some three, some one, and two : euery head containing fve, sixe, or seuen hundred graines within a fewe more or lesse. Of these graines besides bread, the inhabitants make victuall eyther by parching them ; or seething them whole vntill they be broken ; or boyling the floure with water into a pappe.

Okindgier, called by vs *Beanes*, because in greatnesse & partly in shape they are like to

the Beanes in England; sauing that they are flatter, of more diuers colours, and some pide. The leafe also of the stemme is much different. In taste they are altogetherv as good as our English peaze.

Wickonzówr, called by vs *Peaze*, in respect of the beanes for distinctiõ sake, because they are much lesse; although in forme they little differ; but in goodnesse of tast much, & are far better then our English peaze. Both the beanes and peaze are ripe in tenne weekes after they are set. They make them victuall either by boyling them all to pieces into a broth; or boiling them whole vntill they bee soft and beginne to breake as is vsed in England, eyther by themselves or mixtly together: Sometime they mingle of the wheate with them. Sometime also beeing whole sodden, they bruse or pound them in a mortar, & thereof make loaues or lumps of dowishe bread, which they vse to eat for varietie.

Macócqwer, according to their seuerall formes called by vs, *Pompions*, *Mellions*, and *Gourdes*, because they are of the like formes as those kindes in England. In *Virginia* such of seuerall formes are of one taste and very good, and do

also spring from one seed. There are of two sorts ; one is ripe in the space of a moneth, and the other in two moneths.

There is an hearbe which in Dutch is called *Melden*. Some of those that I describe it vnto, take it to be a kinde of Orage ; it groweth about foure or fiue foote high : of the seede thereof they make a thicke broth, and pottage of a very good taste : of the stalke by burning into ashes they make a kinde of salt earth, wherewithall many vse sometimes to season their brothes ; other salte they knowe not. Wee our selues vsed the leaues also for pothearbcs.

There is also another great hearbe in forme of a Marigolde, about sixe foote in height ; the head with the floure is a spanne in breadth. Some take it to bee *Planta Solis* : of the seedes heereof they make both a kinde of bread and broth.

All the aforesaide commodities for victuall are set or sowed, sometimes in groundes a part and seuerally by thēselues ; but for the most part together in one ground mixtly : the manner thereof with the dressing and preparing of the ground, because I will note vnto you the fertilitie of the soile ; I thinke good briefly to describe.

The ground they neuer fatten with mucke, dounge or any other thing; neither plow nor digge it as we in England, but onely prepare it in sort as followeth. A fewē daies before they sowe or set, the men with wooden instruments, made almost in forme of mattockes or hoes with long handles; the women with short peckers or parers, because they vse them sitting, of a foote long and about fiue inches in breadth: doe onely breake the vpper part of the ground to rayse vp the weedes, grasse, & old stubbes of corne stalkes with their rootes. The which after a day or twoes drying in the Sunne, being scrapte vp into many small heapes, to saue them labour for carrying them away; they burne into ashes. (And whereas some may thinke that they vse the ashes for to better the grounde; I say that then they woulde eyther disperse the ashes abroad; which wee obserued they doe not, except the heapes bee too great: or els would take speciall care to set their corne where the ashes lie, which also wee finde they are carelesse of.) And this is all the husbanding of their ground that they vse.

Then their setting or sowing is after this maner. First for their corne, beginning in one

corner of the plot, with a pecker they make a hole, wherein they put foure graines with that care they touch not one another, (about an inch asunder) and couer them with the moulde againe : and so through out the whole plot, making such holes and vsing them after such maner : but with this regard that they bee made in rankes, euery ranke differing from other halfe a fadome or a yarde, and the holes also in euery ranke, as much. By this meanes there is a yarde spare ground betwene euery hole : where according to discretion here and there, they set as many Beanes and Peaze : in diuers places also among the seedes of *Macócqwer Melden* and *Planta solis*.

The ground being thus set according to the rate by vs experimented, an English Acre conteining fourtie pearches in length, and foure in breadth, doeth there yeeld in croppe or ofcome of corne, beanes, and peaze, at the least two hundred London bushelles : besides the *Macócqwer, Melden,* and *Planta solis* : When as in England fourtie bushelles of our wheate yeelded out of such an acre is thought to be much.

I thought also good to note this vnto you, y^e you which shall inhabite and plant there, maie

know how specially that countrey corne is there to be preferred before ours: Besides the manifold waies in applying it to victuall, the increase is so much that small labour and paines is needful in respect that must be vsed for ours. For this I can assure you that according to the rate we haue made prooffe of, one man may prepare and husband so much grounde (hauing once borne corne before) with lesse then foure and twentie houres labour, as shall yeelde him victuall in a large proportion for a twelue moneth, if hee haue nothing else, but that which the same ground will yeelde, and of that kinde onelie which I haue before spoken of: the saide ground being also but of fise and twentie yards square. And if neede require, but that there is ground enough, there might be raised out of one and the selfsame ground two haruestes or ofcomes; for they sowe or set and may at anie time when they thinke good from the middest of March vntill the ende of Iune: so that they also set when they haue eaten of their first croppe. In some places of the countrey notwithstanding they haue two haruests, as we haue heard, out of one and the same ground.

For English corne neuertheles whether to vse

or not to vse it, you that inhabite maie do as you shall haue farther cause to thinke best. Of the growth you need not to doubt: for barlie, oates and peaze, we haue seene proof of, not beeing purposely sowed but fallen casually in the worst sort of ground, and yet to be as faire as any we haue euer seene here in England. But of wheat because it was musty and had taken salt water wee could make no triall: and of rye we had none. Thus much haue I digressed and I hope not vnnecessarily: nowe will I returne againe to my course and intreate of that which yet remaineth appertaining to this Chapter.

There is an herbe which is sowed a part by it selfe & is called by the inhabitants *υπρωωoc*: In the West Indies it hath diuers names, according to the seuerall places & countries where it groweth and is vsed: The Spaniardes generally call it *Tobacco*. The leaues thereof being dried and brought into powder: they vse to take the fume or smoke thereof by sucking it through pipes made of claie into their stomacke and heade; from whence it purgeth superfluous fleame & other grosse humors, openeth all the pores & passages of the body: by which meanes the vse thereof, not only preserueth the body from

obstructions; but also if any be, so that they haue not beene of too long continuance, in short time breaketh them: wherby their bodies are notably preserued in health, & know not many greeuous diseases wherewithall wee in England are oftentimes afflicted.

This *Vppóωoc* is of so precious estimation amongest thē, that they thinke their gods are maruelously delighted therewith: Wherupon sometime they make hallowed fires & cast some of the pouders therein for a sacrifice: being in a storme vppon the waters, to pacifie their gods, they cast some vp into the aire and into the water: so a weare for fish being newly set vp, they cast some therein and into the aire: also after an escape of danger, they cast some into the aire likewise: but all done with strange gestures, stamping, sometime dauncing, clapping of hands, holding vp of hands, & staring vp into the heauē, vttering therewithal and chattering strange words & noises.


We our selues during the time we were there vsed to suck it after their maner, as also since our returne, & haue found manie rare and wonderful experiments of the vertues thereof; of which the relation woulde require a volume by

it selfe: the vse of it by so manie of late, men & women of great calling as else, and some learned Phisitions also, is sufficient witnes.

And these are all the commodities for sustenance of life that I know and can remember they vse to husband: all else that followe are founde growing naturally or wilde.



Of Rootes.

 *Penauk* are a kind of roots of round forme, some of the bignes of walnuts, some far greater, which are found in moist & marish grounds growing many together one by another in ropes, or as thogh they were fastned with a string. Being boiled or sodden they are very good meate.

Okeepenauk are also of roūd shape, found in dry groūds: some are of the bignes of a mans head. They are to be eaten as they are taken out of the ground, for by reason of their drinesse they will neither roste nor seeth. Their tast is not so good as of the former rootes, notwithstanding

for want of bread & somtimes for varietie the inhabitāts vse to eate them with fish or flesh, and in my iudgement they doe as well as the household bread made of rie heere in England.

Kaishúcpenauk a white kind of roots about the bignes of hen eggs & nere of that forme: their tast was not so good to our seeming as of the other, and therefore their place and manner of growing not so much cared for by vs: the inhabitants notwithstanding vsed to boile & eate many.

Tsinaw a kind of roote much like vnto ^t *y* which in England is called the *China root* brought from the East Indies. And we know not anie thing to the contrary but that it maie be of the same kind. These roots grow manie together in great clusters and doe bring foorth a brier stalke, but the leafe in shape far vnlike; which beeing supported by the trees it groweth neerest vnto, wil reach or climbe to the top of the highest. From these roots while they be new or fresh beeing chopt into small pieces & stamp, is strained with water a iuice that maketh bread, & also being boiled, a very good spoonemeate in maner of a gelly, and is much better in tast if it bee tempered with oyle. This *Tsinaw* is not

of that sort which by some was caused to be brought into England for the *China roote*, for it was discovered since, and is in vse as is afore saide: but that which was brought hither is not yet knowne neither by vs nor by the inhabitants to serue for any vse or purpose; although the rootes in shape are very like.

Coscúshaw, some of our company tooke to bee that kinde of roote which the Spaniards in the West Indies call *Cassauy*, whereupon also many called it by that name: it groweth in very muddy pooles and moist groundes. Being dressed according to the countrey maner, it maketh a good bread, and also a good sponemeate, and is vsed very much by the inhabitants: The iuice of this root is poison, and therefore heede must be taken before any thing be made therewithall: Either the rootes must bee first sliced and dried in the Sunne, or by the fire, and then being pounded into floure wil make good bread: or els while they are greene they are to bee pared, cut into pieces and stamp; loues of the same to be laid neere or ouer the fire vntill it be soure, and then being well pounded againe, bread, or sponemeate very god in taste, and holsome may be made thereof.

Habascon is a roote of hoat taste almost of the forme and bignesse of a Parseneepe, of it selfe it is no victuall, but onely a helpe beeing boiled together with other meates.

There are also *Leekes* differing little from ours in England that grow in many places of the coū-trey, of which, when we came in places where they were, wee gathered and eate many, but the naturall inhabitants neuer.



Of Fruites.

H*estnuts*, there are in diuers places great store: some they vse to eate rawe, some they stampe and boile to make spoonemeate, and with some being soddē they make such a manner of dowe bread as they vse of their beanes before mentioned.

Walnuts: There are two kindes of Walnuts, and of thē infinit store: In many places where very great woods for many miles together the third part of trees are walnut-trees. The one

kind is of the same taste and forme or litle differing from ours of England, but that they are harder and thicker shelled: the other is greater and hath a verie ragged and harde shell: but the kernell great, verie oylie and sweete. Besides their eating of them after our ordinarie maner, they breake them with stones and pound them in morters with water to make a milk which they vse to put into some sorts of their spoonmeate; also among their sodde wheat, peaze, beanes and pompions which maketh them haue a farre more pleasant taste.

Medlars a kind of verie good fruit, so called by vs chieflie for these respectes: first in that they are not good vntill they be rotten: then in that they open at the head as our medlars, and are about the same bignesse: otherwise in taste and colour they are farre different: for they are as red as cheries and very sweet: but whereas the cherie is sharpe sweet, they are lushious sweet.

Metaquesúnnauk, a kinde of pleasaunt fruite almost of the shape & bignes of English peares, but that they are of a perfect red colour as well within as without. They grow on a plant whose leaues are verie thicke and full of prickles as sharpe as needles. Some that haue bin in the In-

dies, where they haue seen that kind of red die of great price which is called *Cochinile* to grow, doe describe his plant right like vnto this of *Metaquesunnauk* but whether it be the true *cochinile* or a bastard or wilde kind, it cannot yet be certified; seeing that also as I heard, *Cochinile* is not of the fruite but founde on the leaues of the plant; which leaues for such matter we haue not so specially obserued.

Grapes there are of two sorts which I mentioned in the marchantable commodities.

Straberries there are as good & as great as those which we haue in our English gardens.

Mulberies, Applecrabs, Hurts or *Hurtleberies*, such as wee haue in England.

Sacquenúmmener a kinde of berries almost like vnto capres but somewhat greater which grow together in clusters vpon a plant or herb that is found in shalow waters: being boiled eight or nine hours according to their kind are very good meate and holesome, otherwise if they be eaten they will make a man for the time franticke or extremely sicke.

There is a kind of *reed* which beareth a seed almost like vnto our rie or wheat, & being boiled is good meate.

In our trauailes in some places wee founde *wilde peaze* like vnto ours in England but that they were lesse, which are also good meate.



*Of a kinde of fruite or berrie in
forme of Acornes.*

Here is a kind of berrie or acorne, of which there are fiue sorts that grow on seueral kinds of trees; the one is called *Sagatémener*, the second *Osámener*, the third *Pummuckóner*. These kind of acorns they vse to drie vpon hurdles made of reeds with fire vnderneath almost after the maner as we dry malt in Englād. When they are to be vsed they first water them vntil they be soft & then being sod they make a good victual, either to eate so simply, or els being also pounded, to make loaues or lumpes of bread. These be also the three kinds of which, I said before, the inhabitants vsed to make sweet oyle.

An other sort is called *Sapúmmener* which being boiled or parched doth eate and taste like

vnto chestnuts. They sometime also make bread of this sort.

The fifth sort is called *Mangúmmenauk*, and is the acorne of their kind of oake, the which beeing dried after the maner of the first sortes, and afterward watered they boile them, & their seruants or sometime the chiefe thēselues, either for variety or for want of bread, doe eate them with their fish or flesh.



Of Beastes.

D*Eare*, in some places there are great store : neere vnto the sea coast they are of the ordinarie bignes as ours in England, & some lesse : but further vp into the countrey where there is better feed they are greater : they differ from ours onely in this, their tailes are longer and the snags of their hornes looke backward.

Conies, Those that we haue seen & al that we can heare of are of a grey colour like vnto hares : in some places there are such plentie that

all the people of some townes make them mantles of the furre or flue of the skinnes of those they vsually take.

Saquenúckot & Maquówoc; two kindes of small beastes greater then conies which are very good meat. We neuer tooke any of them our selues, but sometime eate of such as the inhabitants had taken & brought vnto vs.

Squirels which are of a grey colour, we haue takē & eatē.

Beares which are all of black colour. The beares of this countrey are good meat; the inhabitants in time of winter do vse to take & eate manie, so also sometime did wee. They are taken commonlie in this sort. In some Ilands or places where they are, being hunted for, as soone as they haue spiall of a man they presently run awaie, & then being chased they clime and get vp the next tree they can, from whence with arrowes they are shot downe starke dead, or with those wounds that they may after easily be killed; we sometime shotte them downe with our caleeuers.

I haue the names of eight & twenty seuerall sortes of beastes which I haue heard of to be here and there dispersed in the coutrie, especially in

the maine: of which there are only twelue kinds that we haue yet discovered, & of those that be good meat we know only them before mentioned. The inhabitants somtime kil the *Lyon* & eat him: & we somtime as they came to our hands of their *Wolues* or *woluish Dogges*, which I haue not set downe for good meat, least that some woulde vnderstand my iudgement therein to be more simple than needeth, although I could alleage the difference in taste of those kindes from ours, which by some of our company haue beene experimented in both.

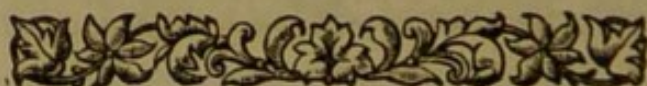


Of Foule.

F*Vrkie cockes and Turkie hennes: Stockdoudes: Partridges: Cranes: Hernes: & in winter great store of Swannes & Geese. Of al sortes of foule I haue the names in the countrie language of fourescore and sixe of which number besides those that be named, we haue taken, eaten, & haue the pictures as they were there drawne with the names*

of the inhabitaunts of seuerall strange sortes of water foule eight, and seuēteene kinds more of land foul, although wee haue seen and eaten of many more, which for want of leasure there for the purpose coulde not bee pictured: and after wee are better furnished and stored vpon further discouery, with their strange beastes, fishe, trees, plants, and hearbes, they shall bee also published.

There are also *Parats*, *Faulcons*, & *Marlin haukes*, which although with vs they bee not vsed for meate, yet for other causes I thought good to mention.



Of Fishe.

FOr foure monethes of the yeere, February, March, Aprill and May, there are plentie of *Sturgeons*: And also in the same monethes of *Herrings*, some of the ordinary bignesse as ours in England, but the most part farre greater, of eighteene, twentie inches, and some two foote in length

and better ; both these kindes of fishe in those monethes are most plentiful, and in best season, which wee founde to bee most delicate and pleasaunt meate.

There are also *Troutes* : *Porpoises* : *Rayes* : *Oldwiues* : *Mullets* : *Plaice* : and very many other sortes of excellent good fish, which we haue taken & eaten, whose names I know not but in the countrey language ; wee haue of twelue sorts more the pictures as they were drawn in the countrey with their names.

The inhabitants vse to take thē two maner of wayes, the one is by a kind of wear made of reedes which in that countrey are very strong. The other way which is more strange, is with poles made sharpe at one ende, by shooting them into the fish after the maner as Irishmen cast dartes ; either as they are rowing in their boates or els as they are wading in the shallowes for the purpose.

There are also in many places plentie of these kindes which follow.

Sea crabbes, such as we haue in England.

Oysters, some very great, and some small ; some rounde and some of a long shape : They are founde both in salt water and brackish, and

those that we had out of salt water are far better than the other as in our owne countrey.

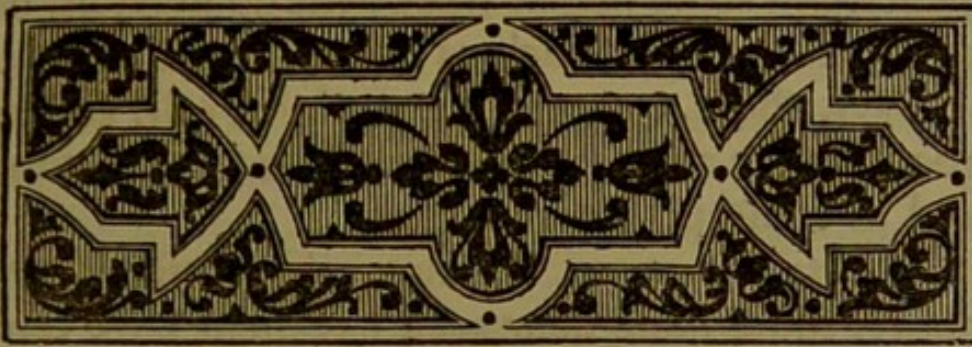
Also *Muscles*: *Scalopes*: *Periwinkles*: and *Creuises*.

Seékanauk, a kinde of crustie shell fishe which is good meate, about a foote in breadth, hauing a crustie taylor, many legges like a crab; and her eyes in her backe. They are founde in shallowes of salt waters; and sometime on the shoare.

There are many *Tortoyses* both of lande and sea kinde, their backes & bellies are shelled very thicke; their head, feete, and taile, which are in appearance, seeme ougly as though they were members of a serpent or venemous: but notwithstanding they are very good meate, as also their egges. Some haue bene founde of a yard in bredth and better.

And thus haue I made relation of all sortes of victuall that we fed vpon for the time we were in *Virginia*, as also the inhabitants themselves, as farre fourth as I knowe and can remember or that are specially worthy to bee remembered.





¶ The third and last part of such other things as is behoofull for those which shall plant and inhabit to know of; with a description of the nature and manners of the people of the countrey.

*

Of commodities for building and other necessary uses.



Hose other things which I am more to make rehear-sall of, are such as concerne building, and other mechanicall necessarie uses; as diuers sortes of trees for house & ship timber, and other uses els: Also lime, stone, and brick, least that being not

mentioned some might haue bene doubted of, or by some that are malicious reported the contrary.

Okes, there are as faire, straight, tall, and as good timber as any can be, and also great store, and in some places very great.

Walnut trees, as I haue saide before very many, some haue bene seen excellent faire timber of foure & fiue fadome, & aboue fourescore foot streight without bough.

Firre trees fit for masts of ships, some very tall & great.

Rakiock, a kind of trees so called that are sweet wood of which the inhabitans that were neere vnto vs doe commōly make their boats or Canoes of the form of trowes; only with the helpe of fire, hatchets of stones, and shels; we haue known some so great being made in that sort of one tree that they haue carried well xx. men at once, besides much baggage: the timber being great, tal, streight, soft, light, & yet tough enough I thinke (besides other vses) to be fit also for masts of ships.

Cedar, a sweet wood good for seelings, Chests, Boxes, Bedstedes, Lutes, Virginals, and many things els, as I haue also said before. Some of our company which haue wandered in some

places where I haue not bene, haue made certaine affirmation of *Cyprus* which for such and other excellent vses, is also a wood of price and no small estimation.

Maple, and also *Wich-hazle*, wherof the inhabitants vse to make their bowes.

Holly a necessary thing for the making of birdlime.

Willowes good for the making of weares and weeles to take fish after the English manner, although the inhabitants vse only reedes, which because they are so strong as also flexible, do serue for that turne very well and sufficiently.

Beech and *Ashe*, good for caske, hoopess: and if neede require, plow worke, as also for many things els.

Elme.

Sassafras trees.

Ascopo a kinde of tree very like vnto *Lawrell*, the barke is hoat in tast and spicie, it is very like to that tree which *Monardus* describeth to bee *Cassia Lignea* of the West Indies.

There are many other strange trees whose names I knowe not but in the *Virginian* language, of which I am not nowe able, neither is it so conuenient for the present to trouble you

with particular relation : seeing that for timber and other necessary vses I haue named sufficient: And of many of the rest but that they may be applied to good vse, I know no cause to doubt.

Now for Stone, Bricke and Lime, thus it is. Neere vnto the Sea coast where wee dwelt, there are no kinde of stones to bee found (except a fewe small pebbles about foure miles off) but such as haue bene brought from farther out of the maine. In some of our voiages wee haue seene diuers hard raggie stones, great pebbles, and a kinde of grey stone like vnto marble, of which the inhabitants make their hatchets to cleeu wood. Vpon inquirie wee heard that a little further vp into the Countrey were of all sortes verie many, although of Quarries they are ignorant, neither haue they vse of any store whereupon they should haue occasion to seeke any. For if euerie housholde baue one or two to cracke Nuttes, grinde shelles, whet copper, and sometimes other stones for hatchets, they haue enough : neither vse they any digging, but onely for graues about three foote deepe : and therefore no maruaile that they know neither Quarries, nor lime stones, which both may bee in places neerer than they wot of.

In the meane time vntill there bee discouerie of sufficient store in some place or other conuenient, the want of you which are and shalbe the planters therein may be as well supplied by Bricke: for the making whereof in diuers places of the countrey there is clay both excellent good, and plentie; and also by lime made of Oister shels, and of others burnt, after the maner as they vse in the Iles of Tenet and Shepy, and also in diuers other places of England: Which kinde of lime is well knowne to bee as good as any other. And of Oister shels there is plentie enough: for besides diuers other particular places where are abundance, there is one shallowe sounde along the coast, where for the space of many miles together in length, and two or three miles in breadth, the grounde is nothing els being but halfe a foote or a foote vnder water for the most part.

This much can I say further more of stones, that about 120. miles from our fort neere the water in the side of a hill was founde by a Gentleman of our company, a great veine of hard ragge stones, which I thought good to remember vnto you.



Of the nature and manners
of the people.

IT resteth I speake a word or two of the naturall inhabitants, their natures and maners, leauing large discourse thereof vntill time more conuenient hereafter: nowe onely so farre foorth, as that you may know, how that they in respect of troubling our inhabiting and planting, are not to be feared; but that they shall haue cause both to feare and loue vs, that shall inhabite with them.

They are a people clothed with loose mantles made of Deere skins, & aprons of the same rounde about their middles; all els naked; of such a difference of statures only as wee in England; hauing no edge tooles or weapons of yron or steele to offend vs withall, neither know they how to make any: those weapons y they haue,

are onlie bowes made of Witch hazle, & arrowes of reeds; flat edged truncheons also of wood about a yard long, neither haue they any thing to defēd thēselues but targets made of barks; and some armours made of stickes wickered together with thread.

Their townes are but small, & neere the sea coast but few, some containing but 10. or 12. houses: some 20. the greatest that we haue seene haue bene but of 30. houses: if they be walled it is only done with barks of trees made fast to stakes, or els with poles onely fixed vp-right and close one by another.

Their houses are made of small poles made fast at the tops in rounde forme after the maner as is vsed in many arbories in our gardens of England, in most townes couered with barkes, and in some with artificiall mattes made of long rushes; from the tops of the houses downe to the ground. The length of them is commonly double to the breadth, in some places they are but 12. and 16. yardes long, and in other some wee haue seene of foure and twentie.

In some places of the countrey one onely towne belongeth to the gouernment of a *Wiróans* or chiefe Lorde; in other some two or three, in

some sixe, eight, & more; the greatest *Wiróans* that yet we had dealing with had but eighteene townes in his gouernment, and able to make not aboue seuen or eight hundred fighting men at the most: The language of euery gouernment is different from any other, and the farther they are distant the greater is the difference.

Their maner of warres amongst themselues is either by sudden surprising one an other most cōmonly about the dawning of the day, or moone light; or els by ambushes, or some suttile deuises: Set battels are very rare, except it fall out where there are many trees, where eyther part may haue some hope of defence, after the deliuerie of euery arrow, in leaping behind some or other.

If there fall out any warres between vs & them, what their fight is likely to bee, we hauing aduantages against them so many maner of waies, as by our discipline, our strange weapons and deuises els; especially by ordinances great and small, it may be easily imagined; by the experience we haue had in some places, the turning vp of their heeles against vs in running away was their best defence.

In respect of vs they are a people poore, and

for want of skill and iudgement in the knowledge and vse of our things, doe esteeme our trifles before thinges of greater value: Notwithstanding in their proper manner considering the want of such meanes as we haue, they seeme very ingenious; For although they haue no such tooles, nor any such craftes, sciences and artes as wee; yet in those thinges they doe, they shewe excellencie of wit. And by howe much they vpon due consideration shall finde our manner of knowledges and craftes to exceede theirs in perfection, and speed for doing or execution, by so much the more is it probable that they shoulde desire our friendships & loue, and haue the greater respect for pleasing and obeying vs. Whereby may bee hoped if meanes of good gouernment bee vsed, that they may in short time be brought to ciuilitie, and the embracing of true religion.

Some religion they haue alreadie, which although it be farre from the truth, yet beyng as it is, there is hope it may bee the easier and sooner reformed.

They beleeeue that there are many Gods which they call *Montóac*, but of different sortes and degrees; one onely chiefe and great God, which

hath bene from all eternitie. Who as they affirme when hee purposed to make the worlde, made first other goddes of a principall order to bee as meanes and instruments to bee vsed in the creation and gouernment to follow; and after the Sunne, Moone, and Starres, as pettie goddes and the instruments of the other order more principall. First they say were made waters, out of which by the gods was made all diuersitie of creatures that are visible or inuisible.

For mankind they say a woman was made first, which by the woorking of one of the goddes, conceiued and brought foorth children: And in such sort they say they had their beginning.

But how manie yeeres or ages haue passed since, they say they can make no relatiō, hauing no letters nor other such meanes as we to keepe recordes of the particularities of times past, but onelie tradition from father to sonne.

They thinke that all the gods are of humane shape, & therefore they represent them by images in the formes of men, which they call *Kewasówok* one alone is called *Kewás*; Them they place in houses appropriate or temples which they call *Machicómuck*; Where they woorship, praie, sing, and make manie times offerings vnto

them. In some *Machicómuck* we haue seene but on *Kewas*, in some two, and in other some three; The common sort thinke them to be also gods.

They beleeeue also the immortalitie of the soule, that after this life as soone as the soule is departed from the bodie according to the wor-kes it hath done, it is eyther carried to heauen the habitacle of gods, there to enioy perpetuall blisse and happinesse, or els to a great pitte or hole, which they thinke to bee in the furthest partes of their part of the worlde towarde the sunne set, there to burne continually: the place they call *Popogusso*.

For the confirmation of this opinion, they tolde mee two stories of two men that had been lately dead and reuiued againe, the one happened but few yeres before our comming into the countrey of a wicked man which hauing beene dead and buried, the next day the earth of the graue beeing seene to moue, was taken vp againe; Who made declaration where his soule had beene, that is to saie very neere entring into *Popogusso*, had not one of the gods saued him & gaue him leaue to returne againe, and teach his friends what they should doe to auoid that terrible place of torment.

The other happened in the same yeere wee were there, but in a towne that was threescore miles from vs, and it was tolde mee for straunge newes that one beeing dead, buried and taken vp againe as the first, shewed that although his bodie had lien dead in the graue, yet his soule was aliue, and had trauailed farre in a long broade waie, on both sides whereof grewe most delicate and pleasaunt trees, bearing more rare and excellent fruites then euer hee had seene before or was able to expresse, and at length came to most braue and faire houses, neere which hee met his father, that had beene dead before, who gaue him great charge to goe backe againe and shew his friendes what good they were to doe to enioy the pleasures of that place, which when he had done he should after come againe.

What subtilty soeuer be in the *Wiroances* and Priestes, this opinion worketh so much in manie of the common and simple sort of people that it maketh them haue great respect to their Gouvernours, and also great care what they do, to auoid torment after death, and to enioy blisse; although notwithstanding there is punishment ordained for malefactours, as stealers, whoremoongers, and other sortes of wicked do-

ers; some punished with death, some with forfeitures, some with beating, according to the greatnes of the factes.

And this is the summe of their religiō, which I learned by hauing special familiarity with some of their priestes. Wherein they were not so sure grounded, nor gaue such credite to their traditions and stories but through conuersing with vs they were brought into great doubts of their owne, and no small admiration of ours, with earnest desire in many, to learne more than we had meanes for want of perfect vtterance in their language to expresse.

Most thinges they sawe with vs, as Mathematicall instruments, sea compasses, the vertue of the loadstone in drawing yron, a perspectiue glasse whereby was shewed manie strange sightes, burning glasses, wilde-fire woorkes, gunnes, bookes, writing and reading, spring clocks that seeme to goe of themselues, and manie other thinges that wee had, were so straunge vnto them, and so farre exceeded their capacities to comprehend the reason and meanes how they should be made and done, that they thought they were rather the works of gods then of men, or at the leastwise they had bin giuen and taught

vs of the gods. Which made manie of them to haue such opinion of vs, as that if they knew not the trueth of god and religion already, it was rather to be had from vs, whom God so specially loued then from a people that were so simple, as they found themselues to be in comparison of vs. Whereupon greater credite was giuen vnto that we spake of concerning such matters.

Manie times and in euery towne where I came, according as I was able, I made declaration of the contentes of the Bible; that therein was set foorth the true and onelie G O D, and his mightie woorkes, that therein was containd the true doctrine of saluation through Christ, with manie particularities of Miracles and chiefe poyntes of religion, as I was able then to vtter, and thought fitte for the time. And although I told them the booke materially & of it self was not of anie such vertue, as I thought they did conceiue, but onely the doctrine therein contained; yet would many be glad to touch it, to embrace it, to kisse it, to hold it to their brests and heades, and stroke ouer all their bodie with it; to shewe their hungrie desire of that knowledge which was spoken of.

The *Wiroans* with whom we dwelt called *Wingina*, and many of his people would be glad many times to be with vs at our praiers, and many times call vpon vs both in his owne towne, as also in others whither he sometimes accompanied vs, to pray and sing Psalmes; hoping thereby to bee partaker of the same effectes which wee by that meanes also expected.

Twise this *Wiroans* was so grieuously sicke that he was like to die, and as hee laie languishing, doubting of anie helpe by his owne priestes, and thinking he was in such daunger for offending vs and thereby our god, sent for some of vs to praie and bee a meanes to our God that it would please him either that he might liue or after death dwell with him in blisse, so likewise were the requestes of manie others in the like case.

On a time also when their corne began to wither by reason of a drouth which happened extraordinarily, fearing that it had come to passe by reason that in some thing they had displeased vs, many woulde come to vs & desire vs to praie to our God of England, that he would preserue their corne, promising that when it was ripe we also should be partakers of the fruite.

There could at no time happen any strange sicknesse, losses, hurtes, or any other crosse vnto them, but that they would impute to vs the cause or meanes therof for offending or not pleasing vs.

One other rare and strange accident, leauing others, will I mention before I ende, which mooued the whole countrey that either knew or hearde of vs, to haue vs in wonderfull admiration.

There was no towne where we had any subtile deuise practised against vs, we leauing it vnpunished or not reuenged (because wee sought by all meanes possible to win them by gentlesse) but that within a few dayes after our departure from euerie such towne, the people began to die very fast, and many in short space; in some townes about twentie, in some fourtie, in some sixtie, & in one sixe score, which in trueth was verie manie in respect of their numbers. This happened in no place that wee coulde learne but where wee had bene, where they vsed some practise against vs, and after such time; The disease also so strange, that they neither knew what it was, nor how to cure it; the like by report of the oldest men in the countrey neuer

happened before, time out of minde. A thing specially obserued by vs as also by the naturall inhabitants themselues.

Insomuch that when some of the inhabitantes which were our friends & especially the *Wiroans* *Wingina* had obserued such effects in foure or fīue towns to follow their wicked practises, they were perswaded that it was the worke of our God through our meanes, and that wee by him might kil and slaie whom wee would without weapons and not come neere them.

And thereupon when it had happened that they had vnderstanding that any of their enemies had abused vs in our iourneyes, hearing that wee had wrought no reuenge with our weapons, & fearing vpon some cause the matter should so rest: did come and intreate vs that we woulde bee a meanes to our God that they as others that had dealt ill with vs might in like sort die; alleaging howe much it would be for our credite and profite, as also theirs; and hoping furthermore that we would do so much at their requests in respect of the friendship we professe them.

Whose entreaties although wee shewed that they were vngodlie, affirming that our God

would not subiect him selfe to anie such praier and requestes of men : that in deede all thinges haue beene and were to be done according to his good pleasure as he had ordained : and that we to shew our selues his true seruants ought rather to make petition for the contrarie, that they with them might liue together with vs, bee made partakers of his truth & serue him in righteousnes ; but notwithstanding in such sort, that wee referre that as all other thinges, to bee done according to his diuine will & pleasure, and as by his wisdom he had ordained to be best.

Yet because the effect fell out so sodainly and shortly after according to their desires, they thought neuerthelesse it came to passe by our meanes, and that we in vsing such speeches vnto them did but dissemble the matter, and therefore came vnto vs to giue vs thankes in their manner that although wee satisfied them not in promise, yet in deedes and effect we had fulfilled their desires.

This maruelous accident in all the countrie wrought so strange opinions of vs, that some people could not tel whether to think vs gods or men, and the rather because that all the space

of their sicknesse, there was no man of ours knowne to die, or that was specially sicke: they noted also that we had no women amongst vs, neither that we did care for any of theirs.

Some therefore were of opinion that wee were not borne of women, and therefore not mortall, but that wee were men of an old generation many yeeres past then risen againe to immortalitie.

Some woulde likewise seeme to prophesie that there were more of our generation yet to come, to kill theirs and take their places, as some thought the purpose was by that which was already done.

Those that were immediatly to come after vs they imagined to be in the aire, yet inuisible & without bodies, & that they by our intreaty & for the loue of vs did make the people to die in that sort as they did by shooting inuisible bullets into them.

To confirme this opinion their phisitions to excuse their ignorance in curing the disease, would not be ashamed to say, but earnestly make the simple people beleue, that the strings of blood that they sucked out of the sicke bodies, were the strings wherewithall the inuisible bullets were tied and cast.

Some also thought that we shot them our selues out of our pieces from the place where we dwelt, and killed the people in any such towne that had offended vs as we listed, how farre distant from vs soeuer it were.

And other some saide that it was the speciall woorke of God for our sakes, as wee our selues haue cause in some sorte to thinke no lesse, whatsoeuer some doe or maie imagine to the contrarie, specially some Astrologers knowing of the Eclipse of the Sunne which wee saw the same yeere before in our voyage thytherward, which vnto them appeared very terrible. And also of a Comet which beganne to appeare but a few daies before the beginning of the said sicknesse. But to conclude them from being the speciall causes of so speciall an accident, there are farther reasons then I thinke fit at this present to bee alleadged.

These their opinions I haue set downe the more at large that it may appeare vnto you that there is good hope they may be brought through discreet dealing and gouernement to the imbracing of the trueth, and consequently to honour, obey, feare and loue vs.

And although some of our companie towardes

the ende of the yeare, shewed themselues too fierce, in slaying some of the people, in some towns, vpon causes that on our part, might easily enough haue been borne withall: yet notwithstanding because it was on their part iustly deserued, the alteration of their opinions generally & for the most part concerning vs is the lesse to bee doubted. And whatsoeuer els they may be, by carefulnesse of our selues neede nothing at all to be feared.

The best neuerthesse in this as in all actions besides is to be endeouored and hoped, & of the worst that may happen notice to bee taken with consideration, and as much as may be eschewed.



The Conclusion.

Now I haue as I hope made relation not of so fewe and smal things but that the countrey of men that are indifferent & wel disposed maie be sufficiently liked: If there were no more knowen then

I haue mentioned, which doubtlesse and in great reason is nothing to that which remaineth to bee discovered, neither the soile, nor commodities. As we haue reason so to gather by the differēce we found in our trauails; for although all which I haue before spokē of, haue bin discovered & experimented not far frō the sea coast where was our abode & most of our trauailing: yet somtimes as we made our iourneies farther into the maine and countrey; we found the soyle to bee fatter; the trees greater and to growe thinner; the grounde more firme and deeper mould; more and larger champions; finer grasse and as good as euer we saw any in England; in some places rockie and farre more high and hillie ground; more plentie of their fruites; more abundance of beastes; the more inhabited with people, and of greater pollicie & larger dominions, with greater townes and houses.

Why may wee not then looke for in good hope from the inner parts of more and greater plentie, as well of other things, as of those which wee haue alreadie discovered? Vnto the Spaniards happened the like in discovering the maine of the West Indies. The maine also of this countrey of *Virginia*, extending some wayes so

many hundreds of leagues, as otherwise then by the relation of the inhabitants wee haue most certaine knowledge of, where yet no Christian Prince hath any possession or dealing, cannot but yeeld many kinds of excellent commodities, which we in our discoverie haue not yet seene.

What hope there is els to be gathered of the nature of the climate, being answerable to the Iland of *Iapan*, the land of *China*, *Persia*, *Iury*, the Ilandes of *Cyprus* and *Candy*, the South parts of *Greece*, *Italy*, and *Spaine*, and of many other notable and famous countreis, because I meane not to be tedious, I leaue to your owne consideration.

Whereby also the excellent temperature of the ayre there at all seasons, much warmer then in England, and neuer so violently hot, as sometimes is vnder & between the Tropikes, or nere them; cannot bee vnknowne vnto you without farther relation.

For the holsomnesse thereof I neede to say but thus much: that for all the want of prouision, as first of English victuall; excepting for twentie daies, wee liued only by drinking water and by the victuall of the countrey, of which some sorts were very straunge vnto vs, and

might haue bene thought to haue altered our temperatures in such sort as to haue brought vs into some greeuous and dangerous diseases: secondly the want of English meanes, for the taking of beastes, fishe, and foule, which by the helpe only of the inhabitants and their meanes, coulde not bee so suddenly and easily prouided for vs, nor in so great numbers & quantities, nor of that choise as otherwise might haue bene to our better satisfaction and contentment. Some want also wee had of clothes. Furthermore, in all our trauailes which were most speciall and often in the time of winter, our lodging was in the open aire vpon the grounde. And yet I say for all this, there were but foure of our whole company (being one hundred and eight) that died all the yeere and that but at the latter ende thereof and vpon none of the aforesaide causes. For all foure especially three were feeble, weake, and sickly persons before euer they came thither, and those that knewe them much marueyled that they liued so long beeing in that case, or had aduentured to trauaile.

Seeing therefore the ayre there is so temperate and holsome, the soyle so fertile and yeelding such commodities as I haue before mentioned,

the voyage also thither to and fro beeing sufficiently experimented, to bee perfourmed thrise a yeere with ease and at any season thereof: And the dealing of *Sir Water Raleigh* so liberall in large giuing and graunting lande there, as is alreadie knowen, with many helpes and furtherances els: (The least that hee hath graunted hath beene fiue hundred acres to a man onely for the aduventure of his person): I hope there remaine no cause wherby the action should be misliked.

If that those which shall thither trauaile to inhabite and plant bee but reasonably prouided for the first yere as those are which were transported the last, and beeing there doe vse but that diligence and care as is requisite, and as they may with ease: There is no doubt but for the time following they may haue victuals that is excellent good and plentie enough; some more Englishe sortes of cattaile also hereafter, as some haue bene before, and are there yet remaining, may and shall bee God willing thither transported: So likewise our kinde of fruites, rootes, and hearbes may bee there planted and sowed, as some haue bene alreadie, and proue wel: And in short time also they may raise of those sortes

of commodities which I haue spoken of as shall both enrich them selues, as also others that shall deale with them.

And this is all the fruites of our labours, that I haue thought necessary to aduertise you of at this present: what els concerneth the nature and manners of the inhabitants of *Virginia*: The number with the particularities of the voyages thither made; and of the actions of such that haue bene by *Sir Water Raleigh* therein and there imployed, many worthy to bee remembred; as of the first discouerers of the Countrey: of our Generall for the time *Sir Richard Greinuile*; and after his departure, of our Gouvernour there *Master Rafe Lane*; with diuers other directed and imployed vnder theyr gouernement: Of the Captaynes and Masters of the voyages made since for transportation; of the Gouvernour and assistants of those alredie transported, as of many persons, accidents, and thinges els, I haue ready in a discourse by it self in maner of a Chronicle according to the course of times, and when time shall bee thought conuenient shall be also published.

Thus referring my relation to your fauourable constructions, expecting good successe of

the action, from him which is to be acknowledged the authour and gouernour not only of this but of all things els, I take my leaue of you, this moneth of
February. 1588.

FINIS.

Faults escaped

B. 4. pag. 1. lin. 10. for, Tangomóckomíng: reade, Tangomóckonomindge. B. 4. pag. 2. lin. 10. for, also be: reade, also may be.

C. 4. pag. 2. lin. 21. for, god in taste: reade, good in taste.

The rest if any be the discreete Reader may easily amend.





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M D CCC L XXVII



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- Florida, character of, ix, x
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of 86, besides the seven mentioned,
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- Geese, great store in winter, 41
- Gilbert, Dr Wm of the magnet, 1540-1603, friend of Hariot, xiv
- God, the one only chiefe and great, which hath bene from eternitie ; they call him Kewás, 54
- Gods of different sortes & degrees, 53 ; had a hand in the creation, 54 ; all of human shape which they call Kewasówok, 54
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- Grasse, farther into the maine as good as ever we saw any in England, 66
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- Hariot, Thomas, 1560-1621, born and educated at Oxford, sponsor for Virginia and one of England's overlooked worthies, vii ; his blameless life ; his 'Briefe and true Report' ; the abstract of his 'Chronicle' used by Hakluyt and Strachey, now lost, viii ; the corner stone of 'Ould Virginia' history, ix ; illustrated by DeBry from White's pictures, ix ; not entered at Stationers' Hall, x ; privately printed, only seven copies known, x, xi ; A. B. Oxon, 1579 ; attached to Raleigh's household ; surveyor, factor, geographer, historian, and business man of Raleigh's 'First Colonie,' xi ; Raleigh's Fidus Achates ; his 'Chronicle of Virginia' ; Raleigh's guide, philosopher, & friend, & agent, xii ; occupied 'Pinford' ; Raleigh's geographer and literary adviser ; intimate with Hakluyt, De Bry, Hues, Warner, Aylesbury, Lower, Protheroe, White, Sydney, Raleigh, & Percy, Keymis, Hood, Molineux, Gilbert, & Chapman, xiii-xiv ; aided Raleigh in his 'History of the World,' xiv ; inventor of the telescope, and made astronomical discoveries ; set up the famous sun-dial of London Tower ; companion and assistant of both Raleigh and Percy, 'traitors' in the Tower ; house and pension of £80 given him by Percy

at Sion, xv; his last night with Raleigh in the Gate House Gaol, xvi; his coming up to town to die of cancer on the lip; his will; his death at Buckner's, 2d July, 1621; his four executors; his burial in St Christopher's; his monument erected by Percy; his epitaph destroyed in the fire of 1666; the 'garden' of the Bank; the Bank of England built round his bones, xvi; a neglected worthy; now the pride of England and glory of America, xvii; vindicates the 'First Colonie' from those 'which had more tongue then was needful or requisite,' 9; describes the commodities of Virginia in three classes, 10, 11; has a list of 28 sortes of beastes found in Virginia, but only 12 seen, 40

Hariot's Chronicle, or discourse, of Virginia, which concerneth the nature and manner of the inhabitants; the number and particularities of the voyagies thither; the actions of those therein employed by Raleigh; the first discovery [exploration] of the country; of Sir Richard Grenville; of Mr Rafe Lane, our governor; of the captains of the voyages made since; of Gov. White and assistants; and of persons, accidents, & thinges els; I have ready in a discourse in manner of a Chronicle, and when convenient shall be published, 70; seen of Hakluyt & of Strachey, but now among 'things lost upon earth,' viii

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 Kewás, they call their one and only God, 54
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- Marmalade may be made a commodity of Virginia, 21
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- Mary, queen, 1662-1694, xvi
- Mathematicall instruments, sea compasses, the loadstone, perspective glasses, burning glasses, wilde-fire woorkes, gunnes, bookes, writing and reading, spring clocks, etc. esteemed the workes of gods rather than men or had been given and taught us as of the gods, 57
- Mattes, dyes for colouring, 20
- Mattockes or hoes, long handles, 27
- Mayze, pagatowr, Guinney wheate or Turkie wheate, 23; white, red, yellow and blew, 24; good for bread; with hops good for beere; of marvellous increase; three sortes; how planted, 24
- Medlars, verie good fruit, not good untill rotten, red as cherries but lushious sweet, 36
- Melden, Dutch name for an herbe, a kinde of orage, the seede used for brothe or pottage of good taste, the ashes used as a seasoning as they have no salt, 26
- Mellions, very good, 25
- Menendez Avilés, Don Pedro de, 1519-74, butcher of the French Huguenots in Florida, 1565, x
- Metaquesúnnauk, pleasaunt fruite, the shape and bigness of English peares, perfect red within as without, leaves thick with prickles, 36; some think it cochinile, 37
- Mollineux, the geographer and globe maker, friend of Hariot, xiv
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- Montóac, their many gods, 53
- Mulberry trees to be planted, 13 such as the English, 37
- Mullets, excellent good fish, 43
- Muscles, scallops, crevices, etc. 44
- Naturall inhabitants of Virginia, 50
- Nitrum, earth yeelding, 14
- North Carolina, Wingandacoa or Raleigh's Virginia, viii
- Northumberland, the 9th Earl of, see Percy
- Oade, a dye much used in England may be planted in Virginia, 20; grows in the Asores, 21
- Oates, barlie, and peaze, 30
- Ofcome of corne, see Croppe, 28
- Oldwives, a Virginia fish, 43
- Okes, faire, straight, tall, good timber and great store of it, 46
- Okeepenauk, round rootes, some of the bignes of a man's head; to be eaten out of the ground; will neither roste nor seeth; taste not so good as openauk (potatoes), but for want of bread with fish or flesh doe as well as the household bread made of rie heere in England, 32
- Okindgier, or beanes, 24
- Openauk, rootes of round forme, of the bignes of walnuts, some far greater, growing many together in ropes; being boiled or sodden are very good meate (potatoes), 32
- Opinions of the inhabitants as set down by Hariot about death, matters of faith & belief, sickness, religion and future state, 58-64
- Opinions of us by the natives altered towards the end, 65
- Orenges, lemmons & quinses may be grown in Virginia, 21
- Originator of English enterprise, v
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- Otters in great store for fures, 16
- 'Ould Virginea,' now North Carolina, viii
- Outis, Secretary to Hercules Club, xvii

- Oyle from two sortes of walnuts, 16
- Oyle from the fatte beares hath many speciall uses, 16
- Oysters, great, small, rounde and long, in salt and fresh water, 43
- Oyster shells for lime abundant, 49
- Pagatowr, a grain (maize, Indian corn), Englishmen call it Guinney wheate or Turkie wheate, 23
- Parats, with us not used for food, 42
- Partridges, there are great store, 41
- Pearle, some found, others gathered 5000 from among the savages, some verie fayre and rare; chain intended for the queen lost, 19
- Peaze, far better than our English; great variety, manner of cooking, 25; English peaze grow well, 30; wild peaze, but lesse than ours in England, are good meate, 38
- People not to be feared; clothed in loose mantles of deere skinnes and aprons of same about their middles, all els naked, 50; died fast after we left their towns, a strange accident, 60; poore and esteem our trifles before things of value, 52; considering their meanes are very ingenious; no such tooles, craftes, sciences and artes as we, yet they show excellence of wit, 53
- Percy, Henry, 9th Earl of Northumberland, 1563-1632, 'traitor' in the Tower, friend and patron of Hariot, xiii, xiv; built a house for Hariot at Sion, and gave him an annual pension of £80, xv
- Periwinkles found in Virginia, 44
- Perspective truncks invented by Hariot, 1610 [telescopes], xv
- Physicians and their ignorance, 63
- Pictures of men, beastes, birds, fishe & fruites in Virginia, by Hariot & White, 41
- Pipes for smoking tobacco, 30
- Pitch in great store in Virginia, 15
- Plaice, excellent good fish, 43
- Planta solis, seeds for broth, 26
- Planters provided for first yere with diligence may produce victuall for the time following, excellent good and pleasant enough, 69
- Plow not, neither do they digge as in England, 27
- Pompions [pumpkins], 25
- Ponce de Léon, Juan, died 1521, x
- Popogusso [hell], situated towarde the sunneset, there to burne continually, 55
- Population thicker back from the sea than along the coast, 66
- Porpoises in Virginia, 43
- Potato, v; see Openauk, 32
- Priestes or Wiroances, 56
- Prophecies that more of our generation to come to kill them and take their places, 63
- Protheroe, Sir John, astronomer, disciple, and friend of Hariot, xiii
- Pummuckóner, an acorn dried for food, 38
- Punishments for malefactours, stealers, whoremoongers, etc. 56; some punished by death, some with forfeiture or beatings, 57
- Quarries not known, 48
- Quinses may be grown in Va, 21
- Ragge stones, hard, great veine 120 miles from the fort, 49
- Rakíock, trees for canoes a sweet wood, the timber great, straight, tal, soft, light, and yet tough enough I think for masts, 46
- Raleigh's assignment, x
- Raleigh, Sir Walter, 1552-1618, originator of Eng. enterprise, v; sponsor for Virginia; light of Elizabethan court, vii; his Tusculanum, xii; aided by Hariot in his

- 'History of the World,' xiv; his arms and motto, 2; his first undertaking the 'discovery' of Virginia and voyages thither in 1584-87 at his own charge, 5; Virginia slandered, he perseveres in his enterprise, 7; his dealings liberal in large granting lande there, with helpe and furtherances els; the least hee hath graunted hath beene 500 acres to a man onely for the adventure of his person, 69
- Rayes, fish in Virginia, 43
- Records, they have no letters or means to keep them, but only tradition, 54
- Reed, a kind bearing seed, almost like rye or wheat, good boiled, 37
- Relations of things told, nothing to what remaineth, 66
- Religion, some they have already, yet hope it may be reformed, 53
- Religious instructions to the natives, and the effects, 62
- Ribault, Capt. Jean, c 1520-1565, pioneer of the Huguenot Colonies to Florida in 1562, x
- River of May to Chesapeake, ix
- Rootes for food, 32
- Rozen in great store, 15
- Rushes, dyes for colouring, 20
- Rye, had none to plant, 30
- Sacquenúmmener, berries almost like capers, but greater grow in clusters on a plant in shallow water; boiled 8 or 9 hours are good meate and holesome, 37
- Sagatémener, a kind of acorne, good victuall, 38
- St Christopher, church of, contained Hariot's monument and epitaph, xvi, xvii
- Salt, they knowe it not, 26
- Sapúmmener, a sort of acorne, parched, eate like chestnuts, 38
- Saquenúckot are good meate, 40
- Sassafras, or Winauk, for cure of many diseases, of more uses than guaiacum or lignum vitæ, 15
- Sassafras trees, 47
- Scalopes found in Virginia, 44
- Sea crabbes, plentie, 43
- Seékanauk, a shell fish, good meate, crustie tayle, many legges like a crab, eyes in his backe, 44
- Ship timber of divers sortes, 45
- Sherburne, Raleigh's Tusculanum, xii
- Shoemake, for blacke dyes, 20
- Sickness, losse, etc. the causes thereof imputed to offending us, 60
- Sidney, Sir Robert, one of Hariot's four executors, xvi
- Sidneys, the, friends of Hariot, xiii
- Silke of grasse, 12; worme silke, 13
- Silkewormes, 13
- Silver, or white graynes of mettall deemed silver, 18
- Silver, weight of a testrone in the eares of a Wiroans, 18
- Sion on Thames, Hariot's residence at, xv
- Smoking, see Tobacco, 30
- Sowing or setting their corne, 27
- Soyle fatter far from the sea, 66; fertile and yeelding, 68
- Spaniards in the West Indies, 66
- Squirrels, gray, taken & eaten, 40
- Steele, edge tools of, none, 50
- Stockdoves, there are great store, 41
- Stories of two men dead & recovered, 55, 56
- Stone for building purposes, 45
- Stone, no kinde near the sea; very many sortes up in the country: hard raggie stones seen; great pebbles; greystone like marble for hatchets to cleave wood; to crack nuttes, to grinde shels, whet copper, and for hatchets they have

- enough: they know no quarries nor lime stones, but both may be neere, 48
- Strachey, Wm, secretary of Virginia colony, used Hariot's 'Chronicle,' viii
- Strawberries as good and great as in our English gardens, 37
- Sturgeons, plentie, Feb.-May, 42
- Subtle devices practiced against us in any town always punished or revenged, 60
- Suckets may be a commoditie of Virginia, 21
- Sugar may become a commoditie, 21
- Sugar canes carried to Virginia, but could not prove them, 21
- Sun, moon & stars as pettie gods, 54
- Sunflowers, *planta solis*, in forme of a marigolde, about sixe foote high, floure of a spanne, seeds make bread and broth, 26
- Swannes, in winter great store, 41
- Sweete gummess and apothecary drugges of divers kinds, 19
- Tangomóckomindge, the barke used for red dye, 20
- Targets of bark for defence, 51
- Tarre is there in great store, 15
- Telescope invented by Hariot, xv
- Temperature of the ayre excellent and warmer than England, never so hot as between the tropics, 67
- Terra Florida of Ponce de Leon, x
- Terra Sigillata, or Wapeih, for cure of sores or woundes, etc. 14
- Things behoofull for those which shall plant and inhabit to know, 45
- Timber for houses and ships, 45
- Time, they have no reckoning of years or ages, and no records, only tradition, 54
- Tobacco, an herbe sowed apart, hath diverse names; the inhabitants of Virginia call it *Uppowoc*; smoked through pipes of clay; it purgeth superfluous fleame; openeth pores, 30; is of precious estimation; they offer it to the gods in sacrifice, thanksgiving and ceremonies, 31; we ourselves used to suck it after their manner (smoking), 31; the wonderful virtues thereof; the use of it in England by manie of late, by men and women of great calling as well as by physicians, 32
- Tobacco plant, a view of, iv; the use of it increasing, v
- Tools, none of iron or steele, 50
- Tortoyses, land & sea, good meate, backs and bellies shelled, and some a yard in bredth, 44
- Tower, Raleigh and Percy confined in as 'traitors,' xiv
- Townes, small, ten, 20, or at most 30 houses; if walled only done with stakes or poles set upright & close, 51; in some places are one towne to a Wiróans, others have two, three to 8 or more; the greatest Wiróans we saw had 18 townes to his government with 7 or 800 fighting men, 51-52
- Trees for houses, 45; many strange, whose names I know not but in the Virginia language, 47; greater and grow thinner back from the sea, 66
- Troutes, excellent good fish, 43
- Truncheons, flat edged weapons of wood about a yard long for defence, 51
- Tsinaw, a root much like China-root, but is not the same, grow manie together, a briar stalke but leafe unlike, supported by trees, chopt, stamp, and strained maketh bread, boiled is very good spoonmeate gelly, 33

- Turkie cockes & turkie hennes, 41
 Turkie wheate or mayze, 23
 Turpentine in great store, 15
 Tusculanum, Sir Walter's, xii
 Uppówoc, an herbe sowed apart by itself, called Tobacco by the Spaniards in the West Indies, 30
 Verazzano, Jean de, 1492(?) - 1527, coasted in 1524 from Chicora to Newfoundland, x
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 Virginia, extending some wayes many hundred leagues, no Christian prince hath; must yeeld many kinds of excellent commodities, 67
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 Walnut trees, many, excellent timber of 4 & 5 fadome, and 80 foote streight without bough, 46
 Wants, English victuall, English means for taking beastes, fishe & foule, clothes, lodging, etc. 67-68
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