A prognostication everlastinge of righte goode effecte, fruictfully augmented by the auctour, contayning plain, briefe, pleasaunte, chosen rules to iudge the weather by the sunne, moone, starres, comets, rainebow, thunder, cloudes, with other extraordinarye tokens, not omitting the aspects of planets, with a briefe iudgement for ever, of plenty, lacke, sickenes, dearth, warres etc., opening also many naturall causes worthy to bee knowen ... / corrected and augmented by Thomas Digges his sonne.

Contributors

Digges, Leonard, -approximately 1559 Digges, Thomas, approximately 1546-1595

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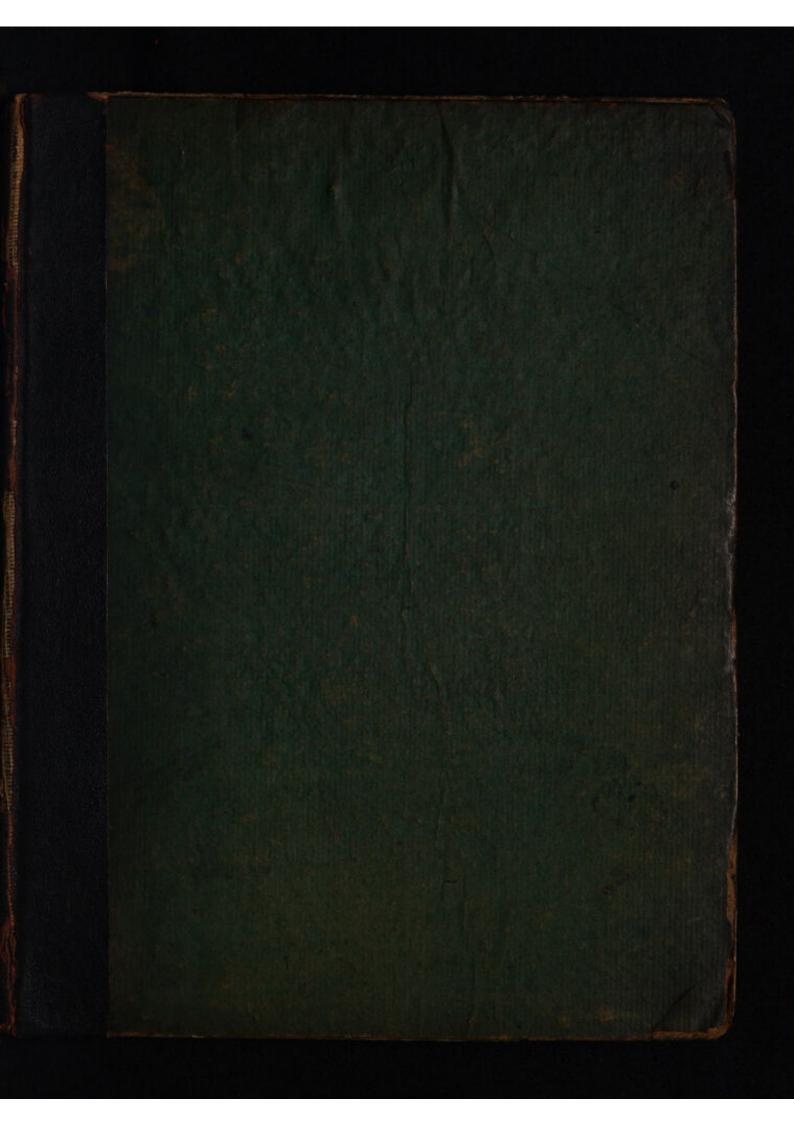
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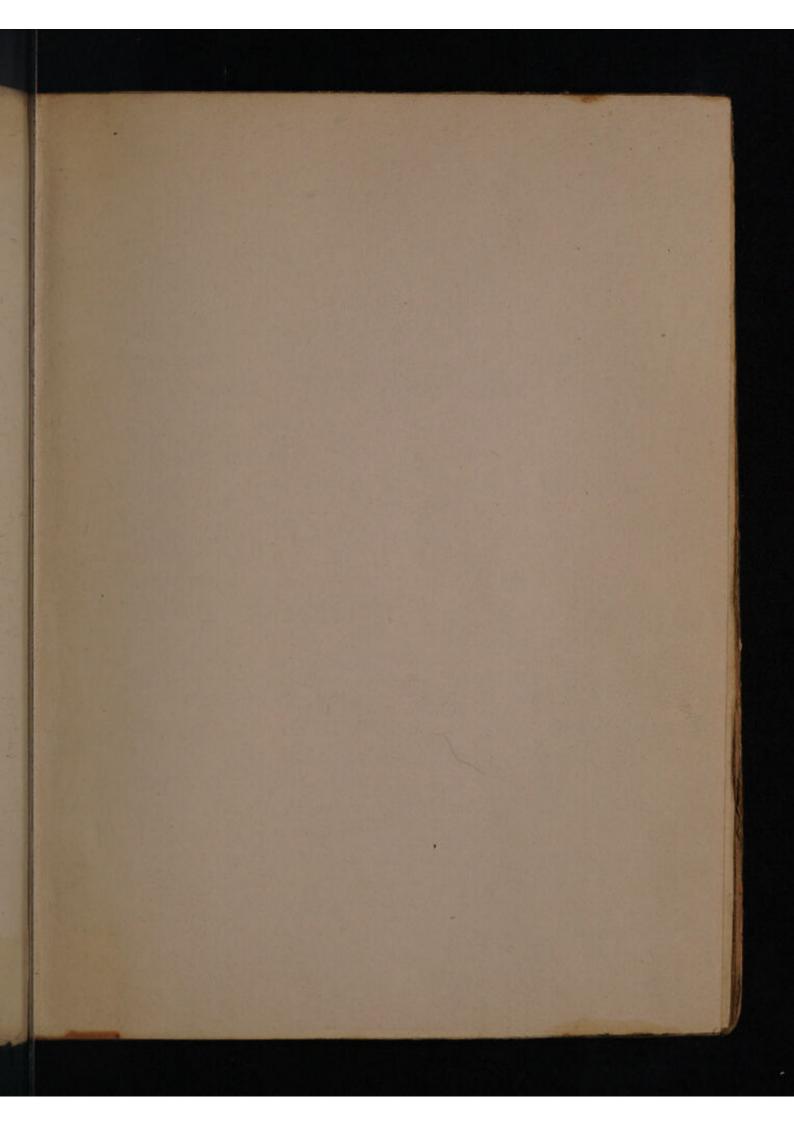
THENERAL PROGNOSTICATION - DIGGES 1578

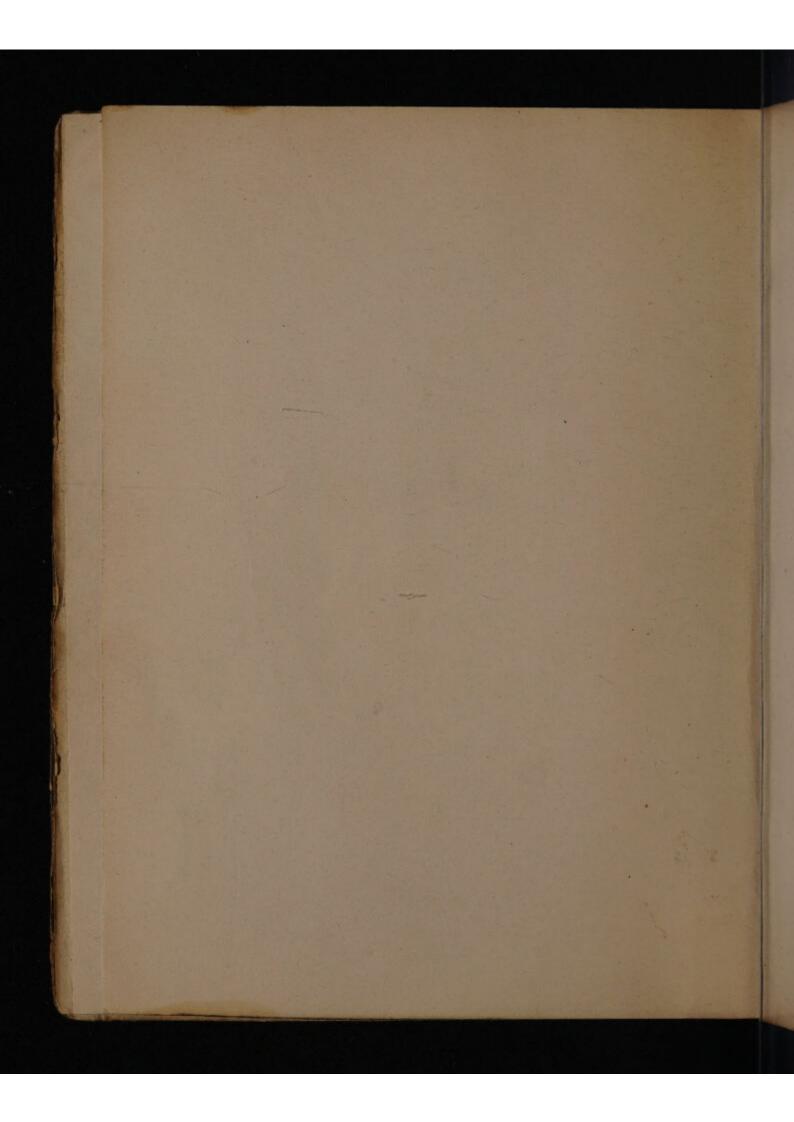




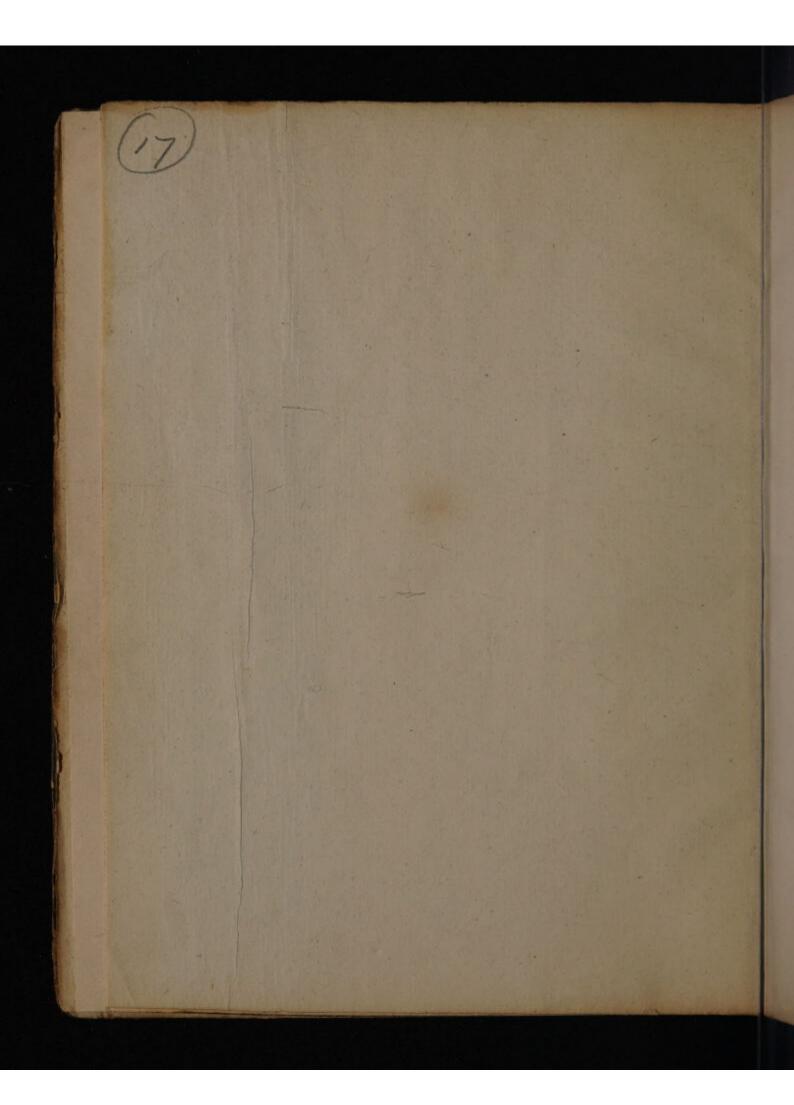


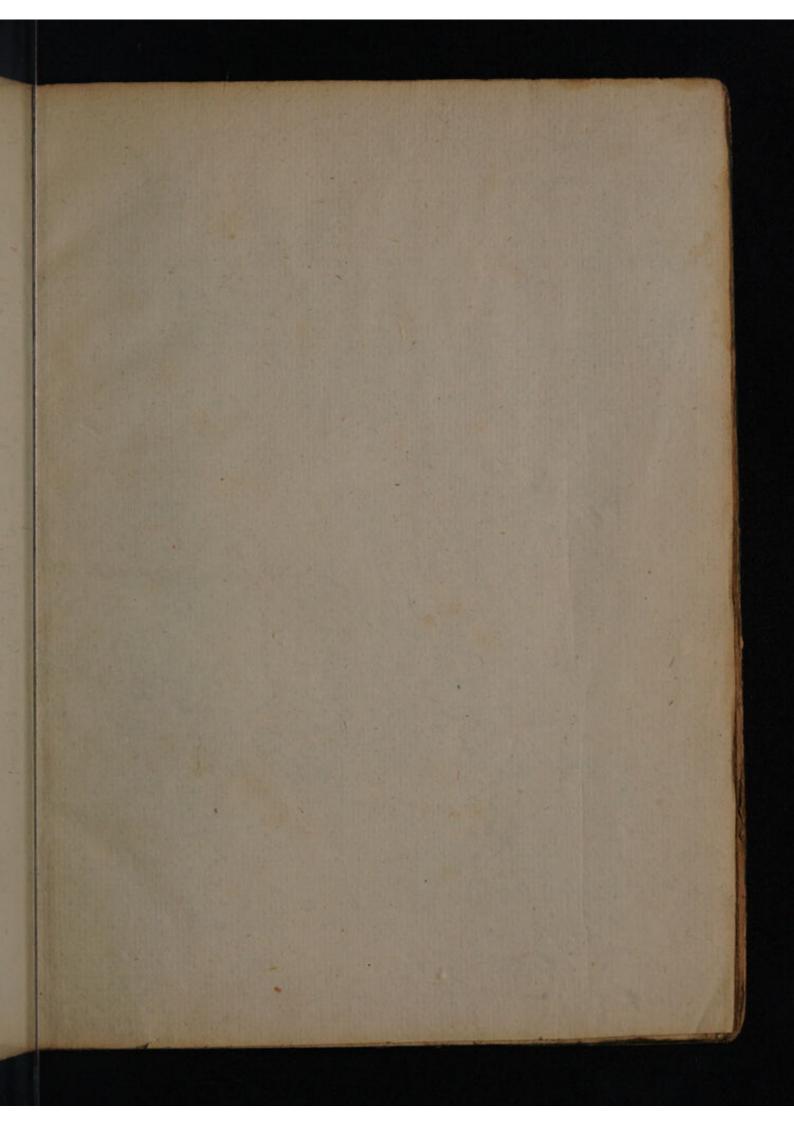
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ntefe, pleasaunts, chosen rules to subge the ADeather of the Sounce, Elegant, Starres, Comets, Ramebow, Thunder, Cloudes, with other extraordinarye tokens, not omitting the Alpects of Planets, with a briefe indigement for ever, of Plenty, Lacke, Sickenes, Deatth, V Varies &c. opening also many naturall causes everty to be knowen.

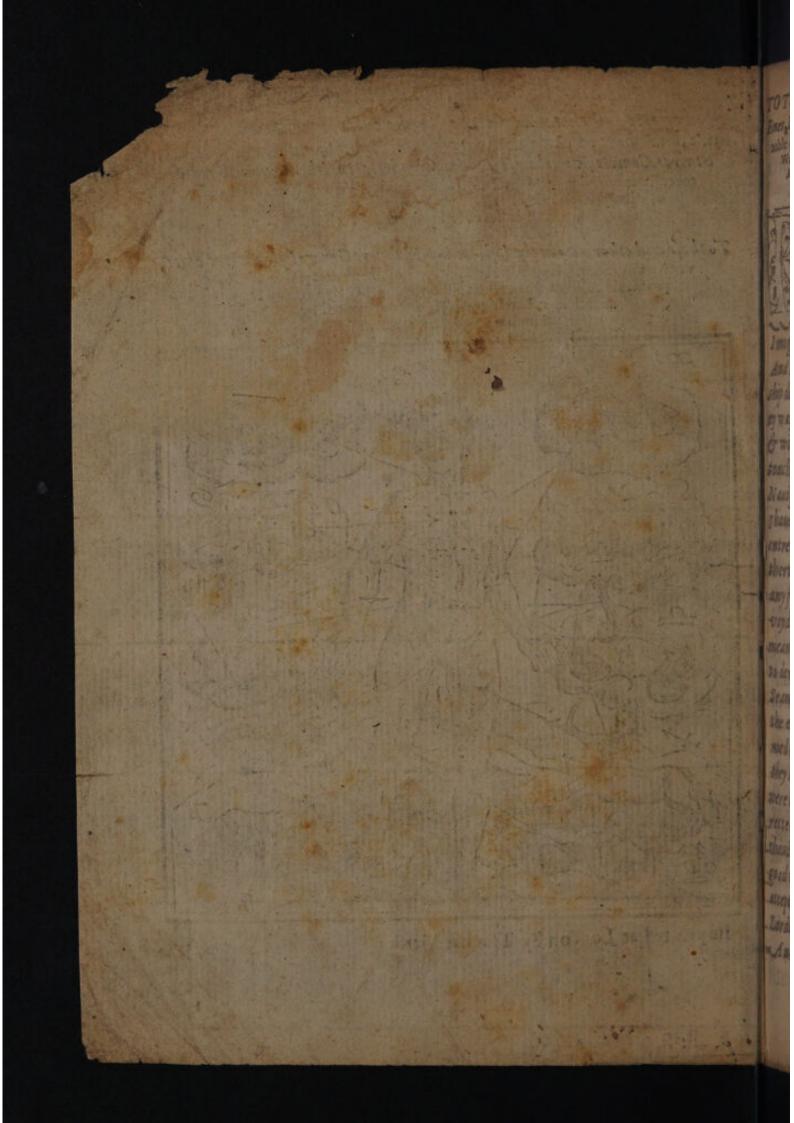
To these and other now at the last, are is med divers General pleasait Tables, with many compendious Rules, easye to be had in memory, manifold wayes profitable to all men of an deritanding, Published by Leonard Digges Gentleman, Lately corrected and augmented by Thomas Digges his Sonne.



Imprinted at London by Thomas March.

Anno 1578.

A. p. 302. W. p. 067.



TO THE RIGHT HONORABLE SIR EDWARD
Fines, Earle of Lincolne, Baron of Clinton and Say, knight of the
moble order of the Garter, Lord high Admiral of England, ireland &
Wales, and of the Dominions and Hes thereof to f the towne of Calice &
Marches of the same, Normandy, Gastroigne & Guian. And Captain generall
of the Queenes Massiftes Seas and Namie Royall.

Ight honourable having of long time fundry wayes foud your Lordships great fauour not only toward my father in his lifetime but alfo toward his most bout ifully correned sithes his death, I have carefully thought which way I might some way yelde a testimony of a gratefull minde. And Perusing of late a Booke of my fathers to your Lordship dedicate, by negligece or ignorace of Correcters mamy wayes depraned: I determined both to amed the faults er with some additions to amplifie the same, briefly also to touch & discouer certaine errours touching matters of Nauigatio transferred into our language. And although I have in a peculiare volume for that purpose prepared to entreate at large delivering new Rules & Methodes hitherto in no language published, nor to my knowledge of any forraine Natiopractized, not onely in demanstratio voyd of alerrour, but also in practize feazible. Yet in the meane least farder bouldnes by ignorances hould encrease to derive vs mo errours from other nations, wheref our Seamen have learned to many already: I thought good at the end of this bake to note some of the most vsed & estemed or among that factio held for Oracles, wherby, in dede they have bin & are (in all Navigations) fo missed, that were they not by fight of the coast, & soundings better directed then by any troth in their Art, many moveffels should daily perish. This present, toke therfore of dutifull good wil I shal humbly defire yourlordship in good part to accept, meanig hereafter (God paring life to honour your Lordship & profit my country with matters more rere. And in the means humbly take my leave.

At your Lordships commaundement Tho, Digges.)

To the reader.



Danopo (gencle Reaver) the perely care transples and paines of other, with the confosions, repugnances, and manyfolde errors partly by negligible & oft through ignoraunce committed: I have agapte briefly fet forth a Prognosticatio general, for ever to take effect, adiopning thereto

divers profitable collections and many pleasaut conclutions, ealle of al willing ingenious to be perceived. Dere note (Reaver wheras the elevate Pole and Werivian thould be confide. red, inchis worke it is perfourmed for Londo, because I with this Derivian Acuation of clime the exact truck of thinges. If any yearly practifes in like matters agree notwich my calculations, be affured they are falle, og at the leaft for other Elevations or Meridians supputated and therfore little feruing thy purpole. And that the late ruve inventions , and groffe Deuifes of fome this yeare. two yeares pall publifes might be of them perceived, then filed, and to ferre to fome profite: batte purposed even now to put forth a booke named Panauges wel feruing their turne, and fo generally and moff eractly al Carope, pleafaunt, profitable to the learned, & no fmal belight to all maner of men. An other booke is ally ready come to the handes, tituled Tectonicon acreafure boto the Dafas. Carpeters, Labineaters, correcting their old errours maga fully reckened of them as infailible grounds, teaching faith. fully fufficiently, and bery briefly, the true menfuration of all maner land. cimber, fone, boju, glaffe. gc. And ar the end cocapiting an infleument Geometricall appointed to their ble. Take in good worth thele labours (louing Reader, and looke Mostly for the pleafaunce fruites Mathematical, euen fuch as have bin promifed by my friends and partly by mee. Reither that my veltre to profite bereffap:but enteveth farther to procene, if thele feem accepted. As the good wil of Printers not ban, bath kept p fozelato from pouifo I truft f willing minne recellecy of Tho Gemini, fhal baing them fhortipunto you. Cerces my bope is while life remaineth. not to be bufruitfal s this common wealth with Auby and practife.

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Am biverfip occasioned (louinge reader) fomewhat to write in the commendatio of the Bathematicals which needed not, but onely to open the foolithe rathnelle, and rathe foolithnelle of futch, Vituperant which of late baue in writinge byfprayled thefe qui fimpli citer

goodly arces. It is an olde sapoe saw, & crae: Scientianon habet es ignorant. inimicum nifiignorantem. But to auopoe tevioulnelle, and chiefly for the more fatiffying, I referre all of that forte, which have ta-Med any learninge (the reft not regarded) to the first parte of famous Guido Bonatus de vtilitate Astronomiæ in communi, where hee wipteh contra illos, qui dicunt quod scientia Stellarum non potest sciri ab aliquot: contra illos, qui dixerunt, quod scientia Stellarum non est vtilis, sed potius damno sa &c. contra illos, qui contradicunt indiciis Astronomia, & qui reprehendunt eam, nescientes dignitatem eius, eo quod non est lucratina. Also for breuitpe I appoince all nice biuines, of (as Melancthon termeth them) Epicurei Theologi, to his hie commendations touching Afronomy, Octered in his Epittles to Simon Grineus, to Schonerus, & to the perojation of Cardanus c. bookes, where he theweth how farre wpoe they alledge the Scryptures agaynte the Altonomer, which make wholly with the Aftronomer. Melancthon wayteth and affirmeth. Arrogantiam effe cum summa stultitia coniun-Etam, venari choragium aliquod glorie ex insectatione artium, que funt grani autoritate doctorn prudetiurecepta, bee calleth it mani. festum in sanje genus, veclaring quod magis opus habent Medicis, q Geometris, abutling the learned not to gieue eare buto they? follp. Sinamus (ait) una cum Epicuro ineptire. Mhych counsell lo, I folow. Mow therefore, ye ennemies of all good boctryne epther genean ouerthrome & that wo pour penne, or let famous Guido, or learned Melancthon fatility. If neither : certes I will thortly (God fparing life) cake fome paine in publiffing the wonderfull buknowen pleafaut profits of thefe dispratled high knowledges and by that meanes to enforce filence.

Mow in few, for thy encouragement in thefe, thus I fay and truly, thee ingenious learneo. wel experieces circumfpect fit . dent Pathematicallarecequeth dayly in his witty practifes more pleafaunc

plefaunt loy of mynde, then all thy goods (howe riche foeuer thou bee) can at any time purchafe. Id tantum quod pulchrum eft, quod purum est, quod dininum est, nibil mortale sapiens dulci ardore ama plectitur. Ve multa paucis : crede mihi, extinguidulce erit Mathematicarum artium labore. Row to ende : that learned Guido, p excellent Guido bonatus, theweth what Aftrologie of Aftronomie is, & ought not fagth be) by any meane to be reprebended, in that the most wyfe, yea, the boly fathers bane practifed that fcience. De preueth it one of the chiefe fciences Bathematicali. bp the aucthority of the bell learned, & by Ariftotle in bis Pofferios rum. Dowe commeth it to palle louinge Reader, freinge it is a noble Science. Et Scientia eft notitia vera conclusionum, quibus propter demonstrationem firmster affentimur, that it is counted qui contradicit bapne, aut of fo fmall ftregth : the fecret truthes and moft pleaambitiofus eft, faunte profites therein not belired, pea btterly bifppfed and of fame bufp byting bodies reiected as bery lies? Let no man boubt ignozancie, the great enemy of all pure learninge bath wrought this. Nam incertam vocat hanc artem vulgus, propter errores non arti, sed hominum indoctiffimoru inscitia, & temeritattimputandos, que citra delectum omnia effutiunt. Chus I leque intigefly farther to trouble : fauour me as I tender the furtherance of good learninges, profitable to a common wealth. Fare molt bartely well, bufayned good Chaillian Reader. techany afficiently devega

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Stulti neglis gunt & contem qui maledicit, fatuus.

> Hans, we are above to how alegan's place of a fell agreement was there really superstante dollars problem never by bortail and there was Plant of war found to be relieved to the state of the sta

Georgistry, eduction the brighted wire to wire or wife or the a fall-tolore the a cherciate paraneonic al all good activities epiden general material religion of the country of her lander Country

astendard Malandhian incife. If aniched consess if will bound (Cool gazing life) to be the gaine (a nubit life y eye bounderfull) butes our pleasait motive of their other value bury and viet ges

and by the meanes to enforce hieres. Row ir few, for the encouragement in thefe, thus I far and centry thee ingenialist learness, of last consected a duction become vent Buthe multentlyrecepings and in his wifer practice more

This casting

The contentes of this booke.

Rom g nept lybe to the foft leafe are contained b form of a Duabrance, Square, Circle, Dua titles , with a figure truipe placinge the laybe Quantity in the heauen.

From the fifte to the thirtenth , pee baue the indgement of weathers by the Sun, Poone,

Starres, Comets, Rapnbom, Thunder, Clouds, with extraoz-

Dinary tokens and afpectes of Planets. &c.

The 13.14.15. and 16 leafe, fhewe the caufes of fuch alteration according to Ariftotle. Fyzit of & Raynbow, then Rayne, froft, Dewe, Snowe, Paple, Myndes, Carchquakes, Chunders, Ligheninges , Comets, Sunne and Boone eclipled , Quantities of the Planets, and their placeng ocularly bemontrated.

The 17 the afpectes of the Boone and ber fygnification in the

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The 18.19. and 20. Mhat Signethe Poone is in & Galbee foz euer, the meeterime to let blood, to purge, to bathe, to fail timber to fow, to plant, to graffe ent gelve.

The 20.and 21. haue Cables for the Sunday letter , for & Golben number or Prime, forthe Cpace and moueable feattes, manp

waves conducing.

The 22.23. and 24 the age of the Poone, p chaunge and quarsers for ever are veclared, the Ebbings and Flowings, the break of the pap, the Sunne riling, the length of the pape, and Right, & Emploghe for al the peace.

The 25.26 and 27, thewe exacte pleasaunt wayes for the day

and night howe, with composition of meete instruments.

From the 29.to the 34.leafe ,pee haue the peculier Kalender,

bery commodious for the day and night hower.

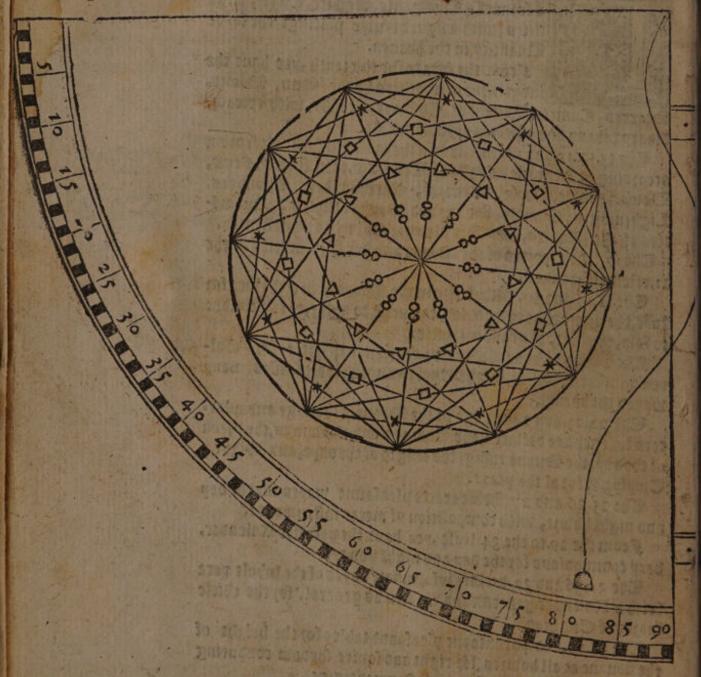
The 35.36 and 37. Declare infozeunate Dapes of the whole pere with a Kalender general, and Tables as general, for the chiefe

fapres of England. The 38.39 and 40 contapne pleafannt tables for the beight of the Sunne at all homzes , for right and fquire Chadem conducing allo to the composition of many intrumentes. C.

The40 and 41. leate, Collections easy to be had in memozye

This Quadrant is appointed here to gette exactly the length of Staffe. !

and Squier shadow, how unlevel soener the ground be, as I have sufficient
by instructed in the eight and thirtie leafe.

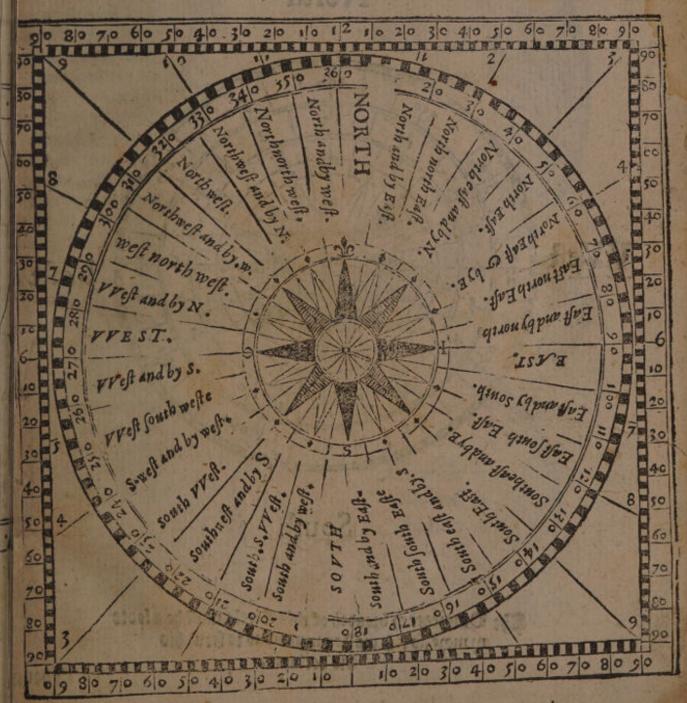


If yelistnot to make a Quadrant, ye may vse this very vvel sadding a plumbmet and lyne, with sightes or otherwise,

This

Fol 3.

This instrument must be made in a playne fyne metall plate, a foote or more square. Then it is pleasant for the houre of the day and nyght, eiether to be fixed about your house, or moveable if ye list, by a Needle to placed where and when ye wil. The 26. leafe sheweth the making.

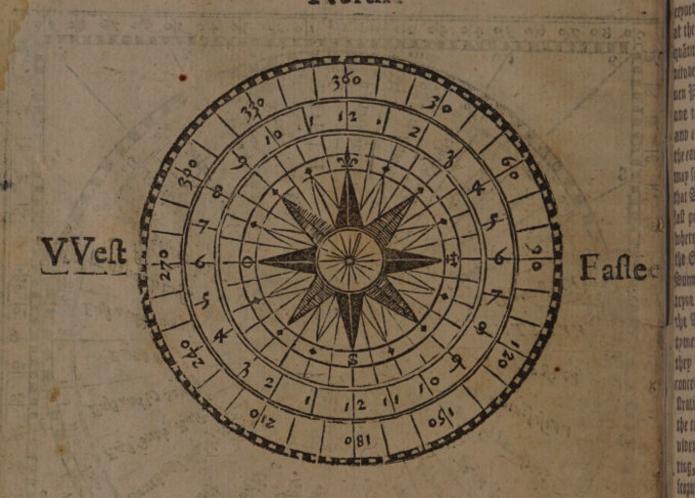


The good Pariner may long for the ble of this Inticument:it

or thus without the Square, this Circle wil serve wel.

your purpose beyong exactly made, and truly placed.

North



South

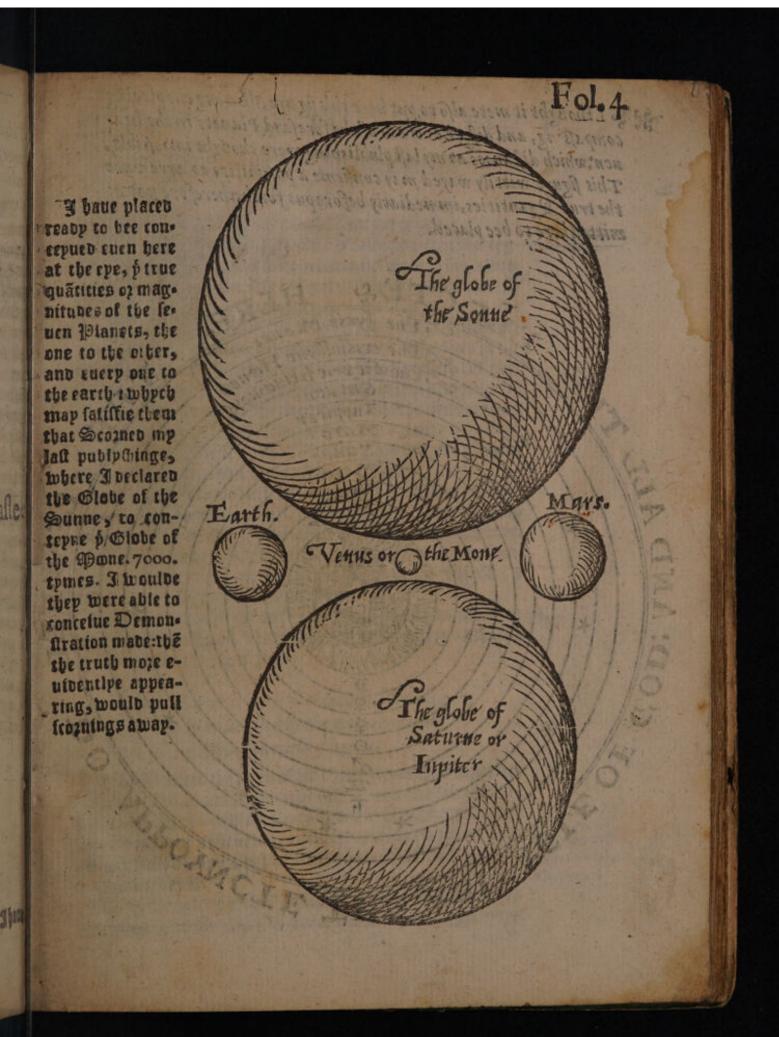
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The Diameter of breadth of this Circle, wull be a foote of more afoit of this Circle, will be a foote of more afoit of the office of the offic

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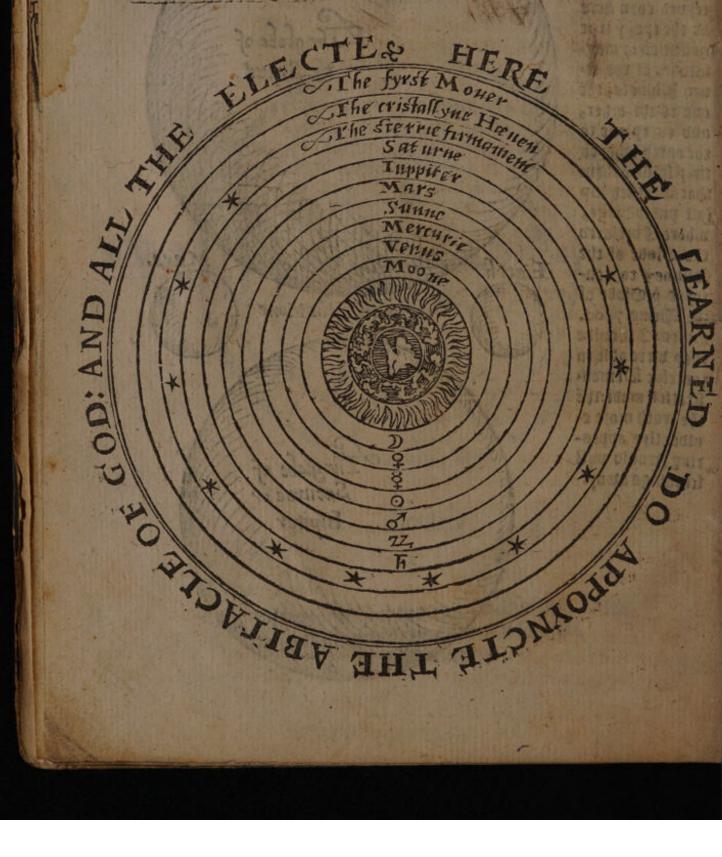
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ready



compassing, and distauces of ech of the foresayd Process in the heauen; which distances at my last plublishing were thought impossible.

This sigure wittily wayed may confirme a possibility to agre unto
the true Quantities, immediatly beforeput forth, therefore not os
mitted here to be e placed.



HOVV TO IVDGE OF Fol.5.

weather by the Sunne rifing

or going downe.



be Sunne in the Porizon of rilling, cleare & De observanbright, theweth a pleafaut bap, but thinly o. dis meteoris. nercaft with a cloude, betokeneth foule weather. Allo at f going bown, the body bineray coloured or red, & about difperfed with like cloudes, the beames red, tof leath, pronotice

great wyndes, the nexte day from that part. Blacknes in the Sunne or Moone, betokeneth water : Red lignifieth Winde.

The Element redde in the evening, the next day fapre: but in the mouning reode, wynde and rayne. Alfo the Sun beames fpotted, greene, pale, og blacke, gathered to a cloube, fignifieth rapne. Further the Sun at the fetting playuly feene without any cloube, beclareth a fapze night to enfae.

here note, Prolome willeth be viligetly to obserue, the cirele oz circles about the Sun. Ifit be cleare, that circle of no continuance, bebold fayje weather. If many of them, winde.

Minos more behement are lignified, if p the circles be fomwhat redde, here & there broken : but thele obleured thicke, & blacke, looke for colo wynde and fnow.

What is Spoken of the Sun, touchinge the circles, the fame Rote. is ment of the Bone. Dote bere that greater wynds chauce in the bay, then in the night.

Howe weather is declared by the colour of the Moone, and by the nature of the Signe wherein shee is.

If the Mone in the third of hir chaunge, pea thie vapes before the full, or in the mistes of the quarter, be fout of pare light, nothing compading hir, th'ende direct bp, the promifeth faple weather, but bent to red coloure, plonoketh minbe. The Lunarubens 75-Moone pale of fome what inclined to black, obfcure of thick, tat, pallor platts threatneth rapne.

Allo by the nature of the figne, weather may be iunger, thus according to Stofferinus, Monteregius, Leupoldus, & famous Guido

Alba Serenas.

A Generall Prognostication.

Guido Bo patus, wother wel travelled in f mutations of appe

onfiver the nature of the figne where the Poone is at the chaunge, quarter, and ful. If the bein bore and by fignes. V 52 7 as Aries, Leo, Sagitarius, in winter a good token of fapre wea Dotte. 8 m vy ther , In Sommer a great lignification of immoderate beat: If Carthy . in earthy cold and by lignes, as Caurus, Wirgo & Capicoznus,n winter indge cold, froft, & fnow toenfue, but in fommer temperate weather. In Appie and windy lignes as Gemini, Li. bya and Aquarius, much wond, If in warrye color and morfe 5 m X fignes, as Cancer, Scoppio and Pilces, in Winter wet weather watrye. In Commer a pleafannt temperature.

A Llothe Sine in Aquary, the Boone at the chaungestere or in Sagittarp, og at theful in Leo, betokeneth raine. The Sunne in Pifces og Aries,the mone in Airgo, Libra, og Sagittary, fignifyeth rayne especially in watry dwellinges. The Moone in Aquarius of Pilces, toke for chaunge of weather, che chiefly the troubleth the agre . The Poone alfo at the chaunge or rather at the ful, in Aries , Libra. Scoppio or Pilces , tempeffeous weather followeth. The Sunne in Aquarie in Aries. Libza, 02 Scozpio , but chiefly in Leone, the Bone then at the ful jand that after rayne or millings, loke for lightning thunper &c To conclude the Boone in Cancer, Leo, Cappiconus, or Aquarius, apped with any afpect, but chieff pe with oppolis tion or Quadzat of Clenus rapne followeth.

The judgement of weather but to by Starres, we say

Cũ maio ralappaiet Humore

R Cholo the Stars whole magnitude you know bell. If they appeare af much light, in bignes greate moze blafinge thes tamenim thep are commonly, it betokenneth great wind or moiffare in & pare where thep them:in minter, cold and froft. Talben flarres craffeffit- feeme corunne in the Element, it the werh wynde. Affirme also alteration of weather, if they be fowe in number, cloudye, and of little tigbte. Further when bim fartes appeare with longe fiery taples, funge wyndes and great dzought, the more in nom ber, the greater effect. Wilben Stars in the night (as it is land) Monte

Moote or feem to fall, it argueth wynd in & parte. If in biners places, inopoinate wyndes, if in al places, then pronouce winds chunder, lightnings, yea weather molt tempeftuous.

The significations of Comets.

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Dinets lignifye corruption of the ayre. They are lignes of De cometaru Garthquakes, of warres, chaunginge of kingbomes, great Cardann lib. 4 bearth of Come, yea a common beath of man and beatt. Fol. 83, & Ans

Pontanus sic scribens: Ventorum quoque certa dabune tibi signa tonium Mizal-Cometa: Illi etiam belli motus, ferag, armaminantur, Magnoru & graphia elades populorum, & funera regum, aquarum significat penuriam

How by the Clowdes, chaunge of wea-

If thicke cloudes refembling flockes, og rather great heapes of wol, be gathered in many places, the thewe raygne . Alfo when groffe thick barke cloudes right over the Mosthe parte, or fome what veclyninge to the Welle are clofe with the Carth immediatipfolloweth rapne . Af they appeare like billes, fone Deale fro the earth, a good token of weather overpaffen. Black clouds, fignify rayne. Whyte cloudes appearing in winter, at the borizonemo of thre vapes togeather, prognofficate colo, and Inow.

of the Raynbow and his effect touching -ult suat act la astool at alteration of Ayre. | small releas

I f in the morning the raynbowe appeare, it lignifgeth mop- aduerso non flure, buleffe great brought of apre worke the cotrary. Afin funt. the evening it thew it felfe, fayze weather enfueth, fo that aboutwant moult appe take not away the effect.

manual compact forms of this grant suggest

The rayabom appearing, if it be fayze, it betokenneth foule Non apparet weather: foule laoke for fapre weather. The greener, the res rarificantus velinfpillautur moje cayne, redder minde.

of thunders, what they signifie, named and and state of the War of the

A generall Prognostication

rorū bellorū.

Carcani Libut

+4129(2)

Signum futu- T Dunders in the mogning, lignify wynd, About noone, rafn. In the Guening, great tepell. Some waite (their grounde I fee not) that Sondayes thunber, Should baying the beathe of learned men, Judges and others.

Mondages thunder, the beath of women.

(thev. Queloapes thunder, plenty of grayne. Miconeloapes thunder, the beath of harlots, and other bloud-Churfvapes thunder, pienty of fheepe and come.

Frydapes thunder, the flaughter of a greate man, and other

borrible murbers .

Saturdays thunder sa general pellilent plague and greas Deathe.

25 How weather is knowen after the chaunge of every Mone by the Die . mpus su on cas Prime daye,

Conday Brome, Day weather. Moday papme, mopil weather. Cueloay Prime, cols and windp. Weonelday Payme, wonverful. Churfvais Pipme, fapze and cleare. Frydais Pipme, mirt weather . Saturday Piime, mopft weather.

mi

Now expacth extraordinary tokens for the knowledge of weather.

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School apparent

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vel infaitanter

Common to= Come baue observed enil weather to follow, whan as watry ther meete for foules leaue & Sea belyging lande: the foules of the land fipsall manner of ing bigb, perpig of foules about waters, making a great noile bitheir wings: Allo y Seas Imellig ib voaccustomet waves, if beatls eace gredily, if they licke their houses:if they fodayne ly moue bere and there making a noise, breethinge by to b ayre with open noffhails trayne foloweth . And the bulp beauinge of Poles, the appearing op comming out of wormes Dennes reforting to the pearch or rouff concret with buff, beclare rapn. The ample working of the fpinner in the ayre : the Ant buffet with her egges: the Bees in fayze weather not far wandzing, the continual prating of the Crow.chiefly emife or thrife quick calling, hem tepeff. Wilhen the Com oz Raue gapeth againft Bebe Sune in Somer, beat followeth. Af they bufie themfelues in proining or walling, a that in winter, loke for rayn, The ber cuftomed noile of poulcry , the noife of fmine. of Beacocks, beclare the fame. The fwallowflying and beating the water, the chirping of the Sparow in the morning fignify rapne. Rayne fobenly biped bp. Woody coneringes fraiter then of cullome. Dels hard further then commonly, the wallowing of bogges the alteration of book crowing, al beclare rainp weather. I leaue thele, wanting p good ground of the reft. If the learned be befpreful of the roforelapdz, lette them read graue Virgil,

Primo Georgicorum. 1t Bor. &c.

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There be a multitude of other net ertraozdinarpe, but of the belt knowe caufes: many for breuten bere omitteb, o molt parc not merioned, because they passe the capasity of the comon fort boon al the which the Aftronomer both toel and learnedly co cluve. I doubt not, ther be alfo fometime buknowen matters. mittigating the aforelapd or prouoking tempest unloked for, which neither experience, ne learning hath eftablifhed. Dow bu kinde (thefe confidered) yea bow far from worthy chankes acuing are they, which in generall headdely boblame, checking hiccordy the Altiologer, with thefe Judiciary matters, the leaff part among a number of his most certapne boinges whe thinges forcune contrary to expectation? Il noerftanbe gentle Reaver, peofent ofa multitude famoully learned is their bucler, euenin thele matters indiciarp. Mbo baue waped a long time paubently,the great frength,the behement force,@ maruations natures of al erratical, & celeftial confellations, with their Angles, Radiations, Afpectes, Affections, Stations, Diogreffions, Defections, Difpolitions, Applications, Pacuentions, Refrenatios, Contrarioties, Ableiffions, Contuncti ons, Duadzatures, and Dppolitious gr. Therefoze ertreame folly, pea more then madnes both be beer, which imbraybeth or backbpteth thefe knowledges, not remembringe the great and manifold benefptes bad through them, and that with molt certaputy in al other boinges.

Tahat Deceoroscoper,, pea who learned in matters Aftronomical poceth not the great iffectes at profing of the flarre realied the little Doge Ernip f confent of the bell learned boa gre of bis force, pea Plini, in his hiltory of nature affirmeth & Seas the moft fierce. wines to flow in cellers, ffading waters

Canisminoris efficatia.

A generall Prognostication turi, Coronx, to moue, bogs enclined to madnes, then molt woode. Farther

8100 B

Orionis, Arc-

84D & 00 cum gaut eum @.&c.

Capre, fucula thele confiellations, Orion, Acturus, Corona, ryling prouoke tenspelleous meather. The Kio and Goat, winds, Dyaves, 01. Succule rapne. Tahat Peteogologer confenteth not to b great sam Q aut D. alteration and mutation of apre, at the confunctio, oppolitio or quadrate afpect of Sacarne, with either two lights ? Whois ignozaunt, pea meanly travelled in Aftronomp, that Jupiter to Mercurie og with the Sunne, enforceth cage of windes. What is he that perceiveth not the fearful thunders , lightninges & ra nes'at & meeting of Pars & Clenus, 02 Japiter & Dars. &c Leaue, for hame to oppugne thefe invittals Arogly authorifer. De that any other part carpeth may feeme moze then mao. All truth, al experience, a multicube of infallible grounded rules are agapult bim. Certum oft omnibus que notum, qued cœli motus fignorum ortus, & occasus, planetaru aspectus, & coniunctiones luminarium Eclipsis soc, certissimam, determinatam, ac infallibile habent causam. Quis iam sane mentis negabit corum effectus sape innotescere, vepote bella, fames, grandines, aëris perturbationes, ele mentorem commotiones, terra motus, & similia? Positis cansis maturalibus, from impeditis, sequitur effectus.

The learned that litteth ingenioufly to prognofficate of weather wil not onely discretely way al vefore migten, but confiber also with them the aspectes of the Planets followinge, and their Combultion in the pii. lignes, with the contunctio officen -facces, manflons of the Moone, Afcenbent, Climes ac . Alfa the times of quarters of the peare mult be noted biligenelplas

enfueth) and fungement accordinglypronounced.

Of the yeare deuided into 4 quarters

WA II Po. vver ouer the breft. E SLIN

man I r ₩=> Po= vvct ouer all fumes.

De Spring time is but and moult, and continueth fo longe asche Sunne is in Aries, Caurus, Gemini, which is from the tenthof Barch buto the pii. of June. The Sommer is bot and dipe compted from the beginninge of Cancer to the ende of Airgo that is from the twelfe of June to the 14 of September, Paruellis colo and day compted from the beginning of Libya co'p end of Sagiccary, counted from the 14. bay of Septem ber to the riff, of December. Minter is colo and moute, con-

to the state of the first of the of the title all eld mon fleres, to men to flow in collers, Wanter Ser. arther

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iii. M.

部 CODE Einneb fes the beginning of Cappicenus, to f end of Pilces, & is from the twelft of December, to the tenth of Sparch.

> Here followe the affectes of the Planets for the better indgement of - WV eather

M Cfore I veclare of Planets & the lignification of aspectes, it behoueth briefly to open what I call plaanets, what alpects, and how they are Charecteres a figured. Cinderstand there be feuen moueable flars pleafaunt to the light called Planets & bigbell Saturn, Tichen Japiter 77, Mars & Sunne O Menus & Mercury Fand p Moone Dinert to the Carth. Row when I belyze to exprette Saturne, I write this figure Te for Aupiter this Ifor Wars thus &, Thus of pother as theire Charecters beclare. All Radiations of afpectes are exprested as follow: A Conjunction thus figured of and it is when an other Planet is iopned with the Sunne of Moone, ofothets among themfelues, within oue begree or leffe.

The Sertile Afpector Radiations, is thus exprelled *, & it is within 60 begrees the one fro the other. The Quadzate afpecte thus _, 90 begrees diffant. The Erine thus A, leperated 120. begrees. The Dppolitionthus 00,180, begrees the

one idillant from the other. Lo here they follow in order the, charecters of & Planets, and Signes allo.

Coniunction, Sextile, Quadrate, Trine, Oppositio

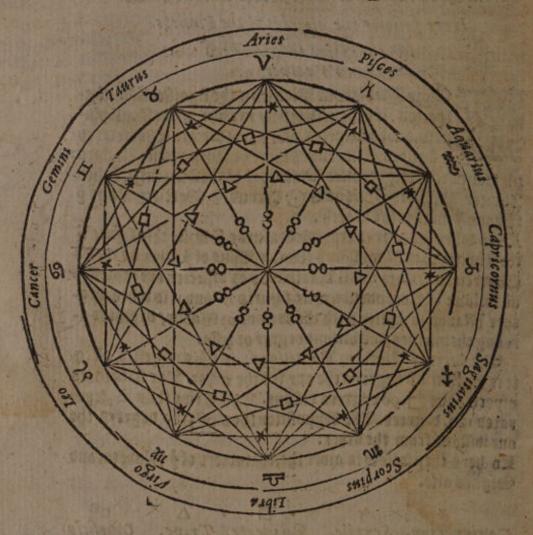
the transfer of the said the Saturne, Iupiter, Mars, Sunne, Venus, Mercury, Moone

Aries, Taurus, Gemini, Cancer, Leo,

enduell and principal and a company of the Hart Libra, Scorpius, S. agitarius, Capricornus, Aquarius Pisces

A Generall Prognostication

Yet for more playnnesse behold this figure.



The signification of aspectes of Planets among themselves: for the judgement of weather.

Fo cum 16

The confunction of meeting of Saturne with Inpiter, in fiery lignes, enforceth great drought. In watry lignes, flouds continual rayne, generall out flowinges, pt. In apple lignes, plenty of wyndes.

The

BQ□,800 cam ?.

The Duadjante, Septile, og Dypolition of Saturne wyth 50*800 Tapitet, in mopfte Signes, caufeth troubled Apze,bp Daple, cum 4. Impnoe. Rayne, Chunder &c. befoze & after.

The Confunction, Quadrature of Dppolition of Saturne, To Q. 800 with Mars, in watry Signes, beclare in Sommer rayne, ofce Moures with baple thunder and lightning. 179 and

The Conjunction Quadrature of Dypolition of Saturne cum O. mith the Sunne chiefly in colde lignes, them darke weather, baple, rapne, thunder, and coide bayes.

The Confunction, Quadrature or oppolition of Saturne with Venus, in winter engender, colo and raine, principally in moil Signes:in fommer, mitigation of beate.

The Confunction, Quadrature, or Dypolition of Saturne Bolo, 800 with Mercurie, in watry Signes, bring raine, in botte or byy fignes , brought in Sommer, thunder lightnings & tempeft.

The Conifiction, Quavature ,og Dypolition of lupiter 400,800 with Mars in mopt Signes, Declare thunders, lightaings & cum di rapne:in winter fnow,og cloudy thicke weather.

The Confunction, Quavacure, og Oppolition of Tupiter 46 0,800 with the Sunne, great and moft behement my noes.

The Confunction , Quadrature of Oppolition of Iupiter 260,800 with Venus in moult Signes, cold and millings, in the refte cum ? Signes tapze weather.

The Confunction Quadrature of Oppolition of Iupiter 460.00 mith Mercurie, great wyndes.

The Coninuction, Quadzature, or Oppolition of Mars, &d with the Sunne in fiery lignes, drought:in watry, thunder, cum o and raphe.

The Confunction Quangature of Dppolition of Mars 360, & with Venus, in mopft fignes, rapne and tempeft.

The Confunction, Qua ogature of Dppolition of Mars, with Mercurie in bot fignes, gret beat: in vy fignes. vongot 360,& in watry, Rayne fometimes, Thunders, lightninges, and fo- cum 2 dayne fierce wyndes.

A Generall Prognostication.

24□\$00°

The Confunction Quadrature or opposition of Venus with Mercury causeth rapne; in Sommer they provoke tempest, the more if they agree in matry signes. Note what is sayd of the Confunction Quadrature or Opposition, the same is also met of poetile and Trine, but they are of lesse significations so the learned noteth.

A Declaration of VV eather, by Aspects of the Moone with Planets.

Dd□.800 cum h. The Contunctio, Auadrature of Oppolitio of the Moone with Saturne in morth lignes, bringeth a cloudy day, cold size according to the nature of the ligne: If the go fro Saturn, to the Sunne, by confunction of otherwise, harder weather ensueth.

Dd□,800 cum ¥.

The Confunctio Quadraeure or Oppositio of the Moone in Iupiter in Aries or Scorpio, theweth fayre weather, White dispersed cloudes.

D&□,&00 tum &. The Confunction, Quadrature of Opposition of the Poone with Mars in water Signes, raine. In hoate Signes, divers coloured cloudes are made, althe Clemet over. In Sommer often thunder.

D d□,%00 cum.⊙. The Confunction. Quadrature of Oppolition of the Poone with the Sunne in mogli Signes, raing weather. The moze if the Poone go from the Sunne to Saturne.

D &□,& 00 cum ♀.

The Confunction Quadrature of Oppositio of the Moone with Venus, chiefly in mouttignes, rayne followeth. The Moone going from Venus to Mars, more variety of weather.

D d □,8:00

The Confuction Dusdiature of Oppilicion of the Poone with Mercury in moule figures, the weth raque and what, the more when the Poone passeth from Mercury to Iupiterithen great Winder follow.

How

Fol. 10.

How the weather is judged by the O-

rientall and Occidentall station of Planets, with their Combustion in the 12. Signes Celestiall. First of the Planets in Aries.



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ATVRNE in Aries Combust, that is to say h in y buver the beames of the Sunne, maketh a cloudy barke troubled agge: Dzientall, I meane in the mozning appearing befoze the Sunne, sagge weather. Occivental, that is to say, shewing himselfe

after the Sunne going bowne, betokeneth great myndes.

Iupiter iu Aries combust, a token of raine, being Decidental.it 4 in p bringeth clouds, & dewes: Drietal, fayze pleasant weather.

Mars in Aries combuff and Decidental, good weather:cotra- & in v.

Venus in Aries combust Derfvental, moylines, great winds: 9 in y

Mercury in Aries combust, Tempest & Decidental and Difen- In V.

of the Planets in Taurus.

SATVRNE'in Taurs combust, and fationary, bringeth h in & chicke cloudes, thunders and troublesome weather.

Iupiter in Taurus combuste, indifferent weather: Decidental, 4 in g

Mars in Taurus combult, a quiet appe : but Dziental windy. & in &

Venus in Taurus combult, chunders. gc. Decientall, fapre. Q in &

A Generall Prognostication.

Of the Planets in Gemini.

H in M	SATVRNE in Gemini cobutt and Decidental, brought. Iupiter in Gemini combutt, a good fignification.
& in II	Mars in Gemini combutt and Decidentall beate:
2 in II	Venus in Gemini combust Decidental , wynde.
Ç in II	Mercurie in Gemini combutt, wynde.
	of the Planets in Cancer.
h in S	SATVR NE in Cancer combuste, barche weather, great windes and troublesome weathers: Occidental, calmer.
24 in 95	Iupiter in Cancer combuff,bingeth calme pleafant weather
ð in S	Mars in Cancer combutt, greate beate.
2 in 5	Venus in Cancer combult, a quiet calme time.
Ç in S	Mercury in Cancer combutt, tempettious weather, chiefly on the Sea: Decidental, calmer.
	Of the Planets in Leone.
h in A	SATVRNEin Leone combust, maketh wynds and mil- slinges.
24 in St	Iupiterin Leone combust, pleasaunt wyndes.
3 in a	Mars in Leone combinit, Decidentall, Dzought.
g in N	Venus in Leone combust, ogought:
k in st	Mercurie in Leone combult by nocs.

Foreuer Harmon Fol. 11

Of the Planets in Virgo.

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Of the Planets in Virgo.	
SATVR NE in Virgine combult, is a lignificatour of in- h in firmities, Iupiter in Virgine combult, manifelleth aboutance of things 4 in	112
Mars in Virgine combutt, like buto Saturne. 3 in	地
Venus in Virgine combust, dought, Difental contrary. 2 in	the
Mercurie in Virgine combuste, drought, raging seas, Occi- Q in dentall, drought. Of the Planets in Libra.	1792
SATVRNE in Libra combut, theweth intirmicy of light b in Diientall, cold wyndes.	1 1
Iupiter in Libra combutt sindifferent weather. 24 i	in 🖴
Mars in Libra combutt, bzingeth mopflure. 8 is	n 🖴
Venus in Libracombust, moystayre. 2 in	12
Mercurie in Libra combust, wyndes. \$\forall in	S. I.S.
of the Planets in Scorpio. SATVRNE in Scorpio combust, colo appe: Occidentall H in frost, Driental. cold, Morth wyndes.	1
Iupiter in Scorpio combust, raine: Detibental, bitter weather. 24	n 112
Mars in Scorpio cobuff, veclareth moyflure: Dziental, winds & i	n m
Venus in Scorpio combuft, raine, both Decivetal & Dziental. 9 i	n m

Mercurie in Scorpio, combuff, raging weather, chiefly Die. & in m

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A Generall Prognostication.

Inpite Mars tim Venu Merc

	Of the Planets in Sagittarius,
Ty in F	SAT VRNE in Sagirearius combut, colve raing appe: Da rientall, colve and frost.
24: in I	Iupiter in Sagittarius combult, much rapne: Difental, wozse weather.
d'in F	Mars in Sagittarius combuff, brought.
2 in 7	Venus in Sagittarius combult, raine: Decidental wind & colo.
y in ?	Mercuy in Sagittarius combuit, cayne: Occidentall, cleare appe.
	Of the Planets in Capricornus.
To in 19	SATURNE in Capricornus combutt, fignifieth varche weather with Southwindes: Occidentall cold: Opientall Morth wyndes.
34 in 1/9	Iupiter in Capricornus combult, mopfle Apre: Deciventall increasing the fame.
3 in 1/9	Mars in Capricornus combutt, cloudy: Decidental fome beate
9 in 1/9	Venus in Capricornus combust, coloe agge: Dzientall raphe.
Fin 1/2	Mercury in Capricornus combust rayne, both Diiental and Deciventall.
	of the Planets in Aquarius.
Ђ in 200	SATVRNE in Aquarius combust, colo appe: Decloental paungerous Seas, Dzientall, rayne.
34 in 22	Iupiter in Aquarius combuft : Decibentall, rayne.
an ni B	Marsin Aquarius combult, Dought: Occidental & Dziental plenty of wyndes.
12 in ##	Venus in Aquarius combust, cloudy: Occidental botte: Dafe- tali, rayne.
IZ in A	Mercury in Aquarius combult, fnow: Decivental moze colve.
	Detentall rayne. Of the
	THE RESERVE OF THE PROPERTY OF

Of the Planets in Pifces.

SATVR NEin Pisces combuft, bzingeth cloudes: Deci-b in X bentall rapne.

Inpiter in Pifces combuft Dafental, calme maters.

24 in ×

Mars in Pifces cobutt Decidentall brought: Dziental light' & in & ning and thunders.

Venus in Pifces combuft cold, Occidentall, difpoled to fnow. 9 in X Mercury in Pifces Combutt mout ayre.

Thus much of the inogement of weather.

Deing that I hane now fufficiently veclared bolo, by what rules and tokens, weather is tunged, I thinck it convenient to avioyne here a briefe collection, bom Plenty, Scarciepe. Sickeneffe, Death Alterations, troubles, warres et are for euer percepued.

A Rule to Prognosticate the aforesaide, by the falling of Newyeares day.

Sonday.

Tis affirmed of fome whe Dewyeres bay falleth on the Sondap, then a pleafant winter both enfue, a natural Sommer, fruite fufficient. Darneft indifferent, pet fome winde and rayne, many mariages: plenty of Mine, & Wony, beath of yong men and cattell, robberies in mot places, newes of Piclates, of kinges, and cruell Marres in the ende.

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Monday.

An Monday, a Winter fom what bucomfortable, Somer temperate, no plenty of fruitt, many fancies & fables opened, aques that raigne : kings & many others that bie : mariages halbe in molt places, and a common fall of Gentlemen.

Tuefday.

) IR Tueloay aftormy winter, a met Somer, a divers har. uell, come & fruite indifferent, pet berbes in garvens thail not florythe, greate achnelle of Den, Women, and yonge children

A Generall Prognostication.

chilvien. Beafts hal hunger flerue, and die of the botch, many thippes, galleis and hulkes, that be loft: the bloudy flipes that kill many meniall thinges deare faue Coine.

VVednesday.

On Woodnesday, loe a warme winter. In the end from & froste, cloudy Dommer, plenty of fruitte, of Come, have Ampne, and hony: great pape to women with child, and beath to infants, good for theepe, newes of kings, great wars, hat tell, and staughter toward the middes.

or of cane devalue Thursday. Hotel

OM Thursday, winter and sommer windy. A rainy harvest: therefore we shall have overflowings. Durch fruict, plensy of hony. Pet sieth shallo beare, cattel in generall shall ope, great trouble, warres. Ac. Wyth a licentious life of the seminine sere.

Friday.

Op Friday, winter ffozing, Sommer scant pleasannt, hare neft troifferent, little Cope of fruit, of wine and hong, com beare. Pany blear eyes youth that oye. Earthquakes are percepued in many places, plenty of thunders, lightnings & cent pest, with a sodayne death of cattell.

· Saturday.

OM Saturday, a meane wynter: Sommer bery bot. A late harvest, good cheape garden herbes, much burning, plety of hempe, flare, and hony. Did folk hal dye in most places, Feners and tertians hall greeve many people, great mutteringe of warres, murders halbe lovenly committed in many places, for light matters.

Mow that I have opened vivers waies, both for flearned and unlearned, how weether to come at al times may be welfunged & knowe. Ac. I thought it mete for farther knowledge therin not to omit here the natural causes of such and so many alterations of ayre. Lotherefore orderly they follow.

Macu.

Naturall causes, conducing to all the aforesayd, and first of the Raynbow.

The Rainbow is the chimings and rebounding of beames of lighte, that tourne to the contrary vapoure agapte in the tloube. It declareth sometime rayne, and many times sayso weather: when the one, and how the other, is before opened.

of Rayne.

Rayne is a colde vapoure, an earthy humour, or fumolities, out of waters or earth drawen up by the vertue of & Sun, to the neither part of the middle space of & apre, therethrough Quare lapided cold thicked, the dissolvent us engedred, falleth on the earth. Plant, legal Deere I leave to speake of miraculous raynes, as Bilke, Cap, 58.
Bloud, Fleshe, Iron, Woll. Ac. For more satisfying in these, reade Plinius in the second booke 58. Chapter.

Of Frost, and Dewe.

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A Colde mayite vapoure, a litle way drawen by in the day Ros chate, through faint heate of the Sune desendeth in f night, disprina himse solved on the earth, there congelated or resolved into water, fit the one called Frost, the other Dewe. The last is a signe of sayze weather in the Spring, or Harvell.

of Snowe.

I & is a moute vapoure, drawen by to the mindle Region of Nix humoel the appe, then thicked, and frofen into the body of a clouder modice constant congelated, beforeupeth.

A Cloude refolued inco Chater, in the fall congelated, ma- Gado, plunia heth Patte. The higher te cometh from aboue, of the lon- gelata, gerte tarpeth in the agre, the rounder Paple.

A Generall Prognostication

of VV yndes.

Ventorii ergo materia calida & ficca exhalatio.

Vande is a multicude of opp erhalacions, drawe up fes the earth and about the earth enforced here and there

Of Earthquakes in the most quiet time.

Quéadmodű in nube tonis truum, ficin sciratremor.

D Lency of wynoes, entred into hooles, cones, or caues of the earth, which ablent from about the earth cauleth quietnes: the violent bruffing out of them the earth clofed againe) is f Carthouake: Signum eft futurorum Bellerum.

Tokens of Earthquakes to come,

Signaterresmotus.

A Fiery cloube, appearing in the Clement like a litle Willar is a token of Carthquakes to come. The obliurity or Dark nes of the Sunne, without cloubes, and fraungely coloured. bloudy og otherwpfe, is a token of Carchquakes.

Alfo when Well water and others are troubled of falt, or

infected by fanour.ec.

A great quietnes of apre, by land and fea, & chiefty the long

ablent of wyndes.

Alfo fraunge noyfes bard, as clamours of men, rufbing of barnelle, mourninges, lamencacious. &c. All thefe baue bene obferued, to lignify Carthquakes at hand.

of Thunders and Lightnings.

Falgetra prius cemiqua to-Atilita.

Thunder is the quenching of feze,in a cloud. D: thuner is an exhalation, bot @ 029, migt with moifture caries byte nitra audiri,cu the mioole Region, there thicked and mapped into a cloud:of finnl fiant cer- this botte matter coupled in mouffnes, clofeb in the cloud, gro Cop. 5 sconera weth affrife, the yeare beating, and breaking out the fives of & cloude with a thundling nople : the fore then dispersed, is the lightninge. Thus for the learned Tonitrum fonitus eft, qui editur quando nubem rampet halitus. Fulmen flamma vel repentenue est ignis, qui ex collisione nubinu, aut ruptura nascitur . Aristotle Anemeth the lightning after & thunder, but the fice both fir @ appare, in that the fight is before thebearing. If this fa iffo nat, reduche fecous of his Meccoron, Dece foloweth a not of lpghsUghtnings.

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There be three kindes of Lightninges, dry, moist, and cleare.

Ry bo not burne but cleave, bepart og beuive. Popfe burn Dote. not but alter colour. The Clere are of marueplous natures, ful barels by it are emptied. It meitres monepin f purle it breaketh the fworde, the purfe and fcabert not perifhed, yea ware in them bumolten.

of the Comets or flames in the Nighte.

A Comet is a flame working in a org. bot, figmte erhalation Ventorum brawe up to the highest part of the apre, his matter or fub causa, Raunce after it is breut, bifperfeb, prouoketh wynos.

The naturall cause of the Sunne Eclipsed.

Dehing els is the Ecliple of the Sunne, but f direct put ting the body of the Moone betwene the Sunne and the earth, or betwene our fight & the Sunne which chauceth one . lp at the chaunge ..

A Corollarie,

Re this gather the varchenelle at Chapits beath, not to fian by naturall Ecliptical caufe: but by fupernaturall, 02 90pracle for it was at the ful Doone, & Scriptures withes which spiracle enforced Dionifius Arcopagita, at the tyme of hys pattion, to speake thus. Aut Deus nature patitur, aut munds machina dis-[oluitur.

The cause of the Moone Eclipsed.

The Sunne being in the confrary poince to y ful Bone, enforcath the chapom of the earth then directly put betweene the Sun & the Paque, to mard p Boone, bibing moze or leffe Vuinerfalis of the Poone, as the differeth from the Ecliptical. Some ob - eft Eclipfis Lune, No fem ferue peffileat plagues, fobatue battaple, greate bearthe, to perin noui Lu enfue thefe Celiples : which all I belire GDD to auerte nio, fed in ca from his chofen: Many other thynges by thefe Eclipfes are & cauda. gathered , as Longitudes of Countryes, the Quantity of the Sunne, contagning the bigneffe of the Carth 162.tymes? the

A Generall Prognostication

Compaffe of the earth. 21600 miles, whole thicknette, accorbing to Archi neves rule is. 6872. miles, & eight eleuethes of a mile.

turumad terra magnitudo.

The quantitie of the Moone is the. 43. part ofthe Carth. The Sunne containeth the Globe of the Boone 7000.times. Damiu planes Saturnus comprebeoeth the bignes of the earth. 91. times, lupiter. 95. times. Mars,once, and ten ligtenthes. Venus the.37. part. Mercury, one. 32000, part of the earth.

> Rote here, that Alfraganus affirmeth the leafte fired Starre perfectly feene, as bigge as the whole earth.

Dimetiens O ad terre dime tietem i 1,ad, 2

Cubus O 1331 terre.8

Æc non erunt admirationi, si Globi capacitatem ex longitudi ne Diametri quesieris. Continet enim solis dimetiens, terra dimetientem quinquies & semissem. Estque proportio diametri Sol's adterra dimetiente, que est numeri undecim ad duo, quintupla sesquestiera. Cubus soles mille tercentum unam 🔗 triginta partes tales continet, cuius (moditerra Cubus oftonus complections, Cubus enim nameri undecim, est mille tercentum unum & triginta. Cubus vero binary, qui est terra oto Subdusto quoties id sieri potest. minore Cubo qui est terra, oto Subdusto quoties id sieri potest. minore Cuboqui est terra, amaiore qui est solis cognoscitur Cubi al cuba proportio; & quanto Sol maior terra sit. Inuenimus ergo octo centies, sexagies sexies, in mille tercentum uno & triginta.

Dimetiens ter se ad diam) ads. Cubuster ræ 4913.Cu= bus @ 125.

centualite.

Terra Diametros Luna dimetientem complectitur ter, & duas eius diametri partiones quintas:est q, ea proportio dimetietis terre ad Lune dismetrum, que est septedecim ad quinque triple superbi partiens quintas. Cubus numeri septédecim est quarter mille negenta terdecim. Cubus numeri quinque est cerum vigints quinque Misiore Cubo per minorem distributo, repersmus numerum centis vigintiquinque, tricies nouies in quater mille nongentis tredecime quad paululum à superioribus observationibus differt.

The quantities, or rather true proportion of all the Planets unto the Earth, ocularly demonstrated by figure follow-

Militanofied with Doublingered sp

Fol. 5,



Mercury is but aboynct in respect of these Quantities.

A generall Prognostication

R. 101

By these fine Globes are represented true magnitudes of a 7. Planets. One Globe of like magnitude appointed for Saturne, a Inpiter. Guen so for a Moone, Venus, the real bane several Globes, (as you may see according to their quantities.

The nature, course coulons, and placing of these seven Planets, according to Ptolomei

b SATVRNE is the highest and slowest in proper motion, colo, ory, and pale, like buto leads colour requirings thirty peares to ende his course. Di 9.ad. 2.

1 Vpiter is nert under Saturne temperate, fayze and batgitt

M Ars is bote and bay of flery coloure, in two peres endeth bis course. Di. 7. ad 6

The Sunneis placed in the middle of all the Planets:mod cleare and bright, the well of pure light: eacry pere fini
thing his course.

Di. n. ad. 2.

V Enus is next to the Sunne colo mopff, and cleare pea moze beighter then lupiter, hir courfe is like bute the Sunness: neuer abone eight and fozep begræs from the Sunne, rallen & Mozninge Star when the goeth befoze the Sunne, comming after the Sunne, the is named the Even flatre. Di 3. ad. 10.

MErcury is nert bnoer Venus, somewhat fhininge, but not berp bright:neuer aboue.29. begrees from & Sunne, bys

courfe, is like to Venus, of the Sunnes motion.

The Moone is lowest of althe seven, running over 5 whole Zodiake iv. 28. dayes and 8. houres and somewhat more. Di. 5. ad. 17.

For more playnnesse of that which is opened, nowe shall followe a figure by the which yee may yer reque how the Orbe of the one Planet compasseth the other. Also how these Planets are placed in the Heauen, yea which Planet is highest from the earth, and which neerest un to us. Consider well this figure, so needeth no farther declaration,



Cht.

A generall Prognostication

Dee may here belfold firft the Clemental part fubiect bnto als teration, confifting of the foure Clemets, firft Carch a Cater, wheron we are then Appe & Fire. Then bother Cthereal past (which the Philosophers call quinte effence) contaqueth the. 10. Dibes the bigger compaffeth the next leffer, as the figure before theweth. It beginneth at the Boone, then Mercu ry, Vepus. &c. in beight moze & moze. As the figure beclareth Saturne to be the highest Blanct, fo is the Poone loweste

The distaunce or myles that the Moone is from the Earth, and enery Planet from other.

A S fome have publiched, it is fro the Carthto the Poone,

ret

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Hæc incredis biliavidentur tatum hijs, qui Mathematicis demostrationis ucrunt.& c.

157 50. miles. From the Boone to Mercury, ig. 12812, mples. From Mercury to Venus, as many mples. Arom Venus to the Sunne, is. 23437. mples and a halfe. bus non affice Fom the Sunne to Mars, is. 15725. miples.

Frun Marsto Iupiter, is. 78721 myles. from Iupiter to Saturne, as many myles.

From Saturne to the Firmament. 120485. myles. ec.

The whole fum from the Carth to the Framamet, is. 35846 mplesanda balfe.

Dere bemonttration might be made of the diffance of thele Dibes,but that palleth the capacity of the common forte. The natural operations of these Planets by Conjunctio. Oppalitio.ec, enfueth : Ducmozelargelpof me opened in a pleas fautes booke thosely to be publifbeb. First bere will I ende f natural mufes of many Sonnes and Moones then of the Pla nets by Confunction.

> the naturall causes of many Sunnes, or Moones.

Milichius no= teth the kinge of Pole to haue scene 6. Sones at ones-

Dele come to palle, when a thicker cloube is gathered towarde the five of the Sine or Moone, in the which the briben beames of the Sunne bo leave the fathion and verpfozme of that Sonne. Thus as followeths fatth Plinius in his fecond books of the History of Patures 31. Chapter. No in Sunnepars perceyued in our timo then epane.

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three, and they are never feene, either about or beneath the Sunne, but on the lives : neuer in the night but onelpe at the Sunne rifing og going bowne.

What is to bee chosen or anoyded under energe aspecte of the Moone, with her fignification in the 12 Signes; towching the same.

he Coniunctio, Quadrature of Oppolition of Saturn & d [00] with the Moone, caufeth an euil bnluckye baye for all matters. Leave therfore to have to do any maner way nothing that profper or come wel to palle then accemp ten. Bet the Septile of Trine of Saturne with & Moone, vecla- 5 x Acum D reth aconvenient time to til, beine, oz bigge, to fom to lay fount Dations to erector repayre boules, pea a meete time to obtain fuites of fatherly farmours. The Moone in Capricornus of A quarius, bringeth this latter effect of the Septile & Erine .

The Confunction, Septile, Trine, Quadiature of Oppoll 4 & AD tition of Iupiter with the Moone, the weth a fortunate day chief vel of cum D ly to obtain futtes of Kingesnoble Princes, Prelates, of law pers and Religious persons: and a mete, time to fluop to four ney, to take an honeft matter in hand. The Boone in Taurus, Ding of vel F in Leooz Sagittarius, fheweth the fame.

The Contunction, Sertile, Trine, Quadjature,og Dppoft & & Cump. tionfol Mars wich the Doone 3 marneth thee not to matche thy felfe & day with warriours not withfanding verye good & molt meete to finifial manner fiery workes, wought to fourney pet moft cogenient for valiant captagns to worke their fear, to leave, encourage og Romack their foulviers molte binmeete to totreate peace, to take fermantes, og to feeke frenoffip.

The Coniunction, Duavature, or Dppolition of the gun of cure D with the Poone veclareth a very buhappy day for al maters therforeattempt nothing, ne any mauer fute, neither pante, build, ne tourney. Det the Septile and frine are bery fatunat specially to obtayn fuite of kinges Princes and other Robles The Moone in Aries enforceth the effect of this later part. The

The Generall Kalender.

28 * A D Che Confunction, Sertife, Crine, Quadrature, or Oppolitio of Venus with the Poone, caulith a dape most apt to obtaine all fuites of women, good to woo, to attempt mariage, to tollow all maner pleafures, and pl afaunt paffimes:not bnmcete to hirefernants, to let blond &c. The Boone in Libra of Palces plouoketh the like.

AQ*V

The Confunction Sertile, Trine, Duadzature of Oppolltion of Mercury with the Done, promileth a fortunate happy day to Buyand Sel, bery good to entre Chilozen in Liberall arter, an apt time for o verlifier good to ble Warrhaundife, to fourney to lend amballage, to geue accompres and inche like.

Din IIS vel

The Poone in Gemini, Cancer, og Virgo, euclineth euen to the fame afozelayo.

The Bone with the Dagons bead, the weth a luckye bay e Down St fog all matters, with the taple contrary.

> Now ensueth a Table Shewinge what signe the Moone is in and shalbe for ever, declaring also the meetest time to let Bloud to Parge and to Bath,

The Table bath at the bear feven titles. The first monethes the fecond papes, then the Prime: The twelue Signes: the titles to let Bloud:to Burge, and to Bathe

Dere it is to be noted, that those paies are good for these purvoles, which be ligned with this letter G: and thole entl dayes hat are noted with B. to enterestantile, finitantinto

balla, ne consura. December de con anno come are brapa contrata specially to obsaya futer of himse specially to obsay a party of the p The Poone in Aries enfrieut bir effect intellete i are.

tempthe about arciairth a bery until be approprie

This Table declareth for ever, in what Signe the Moone is or shall be at any days in the yeare. It serveth also very well to let Bloud, to Purge, and Bathe.

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	F 1 1 1 4 5	13 18 1 21	- SALE OF 198	2 32 3 mg	THE PERSON	Wall by
Monethes.	Daies.	Prime.	The 12.	To let	To	To
n albir san	(a) real	to don a	Signes.	Bloude	Purge.	Bathe
Febr. Noue.	1	3	Aries.	G	В	G
Marche.	2	Maria St.	Aries.	G	B	G
F 18 18 11 10 1	3	1 14	Taurus.	В	B	В
Decembre.	4	6	Taurus.	B	В	В
	5 44	11111 23	Gemini.	В	G	The last
Aprill.	6	17	Gemini.	В	0	74374
1000	7	19	Cancer.	A STATE OF THE PARTY OF	G	G
Maie.	8	1	Cancer.	FIG. ST	G	10
THE NEXT	9		Cancer.	11000	10	G
4 465- 000	To	12	Leo.	В	В	a
1 120 120	II	4	Leo.	B	B	0
Tune.	12	3 3 3 4 9	Virgo.	В	B	В
	13	15	Virgo.	В	В	В
Inly.	1.14	1.7.	Libra	Lant 1	100	13000
of and de non	1 15	to after	Libra.	EL SOB	PK9III-	
20-21-12	16	18	Scorpius.	101.01475	G	G
SATTE STRATE	1 17	10	Scorpius.	to dist	G	G
Auguste.	18	102 -	Scorpius.	45 BA B	G	G
Dally Day	19	1000	Sagiotarius	G	9 20 (5)	G
sout souly de	20	131	Sagittarius.		TO THE	G
COUNTY IN THE	21	1005	Capricornus		B	В
Septembre.	2.2	150300	Capricornu	6 B	B	B
TO BE SEED	23	16	Aquarius.	10000	Though .	G
Ianua. Octo	. 24	8	Aquarius.	35.5	8 53 A	G
	25-	of the let	Pifces	7791 925	10	0
OF THE PARTY	1 26	19	Pisces.	1.37 80	10	G
PERCENT I	1 27	11	Pifces.	STEP 1	G	G

The Generall Kalender.

Sche out bnoer the ticles of the Ponethes, the name of the moneth, whole day you mult tooke outright agapust the moneth, bnoer the title of dayes, or there begin to tel downwards 1.2.3. oc. to the end, if it so require sand then fro the beginning if neede bee, butil you have reckned the nomber of the day that you leke. Loke what nomber to falleth upon in this table under pouleke. Loke what nomber kepe in mind. Then seke under the title of the Prime, the golden nüber so, the yere right against that lestward under the titles of Dayes, beginne to tel downwards 1.2.3 oc. butil you have reckned the number which you did keepe in mind. Against that cowardes your right hand under the Title of Dignes is the signo wherin the Pone shalbe of day. Even then under the other titles, yee shalf ynde mrighte droze for Letting blood, sor Purging and Bathing, arcording as they be noted with G which is good, and B. signifeeth bad.

Ensample.

The firt day of Parch in the pere of our lost 1555 I defire to know what celekiall ligne the moone both then occuppe I find first the name of the Poneth, his, Parch: and the vape as followeth, in the next oper of this table. I beginne here to tel right against my moneth, at the figure of 2 saing 1.2.3. c. so I have at the ende, compte of size dayes this figure 7. which I kepe in mind. How I must seeke out the Golden nober so the pere asopesaid, where the citles the Prime here, his 17. against the which on the lest side is 6. There you must begin agapne to compt: 1.2.3. c. butil you come to your nomber 7. So on youre right dand in the row of ofter you shal see Virgo, the Celestal Signe that the Pone is in and after hiele three letters which declare dad of euil to let Blood, to purge of Bath agreable to the titles in the head G. there had signified good.

A Foras much as letting of Bloud, Purging and bathing. Inundations: flows. Cimber falling, Sowing, plating, Grafling, cutting &c. depend chiefly on the Signe whering Poone is, which A have even before plaintye opened, A thoughte it, meete to have them now orderly touched, as followeth

A con-

alma

Et blouve ac no time without greate caule, foz it bzingeth Malum minui weaknes and many infirmities. If ye do fee it be after good Digettion, & falling in a faire temperate bap beware befoge of pore caloris al maner exercife, Bathings, watchings, & carnal copulatio propter defe-After ble fine meaces of light digettion, abitaining from al p afozelaid, butil the fourth bay.

velpurgationibus vti ,teme ctú hum oris

Chele Signes are most baungerous foz bloud lettinge the I to let blond Moone beingin the. Taurus, Gemini, Leo, Virgo, & Capri- my cornus. with the last balfe of Libra and Scorpius, The rest are all good :fo the Moone beare no Dominion in that member which recut. As followerb.

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Delies tipt 3 Days as e to tel ac [03] E diide foithe againt apar to nyoste Ctieettitis hague-

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Profitable Rules

THE

The Dominion of the Moone in Mans Body.

Aries. Taurus, Gemini. Cancer. Leo. Virgo. Libra. Scorpius. Sagittarius. Capricornus Aquarius. Pifces.

Dead and Face, Mecke. Armes. Danves, Shoulvers. Bjell, Stomacke, Ribbes, Bart, Backe. Bowels, bellp. Raynes, Mauill, Buttockes. Decrete members. Thies. Knees. Shinnes, Legges. Frete.

MIS,

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Romebechaunge to to the first quarter, a meete time to let poung men blout. From the firft Quarter to the Fall, good for mionte age. Reom the frute the laft Quarter, apt for agen folke. From the law quarter to the chaunge, bell for alo men.

Libra Hæc diligetif-Aquarius fime lobseruare oporterfolene Cancer Medicum! nifi Scorpio majora pericu-Pifces. la cogant

Aries.

Signes meete for the Complexions. ? For the Fleumatike, the bear and this er-Sagittarius. Scepted.

I For Pelancholike: buttockes and legges 'excepteb.

2 for Cholerike breatt, members and frete ercepteb.

For the Sanguine, all be apt that tofore be na med good.

In the foring time, let bloud at thy right fpbe. In Paruetteime, at the left lyoe.

The learnen Philition wil confiner , befpre all chat is fapo. the Confunctions, opposition, Quavat aspects of the Planeig

nets : with many other thinges, Aftronomicall, most necessary both in Bloudletting, Burging, Bathing, ec.

For to take Purgation, and to Bathe.

The meetel time to take purgation ac. is neither in botte not cold dayes, that is from the centh of Barch, to the rit of June.

further by rules Aftronomical, it muft be performed whe good to purge the Boone is in celd, mopli, and watt plignes, as Cancer Scor 5 m %. pius: and Pifces : comfosted by Afpectes and radiations of Pla necs, fortifying the bereue of the body expulling.

The Moone in Aries, Taurus, Capricornus, naught. Dne Bad to purge caule of bomitting, the Purgation is, if the Boone have af- You.

pect to any Planet retrograde.

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The Poone inchele Dignes following, verp'good to Bathe Good to bath Aries, Leo, Sagittarius, Cancer, Scorpius & Pisces. Thefe enfuing are eutl to bath Taurus, Virgo & Capricor Bad to Bathe

mus.

Of Inundations, or Floods, of Timber falling, Som inge, Planting, Graffing, Heare clipping, Shauing and Gelding.

De floud is biggeft at & full:becaufe then bifperling ber bertue , the filleth all places in moiffure: Be comon experience, forned with learning I knowe at & ful f Bone loveth all bodyes with humors, & fo are emptied, growing to the chaunge. Of this fome gather the fall The fall of of timber at the chaunge, moze to the purpole then other times wanting then superfluous mopliure, the cause of putrefaction. Omnis putredo ab aquao humido ortum habet. Schoner willeth from the 13. Day buto the. 22. Day of the Moone, trees co be felled, & charafter Wiolomer to January . So timber is frong founde, and boyd of wormes.

To Som Taurus, Cancer, Virgo Libra, and Capricornus Good to fovv.

are belt in the increase of the Moone.

To Plant og Graffe,is beft, when the Boone bath ber being, in any fired figue, either in Taurus 03 Aquarius, in the encreale To plant or

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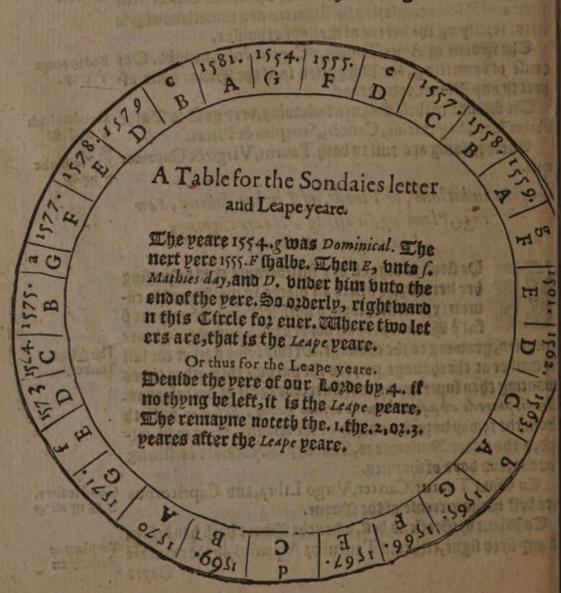
Profitable Rules

Paire ent groweth wel, the Moone encrealing being in Tau

rus, Virgo or Libra..

Cutcing, hauing, clippinge in the wane causeth balones, what is then cut groweth little. Caluicium prohibet oleum Tare eari The vest time of Cutting is in Cancer, Scorpio or Pisces in the wane

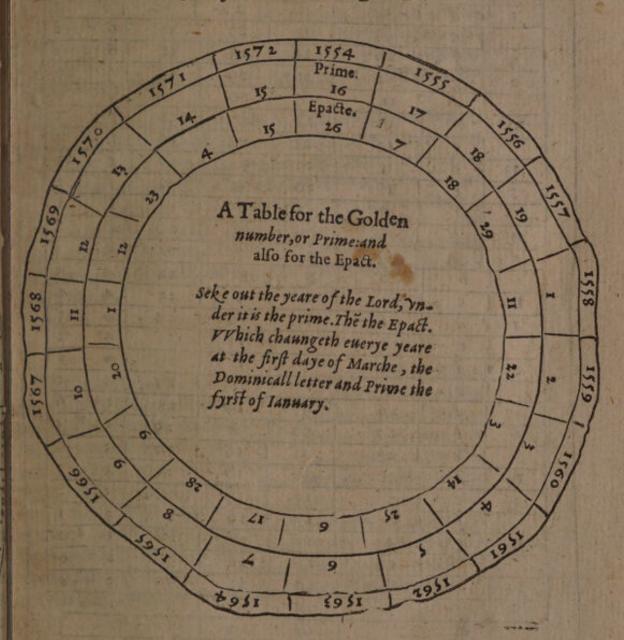
These two or ounde Tables that now ensue conduce to the rest following.



hTa

ins,

n Tan Piku When yee have gone rounde about the yeares, of these two Tables, begin againe.



		1 2 1					-
The	The	The first	Easter.	Rogas		Betwix	
prime.	fondaies !	Lent sons	daye.	tion.	fide.	whitson	
	letter.	daye.	11/2 7 100	to transit	1	o mids	
16	1000	Februarie.	Marche.	April.	Maye.	wek. date	es
5	d	8	22	26	10		3
100	e	9	23	27	11		2
13	F	10	24	28	12		1
2	The state of the s	11 - 31	25	29	13 .		0
	g A	12	26	30	14	-	6
IO	В	13	27	May . 1.	15	5	5
127	C	14	28	- 2	16/	5	4
13	d	15	29	3	17	5	3
7/	e/	16	30	4	18	5	2
27	F	17:	1,31	IST NO	19		1
15 6	g	18	April. 1	6	20		2
4	A	19	2	7	21	4	6
	6	20	3	8	22	4	5.
¥2 [C	21	10.43	9	23	4 4	4
I	d	2.2	38511	10	24	4	3
	e	23	6	II	25	4 :	2
9	f	24	7	I2	26	4 1	1
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17	A	26	9	14	2.8	-	6
6	ь	2.7	IO	15	29	3	5
	C	28	11	16	30	3 4	4
14	d	Marche. 1.	12	17	31	3	3
3	e /	2	13	1.8	Lune. 1.	3	2
7	f./	3	14	119	2	3 1	1
II I	ig	4	15	20	3	3 0	
	A		16	21	4	2 6	5
19	8	6	17	22	6	2 5	
8	c	7	19	23	6		1
BILLI	d	8	19	24	7	2 3	3
William I	c	9	20	2.5	8	2 2	2
	form	10	2.1	26	9 1	2 1	1
	gl	11	2.2	27	10	2 0	-
-	A	12	23	ZR	11	1 6	
	6	13	24	29	12	1 5	_
1	C	14	25	30	13	1 4	1

Total material state of the sta

distribution of the state of th

The vse of this Table appoynted for the moueable Feastes.

This Cable containeth in the firtt Citle the Prime:in the fecoud, the Dominical letter : in the third, Lent, in ffourth Cafter Day, in the fift, Rogation Day, in the firt Umbitfondaye: in the feuenth, howe manye Weekes and dayes are betweene Mhitlenday and Widlomer. Which al appeare by theire Ti-

gles. De hal confider by the little round Cable befoge put foogth, what nuber the Prime is that yere, wherof ye befrze to know att thele afozelapo , and feeke that nomber bnber the firft title of this table enfuing. Then feeke under the fecond the Domis nical letter nertafter the Prime for that pere, whiche title enfueth the Payme. Directly agaynft the fame vominicall letter towar des your right band in the fame lyne, pe that fynd buder the titles, what Moneth and day senery one of thele aforelago hall happen.

Ensample.

I would know this pere of our Lozo. M.D. Lat, thefe moneable feattes, the firft Lent Sonday, Cafter bay, Rogation bayes, Whitfonday, and how many weekes betwyrt Whitfonday and Wiolommer day . First Ifyno the Primethis yere rvif. which rvii. I loke oue vnver the title of Prime in the Cable befoge. Then I feeke in the next ogder (and after the Prime for the Dominical letter that pere. Row in right ogber , according to the Citles. I fynd the third of Parch to be the first Lent Sonday: the pitti.of Apptil Calter Dave: prip of Bay, Ro gacion, che ii. of June, Whitfonday, and ift. wekes & one day betweet a hitlouday and Piolomer day, Thus for ener,

The	The	The first	Easter.	Rogas	whitfons		
prime.	fondaies	ANY VIOLENIA AND ADDRESS.		tion.	[tide.	whitso	
Primer	letter.	daye.	(1) " \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	the base of	The state of	o mid	so.
16	1000	Februarie.	Marche.	April.	Maye.	wek. da	ies
5	d	8	22	26	10	6	3
1000	e	9	23	27	11	6	2
13	f	10	24	28	12	6	1
2	18	11	25	29	13 .	6	0
- 1	A	12	26	30	14	5	6
TO	В	13	27	May . 1.	15	5	5
7-17-	C	14	28	2	16	5	4
13	V d	15	29	3	17	5	3
17%	e	16	30	4	18	5	2
21	F	17.	131	15 A	19	5	1
15 6	g	18	April. 1	6	20		0
4	A	19	2 2 1 1	7	21	4	(
ALL A	6	20 1	3	8	22	4	5
¥2 [C	21 5	10-4-5-3	19 35	23	-	4
I	d	22	40511	10	24	4	3
ALERIA.	e	23	6	II	25	4	2
9	f	24	7	12	26	4	1
	g	25	8	19	27	4	0
17	A	26	9	14	28	3	6
6	ь	27	IO	15	29	3	5
NO.	C	28	11	16	30	-	4
14	d	Marche. 1.	12	17	31	3	3
3	e /	2	13	1.8	Lune. 1.	3	2
1	f	3	14	119	2	3	1
AI I	ig	4	15	20	3		0
	A	5	16	21	4	2	6
19	6	6	17	2.2	5	2	5
8	c	7	18	23	6	2	4
2001	d l	8	19	24	7 1	2	3
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THE REAL PROPERTY.	Je 1	10	21	26	9 1	2	1
-	gli	11	2.2	27	10		0
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	.6	13	24	29	12		5
7	c	14 1	25	30	13 1	1 4	4

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The vse of this Table appoynted for the moueable Feastes.

This Cable containeth in the first Citle the Prime:in the fecoud, the Dominical letter: in the third, Lent, in ffourth Cafter vap,in the fift, Rogation vap,in the fire Whitfondage: in the feuenth, howe manye Weekes and dapes are betweene Thickonday and Diolomer. Which al appeare by theire Tigles.

De Gal confider by the litle round Cable befoge put foogth, what nuber the Prime is that yere, wherof ye velyze to know all thele aforelago, and feeke that nomber bnder the firft title of this table enfuing. Then feeke under the fecond the Domf. nical letter neptafter the Prime for that pere, whiche title enfueth the Pryme. Directly agaynft the fame dominicall letter towar des pour right band in the fame lyne, pe thal fynd under the titles, what Moneth and day , enery one of thele afogelago hall happen.

Ensample.

I would know this yere of our Lozo. D.D.L.T. thefe moneable feaftes, the firft Lent Sonday, Cafter bay, Rogation bayes, Mhitfonday, and how many weekes betwyrt allhitfonday and Midfommer day . First Ifynd the Primethis pere rvif. which rvif. I loke out buver the title of Prime in the Cable before. Then I feeke in the next order (and after the Prime for the Dominical letter that pere. Row in right ogber , according to the Citles. I fynd the third of Parch to be the first Lent Sonday: the pitti.of Apptil Calter Daye: f rir of Bay, Ro gacion, the ii. of June, Whitfonday, and ift wekes & one day betweet Whitfouday and Piolomer Day, Thus for ener,

How

Profitable Rules.

then the chaunge, and Quarter for euer.

First learne the Epact (as I baue instructed) for that yere po feeche to know the age of the Poone, then recken how 'many vayes is past of y moneth, which vay ye velyze to know y age. But that number to the Epact, Then begin at Parch and receive for every moneth from him orderly one, until your sayovay, including both the moneth of Parche, and also the moneth of your sayovay. Adde all these vayes unto your sommer number: putting away as many thirty vayes as ye synd. The rest is the age of the Pone. The age sound, the chaunge is knowen. If ye ave victory vayes to the chaunge, ye have the first quarter, then 7 vayes, and sommhat more, the west the Full: and so to se adving 7 and more, bryngeth the last quarter thus by 7 unto he new Poone.

Ensample.

The r. day of Ianuary, the yeare then being D.D.L.A: I delyze the age of the Poone, Ind the Epact butt Parche, ensuing to be rrbi-that added but o r. maketh frevi . theu pt. foz the monthes from Parch to Ianuary, including both Ponethes, bringeth rivit, now thirty pulled away leveth rbit. the age of the Poone.

Now ensueth two perfect tables declaring the true hours and minute of Ebbing and flowing in most Coastes of England,

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When you wil know the ful Dea, feeke out the name of the De Chbing place, where you befree the ful water in the head of the tables: Dy learne the popules of the compalle there noteb: Dyif pou lift, kow of fome Bariner, what Boone Baketh a ful fea there:a fouthweff og South Boone.gc. Then the age of the Poone found under the place or point of the Compatte the weth in right ogder the houre and Minute of the full Mater. The Ebbe then is manifelt.

a Flowing.

Enfample.

I velire to know the Ful water at London bridge, the pere of our Lozd 1555, the 6. day of Februarye, Afinde by Rules before put forth, the bi. day of February, the pere aforelappe, the Moone to be 14. bapes ols. Tiee also buver the title wher Lon bon is S. W. which lecters lignify that a Sowthwell Poone maketh a full Dea, there, and that is at two of the clocke, end rif.minutes paff. This is wel perceived in the fpift Table before put forth, if you runne downe to the 14. Day of the age of p Poone under London title.

A Note of the Houre of the day and night .

The ingenious may gather neceabout the boure of the day and night by the Moone: confideration had of the points in thole Cables of tides befoge noted, for the bour is ogberly put

under the pointes of the compalle,

Guery partoz point contayning it. begrees and : this compalle is wel figured nere about the Centre in the inftrumente following for the night howee, because pe may by it have a des lectable large vie of thefe Cables.

How by the first of the tyde Tables, ye may readily know when the Moone commeth unto the South , when she riseth and setteth: with her continuance on the Earth.

S Ceke the age of the Boene (as is opened) then refort to the first Tive cable looking out page there: So buder o South point in right oaber the houre appeareth, when thee commeth bnco the South. Then bath the lpeut balf parke, pthe Sunne would bave had in that figne, which pulled away theweth & rys fing that halfearke also added to her comming in to the South veclareth ber going downe. Che arke then p the Sine would have had in the figne , is her continuance on the Carth.

A Ta-

A Table at all times plainly and briefly declaring the breke of the day: the hour, & minute of the Sunne ryfing, the sufflength of the day, the length of the night also, the very mynutes of the Sunne setting: and the Twylight.

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	lay. M.	$\frac{3}{3}$ $\frac{5}{4}$	lay. 3 51 116	lay, 3 48 16 23	lay. 3 48 16 23 7	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	lay. $\begin{vmatrix} 3 & 51 & 16 & 17 & 17 & 17 & 18 & 9 \\ 3 & 48 & 16 & 23 & 17 & 37 & 8 & 12 \end{vmatrix}$	lay. 3 48 16 23 7 37 8 12 tinu	lay. 3 48 16 23 7 37 8 12 tinuall. 16	lay. 3 51 16 17 7 43 18 9 tinuall. 10 2

Onlider the Moneth and day, that ye require any of the tofore fayd: and feke in this Table that same under the title: procede in ryght ordre, so ye have your purpose. If the very day be not founde, take the nearest of your table.

Or by proportion the truthe is geven: whiche all by Ensample following shall playnly be declared.

Ensample.

The first vay of January. I octyze all the afozelayd: fis, the breake of the day : the very minute of the Sunne rylinge, the length of the bay, allo of the night, the Sune going bowne and the twilight. I finde on the right hand of January, thefe numbers running bowne.1.10.20. which declare the firft bay, the. 10: dap, and twenty of & Poneth, Row to my purpole, I re gupie the breake of the dap. ac. The first of January, in & table buber p title, on the right band of this figure. 1. I fe. g. boures and.54. minutes p is. 6 of the clocke wanting. 6. minutes:the rilling of the funne in pogoer, is iuft at8 as this figures8. there beclareth bioer that title in the rome. The length of the bay. 8 boures, the length of the night. 16. houres, the Sun fetting is at.4. the twilight, at. 6. g. 6. minutes. Guen thus for the tenth Day, and also for the ewenty of that Moneth, in the rowes accolding to their titles in the head of my tables.

How toworke by proportion, when the day is not

founde,

I Mould know alth'afozelaid, hielt day of January. I take for enfample the breake of the day Remeber the fiell day of January, I vio finde the breake, to be at. 5. of p clocke, and. 54. minuces: and the teth day I may finde the break of y day to be at.5.4.44.minutes, f is.10.minutes leffe. I fe now 10dales do gene me 10 minutes leffe. I fay therefore by proportion gufth day mult gine 5 minutes leffe the 5 boures 54. minutes whych is 5 houres 49 minutes my request. Thus for al p other titles.

The houre of the night, by the Moone, is etherwise

founde then before, and thas

diner fly, The houre of her rifing knowen as is opened a marke the Horve by the made wher the thadoweth in any true fixed of monable fu Moone the Dial, y boures and minute from that marke al the Might af- night houre ter, are to be added to her riling If moje the, 12. furmofit only p aboue.12. Heweed the true houre and minute. If at the riling the may not be fene, the by the Sunne ryling, in y very Signe (with f belp of this Almanack) pon may percene what houre the would note at hir riting. Ther foge frog mark cont:

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Profitable Rules.

An other waye.

When the Poone is at the ful, loke what houre her Madow the weeth in any Dial, that is the houre of hight. After the be past the ful. 28. houres, ye must adde one houre. But afore the ful, pul one from hye find in the dial. If twice 28, two houres gc. So have ye the houre of the night.

Howvethe houre of the day by Right shadow, that is by any thing directly standing up is knowen and by squyre shadowe also.

I Irff it behoueth you to have a ftaffe og any other thing benived iniz:equal parts. Cothen pe lift to baue the boure fes by virectly your deviced Caffe, on a plain level groud or bous rve ac. Note the iust length of that shadow, what parts it cotaineth. With thole entre pour Moneth in the Peculiar Kale der folowing, beholding biligently under the name of b moneth the smal enclosed tables: colidering wel, which of those fmal tables are nerell buto your day: & that funge by f figne or day ther noted. That table ferueth your purpofe: where you must looke out the parts of the shadow afore found, or neare unto it under og over the which the hour is fet, befoze og after noone. Rote p two pricks ther liquify half a part more the is noted: one prike, half a part leffe. Dere it is alfo ico be noted ?? every table hath within two rowes of figures, the upper is for the Staffe, the other for the Iquire Gabow And whatfoeuer is before fapo of the one that fame is ment here of the other , fauing of the composition. The squire must be beuived from the inward angle to the end of one five, in. 12 equal parts, even fo fro that angle thother five into. 24. like parts las this figure theweth,

The Coposition of an Instrument for the hour of the night which is also a parfect Dyalfor the day and excellent

for the Mariner.

The taking of an altitude su pposed I could exactely in few (and that without an Instrumet) satisfy. For want of that knowledge make upon a plain bourd or rather sine place acie clethe bigger the better, part it into 360, portions.



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The Circle made divide it in 6. not moving the copalle :then everyof the in. 6. and ech of those last in. 10: so have you. 390. parts. Then caracter, it beginning at the Morth thus 10,20. 30. It as in the figure going toward the Cast, tending at the Morth with 260. Now lay a Ruler on the centre, even with some divisions, drawing thorow to the exceemes of the circle a line. Then crosse y with an other. These two must deupote your circle in. 4 equal parts: which lines the weth very Cast West: Morth and South, when by a Heriotane or square Dial, with a nedel rectified, they are placed.

Mow coend feta fmal Areight wire, a foote on more long to a Clane in the coppe, plumbyright in the centre, ther falle it.

Thus this Intrumet is finithed, to befire about your boule, Equidiffat of leupl w the Horizon having a nevel three lyth in it, trewly to place it, when and where you will.

That it may be also a Diall for h day, you must put straight lines from the extremity of your circle outward, to enery sifteth partdecking the w Characters conveniently as pe fee the figure, your rule keping the Centre thus whan the Sunne shineth, the shadow of the wyze, sheweth the true hours: the Tane, h winds. To being truly placed, wel placed, treed, as followeth. The points of h compasse are drawen wythin the circle, t about the centre Every point containing. 11 degrees and 1. The instrument as ye see inclosed round about wyth a square: so, the mariners aide.

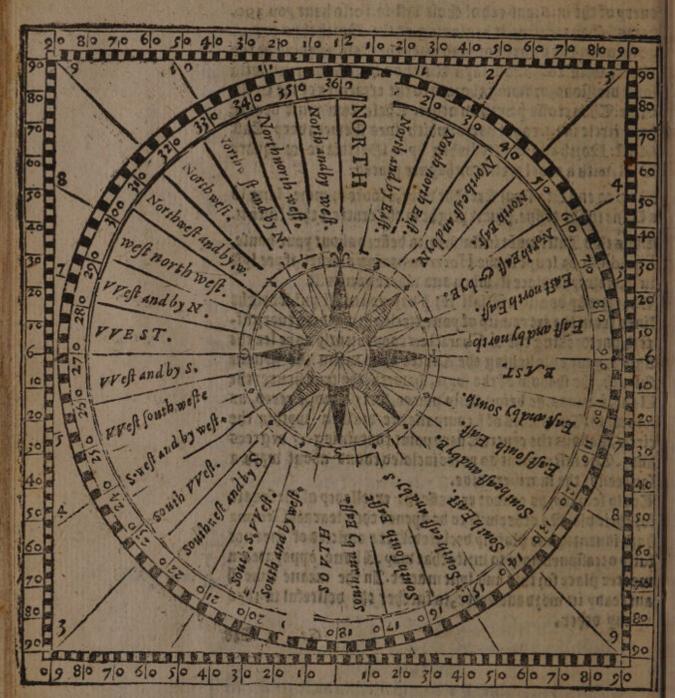
Truly few words cannot expresse the excellency of the square for their vie. No other wise to be opened then learned Gemma bath invented and plainly declared: Here omitted of mee not fully occasioned now to write that way. I have appoynted a meeter place for this and lyke matter. In the meane time I am ready in wordand deede to further the desireful in these or any other.

G2. The

Levolde this to frances for mail gotton being commonlioner

etterile af which is best one I purposed with the

Profitable Rules.



Beholde this Instrument for nauigation most commodious, the vse of which is here onely put forth according to my Invention.

如如

The right reving and placing of the Dial tofore mencioned

Ift by handlomely your Intrument of Dial to. ward the Mosth in some mete place, the five of a laupze lpinge on it, bntil the plumet & line, cetred in the extremebpper part of the other fide of In winter the pour fquire like longe, cut at p fquire lide, which

Tyeth on your Inftrument, the fifth parce onely except: Then plain theyverh moue pour Intrument, bitber & thitber, this og that wave, the day houre butill the Carowe at the wyze fall byon the boure of the day, keping biligently your beight befoze: pour bial thus fired declareth al the yere long, the eract hours & parts thereof. Mo Dial incruth excelleth this. Daue in remebrauce, that thes instrument must be levell nothing at all rered, for the hours of the night by Carre.

To get the exact houre by two Starres of the first light, with an Instrument or Circle, to fore devided, arft of me invented, calculated and practifed.

The inftrument, equivifiantly fee a placed as is veclared in the composition, ve ought to lay the edge of a thier buto b Migre, the other neither end touching the Inftrument, mo Fit filo aut dia uing here and there, ftil touching the wyze, until either Star giro, abique Doeth offer it felfe with that eoge, and f by the Judgement of fime, the epe. A ben put bowne discretty pour ruler seuer touchinge p wyze the binder end not moued, observing bow many parts are cut from the Marth, to the roge of the ruler, Enter wyth them the Peculiar Kalender following :feeking jouce poure Moneth, placed in the miones of enery Cable:then the day of that moneth mult be there found.

Rote that enery table bath on the lides, the daies thus orde red. 1.5.10.15.20 25.30. Know popter of row of figures which is right against, or nerest your day ferueth the turn. The nubee or parts before cut by the Ruler, and now fould in y row of pour table, the weeh the precife boure. If it be to title, p houre ouer the bear or buter is not yet come if contrary it is patt.

G3.

contrary fu-1 perficies or

egula exactus

Profitable Rules

How these two bright starres being of the first light are founde the one called Aldebaran or oculus

Tauri, the other Alramech

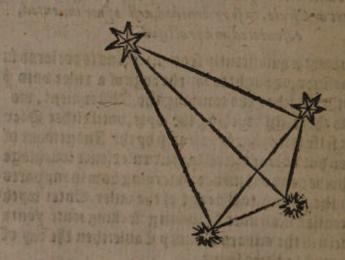
By what meas westhese Sters tes are knowen:

The best way is thus. The Poneth and day knowen with per true how, e of the night, entre your Table considering that Marte and day observe what partes belongeth there to that starre a how, . Then resort to your Instrument, laying the edge of your ruler, as many partes fro the North. Eastward circumspectly lifting up the edge close by the wore so the spire spire shineth even with that edge.

Or thus Grofely

Another vyay to finde theim.

Oculos Tauri is ever a meate roode and a halfe to the eye under the 7. Starres & somewhat Rozth of them in the rifing Alramech is contrary to him placed accompanies with a little dimme Starres a roo from him by the inagement of the fighte in the forms of a Triangle thus.



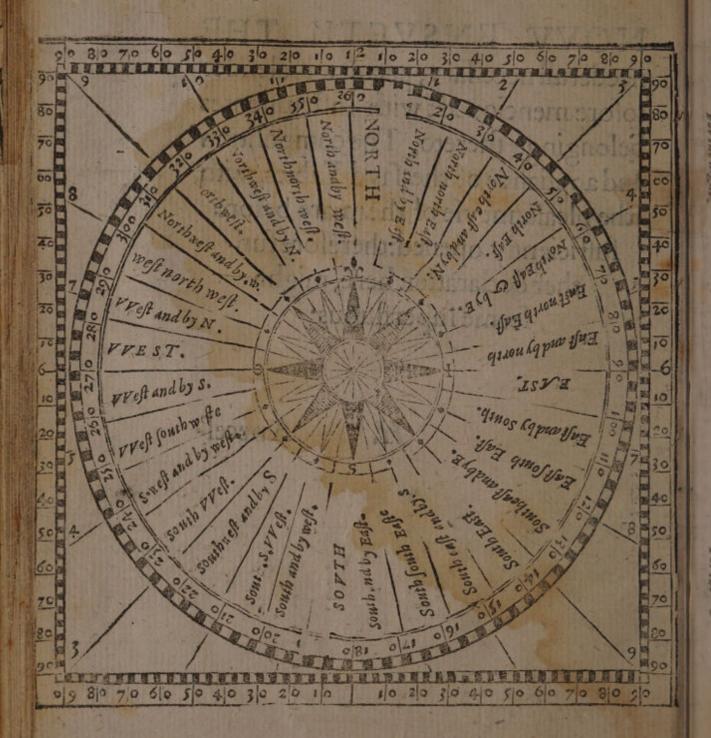
Behold this Figure, the great Starre doth represente Alramech, the other thre the Triangle which is placed alwayes with him, but commonly there doth appear re but one Starre of the Triangle. ight Is interior de la constante de la the ri with 3 of the e wed

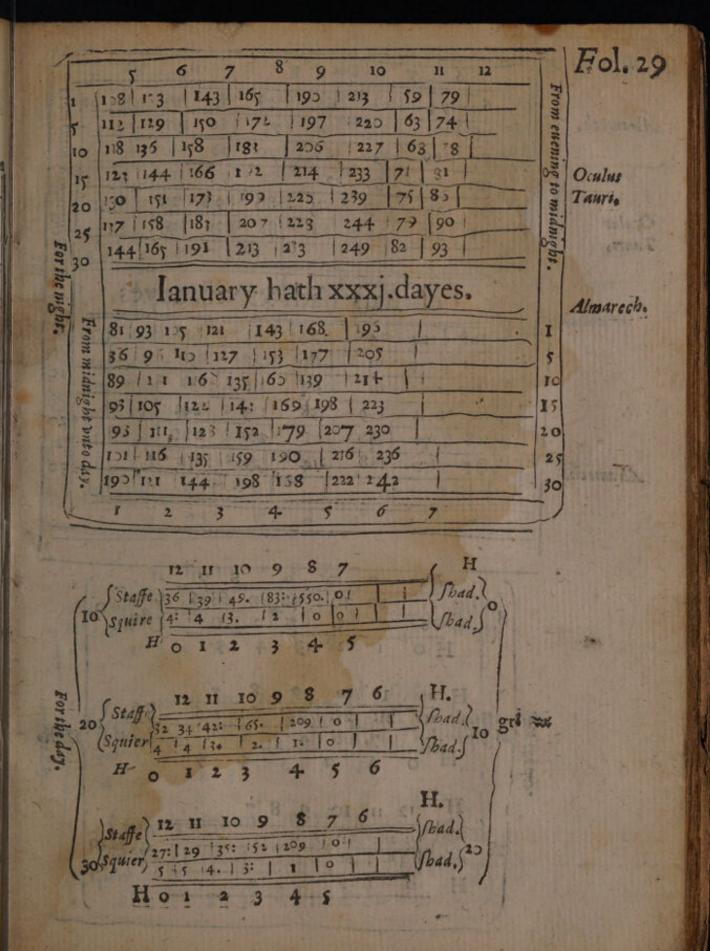
ne 10

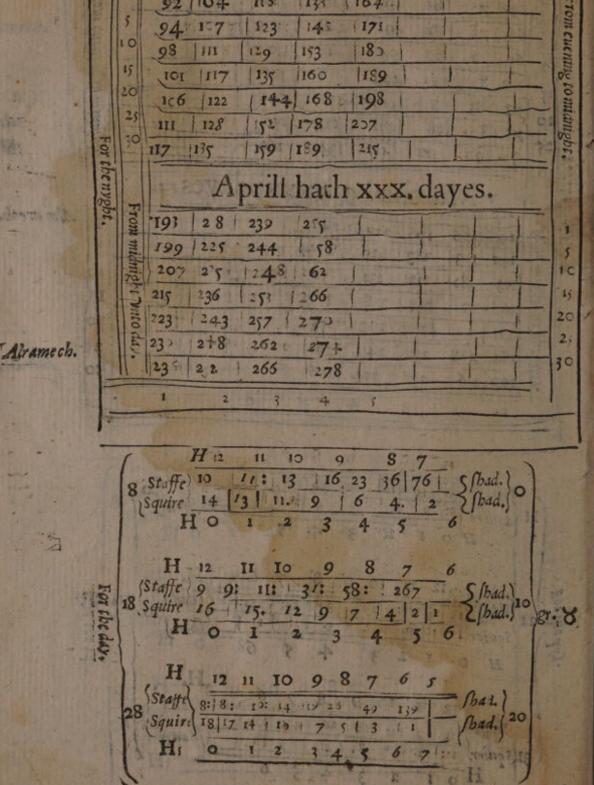
needefull necessary, peculiar Kalender to fore mencioned: with Instrumentes belonginge thereto. The composition and appliance of the sayd Tables, with the pleasaunt vse of them, are before sufficiently opened: therefore further declaration here, might seeme superfluous:

H. Aneces-

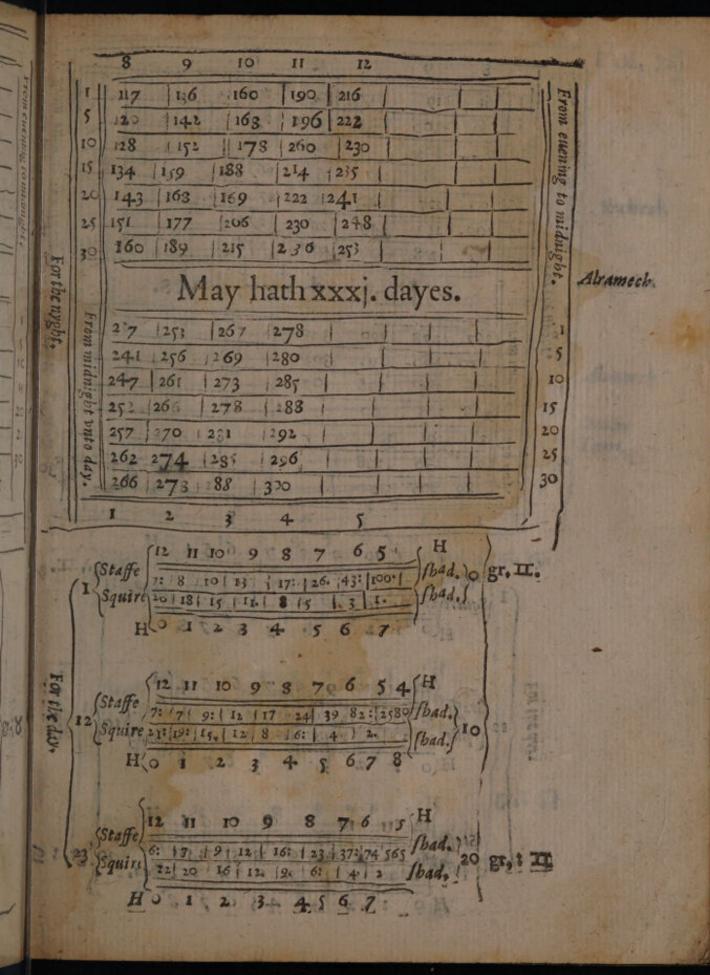
of the day, and night divers vvayes, with with helpe of this Peculiar Kalender.





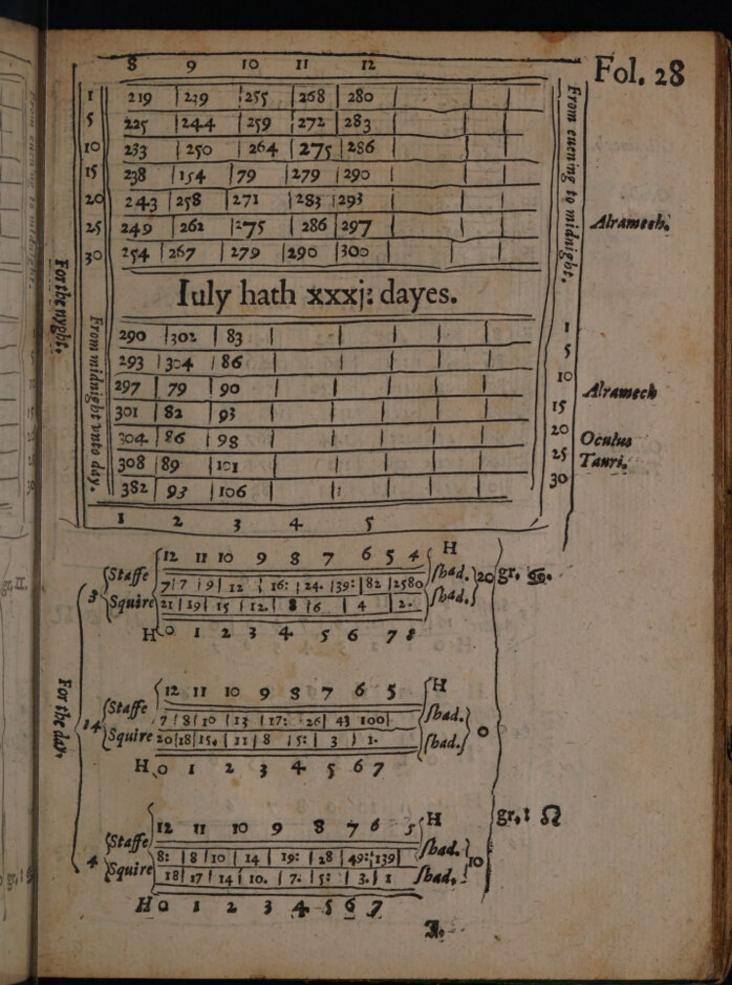


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Alramech.



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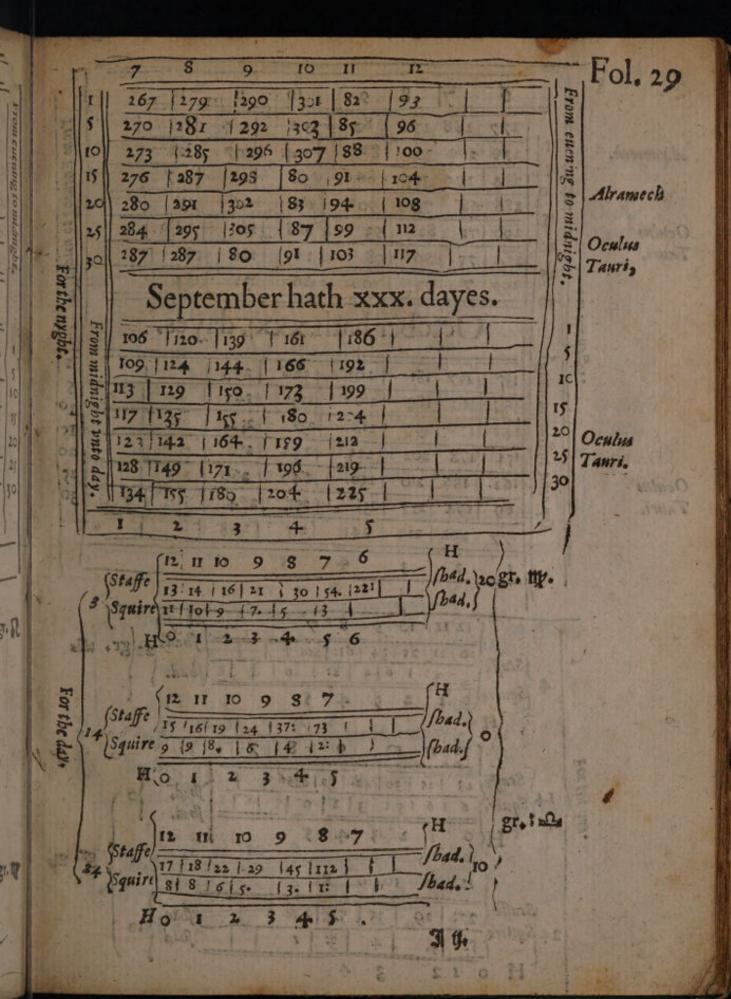
Oculus Tauri.

Alramech.

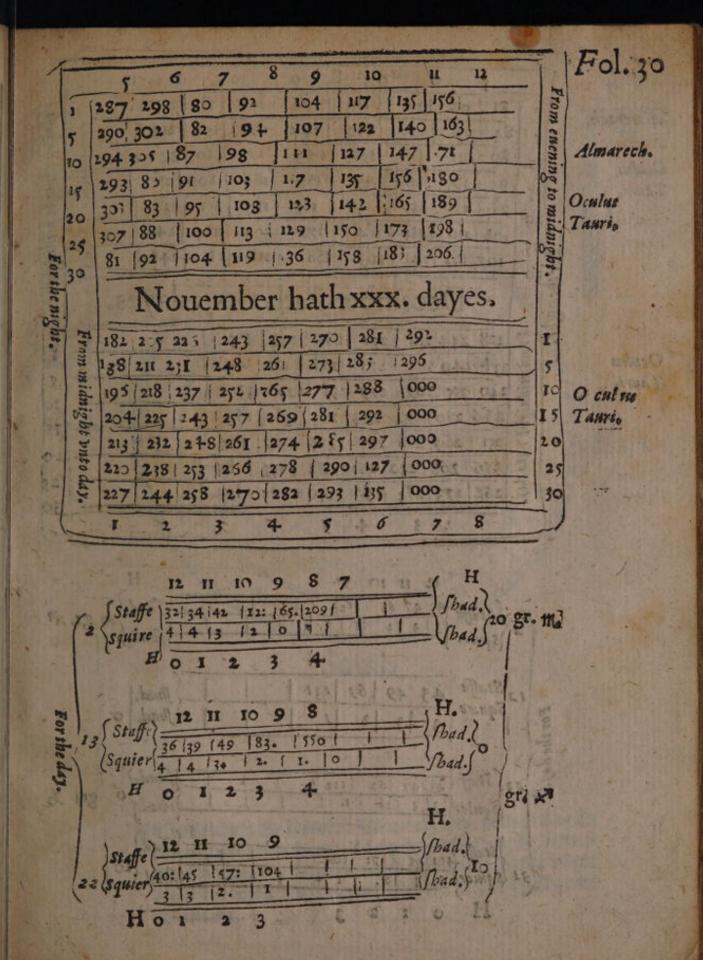
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Tauri.

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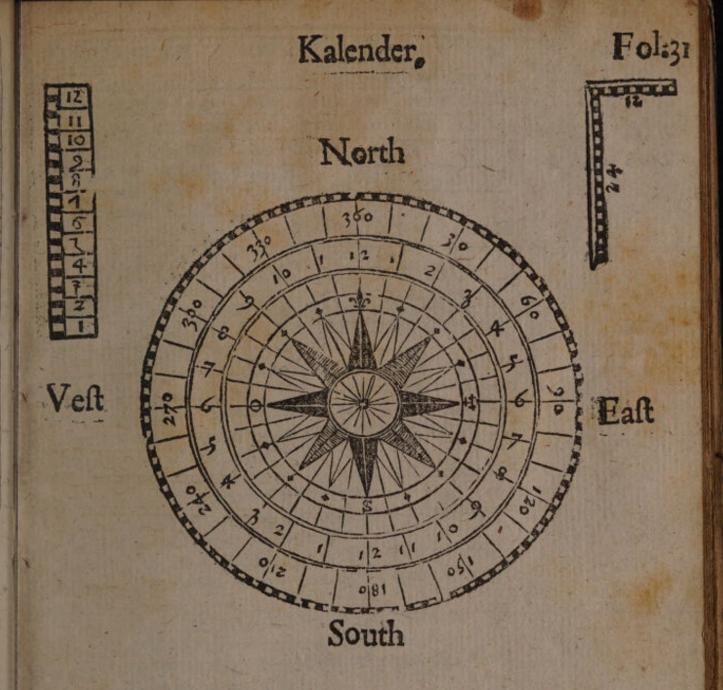
gri 3

12 Staffe Squire

H

22 | Staffe | 43 | 47 | 162 | Squier | 3 | 3 | 12+

0



Thus enveth the Peculier Kalender, bery commodious for the day and night houre. I have here adiopned the Instrument without the Square, which may suffice, for the whole ble of the toforesaid Kalender, with the help of the Squire and Staffe.

A to 30 comb entry nates bayes Cate Ma His pil. In A the pall the Section No. Matter No. Mat of other empty the Frankrichteners, beirgenande por color of the color 東田

A general Prognostication Fol.35

Day not here omic a Ralender generall benived in it. part wherofthe fyzit contagneth fice Donethes, from Januarpe to June. The fecond other fir Monethes from Julpe to December. In this Kalender are let forth the Fellinal Daves, the entryng of the Sunne in the Signes Celeffial, the euil Dafes noted with one Dricke. For a further veclaration of thofe euil! papes, reade this following.

The yeare bath xxxiii, euil dayes generall for ever

Anuary hath eight fach bayes, the i the ii. & iiit. the vither the puthe potithe pip. Dinke white wyne this Moneth.

February baththree'bayes, the bill. the r.the poil. thefe not fo entl, the proi. o proii. the proiis

Sate no pottage of Dies of Ballems: They are benemous. Marchthree papes, the rb.the rvi.the rip, thefe not fo euit, the prviitibay. This moneth, all fweete meaces are good .

April emo vapes, the rot the rri thefe not fo enil, the bit. the

biit. the p.the pp. Ale bote meats oflight bigeftion .

Mayorhee dapes, the blithe puthe prthele not fo enil, the

ffithe vi. Rife Carly, and vie breakfaft.

lune two, the titi-the vit, thefe not fo euill, the r. the pi. the prif. Sage and lettufe are good to eate, Coloe water fastinge barteth not.

July two bapes, the rb.g rr,abstapne from carnalitey.

Aguil two dapes, the riv. the cr Thefe not fo euil the firfte the pric. the prp. It burteth not to abitagne from pottage, and all botte meates and dynkes of fpicerpe.

Septembertwo dayes the vithe bitthele not foeui', the tif.

the fuithe pri eace good fevic.

Oftober one day, the bi.thefe not fo enil, the iiii.the thi.the

priiti. Good wone is holesome this Moneth.

Nouember two payes, the ro the pip thefe not fo euil, the b. & bi.the prviii.the prip Bleeve not. December three papes the vi.the vii the ix. thefe paies not fa enil, the ro. the poil the prii. Bleve not onermutch. Marm not the legges at the fere, The

The first part of the generall Kalendar; from Linuarie to lime.						
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The Generall Kalender

Lothe Briefe vse of this General Kalender.

Patre the columpne wher pour Poneth is noted in the head, pee hall there fynde runninge downe the columpne the felling bapes of that moneth, the entry of the Sunne in the

Celefial fignes, the enil bayes paickeb. ac.

Mould have placed in this Kalender the Fayzes and Termes also, but that cannot remapne continual true: Foz those that ensue moveable Feastes are moveable, and thersore may have no certapne place, Foz the Termes, note these preceptes following. The Fayres halbe vectored by two Tables immeviatly ensuing this Kaleber general.

How to know the Termes. ..

K Rowtherfoje, that Easter Cerme alwayes beginneth the 18. day after Caster, reckning Caster day fozone, and endeth the Ponday next after the Assention day

Triniep Terme beginneth the Fryday next after Cotpus

Christi pay, and enberh the Alleonesbay forenight after.

Dichaelmas Terme beginneth the 9.02.10. dap of Dctober:

and enbeth the 28.01 29.0f Mouember.

character, p

Hillary Terme beginneth the 23.0124 vap of January: and endeth the 120213. Day of February.

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Generall Faires

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Fol 37

A Table contayning the Moneth, day, and Place of the principal Fayres of England to be augmented at pleasure in order, following. Almorate to be

be 6 at Brillow, at Dalifbery . The fielt of Lente at Tanuary. Erceter. alliane The southfully some so Dimen

The 2, bayat Bath at Bapolione. The 14 at Feuer- Februarye. Came. On Affreoneivape, at Lichfeelve, at Ropfion at Cam. morth. The first monday in Lent, at Ciffer, at Abington. The 24.at Benley uppon Chames, at Ceukefburp.

Eine bay at feuerfame, ne Dorffeber at B. Core at The 4 Sundap in Lene at Stanfogo, at Sudberp. The 5 Marche Sondap at Grantam, at Salifourp, the Wonay befoge our La op pap at Melifoteb Palme quen. Che 13 at Allpe. The 25. at Mozthampeo, at Great Chare, at Alaulven. Call. die folke

The 5 day at Mallingfogo. The. 7. at Darby The. 9. at Bickelfmozth, at Billingworth at Cafam the Monday after. The 3 Sonday after Bafter at Louth. The. 23 at Charinge, at 3p fmiche at Amtil, at hinigam, at Gilfogde. The 25.at Darby. The 26tar Centerden. - In marina Ell an agradioniona Dade

Charatalist Bittern injoin, as Dougt are Carte, Cope 26. The 1. dayes at Scome the olde at Reading, at Payolione May at Lepcelter, at Chenfford. The 8 day at Beuerley, Afrention bayat Birmingcha.at & Coes, at Bifbops Statfojb. Wahit fondap, at Kingfione bypon Chaines. Czinity Donday at Ro well, at Cranebicke, the 16 days. The 17. day at Lennam, 101

Da Corpus Christi bay, at Couentry &. Ches, at Billiop Iune. Stanforth, at Rolle the 9 at Paiolione. The it at Okingant: The anachhomfourp, at S. Albons. The 24. at Cabringe, at Gloceller, at Lincolne, at Al Ainolog, Colebeller . Che 29. at Woller Pamcon, at Peterbozow. The 17 at Foll. Cone. The 24 at Pertiant. The 28 at hitcorne.

Generall Faires

AT able contayning the Moneth, day, and Place, of the principal Fayres of England to be augmented at pleasure in order

following.

be i i. day horfefapreat Partney, at Maboz, at Felip: the 12 Day at Lpo, The 2, at Pinchbacke. The 17. at Minch. com The 20.at Arthioge, at Cattelby. The 22.at Parbojow, at Mincheffer, at Colecheffer, at Tetbery. The 25. at Builtow, at Doner, at Chilham, at Ipfwich, at Mozebbamton, at Darby, at S. James by London, at Reading, at Louth at Maelfberp.

The i day at fenerfame ,at Donftable at S. Coes at But-August. forthat Parra Church, at Milbith. The g. at Rumnep. The tolat Bestozbat ferna, at Strobes, at Blakameje. S. Lau. at Malcon. The 24.at London, at Tewelbery, at Subbery, at Mozwich, at Mozehalerton, at Doner, at Rie. The 28.at All

> The S. bay at Cambginge, at Sturbzinge, at Lonvon in Southwarke at Smive, at Recolver, at Parenope iff. Labre Dapes. The 14, at, Maltam Abbeye, at Motton buber bebge at Smalping. The 21 at Cropson, at Bulben in Polbernes, at S. Comonofberp, at Maulton, at S. Jues, at balop Lanam at Mitemal, at Sittingbojow, at Douer, at Carie. The 29. - pap at Canterbury.

The 6. day at S. Sithes belyoes Morwiche, the 13. at Graues end, and at Mindlog at Parchfeld. The 18 at Glie, at Sta ton, at Charing. The 23. at Warfogoe, at Ciciter, at Memmar

The 2. day at Kingftone, at Blechingly. The 6. at Mempoze pond, at Standly. The it at Doner. The 13.at & Comonolvery. The 20 at Wyth. The 23. at Sandwich. The 30. at Rochefter, at Maydenhead.

The 29.at Canterbury . The 5.at Pluckley The 6 at Spal ping. The 7. at Sanderit.

September

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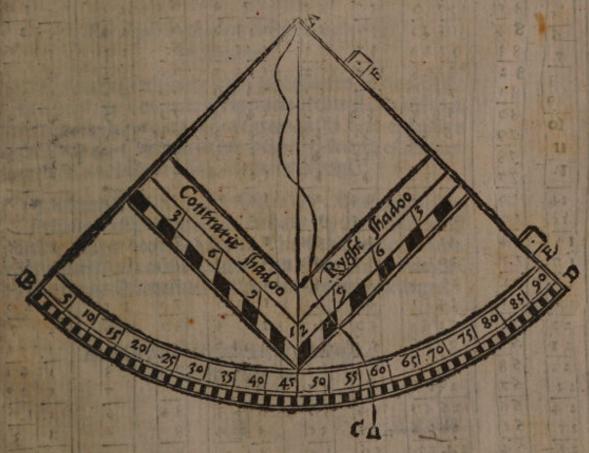
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調節

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Bebolde this inftrument called a Quadrant the iuft fourth parte of a circle euen fuch a circle as I taughte pou befoze to make forth night Diall contamning the fourth part of his vini fions, p is 90 begrees onelp ii fightes and aplume line abbeb, to be placed at the beginning of this booke, as ye maye there where fee. I have bere alfo put the Scale to the Quavante, which ferueth wel for hanows, and afwel for beightes. ble of this Scale is veclared in my booke called Tectonicon.



Alt by hanolomly pour Quantat & Sane beains perling & How by this fightes. The Plumet & Line then at liberty falling, notech Inflrumentto ther the degrees of beighte ar that prefent, with the which pee gertheheight . Balenter this table immediatly following, to get theu and in of the Sunne like mauer at al other times & inft hadow of & flatte of Squier at autimes, A Table.

ATable generall of Shadowes, right and contrary: for every grade of the Sunnes beyght: The thinge causing Shadowe, supposed 12 partes.

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the Sione,	1 12 (4 8 16 11	R the Sinnel	[[Spadow.]]	I the Sun-	11 Shadow

The vse of this Table, and Staffe Shadowe,

Ensample.

I Suppose the beight of the Sune taken by the Quadrant 34 vegrees, now A require the eract length of Staffe & Squire Shavow. For right hadowe, firll seeke out the vegrees in the lest parte of the Table, and under this title the beighte of the Sunne: If they be not in that lest rome vownewards, resort to the next rowe and like title, butill ye find the vegrees: then in righte order towards the righte hande, in the nexte columne budge the title of Staffe Shadow, are 17, partes, and 47. minutes, your desire.

For Squier Shadow, titled contrary Shadowe.

Sche your vegrees in the right part byward, at thys litte, Height of the Sunne, in the bottome of this Table, the shall pe since on the right hand of 34. vegrees, in the next Columne eight parts and 6, Pinutes: that is the very length of Squier shadow, when the Sunne is 34, vegrees in height.

Occasioned I cannot here omitte another Cable faithfully supputated for the Sonnes Alcitude, by the which wyth quick speece the hours is knowen. This Table conducteth manifolde wayes, vea to the Composition of divers and many In Arumentsias Quadrantes, Nauicles, Cylindres, Ringes.

Beholde now it doth ensue, and also the briefe wse of it.

A Table

L

A Tabl	le of the Sunnes altitude, for euery houre the Pole mounted. 51. degrees 30. Minutes, exactely calculated.	
Houres before n. Houres after n.		4 8
31-10-10	62 0 159 43: 53 45 45 42: 26 42: 27:	
	62 0 59 43: 53 45 45 42: 36 42: 27 23: 18 11 9 28: 1	31.
20 10 6	61 37: 59 21. 53 26: 45 24. 36 25 27 6 17 54. 9 9 1	13:
1 109	60 30: 58 17. 52 28. 44 32 35 35 25 16. 17 2 18 16. 10	OF
	0 30: 58 17. 52 28. 44 32 35 35 25 16. 17 3 8 16. 0	16:
The second secon	53 42 56 3 4 50 55: 43 6. 34 13. 24 56: 15 41: 6 50. 0	0
The second secon	57 34.	EU.
1 201	66 17: 54 15 48 48: 41 10. 32 22. 23 6. 13 50 4 55: 10	0
1-1-11	53 21: 51 26: 46 12: 33 46: 30 6. 20 52. 11 34. 2 34. 0	-
The second of th	51 43:11	
Ololin	10 0 1 44 11. 43 11. 35 58 27 2 - 18 1 8 591 0 0 1	19
	46120114 4 27 20 27 102 20110 102 10	
	44 25: 11 11 11 11 11 11 11 11 11	200
	12 23: 4 > 51: 35 18 29 34: 21 24: 12 25: 3 6. 10 =	Edf.
1 13	40 20:	4 1
The state of the s	36 30 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	benthe Sun
201 113 3	34 32. 37 4 28 55: 22 38: 14 51: 6 7 0 0 1 2 = 5	bes
		a di la
5 25	28 4411 11 11 11 11 11 33 13 2: 10 1	CHI
Xiomio	2710 25 421 21 51:1 15 59: 8 34. 6 0.	cth
25 15	25 17.11 1 1 1 1 1 1 1 1 1 1 1	thez
15 15	23 39 22 22, 18 42: 13 1: 15 45: 100	28
10 20	20 43. 19 29 115 55. 10 23: 13 17 10	36
5 25	19 26:11 10 10 25 3 8	199
1251 15	18 18, 17 6 13 38: 3 13: 1 15.	ber
120 10	28 44	wreth the 22 grade of 65 he touchethour Horizon
115 115	2 21-11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	cib
10 120	15 27. 14 13: 10 52: 5 36. 0 1	ourk
71010	15 .	fortz
75101		COL

Collection Fol.40.

The briefe ve of this Table.

Cappole the beight of the Sunne taken by the Quadjaunte, eight begrees and 13.Minutes, the Sunne being in the beginning of Aquary, og Sagittarie-Afeeke and find in this Table and in the Row which ofrectly aunsweareth and 2.8 vegrees and 13. Minutes: that is agreeable to 9.023. of the clocke in the head of this Table. Therefore I pronounce that when the Sunne was 8, degrees and 13. Minutes in beight, en ering = 02 % it was precise 9.of the clocke in the morning, or 3. at after Moone. Thus at all times yee may knowe the fulle houre.

De map alle conclube the beight of the Sunne at al comes, the place of the Sunne knowen, and the houre. Mote whe the precife numbers either of beight,or begree of the Sunne are not found in the Cable, then make proportion according to b Difference &c. Practife better then many words openeth this. Pow to enve this matter, this following to him that hath ta Asd chefe knowledges I write.

Dato loco Solis & eius Altitudine, horam ipsam calculare.

DVc finum inuente solaris Altitudinis, in finum arcus semidiurni, & productum diuide per sinu: Altitudinis Me. ridianæ eiusdem Solis, & prouenientis inde partium numeri fumito arcum, quem tandem in horas vertas: Collectus horarum numerus quesitam indicabie horam:ab ortu quidem Solis, si altitudo fueritante meridiana, velab occasu, si cade Solis Altitudo acciderit post Meridiem.

NI D'we having fome occasion I could bere absoyne a briefe Supputacion Sinicali, touching molt workings Aftronomicall, but howe farre that patteth the capacity of the common forte of men, they that be transpled know. For this caufe Il leave to give any preceptes this way! beliring pronocation meete to baue to boe in the like:then God fuffering my penne

mal

Briefe.

Ball not fay to open ready cholen generall wayes, for plelaut Afronomicall operation.

Here thall now follow briefly collected certaine rules performed before by Tables: but now don by quicke supputacion, to be havin memory, by that anopdyng carpage or burde of bookes.

Prime without a Table.

A Doe bnto the yeare of our Lozo i.then benibe that fumms by 19.the remayne is the Prime or Golden number.

The Epact is thus ever founde.

Maltiply the Prime by redecide by so the remain is your delire. These two numbers begin at Parch, their vie is chiefly to finde, out the Chaung. Quarters, and ful Poone as ensueth.

A Rule for the Chaunge, Full and Quarters of the Moone.

Put buto the Gpact al the monethes from Parch,including the Boneth of Barche:pull then that fumme from so. the remayne heweth the day of the chaunge.

Also if the remain be less theurs. Subtract that less from 15, the rest is the full Moone.

If the remayne palle 30. lubtract it fro '45. then the ful both

alfo appeare.

To conclude, if fro the ful Poone ye puls, bayes, you have the change going before. The change had, the Quarters are knowen by adding or pulling away so dayes.

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For the age of the Moone, wworks

A Due to the vapes of your monethe the Epacte, and also as manye vapes more as are Ponethes from Parche to the Poneth, including both Poneths. Now subtract 30. if ye may she age then remayneth.

degrees the Moone differeth from the
Sunne, by which is gathered at all tip to the
mes the Signe and Grade where

Quotiente the weth the Signes that the Poone disfereth from the Sunne. The remaine augmented by
three bringeth degrees to be added. Demust put these
Signes and degrees to the place of the Sunne: the product, I
meane the increase of ende of al these Signes and Degrees,
in order counted from p Sunne, declare the place of the Poone
in the Zodiake.

The place of the Sunne in the Zodiake is thus found.

Irs know that the ri. day of Ianuary, the Sunne is entred the ri. day of February H. The ri. of March of Iune S. The rissiof Iuly & The rissiof Auguste m. The rissiof September . The rissiof October m. The

13.0f November . The rit, of December . 3
This knowen, the place of the sunne is wel found, and ying

for every day past any energy, degries and the Ensam-

Briefe.

shows a Enfample.

Require the place of the Sunne the 21.vay of Augua, I find that the Sunne is entered in my. the 14.vay of the Poneth. A must for every vay past any entrey avoc i.vegree. There are 7. vayes past that entrey, then I conclude the Sunne reaves to bave place in the 8. vegree of my the 21. of August.

To known hown long the Moone shineth.

FD; hir chining, in the encrease multiply the age of p Poone by 4. In the Mane augment the rest of the age whych thee lacketh of 30. by 4. and venide by 5. the Duotiente chemeth the boures: the remaynes if ther be any, multiplied by 12. byingeth minutes to be avoed.

Houve the moueable Feastes are found readily.

Sche the chaunge of the Poone in February, for that peare peerequipe these Pourable Feattes. Note what vap it falleth on the nert cuestoay is Proveductues ap. But it & chauge be on tuestoay, then the nert tuestoay ensuinge is it. The nerte Sonday is the first Sonday of Lent. Sire Sondayes after is Easter vape. Adde 35. dayes of 5, weekes to Caster daye, pee bave Rogacion Sonday. To that adde 4. dayes, so have yee Ascention daye. Then have ye 10. dayes to Mhitsontyde. Seven dayes after is Crinicy Sonday. And source dayes after is Corpus Christiday.

know the Tydes.

L Carn as is veclared the age of the Poone, also remembee the hours of the ful, of chaung for your place of point which both neuer vary, these knowen, works thus,

Enfam.

houres.

Ensample.

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of that ear day change exercis feer is ye. pee me pee e. Defter is

8/18

When the Moone is 10. vapes olde. I despre to know at what of the clocke it is ful Sea at Londo bridge, Mule tiplye 10. by 48. so have pee 480. devide that by 60. yee have 8. boures. To that adde 3. which is the houre of the ful or thange appointed for that place. At then commeth unto 11. of the clock high water at London bridge. If any thing remains they are Minutes of an houre. If the houres amountabout 12. tast the twelves away, the rest is your requeste.

FINIS.

A Perfit



then the useons is to name after M veffer toknow as the fact of the clocks frie ful goes at Lond byloge, abot. of solly of the bare per a formatic that he her bare c. agilada co lo l'aji do aqued a fa sa caldon, a adamin la sa ye profession of the printer of the consumer burners of the forth haddoniaminguidigus i Erapuiguiguida Langua i daid are Coming who boure. Tert aboures amounts. Bone / 2, call the time the all and a line to the tapour pagarile.

To the Reader.



Aning of late (gentle Reader) corrected and reformed fondry faultes that by negligice in printing have crept into my fathers. Generall Prognostication: Among other thinges I founde a description or Modell of the world and situation of Spheres Calestial and Elemetare according to the dostrine of Ptolome, whereanto al Universities (led there

to chiefly by the auctority of Aristotle) sithens have conseted. But in this our age one rare witte (seing the continual errors that from time to time more & more have ben discouered, besides the infinite absurdaties in their Theorickes, which they have bin forced to admit that would not confesse any mobility in the ball of the Earth) bath by long studie, painful practise, andrare inventio delivered a new I heorick or model of the world shewing that the earth resterk not in the Center of the whole world, but only in the Center of thys our mortal world or Globe of Elementes which ensironed and enclosed in the Moones Orbe, and together with the whole Globe of mortalitie is carried yearely round about the Sunne, which the a king in the middest of all raigneth and geeneth lawes of motion to the rest spherically dispersing his glorious beames of light through Alebis facred Coleffiall Temple. And the earth it selfe to bee one of the Planets having his peculiar of straying courses tourning e. merye 24 houres round upon his owne Center whereby the o and great Globe of fixed starres seeme to swey about and turne, albeit in deede they remaine fixed. So many wayes is the sense of mortall menabused, but reason and deepe discourse of wit having opened thefe things to Copernicus, & the same being with demostratios Mathematicall most apparantly by him to the world delinered. I thought it connenient together with the olde Theorick also to pub dishthis:to the end sutchnoble English mindes (as delight to reach about the baser sort of men) might not be altogether defrauded of Conoble a part of Philosophy. And to the end it might manifestly e appeare that Copernicus ment not as some have fondly excused him to deliner these grounds of the Earthes mobility onely as Ma thematicall principles, fayned & not as Philosophical trely avers

amortique de la respectation de

To the reader.

red. I have also from him delivered both the Philosophicall realons by Acistotle and others produced to maintaine the Earthes stability, and alfotheir folutions and insufficiency wheren I canox a little commende the modeffic of that grave Philosopher Aristotle, who feing (no doubt) the insufficiency, of his own reasons in see king to confute the Earthes motion, vieth these wordes . De his explicatum est ea qua potuimus facultate hombest bis disciples bane not with like sobrietye maintayned the same . Thus mutch for my owne parte in this case I will onely say. There is no doubte but of a true grounde truer effests maie be produced then of princis ples that are false, and of true principles falshodor absurdatie came not be inferred. If therefore the Earth be situate immoneable in the Center of the world, why finds we not Theorickes uppon that grounde to produce effects as true and certaine as the fe of Copernicus? VV by cast we not away those Circulos Aquantes & meesons irregulare, seinge our owne Philosopher Aristotle himself the light of our Universities bath taught ws: Simplicis corporis fimplicem oportet elle motum. But if contrary it bee founde, impossible (the Earthes stability being graunted, but that we must mecessarilie fallinto these absurdities, and cannot by any meane as moide them. VVby shall we so much dote in the apparance of our seuces, which mane wates maie be abused, & not suffer our selnes to be directed by the rule of Reason, which the greate GOD hath given us as a Lampe to lighten the direknes of our understanding and the perfit quide to leade us to the golden braunche of Veritye amidde the forest of errours.

Beholde anoble question to be of the Philosophers and Mathematicians of our Uninersities argued not with childs Innectines but with grane reasons Philosophicall and irreproneable Demons strations Mathematicall. And let us not in matters of reasobe ledde away with authority and opinions of men, but with the Stells

fyed Poet let us fay.

Non quid Aristoteles vel quiuis dicat corum Dicta nihil moror, à vero cum forte recedunt. Magni sæpé viri men dacia magna loquuntur. Nec quisquam est adeo sagax, quin sæpius erret.

Ratio dux fida Sophorum,

THE

To the reader.

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HE Globe of Elemets enclosed in the Orbe of the Moone I call the Globe of Mortalsty because it is the peculiare Empire of death. For abone the Moone they feare not his force but as the Christian Poet sayeth,

Omne quod est supra lunam, eternum bonum Esse scias nec triste aliquid Cælestia tangit.
Quicquid verò infra Lunæ conuexa creauit
Omniparens natura, malum est, mortis es scueras,
Perpetitur leges & edaci absumitur æuo.

Againe: padallogous padadash 179

Omne malum est infra lunam, nox atra, procellæ
Terribiles, frigus, calor, importuna senectus,
Pauperies malesuada, labor, dolor, improbitas, Mors.
Supra autem lunam, lucis sunt omnia plena.
Nec non letitiæ & pacis, non tempus & error
Et MORS & senium est illic & inutile quicquam,
Fælix ô nimium fælix, cui sedibus illis
Tam pulchris & tam iucundis tamép beatis
Viuere concessum est, supremi munere Regis.

And againe.

Singula nonnulli credunt quoù sydera posse Dici Orbes, TERRAM à appellant sydus opacum Cui minimus Diuùm præsit &c.

In the midst of this Globe of Mortality hageth this darck starre or ball of earth and water balanced and sustained in the midst of the thinne ayer onely with that propriety which the woderful work manhath given at the Creation to the Ceter of this Globe with his magneticall force whemesly to draw and hale unto it self al such other Elementall thinges as retaine the like nature. This ball enery 24, hours by natural, uniforms and wonderful slie of smoth motion rouleth rounds, making with his Periode our naturall day, whereby it semeth to us that the huge infinite immoneable Globe fould sway and turns about.

Mr.

The

To the reader.

The Moones Orbethat enusroneth and conteineth this darche flarre and theother mortall, changeable, corruptible Elemets of Elementate things is also turned round enery 29, dayes 31 minus 50. Seconds. 8. thirds, 9. fourths, & 20. fiftes, and this Periode may most aptly be called the Moneth. Therest of the Planets motions appears by the pillure and shall more largely be hereafter spoke of.

HEREIN good Reader, I have maded farder then the vulgar forte Demostrative & Practice, & God sparing life I meane though not as a indge to decide yet at the Mathematicall barre in this case to pleade in such sort, as it shall manifestly appeare to the VV orld whether it be possible uppoint he Earthes stabilitie to delie ner any true or probable Theoriek, & then referre the pronoucing of sentence to the grane Senate of indifferent discreete Mathematicall Readers.

Farewell andrespect my travaile as thou shalt see them tend to the advancement of trush and disconcring the Monstrous loth.

Some shape of errour.

Perfix 6 mentantales en federalites est en factor de la Perfix Al Perfix en en federal maner Regis.

End againt.

Singulanonnulli credunt quote lydera nosse. Die Orbes, Te RRAMQ appellant y nes opuent. Cur plinimus Dialim presist See.

In the midit of this Globe of Mortalny his exhibit derek dance or built of earth and and anticed and full anord, as the midit of the third of earth of earth of antice the road and full anord, as the thirt of the thirt of the thirt of the thirt of the antice the thirt of the antice the thirt of the thir

A PERFITE DESCRIPTI on of the Cælestiall Orbes according to the most auncient doctrine of the Pythagorians, lately reupued by Copernicus and by Geomes

tricall Demonstrations ap-

es the fact of the area employers of habital at heither



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Lehough in this most excellent and dyfficile parte of Philosophye in all cimes have bin sondy opiniostouchig
the situation & moving of the bodies
Celestial, yet in certain principles al
Philosophers of any accompt of all
ages have agreed & cosented. If trife
that the Dybe of the sired stars is of
al other the most high, the farbest oil

fant and comprehendeth all the other fpheres of wandlinge farres. And of thefe fraping bodges called Planettes folde philolophers thought it a good groud in reason p the nighelt to the Centre thould fwiftlieft mone, becaufe the circle was leaft and thereby the fooner onerpaffed and the farder diffant the moze flowly. Therefore as the Doone bepnge fwiftell in courfe is fognoe alfo by meafure nighett, fo baue all agreed p the Dibe of B being in mouing the Comel of al the Pianets. is allo the bigheft. The next, and then d, but of 9 @ there bath ben great controuerly, because they ftrap not every way from the Sune as the rell boo. And therfore fome baue placed them aboue the Sune as Plato in bis Timao others beneath as Ptolomy and the greater part of them that followed bim. Alpetragius maketh Q aboue the Sunne and & beneath, and finap realons have ben of al lives allevged in befence of their opinions. They that follow Plato (supposping that al starres mould baue oblcure & barke bodies fhyninge with bogrowed light like the Mone)haue allebgeb that if thofe Planets mer lower then the Sun, then fould they fomtime obfcure fom parts .

consiste and the flast flow bearing with the capital of

and oppolite are much greater in light enigher tobe. wherbp it cannot be but the centre of them is rather to the () the to b earth to be referred: as in the Dibes of Q and Q allo. But if al thefe to the Sunne as a centre in this manner be referred. then muft there needes betwene the conuer Dabe of Pano the concaue of an buge fpace bee left wherein the earth & Elementare frame enclofed with the Lunary Dibe of buty muft be fituate. For from the earth the Doone may not be farre re. mooned, bepnge wythout controuerlie of al other nighelt in place and nature to it:elpectally colibering betwene the fame Dabes of Pand & there is roome fufficient. Therefore necbe we not to be affamed to cofeffe this whole globe of Clemets enclosed with the Boones iphere together with the earth as the Centre of the fame to bee by this great Dabe together to the other Planets about the Sun tourned making by bis repolation our yeare. And what foeuer feeme to be to proceede by the mouing of the Sunne, the fame to proceede in brede by the revolution of the earth, the Sunne fill remaining fired & immourable in the miobelt. And the villance of the earth fro the Summe to be lutch as being compared with the other Bla nets maketh enivent alterations and biverlity of Afpects, but if it be referred to p Dibe of farres fired, the hath it no moportion fentible, but as a poinct or a Center to a circumferece which I hould farremoze reasonable to be grauted, then to fal into futch an infingte multitude of abfurbe imaginations, as they were faine to admit that wil needes wilfully mayntaine the earthes fability in the Centre of the world. But rather herein to birect our felues by that wifebome we fee in al coos naturall workes, where we may behould one thing rather enbued with many bertues and effectes, then any fuperfluous or onnecestary parc somitted. And all thefe thinges althoughe ther feme hard, frauge a incredible, pet to any reasonable ma bhach his underflanding ripened with Bathematicali bemo-Aration, Copernicus in his Renolucions accordinge to bys promife bath made them more evident and cleare then & Sun brames. Chefe grounds therefore admitted which no man re fonably can impugne, that the greater vibe requireth the longerenne to run his Periode: The orderly and most beutifatt. frame of the Deanens boccbenfue. The

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The first and highest of al is the immoveable sphere of sired startes conteining it selfe and al the rest, and therefore sired: as the place valuersal of rest, whereunto the motions and positions of al inferiour spheres are to be compared. For alveit sundry Astrologians sinding alteration in the vectination and Longitude of startes, have thought that the same also should have his motion peculiare: Pet Copernicus by f motions of the earth salueth al, and betterly cuttern of the ninth and tenth spheres, which contrary to all sence the mayneyners of the earthes stability have bin compeller to imagine.

The first of the moneable Dibes is that of hi, which being of all other next buto y infinite Dibe immoneable garnished with lights innumerable is also in his course most flow, to once only in thirty yeares passeth his Periode.

The fecond is 7, who in 12. peres perfourmeth bis circuft.

Mars in. 2. peares runneth bis circulare racel

Then followeth the great Dibe wherein the globe of mortall ty inclosed in the Moones Dibe as an Epicicle and holdinge the earth as a 60 here by his owne waight resting alway permanente, in the middest of the appe is carried rounds once in a peare.

In the fift place is 2 making bir revolution in. 9.moneths.

In the. 6.18 9 . who palleth his circuite in. 80. Dapes.

In the miorest of all is the Sunne.

For in to stately a temple as this who would before to fet hys lampe in any other better or more convenient place then this, from where builformely it might distribute light to al, for not unfitly it is of some called the lampe or light of the worlde, of others the mynde, of others the Ruler of the worlde.

Adeuius numeros & dij moueantur & Orbes Accipiant leges prascriptag, fadera seruent.

Trismegistus calleth hom the visible God. Thus both the Sun like a king sicting in his throne gouern his courts of inferiour

pur powers: Meither is & Carthbefrauded of the fervice of & Doone, but as Aritotle fagth of all other the Poone weth & earth bath nighell alliance, to heere are they matched accor-

Dingly.

In this fourme of Frame may we behold futch a wonderful Symetry of motions and lituations, as in no other can be proponed: The times whereby we the Inhabitaunts of the earth are directed, are conflicuted by the revolutions of the earth & circulation of hir Centre caufeth the yeare, the convertion of bir circu mference maketh the naturall day, and the revolucio of the (produceth the moneth. By the onely viewe of thus Theorick the caule & realon is apparance who in 4 the progreffions and Retrogradations are greater then fa b , and teffe the in &, why allo in & thep are more the in Q. Anomby futch chaunges from Direct to Retrograde Scationarie, &c. happenech noewithfranding more rifely in h then in 32 & pec more rarelping who in Q not io comonly as in Q Alfo who To 72 and of are nigher the earth in their Accomicall then in their Colmicall of Heliacall rolling. Efpecially of tobo effing at the Sunne fer, the wethin his ruoop fertherpllour equal in quintito with lupiter, and contrarywife fetering lictle after b Sume, is fcarcely to be difcementrom a Starre of the feron lyant. All which alteracions apparantly folome bypon the Carries motion, And that none of thele bo happen in f fired farres it playnty argueth this buge diffance and immefurable Alcicude, in respect whereof this great Dabe wherein the earth is carroed is but apopuct, and occerly without lengible proportion being compared to that beaut. For as icis in perfrectige vemolicate. Enero quantity bath a certaine proporti onable bistance whereuncoit may be discerned and beyond the fame it may not be feene, this billance therefore of o immoueable beauen is to exceeding great, shat the whole Orbis magnus banifheth amay if it be conferred to that beauen. Derein can wee never fufficiently admire thys wonderfull & incompleventible buge frame of goddes woolke proponed to our leafes, leing forft this bault of bearth wherein we move. to the common forte feemeth greate, and thep in refrect of the Pognes Dibe is very finall, but compared with Orbis mag-

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mus wherin it is caried, it fearcely retaineth any fentible proportio, fo merueiloufly is char Dabe of Annual motion greater then this litle barke ftarre wherein we live : But p Orbis magnus being as is befoze beclared but as a poinct in refpecc of the immelity of pimmoueable beauen, we may eality confider what ifile postion of goos frame,our Clementare corruptible moglo is, but neuer luffictentip be able co abmire the immentity of the Reft, Cipectaliy of that fired Dabe gars wither with lights innumerable & reaching up in Sphæricall altitude without ende, Dt which lightes Celefialte is to bee thought that we onely behoulde futch as are in the inferiour partes of the fame Dibe, & as they are higher, fo feeme they ofteffe and leller quantity, even til our light being not able farber to reach of concepue, p greateft part reft by reafon of their wonderful diffance inuifible unto vs. And this may wel be thought of us to be pglozious court of p great god, whole unfercheable works inuifible we may partly by thefe his bift ble coiecture, to whole infinit power & maielly fuch an infinit place lermounting al other both in quantity and quality one-Ip is convenient. But becaufe the world bath fo long a tyme bin carryed with an opinion of the earths flabplity, as the con trary cannot but be now bery imperimalible, I have thought good out of Copernicus alfo to geue atait of the reafons phiiolophicall allenged for the earths fability, and thep? folutions, that futch as are not able with Geometrical eyes to beeboulde the fecrete perfection of Copernicus Theoricke, map pet by thefe familiar natural realons be induced to ferch farther, and not rathly to convempne for phatallical, fo, auncient poctrine reuined, and by Copernicus lo ormonitratiucly ap-Maoued.

that reasons moved Aristotle and others that

followed him to thincke the earth to rest

immoveable as a Centre to the

whole world.

The motte effectuall reasons that they produce to prove the earths flability in the middle or lowest part of the world,

that of Granitye and Lenitye. For of all other the Chemente of the earth lay they is most beaup, and al ponderous thinges are carried butoit, fritting as it were to fwape euen bowne to the immalt part therof. For the earth being round into & which all waighty thinges on enerplyoe fall, making righte anales on the fuperficies, paffeto & Center, feing euery right line p falleth perpendicularly opponthe Horizon ia p place where it toucheth the earth must neves palle by the Centre. And those thinges that are carped toward that Medium, it is likely bether also they would reft. So mutch therefore the rather that the Carth rell in the mioole , and (recepuing all thinges into it felfe that fall) by his owne waygbte fall bee most immoueable: Agapte they leeke to ploue it by reason of motion and his nature, for of one and the fame a fymple body g motion mult alfo be fpmple fagth Ariftole. Df fiple motios there are two kindes right and circular, Right aceeither'bp or nowner fo that energe fymple motion is either bownwarde coward the Centre, or by ward from the Centre, or circulare about the Centre. Rombato the earth and water in respects of their wenght the motion downward is convenient to feeke the Centre. Toappe and fper in regarde of their lightnes, bp ward and from the Centre. So is it meete to thele elements to actribute the ryght or freight motion and to the beauens only it is proper circularly about this meane or Center co be turned round. Thus much Ariftotle. Df therfoge fapth Ptolomy of Alexandriathe earth foulo curne but only by b bap ly motion, thinges quite contrary to thefe hould happe. For his motion hould be most fwift and violet that in 24. howes should let passe the whole circuite of the earth, & those things which by fodayn turning are flirred, are altogeather bumete to collecte, but rather to difperfe thinges brices, buleffe they Houlos by fome frame fafteninge be kept togeather. And log ere this the Earth being billolued in peeces hould have byu feattered through the beaues which were amockery to think of, and much more beaftes, gal other watghtes that are loofe could not remain buthaken. And also thinges falling houlde not tight on the places perpendiculare baber thepm, neither oluped the stability in the minete of leintst part of the toole.

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Monto they fall virectly thereto, the same beinge violently in the meane carryed rwaye. Cloudes also and other thynges bangings in the ayre should alwayes seems to be carried toward the West.

The Solution of these Reasons. with their insufficiencye.

Thefe are y causes, a futch other wher with they approue the Carth to reft in the mivole of the world and that out of all queftion: But bee that will maintein the Carthes mobility may fay that this motion is not violent but naturali. And thefe thinges whych are naturally mooned bane effects concrary to futch as are violentlye carried . For futth motions wherein force and byolence is bled, mufte neeves be viffolued and cannot be of long cotinuance, but those which by nature are cauled, remaine til in their perfit effate and are conferued and kepte in their molt excellent confficution-Mithout caufe therefore did Prolomcy feare leaft the Carch and al earthly thinges houlve bee tozne in pieces by this renolution of the Carthe cauled by the morkpug of nature , whole operations are farre vifferent from thole of Arte og lutch as humaine intelligence may reach buto. But whye Goulde beenot mutch more thincke and milooubt the fame of the world, whole mocion multe of necellity be fo mutch moze fwift and vehemente then this of the Carth, as & beauen is greater then & Carth. Is therefore the Deauen made to bugge in quantitye that fc might wych bufpeakable behemencye of motion bee feuered from the Centre, leaft happily refting it foulo fall, as fome Philosophers haue affirmed: Surely pf this reason Coulde take place, the Magnicube of the Deanen Bould infinitely ertende. For the more this motion Coulde violently bee carried bigher, the greater fould the (wiftnes be, by reason of the increating of the circuferece which mult of necellity in 24, houers bee pall ouer, and in lyke maner by increase of the motion the Dagnitude mufte allo necestarilye bee augmented. Thus Moulde the fwiftnes increase the Magnitude and the Magni tude the fwiftnes infinitely: But according to that ground of D.I. nature

nature whatfoener is infingte can never be palled over. The Deauen therefoze of necellity mult ftanband reft fixeb . But lay they without the heaven ther is no body, no place, no emp tynes, no not any thing at al whether beanen Could of could farther extende. Buttbys furelye is bery Araunge that nothyng thould have fusch effpriente Power to reftragne fome chyag the fame bauping a bery effence and beying Bet pf wee would thus confesse that the Beaven were in beebe infinitbp ward, and onely fynyte bowneward in respect of his Spherycall concauety. Dutch more perhappes myghtthat laying bee berpfied, that wythout the Deauen is nothing, feeping energe thong in respect of the infinitenes thereof had place lufficient within & fame. But then muft it of necestity remain immoue able. For the chyefelt reason that hath moved some to thinck the heaven limpted was Motion, whych they thought wythe out confronertie to be in deebe in it . But whether the woald have bys boundes or bee indeede infingte & without bounds. iet be leane oto be bifcuffet of Philosophers , fure we are p the Carthis not infingte but bath a cpzcumference ipmitteba feyng therefore all Phylosophers confent plymytted bodges may bane Dotpon, and infynyte cannot hane anye : Willbye do we pet flagger to confelle motpon in the Carth being molt agreeable to bys forme and nature, whole boundes allo and cyrcumference wee knowe, rather then to imagyne that the whole world fould (may and turne, whole end we know not ne pollybly can of any moztail man be knowne, And therfoze the true Motion in veebe to be in the Carth, the apparace only in the Deanen And that thele apparances are no other. myle then if the Virgilian Encas fould fay.

Prouchimur portusterrag, vrbest, recedunt.

Por a flyp carped in a smoothe Sea with sutch tranquility noth passe away, that al things on the shores and the Seas to the saylers seeme to move and themselves only superly to rest with al sutch thinges as are aborde them, so surely may it bee in the Earth whose Potion being natural and not forcible

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cible of al other is most uniforme and unperceaueable, where by to be that fayle therein the whole world maye feeme con roule about, But what thall wee then laye of Cloudes and other changes hanging of relling in the appe of tenopinge byward, but that not only the Carth and fea making one globe but allo no imal part of the appe is likewife circularly caried and in like fort all futch thinges as are verined from them or have any maner of aliance with them. Citherifoz that & lower Region of the appe being mirte with Carthlye and watry bapours folow the fame nature of the Garth. Eyther that it be gapned and gotten from the earth by reason of Vicinity oz Contiguity. Which if any man merueyle at,let him confider how the olde Philisophers byo pelve the same reason for the renolution of the bigbeft Region of the apre, wherein we map fometyme behoulde Comets carryed circularly no otherwise then the bovies Celeffial feeme co be, and per hath that Region of the appellelle conuentence with the Dabes Celeffal, the this lower part with the earth. But we affgame that part of the aire in respect of his great distance to be destitute of thes motion Terreffrial, and p this part of the appe y is nert to the Carchooth appeare molt Gil and quyet by reason of bis bniformenaturall accompanying of the Carth, and lykemple thinges that hange therein, oneleffe by winds og other biolet accident they be toffed to and fra: For the mynd in the ayre is nothing els but as the wave in the Ses: And of things alcebing and bescending in respect of the world we must confesse the tobaue a mirt motion of right & circulare, albeit it feeme to beright and freight, Ito otherwife then if ina thip buder fayle a man thoulo foftly let a plumet bowne from the top alonge by the male even to the vecke. This plummet pallinge alwayes by the freight maffe, feemeth alfo to falin a ryghte line, but being by difcours of reason waved bis motion is tound mircof right and circulare. For futch things as naturally fall bown ward being of earthly nature there is no boubte but as partes they recayne the nature of the whole. Ro other wife is it of thefe thigs that by fiery force are caried byward. Thou the earthly fier is chiefly nozifhed with earthly matter, and flame is befined to be noughtels but e burning fume og fmoks 10,2

Imoke and the property of fper is to extend the Subject where unto it entereth, the which it both with fo great biolence ag by no meanes or engines it can be confirsyned but that with breache of bandes it wil perfourme his nature. This motion extentiue is from the Centre to the tircumference, fo that if a ny earthly part be fieren, it is carred violently bywars. There fore wheras they fay that of simple bodyes the motion is alcogether fimple, of the circulare it is chieffy berified, fo long as the fimple boby remaineth in his natural place and perfit bnity of composition, for in the same place there can be no other motion but circulare, which remayning wholy inte feffe is moft like to reff and immobility. But right og freight motio only bappen to those things that firey and wander of by anye meanes are thauft out of their natural place. But nothing ca bee moze Repugnaunte to the forme and Dybinaunce of the moglo, then that things, naturally fould be out of their naturall place. This kinde of motion therfore that is by right line is only accident to those things bare not in their right flate. or perfection naturali, while partes are diliogned from their whole body, and couet to retourne to the bnity therof agayne. Meither Do thefe thinges which are carryed bywate og bown warde belides this circular movinge make anpe fimple, bny. forme, orequal motion, for which their leuity or ponveroficy of their body they cannot be tempered but alwaies as they fal (beginninge flowly) they increase their motion and the farber p moze fwiftly, wheras contrariwife this our earthly fier for other we cannot fee) we may behold as it is carryed byward to banish and becay as it were confessing the cause of violence to proceede only from his matter Terrestriall. The circulare motion alway continueth buyforme and equall by reason of bis caufe which is indificient and alway continuing . Butthe other hafteneth to ende and to attapne that place where they leane lenger to be heany of light, and having attapued that place, thepamotion ceafeth. Seing therefoge this circulare motion is proper to the mbole as fireight is only buto parts, we may fay that circulare both reft with ftreight as Animal cum Egro . And mhereas Ariftotle hath biffrybaten Simplicem motum into thefe thre kyndes Amedio ad medium,

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and Circamedium, it must be onely in reason, and imagination, as wee likewise sever in consideration Geometricail a poince, a line, and a superficies, whereas in deede neither can sand without other, ne any of them without a body.

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Werreto we may adioque that the condition of immobility is moze noble and bivine then p of change, alteration, og infabilitpe, & therfore more agreeable to heaven then to this earth where althings are subject to continual mutability. And feeing by enident proofe of Geometricall mensuration wee finde that the Planets are sometimes nigher to be and sometymes more remote, and that therefore even the mainteiners of the Carthe Cability are enforced to confesset bat the Carth is not their Dibes Centre, this motio Circa medium muft in moze general fort bee taken and that it may bee underffante that e. uery Dabe bath bis peculiar Medium and Centre,in regard wherof this simple and bnifozme motion is to be considered. Seing therefore that thefe Dabes haue feueral Centres, it may be doubted whether the Centre of this earthly Grantey be also the Centre of the world. For Grantey is nothinge els but a certaine proclinity or natural coueting of partes to bee coupled with the whole, whych by viuine prouidence of the Creatoz of al is given & imprelled into the parts, other thould refforethemfelues into their buity and integrity concurryng in lyberical fourme. Which kind of propriety or affection it is likely also that the Moone and other glorious bodyes wante not to knit & combine their partes together, and to maintein them in their round thape, which booles not with fanding are by funday motions, funday waves conneighed. Thus as it is apparant by thefe natural reasons y the mobility of the earth is more probable and likely then the flability . Mathematically confidered and with Geometrical Wenfurations enery part of every Theorickerpamined : the biferes Student Gall fynde that Copernicus not without great reafon bid propone this ground of the Carthes Mobilyty.

A short Discourse touching

the Variation of the compasse.

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Crueplous no bombte is that naturall propriety of the Magnes whereby & needle touched immediatly cournety to fome one certaph poince of the heaues. Fano after fitdly motions bither and thyther findeth rest onely in one place and poynet. And alveit this poince in feneral Horizons be dyfferent, yet in any one Horizon it remanneth alway permanent, and therfore it playnly apperech that the fame proceedeth of fome contat permanent cause na furall, and not of any mutable bucertayne cause accidentall. But what this caufe thould be, no man bitherto bath trulpe Discouered. To omitapparantablurd opinions, the most probable of those that have ben apuen and generally bell allow ed is the Poince Actractine, which Gould be of futch bertue as to Draw the needle touched alway toward the fame poinct, but whether this poince hould be in the Deauens on Garthe is another controuerfie. Succh as wil haue it in the Carth affrime it to be a buge mountaine or rocke of Magnes ftone. biffant from the Bale certaine graves, which via wong the needle to it felfe alwayes caufeth it to make an angle of Clariacion from the pole of the world falue onely under the Meridiane that paffeth by the fame Attractive poynet. But the et rour of this opinion wil fone be four of them that thall byon this funpolition and two different angles of variation learch out the place of that Poynet Attractine the fame being in & Incerfection of the two circles of politio by the variations pe termined)and then conferre that with fome third angle of bariation: whereby it Chal plainly appeare that in the Garth na fatch one Attractive Poinet can beimaginen, as fhall by cira cle of polition produce lutch bariations as in Nauigatio baue bin viscouered. And to place this Poynet Attractiue in any of the Deauens,it would appeare more abfurde for whether the Deauens moone and the Carch refte immooneable, og the Carch moone and the great Dibe of ftarres be permanent, as of necessity the one or the other must bee true (considering a motion is apparant)it muft necessarily folow that bys alteration (bould bee in continual alteration energe bowze and moment of the Day, but by experience we fynd the contrarp. and therfore may neceffarily be inferred, no futch Areractive Poyncte

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Supposition I could easely vetermine if ther were anye trust to the observation of Diriners, but, having found by experience their grosse blage and aud homely instrumentes, where balse a point commonly breakes no square, and also their respugnant tales that have travelled the selfe same boyanges I cannot per resolve.

Poon due examination of this Hypothelis there may hap pily fall out a fraunge Paradoxe not thought of hitherto that these bulgare marine Charters belineate with Parallele meridianes, and right lined Rumby beinge of themselues apparantly false and erroneous, pet view without rectification of the campas may bring forth true effectes, and so two errouts concurring produce a veritye.

Errours in the art of Nauigation commonly practized.

Meridianc lines running equidiffant of Parallele Meridianc lines running equidiffant of Parallele which errour is most manifest to any thathath tasted but the spite Principles of Cosmographic considering they are all great circles & concurre in the Poles.

Secondly they suppose that running byon any of theire pointes of their compasse they should passe in the circumference of a greate circle and therfore in the plaine Chartes describe those winder with streight lines, but therein are they greatly bused for the shippe stenning the North and the South only maketh her course in a great circle East or VV est spee describeth a Parallele and being stirred on any other means poyness sthe cumpasse being excusive rectified) she desineateth in her course a curue of Helicall line, neither straight nor circulare but myre of both, and therfore to sette forth these wyndrs in particular with streight lines is most erroneous.

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Thirdly their rule to know & Latitude by the Pole flarre appling of subtracting from his Alcitude according to the fitualion of the Guardes, is also false, and that work is cannot not bee amended, but bee it never so well rectifyed to one Elimate, pet is it false in al other.

They terme it) is most falle, and whereas some syndinge the errour therof have gone about to remedy the same by joutting of a part at the end thinking thereby it might approche to the Centre of the eye, they encrease therby the errour sand make it more falle. For wifus non six a puncto, as they suppose. And this errour is much eithe the other of the Pole starre and sixuation of the Gaardes, soy be it never so wel corrected by section to any one Altitude then shal it be false soy all other, as to any skilful in Perspective, it is easily bemonstrate.

This Errour I haue already reformed Demonstrative, & Practicein my boke latelye publiched entituled Ala son' Scale Mathematica.

Also the Rules they have to know howe manye leagues they that runne uppon energy poynt to raize one vegree in Lagriculative, are also meere faulte. For they ferch that Arck Iriner as though it were the Hypothenula to a right angled tryangle whose sives are circles of contrary nature gone a Parallele the other greate Circle, and therefore without all sense seeke they by proportion of right Lines to deliner their quantity.

But befives these errours they have one great imperfection pet in their art, and bythereod by no man supplied, and that is the want of exact rules to know the Longitude of Arckes I-timerall, East and V Vest, without the which they can neither truely grewe the place of situation of any Coast, Harborough, Robe of Towns, no yet in sapling, discerne how the place they saple unto beareth from them, of how farre it is distant, where hy they are ensoized longe before they come at any Coaste all night to styke sails, no other wayes then if they were byonit, thereby

i Berre sherby looling the benefite of profperous winves, in fuch force y both fometime, that wheray keepinge a true course they mighte haue bene quietly at Roade, they are by contracy and adverfe competes carped farre of , and fo not withoute greate charge MELL to the owner, paine to the company, and peril to the vellel, are enforced to wall their time, which groweth of their ignorance file is that they neither have true Rules to birect themfelues, the nighelt courle,ne pet treadinge their beaten pathes can allunge the redly vicide of their certaine place. Forreformation of thefe tutting errours and imperfections, new Chartes, newe infrumentes etothe and newe Rules mufte bee preferibed. Wherein I have mie . prepared in a peculier volume for that purpofe to en-901 treate, wifhinge in the meane time that fuchas oliteare not able to refourme theele faultes wil abstayne to teach ours , Mitte Country men moe Errours. ue, te IMPRINTED AT agus n.L.J London by Thomas MARSHE. 1578. lothe Ų, reion that ks Ide rugi. 懶 phete deall mit,

