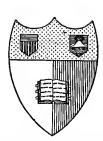
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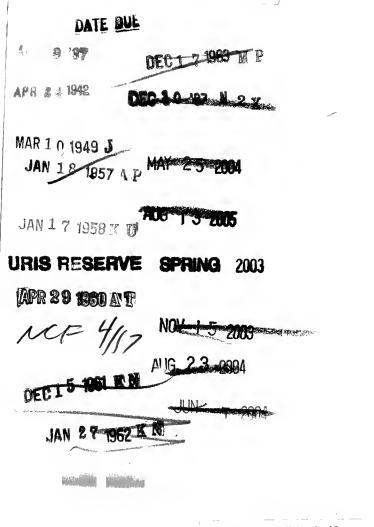
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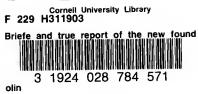
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Dodd, MEAD & COMPANY'S Facsimile Reprints of Rare Books

Historical Series, No. I

HARIOT'S "VIRGINIA," 1588

This Edition is limited to Five Hundred and Twenty Copies, of which Twenty are on Japan paper



A Briefe and True REPORT of the New Found Land

OF

VIRGINIA _{By}

THOMAS HARIOT

Reproduced in *Facsimile* from the First Edition of 1588

> With an Introductory Note by Luther S. Livingston

NEW YORK DODD, MEAD 양 COMPANY 1903

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Introductory Note

THE earliest printed original book in the English language relating to the region now comprised within the limits of the United States is Thomas Hariot's Briefe and True Report of the New Found Land of Virginia, which is reproduced in facsimile on the succeeding pages, from the original quarto edition of 1588. It is not (as it has been called) the history of the first settlement, but is instead the report of the skilled surveyor and mathematician sent out with the colonists by the owners of the grant for the express purpose of studying the country and its capabilities for settlement. It was written and printed with the view of inducing men of capital to become stockholders in the corporation, and for persuading settlers to emigrate to the regions described, and is one of the earliest examples of a statistical survey on a large scale. Being the account of the resources of the country, and of its Indian inhabitants, its text is more interesting than the more narrative-like report of the President of the Colony which is printed in Hakluyt's Voyages and which, with this book, comprises about all that is known from first hands of that "First Colonie." The actual narrative of the Expedition prepared by Hariot himself, and which he said was " ready in a discourse by it self in maner of a Chronicle according to the course of times, and when time shall bee thought convenient shall be also published" is, unfortunately, lost.

Only seven copies of the book can be traced, and of these four are in public libraries. One is in the Grenville collection, in the British Museum, one in the Bodleian Library at Oxford, and one in the University of Leyden. A fourth is in the collection formed by the late Henry Huth, and a fifth is, or was, in the collection of the late Lord Taunton. Two copies are in America, one in the New York Public Library, Lenox Collection, and the other, the copy from which this reprint is made, in This copy may, with some probability, be private hands. called Sir Francis Drake's. It was sold at auction in 1883 with other books from a library said to have been brought together by him. It is possible, however, that the collection, as such, dates no farther back than the time of his nephew, who published Sir Francis Drake Revived, in 1626. It was bought by the late Mr. Quaritch for £300. He catalogued it at £335 and sold it, probably at that price, to the late Mr. Charles H. Kalbfleisch. Since the death of the latter it passed into the collection of Mr. Marshall C. Lefferts and, recently, through the hands of two booksellers, into the library of Mr. E. D. Church, of New York.

Few of the older bibliographers seem to have known of the book and the earliest bibliographical record we can find of it is as Number 1345 of Part IX of the Catalogue of the Heber Collection. This ninth part was sold on April 11, and thirteen following days, Sundays excepted, 1836.

The book is described as "Fine copy, in russia." In addition to the transcription of the title, the catalogue contains this note:

*** EXCESSIVELY RARE. It is not to be traced in any Catalogue, and does not appear to be mentioned by any Bibliographer. It contains 24 leaves, including the Title and Dedication by Rafe Lane.

The volume sold for $\pounds 35$ 10s.

Ternaux in 1837 entered the title in his *Bibliotheque* Americaine, but does not say where he obtained his information regarding it.

Payne and Foss, who prepared the catalogue of the Grenville Collection in the British Museum printed in 1842, enter it, curiously enough, under De Bry, instead of under the author's name. They add also the following note:

"This forms the first part of the Voyages to the West Indies or Grands Voyages. Previously to its being added to the Collection it was separately printed in French, and verbatim from this 4to in English, in Latin, and German by De Bry at Frankfort in 1590, as hereafter described."

They give the collation as "Signatures A to F in fours, twenty-four leaves."

Bohn, in his revision of Lowndes' *Bibliographer's Manual*, follows the Grenville Catalogue exactly, and enters it under De Bry, and gives the same collation. These authors knew of only two copies, the British Museum and the Bodleian. Graesse enters it properly under Hariot, gives the collation as twenty-four leaves, and quotes the Heber Catalogue. He does not record any other copy. None of these authors points out the fact that the last leaf is blank.

Sabin in his *Bibliotheca Americana*, gives the collation simply as "23 leaves." He knew of three copies, the British Museum, Bodleian, and Lenox. He mentions another copy, however, as having been sold in Dublin in 1873 "with five other rare pieces relating to America, for less than £25." If this is true and the copy is still in existence it must make an eighth copy, unless it chance that the Dublin copy may be the one now in the Huth collection, which, however, we think is the Heber copy. Brunet cites the book properly, taking his title from the Heber catalogue.

Henry Stevens, in his *Recollections of James Lenox*, gives the following anecdote about the Lenox copy :

"Mr. Lenox was principled against raffles, wagers, lotteries, and games of chance generally, but I once led him into a sort of bet in this way, by which I won from him $\pounds 4$. I had acquired a fair copy of that gem of rare books, the quarto edition of Hariot's Briefe and true report of the new found land of Virginia, London, Feb. 1588, wanting four leaves in the body of the book. These I had very skilfully traced by Harris, transferred to stone, printed off on old paper of a perfect match, the book and these leaves sized and coloured alike, and bound in morocco by Bedford. The volume was then sent to Mr. Lenox to be examined by him *de visu*, the price to be £25; but if he could detect the four facsimile leaves, and would point them out to me without error, the price was to be reduced to £21. By the first post after the book was received he remitted me the twenty guineas, with a list of the facsimiles. But on my informing him that two of *his* facsimiles were originals, he immediately remitted the four pounds and acknowledged his defeat."

About 1618 William Strachey, first secretary of the Jamestown Colony, prepared a *Historie of Travaile into Virginia Britannia*, which existed only in manuscript until it was printed by the Hakluyt Society in 1849. It contains this reference to Hariot and, being by a contemporary of his, is worthy of insertion here.

"Our country of Virginia hath no want of many marchandize (which we in England accomplish in Denmark, Norway, Prusia, Poland, etc; fetch far, and buy deare) which advaunce much, and assured increase, with lesse exchaung of our owne, with as few hazardes by sea, and which would maintaine as frequent and goodly a navie as what runs the Levant stage; and those by divers treaties, both in Lattin and English, private and publique, have ben, in their particuler names and values oftentymes expressed, especyally that which hath bene published by that true lover of vertue and great learned professor of all arts and knowledges, Mr. Hariots, who lyved there in the tyme of the first colony, spake the Indian language, searcht the country, and made many proufes of the richness of the soyle, and comoditie there of."

The first effort toward actual English colonization in America was the colony planned by Sir Humphrey Gilbert, under the Patent granted by Queen Elizabeth on June 11th, 1578. This grant was for six years only, unless a colony should be meanwhile founded, in which case it was to be perpetual. Two expeditions were sent out, and possession was taken of a portion of the island of Newfoundland, but no settlement was established. Gilbert having gone down with his ship on the return voyage in 1583, his patent was regranted to his half-brother Walter Raleigh. This new patent was dated March 25th, 1584 (the first day of the new year), and was also limited to six years. It gave him license "to discover, search, find out, and view such remote, heathen and barbarous lands, countries, and territories, not actually possessed of any Christian prince, nor inhabited by Christian people, as to him, his heires and assignes, and to every or any of them shall seeme good," etc.

Two ships were at once fitted out and the expedition, under the command of Philip Amadas and Arthur Barlow, sailed on April 27th, 1584. They reached the coast of Carolina in July, made some superficial examinations and returned to England in September. They "brought home also two of the Savages being lustie men, whose names were Wanchese and Manteo."

The report of this first tentative expedition being favorable, Raleigh made preparations to found a Colony in the newly discovered region. On April 9th, 1585, seven vessels sailed from Plymouth under the command of Sir Richard Grenville. They arrived safely at the island of Roanoke, at the north end of Pamlico Sound, where Amadas and Barlow had been the year before, on June The two Indians, who had learned the white 26th. man's language, during their stay in England, were very helpful to the English in treating with the natives. Grenville himself stayed just two months and then returned to England, leaving a colony of one hundred and eight men, all of whose names are set down by Hakluyt, under the governorship of Ralph Lane.

This expedition was well fitted out, and among the colonists were included several specialists. Thomas Hariot, who had already acquired fame as a mathematician, was surveyor and historiographer. John White, whose name is apparently corrupted in Hakluyt's list, into John Twit, was the artist of the expedition, and his portfolio of drawings is now in the British Museum. There was also a "mineralman," or geologist, though he seems to be unidentified.

This "first colonie" remained on the island of Roanoke and in the vicinity for almost an entire year, hearing meanwhile nothing from home. On the 7th of June, 1586, a fleet of twenty-three sail was sighted off the coast. At first it was feared that they were Spaniards, but happily it turned out the next day that it was the fleet of Sir Francis Drake, returning victorious from the sacking of rich cities of the Spanish colonies. He had run up to see how the Virginian Colony of his friend Raleigh was prospering. He offered to supply them with provisions, take home their sick, and leave "oare-men, artificers and others" in their place, as well as leaving them a ship with sailing masters competent to navigate her home, also "a supply of calievers, hand weapons, match and lead, tooles, apparell, and such like." While these arrangements were being made a Cape Hatteras storm came on and continued four days, doing more damage to Drake's fleet "than all his former most honourable actions against the Spaniards." The colonists considered this storm as the judgment of God that they should return at once to England, and it was so decided. The weather was still rough and in transferring their goods to the ships of the fleet the boats ran aground and the sailors cast overboard "all their Cards, Books and writ-Notwithstanding this statement Hariot's diary must ings." have been preserved, and John White's drawings are still in The one hundred and four members of the existence. colony, for Hariot says that only four "died all the yeere," were distributed among the ships of the fleet which set sail on the 19th of June (being just a year, lacking one week, since their arrival), and reached England the latter part of July, 1585.

The account of Raleigh's subsequent efforts to found a

colony on the coast of North Carolina, of the fifteen men left by Sir Richard Grenville in 1586, when he arrived with supplies and found the colonists gone, and of the "second colonie" of one hundred and nineteen, left in 1587 and all lost, may be found in Hakluyt, and, copied from him, in many more recent books.

Raleigh's original Charter would have expired by limitation on the 24th of March, 1590. He had, however, been obliged to raise money to fit out White's expedition of 1589 by selling stock in his company. That "Assignment of Rights" is dated March 7, 1589. We may therefore suppose, with reason, that this Report of Hariot's was written and printed for Raleigh to distribute among the friends from whom he sought aid in carrying out his schemes of western planting. The book was evidently privately printed, as it bears no name of printer or publisher, and was not entered at Stationers' Hall. It is, as will be seen, dated "February, 1588," at the end. This, according to our present reckoning, would be 1589, and, as the new year then began on March 25th, and as the title is also dated 1588, we may presume that the book was printed and ready for distribution in the early part of 1580, perhaps as early as the first of March.

A word as to Hariot, the author of the book, himself. He was born at Oxford in 1560, and was thus only 25 years of age when he came to Virginia. He graduated from Oxford February 12, 1580, and was almost immediately employed by Raleigh as a tutor, having been recommended on account of his expert knowledge of mathematics. He continued to be Raleigh's best friend until Raleigh's death on the scaffold in 1618. He made the "last great discovery in the pure science of algebra" by arriving at a theory of the genesis of equations, and he shares with Galileo the honor of inventing the telescope (called by Hariot the "perspective truncke"), and of making important discoveries with that instrument.

He died July 2, 1621, of cancer of the nose, the case,

an important one, being described in the records, and was buried in the churchyard of St. Christopher, in London. A marble monument was erected over his grave by his friend, the Earl of Northumberland, the inscription on which has been preserved in Stow's *Survey of London*. Church and monument were destroyed in the Great Fire in 1666. The church was rebuilt by Sir Christopher Wren, but the monument was not restored. The old churchyard of St. Christopher is now the "Garden of the Bank of England," and there, in "the lovliest spot in all London," repose the bones of Virginia's first historian.

A second edition of the Brief Report, published in 1590, by Theodore De Bry, of Frankfort-on-the-Main, forms the first part of that eminent publisher's great series of voyages. It was printed in four languages, English, French, German, and Latin, and was illustrated with a map and a series of 22 plates engraved by De Bry, "the most diligentlye and well that wear in my possible to doe," he says, after the original water-colors made in Virginia by Hariot's companion, John White, afore-mentioned. This magnificent folio was dedicated to Raleigh and contains, in addition to Hariot's Report and White's illustrations, descriptions of the plates, apparently by White himself, but " translated out of Latin into English by Richard Hackluit." By whom the book was translated into German does not appear. Perhaps it was done by De Bry himself. He says that he "caused yt to bee Reduced into verye Good Frenche and Latin by the aid of verye worshipfull frend of myne." From the fact that the Dedication of the edition, with French text is dated March 24, 1590, while that in the English and Latin editions is April 1, and of the German edition April 3, it is possible that the French edition was first issued.

Another German translation forms the second part of a volume prepared for the press by Dr. Matthew Dresser, and published in Leipzig in 1598, with the title:

"Historien vnd Bericht,/ Von dem Newlicher/ Zeit

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erfundenen Königriech China,/ wie es nach vmbsienden, so zu einer rechtmessigen / Beschreibung gohören, darumb/ beschaffen. / Item, Von dem auch new erfundenen / Lande Virginia. / "Etc.

The only adequate account of Hariot, especially of his lifelong connection with Raleigh, is the *Life* by the late Henry Stevens, printed in 1885, but not published until 1900. A great quantity of his manuscript, mostly mathematical in character, is preserved in the British Museum.

L. S. L.

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A briefe and true re-

port of the new found land of Virginia: of the commodities there found and to be rayfed, as well marchantable, as others for victuall, building and other necessiarie vferfor those that are and shalke the planters there; and of the nature and manners of the naturall inhabitants : Discoured by the English Colony there feated by Sir Richard Greinuite Knight in the year 1585, which remained vnder the gouernment of Rafe Lane Elquier, one of her Maiessiers, during the frace of twelve momether : as the special charge and direction of the Honourable SIR WALTER RALEIGH Knight, Lord Warden of the ffamerics, who therein liath beene fautred and authoused by her Maiestic and herseness

Directed to the Aduenturers, Fauourers, and Welwillers of the action, for the inhabiting and planting there:

> By Thomas Hariot; feruant to the abouenamed Sir Walter, amember of the Colony, and there imployed in difeosering,



Imprinted at London 1588.



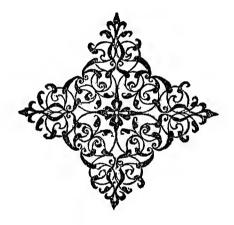


Rafe Lane one of her Maiesties Equieres and Gouernour of the Colony in Virginia aboue mentioned for the time there resident. To the gentle Reader wisheth all happines in the Lord,



Lbeit (Gentle Reader) the credite of the reports in this treatife contained, can little be furthered by the testimonie of one as my felfe, through affection iudged partiall, though without defert: Neuertheleffe for fomuch as I have beene requested by fome my particular friends, who conceiue more rightly of me, to deliver freely my knowledge of the fame; not onely for the fatisfying of them, but alfo for the true enformation of anie other whofoeuer, that comes not with a preiudicate minde to the reading thereof: Thus much vpon my credit Jam to affirme: that things vniuerfally are fo truely fet downe in this treatife by the author therof, an Actor in the Colony Saman no leffe for his honefty A 2. then

then learning commendable:as that I dare boldely auouch it may very well passe with the creait of truth euen among st the most true relations of this age. Which as for mine own part I am readie any may with my word to acknowledge, so also (of the certaintie thereof assured by mine owne experience) with this my publike assertion, I doe assire the same. Farewell in the Lorde.





To the Aduenturers, Fauourers, and Welvoillers of the enterprife for the inhabiting and planting in Virginia.



Ince the first vndertaking by Sir Walter Raleigh to deale in the action of difcouering of that Countrey which is now called and known by the name of *Virginia*; many voyages having bin thither made at fundrie times to his grear charge; as first in the yeere

1584, and afterwardes in the yeeres 1585, 1586, and now of lare this laft yeare of 1587: There haue bindiuers and variable reportes with fome flaunderous and fhamefull speeches bruited abroade by many that returned from thence. Especially of that discouery which was made by the Colony transported by Sir Richard Greinulle in the yeare 1585, being of all the others the most principal and as yer of most effect, the time of their abode in the countrey beeing a whole yeare, when as in the other voyage before they staied but fixe weekes; and the others after were onelie for supply and transportation, nothing more being discouered then had been before. Which reports haue not done a litle wrong to ma- $A_{.3.}$ ny

Abriefe and true report

ny that otherwise would have also fauoured & adventured in the action, to the honour and benefite of our nation, besides the particular profite and credite which would redound to them felues the dealers therein: 25 T hope by the fequele of events to the fhame of those that have anouched the contrary shalbe manifest if you the aduenturers, fauourers, and welwillers do but either encreafe in number, or in opinion continue, or having bin doubtfull renewe your good liking and furtherance to deale therein according to the worthineffe thereof alreadye found and as you shall vnderstand hereafter to be requisite. Touching which woorthines through caule of the diuersitie of relations and reportes, manye of your opinions coulde not bee firme, nor the mindes of fome that are well disposed, bee fetled in any certaintie.

I have therefore thought it good beeing one that have beene in the difcouerie and in dealing with the naturall inhabitantes fpecially imploied; and hauing therefore feene and knowne more then the ordinarie: to imparte fo much vnto you of the fruites of our labours, as that you may knowe howe iniurioufly the enterprife is flaundered. And that in publike manner at this prefent chiefelie for two refpectes.

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

Second-

of the new found land of Virginia.

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

And least that the substance of my relation should be doubtful vnto you, as of others by reafon of their diuerlitie : I will first open the cause in a few wordes wherefore they are fo different; referring my felfe to your fauourable constructions, and to be adjudged of as by good confideration you shall finde cause.

Of our companie that returned fome for their mildemenour and ill dealing in the countrey, have beene there worthily punished; who by reason of their badde natures, have maliciously not onelie spoken ill of their Gouernours; but for their fakes flaundered the countrie it felfe. The like also have those done which were of their confort.

Some beeing ignorant of the flate thereof, notwith-Itanding fince their returne amongest their friendes and acquaintance and also others, especially if they were in companie where they might not be gainefaide; woulde feeme to knowe fo much as no men more; and make They ftood nomen fogreat tranailers as themfelues. fo much as it maie feeme vppon their credite and reputation that having been a twelve moneth in the countrey, it would have been a great difgrace vnto them as they thought, if they coulde not have faide much whether it were true or falle. Of which fome haue spoken of more then euer they faw or otherwife knew to bee theres otherfome have not bin ashamed to make absolute deniall of that which although not by them, yet by others is

Abriefe and true report

is most certainely and there plentifully knowne. And othersome make difficulties of those things they have no skill of.

The caufe of their ignorance was, in that they were of that many that were neuer out of the Iland where wee were feated, or not farre, or at the leastwife in few places els, during the time of our aboade in the countrey; or of that many that after golde and filuer was not fo foone found, as it was by them looked for, had little or no care of any other thing but to pamper their bellies; or of that many which had little vnderstanding, less different and more tongue then was needfull or requisite.

Some allowcre of a nice bringing vp, only in cities or townes, or fuch as neuer (as I may fay) had feene the world before. Becaule there were not to bee found any English cities, nor fuch faire houses, nor at their owne wish any of their olde accustomed daintie food, nor any fost beds of downe or fethers; the countrey was to them miserable, & their reports thereof according.

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

The treatife whereof for your more readie view & eafier vnderstanding I will diuide into three speciall parts. In the first I will make declaration of such commodities there alreadie found or to be raised, which will not onely ferue the ordinary turnes of you which are and shall bee the planters and inhabitants, but such an ouerplus sufficiently

of the new found land of Virginia.

ciently to bee yelded, or by men of skill to bee prouided, as by way of trafficke and exchaunge with our ownenation of England, will enrich your felues the prouiders; those that shal deal with you; the enterprisers in general; and greatly profit our owne countrey men, to supply the with most things which heretofore they have bene faine to prouide, either of strangers or of our enemies : which commodities for diftinction fake, I call Merchantable.

In the fecond, I will fet downe all the commodities which weeknow the countrey by our experience doeth yeld of it felfe for victuall, and fuftenance of mans life; fuch as is vfually fed vpo by the inhabitants of the countrey, as also by vs during the time we were there.

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

The first part of Marchantable commodities.



Ilke of graffe or graffe Silke. There is a kind of graffe in the countrey vppon the blades whereof there groweth very good filke in forme of a thin glittering skin to bee stript of. It groweth two foote and a halfe high or

better : the blades are about two foot in length, and half inch broad. The like groweth in Perfia, which is in the felfe fame climate as Virginia, of which very many of the filke

A briefe and true report

filke workes that come from thence into Europe are made. Hereofif it be planted and ordered as in Perlia, it cannot in reafon be otherwife, but that there will rife in fhorte time great profite to the dealers therein; feeing there is fo great vfe and vent thereof as well in our countrey as els where. And by the meanes of fowing & planting it in good ground, it will be farre greater, better, and more plentifull then it is. Although notwith ftanding there is great flore thereof in many places of the countrey growing naturally and wilde. Which alfo by proof here in England, in making a piece of filke Grogran, we found to be excellent good.

Worme Silke : In manie of our ionrneyes we found filke wormes fayre and great; as bigge as our ordinary walnuttes. Although it hath not beene our happe to have found fuch plentie as elfewhere to be in the countrey we have heard of, yet feeing that the countrey doth naturally breede and nourifh them, there is no doubt but if art be added in planting of mulbery trees and others fitte for them in commodious places, for their feeding and nourifhing; and fome of them carefully gathered and hufbanded in that fort as by men of skill is knowne to be neceffarie : there will rife as great profite in time to the Virginians, as thereof doth now to the Perfians, Turkes, Italians and Spaniards.

Flaxe and Hempe: The trueth is that of Hempe and Flaxe there is no great flore in any one place together, by reafon it is not planted but as the foile doth yeeld it of it felfe; and howfoeuer the leafe, and flemme or stalke doe differ from ours; the stuffe by the iudgemet of men of skill is altogether as good as ours. And if not, as further proofe should finde otherwise; we have that experience of the foile, as that there cannot bee showed anie reason

of the new found land of Virginia.

reason to the contrary, but that it will grow there excellent well; and by planting will be yeelded plentifully:feeing there is fo much ground whereof fome may well be applyed to fuch purposes. What benefite hereof may growe in cordage and linnens who can not eafily vnderstand?

Allum: There is a veine of earth along the fea coaft for the fpace of fourtie or fiftie miles, whereof by the iudgement of fome that have made triall heere in England, is made good Allum, of that kinde which is called Roche Allum. The richneffe of fuch a commoditie is fo well knowne that I neede not to faye any thing thereof. The fame earth doth alfo yeelde White Copresse, Nitrum, and Alumen plameum, but nothing fo plentifully as the common Allum; which be alfo of price and profitable.

Wapeib, a kinde of earth fo called by the naturall inhabitants; very like to terra Sigillata: and having beene refined, it hath beene found by fome of our Phisitions and Chirurgeons to bee of the fame kinde of vertue and more effectuall. The inhabitants vse it very much for the cure of fores and woundes: there is in divers places great plentie, and in fome places of a blewe fort.

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

Saffafras, called by the inhabitantes Winauk, a kinde of wood of most pleasant and sweete sinel; and of most rare vertues in phisick for the cure of many diseases. It is found by experience to bee farre better and of more view then the wood which is called Guaiacum, or Lignum view. For B 2.

A briefe and true report

the description, the manner of vsing and the manifolde vertues thereof, I referre you to the booke of Movardus, translated and entituled in English, The isyfull news from the West Indies.

Cedar, a very fweet wood & fine timber; wherof if nefts of chefts be there made, or timber therof fitted for fweet & fine bedfteads, tables, deskes, lutes, virginalles & many things elfe, (of which there hath beene proofe made already,) to make vp fraite with other principal commodities will yeeld profite.

Wine: There are two kinds of grapes that the foile doth yeeld naturally: the one is fmall and fowre of the ordinarie bigneffe as ours in England, the other farre greater & of himfelfe lufhious fweet. When they are planted and husbanded as they ought, a principall commoditie of wines by them may be raifed.

Oyle: There are two fortes of *Walnuttes* both holding oyle, but the one farre more plentifull then the other. VVhen there are milles & other deuifes for the purpole, a commodity of them may be raifed becaufe there are infinite flore. There are also three feuerall kindes of *Berries* in the forme of Oke akornes, which also by the experience and vse of the inhabitantes, wee finde to yeelde very good and sweete oyle. Furthermore the *Beares* of the countrey are commonly very fatte, and in fome places there are many: their fatnesse because it is fo liquid, may well be termed oyle, and hath many speciall vses.

Furres: All along the Sea coaft there are great ftore of Otters, which beeyng taken by weares and other engines made for the purpole, will yeelde good profite. Wee hope alfo of Marterne furres, and make no doubt by the relation of the people but that in fome places of

of the countrey there are flore : although there were but two fkinnes that came to our handes . Luzarnes allo we have vnderstanding of, although for the time we faw none.

Deare fkinnes dreffed after the manner of Chamoes or vndreffed are to be had of the naturall inhabitants thoufands yeerely by way of trafficke for trifles: and no more waft or fpoyle of Deare then is and hath beene ordinarily in time before.

Cinet cartes: In our trauailes, there was founde one to have beene killed by a faluage or inhabitant: and in an other place the fmell where one or more had lately beene before: whereby we gather befides then by the relation of the people that there are fome in the countrey: good profite will rife by them.

Iron: In two places of the countrey fpecially, one about fourefcore and the other fixe fcore miles from the Fort or place where wee dwelt : wee founde neere the water fide the ground to be rockie, which by the triall of a minerall man, was founde to holde yron richly. It is founde in manie places of the countrey elfe. I knowe nothing to the contrarie, but that it maie bee allowed for a good marchantable commoditie, confidering there the fmall charge for the labour and feeding of men : the infinite flore of wood: the want of wood and deereneile thereof in England : & the neceffity of ballafting of fhippes.

Copper: A hundred and fiftie miles into the maine in two townes wee founde with the inhabitaunts diuerfe fmall plates of copper, that had beene made as wee vnderstood, by the inhabitantes that dwell farther into the countrey: where as they fay are mountaines and B'3. rivers

Rivers that yeelde alfo whyte graynes of Mettall, which is to bee deemed *Silver*. For confirmation whereof at the time of our first arrivall in the Countrey, I fawe with fome others with mee, two finall peeces of filuer grofly beaten about the weight of a Testrone, hangyng in the eares of a *Wiroans* or *chiefe Lorde* that dwelt about fourefcore myles from vs; of whom thorowe enquiry, by the number of dayes and the way, I learned that it had come to his handes from the fame place or neere, where I after vnderstood the copper was made and the white graynes of mettall founde. The aforefaide copper wee also founde by triall to holde filuer.

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

Sweete Gummes of diuers kindes and many other Apothecary drugges of which wee will make speciall mention, when wee shall receive it from such men of skill in that kynd, that in taking reasonable paines shall

I hall difcouer them more particularly then wee haue done; and than now I can make relation of, for want of the examples I had prouided and gathered, and are nowe loft, with other thinges by caufualtic before mentioned.

Dyes of diners kindes : There is Shoemake well knowen, and vied in England for blacke; the feede of an hearbe called Wasewowr; little small rootes called Chappacor; and the barke of the tree called by the inhabitaunts Tangomockomindge : which Dies are for divers fortes of red : their goodneffe for our English clorhes remayne yet to be proued. The inhabitants vie them onely for the dying of hayre; and colouring of their faces, and Mantles made of Deare skinnes; and alfo for the dying of Rushes to make artificiall workes withall in their Mattes and Baskettes; having no other thing befides that they account of, apt to vie them for. If they will not proue merchantable there is no doubt but the Planters there shall finde apte vies for them, as also for other colours which weeknowe to be there.

Oade; a thing of fo great vent and vse amongst English Diers, which cannot bee yeelded sufficiently in our owne countrey for spare of ground; may bee planted in Virginia, there being ground enough. The grouth therof need not to be doubted, when as in the llandes of the Afores it groweth plentifully, which is in the same climate. So likewise of Madder.

We carried thither Suger canes to plant which beeing not fo well preferued as was requifit, & befides the time of the yere being past for their fetting when we arrived, wee could not make that proofe of them as wee defired. Not-

Notwithstanding, seeing that they grow in the fame climate, in the South part of Spaine and in Barbary, our hope in reason may yet cotinue. So likewise for Orenges, and Lemmons: there may be planted also Quinfes. Wherby may grow in reasonable time if the action be diligently profecuted, no small commodities in Sugers, Suckets, and Marmalades.

Many other commodities by planting may there also bee raifed, which I leaue to your diferet and gentle confiderations : and many alfo bee there which yet we have not discouered. Two more commodities of great value one of certaintie, and the other in hope, not to be planted, but there to be raifed & in fhort time to be prouided and prepared, I might have specified. So likewife of those commodities already set downe I might have faid more; as of the particular places where they are founde and best to be planted and prepared : by what meanes and in what reasonable space of time they might be raifed to profit and in what proportion; but because others then welwillers might bee therewithall acquainted, not to the good of the action, I have wittingly omitted them: knowing that to those that are well disposed I hane vttered, according to my promife and purpole, for this part fufficient.

The

of the new found land of Virginia. The fecond part of fuche commodities as Virginia is knowne to yeelde for vietuall and fustenance of mans life, vfually fed vpon by the naturall inhabitants : as alfo by vs during the time of our aboad. And first of fuch as are fowed and busbanded.



Agatowr, a kinde of graine fo called by the inhabitants; the fame in the Weft Indies is called Mayze : English men call it Guinney wheate or Turkie wheate, according to the names of the countreys from whence the like hath beene

brought. The graine is about the bigneffe of our ordinary English peaze and not much different in forme and shape: but of divers colours: some white, some red, some yellow, and fome blew. All of them yeelde a very white and fweete flowre: beeing vied according to his kinde it maketh a very good bread. Wee made of the fame in the countrey fome mault, where of was brued as good ale as was to bee defired. So likewife by the help of hops therof may bee made as good Beere. It is a graine of marueilous great increase; of a thousand, fifteene hundred and some two thousand fold. There are three fortes; of which two are ripe in an eleven and twelve weekes at the moftfometimes in ten, after the time they are let, and are then of height in stalke about fixe or seven foote. The other fort is ripe in fourteene, and is about ten foote high; of the stalkes some beare foure heads, some three, some one, and two : euery head containing fiue, fixe, or feuen hundred graines within a fewe more or leffe. Of these graines befides bread, the inhabitants make victuall eyther

ther by parching them; or feething them whole vntill they be broken; or boyling the floure with water into a pappe.

Okindgier, called by vs Beanes, because in greatnesse & partly in thape they are like to the Beanes in England; sauing that they are flatter, of more divers colours, and some pide. The lease also of the stemme is much different. In taste they are altogether as good as our English peaze.

Wickenzowr, called by vs Peaze, in respect of the beanes for distinction fake, because they are much less although in forme they little differ; but in goodness of task much, & are far better then our English peaze. Both the beanes and peaze are ripe in tenne weekes after they are fet. They make them victual either by boyling them all to pieces into a broth; or boiling them whole vitill they bee fort and beginne to breake as is vsed in England, eyther by themselves or mixtly together: Sometime they mingle of the wheate with them. Sometime also beeing whole fodden, they bruse or pound them in a morter, & thereof make loaues or lumps of dowishe bread, which they vse to eat for varietie.

Macécquer, according to their feuerall formes called by vs, Pompions, Mellions, and Gourdes, because they are of the like formes as those kindes in England. In Virginia fuch of severall formes are of one taste and very good, and do also spring from one seed. There are of two forts; one is ripe in the space of a moneth, and the other in two moneths.

There is an hearbe which in Dutch is called *Melden*. Some of those that I describe it vnto, take it to be a kinde of Orage; it groweth about foure or fiue foote high : of the seed thereof they make a thicke broth, and potrage of a

of a very good tafte: of the stalke by burning into a files they make a kinde of falt earth, wherewithall many vie fometimes to seafon their brothes; other falte they knowe not. We our felues vied the leaues also for pothearbes.

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

All the aforefaide commodities for victuall are fet or fowed, fometimes in groundes a part and feuerally by théfelues; but for the most part together in one ground mixtly: the manner thereof with the dreffing and preparing of the ground, because I will note vnto you the fertilitie of the foile; I thinke good briefly to describe.

The ground they neuer fatten with mucke, dounge or any other thing; neither plow nor digge it as we in England, but onely prepare it in fort as followeth. A fewe daies before they fowe or fet, the men with wooden inftruments, made almost in forme of mattockes or hoes with long handles; the women with fhort peckers or parers, because they vse them fitting, of a foote long and a. bout five inches in breadth : doe onely breake the vpper part of the ground to rayle vp the weedes, graffe, & old stubbes of corne stalkes with their rootes. The which after a day or twoes drying in the Sunne, being scrapte vp into many small heapes, to faue them labour for carrying them away; they burne into afhes, (And whereas fome may thinke that they vie the ashes for to better the grounde; I fay that then they would eeyther difperfe the afhes abroade; which wee observed they doe nor, except the heapes bee too great : or els would take C 2.

rake speciall care to set their come where the ashes lie, which also wee finde they are carelesse of.) And this is all the hus banding of their ground that they vie.

Then their fetting or fowing is after this maner. First for their corne, beginning in one corner of the plot, with a pecker they make a hole, wherein they put foure graines with that care they touch not one another, (about an inch afunder) and couer them with the moulde againe : and fo through out the whole plot, making fuch holes and ving them after fuch maner : but with this regard that they bee made in rankes, euery ranke differing from other halfe a fadome or a yarde, and the holes allo in euery ranke, as much. By this meanes there is a yarde fpare ground betwene euery hole : where according to different there, they fet as many Beanes and Peaze : in divers places allo among the feedes of Macocquer Melden and Planta folis.

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

I thought allo good to note this vnto you, y you which fhall inhabite and plant there, maie know how fpecially that countrey corne is there to be preferred before ours: Befides the manifold waies in applying it to victuall, the increase is fo much that small labour and paines is needful in respect that must be vsed for ours. For this I can affure you that according to the rate we have made proofe of, one man may prepare and husband so much grounde (having

(hauing once borne corne before) with leffe then foure and twentie houres labour, as fhall yeelde him victuall in a large proportion for a twelue moneth, if hee haue nothing elfe, but that which the fame ground will yeelde, and of that kinde onelie which I haue before fpoken of: the faide ground being alfo but of fiue and twentie yards fquare. And if neede require, but that there is ground enough, there might be raifed out of one and the felffame ground two haruestes or ofcomes; for they fowe or fet and may at anie time when they thinke good from the middest of March vntill the ende of Iune: fo that they alfo fet when they haue eaten of their first croppe. In some places of the countrey notwithstanding they haue two haruests, as we haue heard, out of one and the fame ground.

For English corne neuertheles whether to vse or not to vse it, you that inhabite maie do as you shall haue farther cause to thinke best. Of the grouth you need not to doubt : for barlie, oates and peaze, we haue seene proof of, not beeing purposely fowen but fallen casually in the worst fort of ground, and yet to be as faire as any we haue euer seene here in England. But of wheat because it was must y and had taken falt water wee could make no triall: and of rye we had none. Thus much haue I digreffed and I hope not vnnecessarily : now ewill I returne againe to my course and intreate of that which yet remaineth appertaining to this Chapter.

There is an herbe which is fowed a part by it felfe & is called by the inhabitants *vppówoe*: In the Weft Indies it hath divers names, according to the feuerall places & countries where it groweth and is vfed: The Spaniardes generally call it *Tobacco*. The leaves thereof being dried and brought into powder: they vfe to take the fume or C 3.

Imoke thereof by fucking it through pipes made of claic into their flomacke and heade; from whence it purgeth fuperfluous fleame & other groffe humors, openeth all the pores & paffages of the body by which meanes the vle thereof, not only preferueth the body from obftructions; but alfo if any be, fo that they have not beene of too long continuance, in fhort time breaketh them : wherby their bodies are notably preferued in health, & know not many greeuous difeafes wherewithall wee in England are oftentimes afflicted.

This *Vppomoc* is of fo precious estimation amongest the, that they thinke their gods are maruelously delighted therwith: VV herupon sometime they make hallowed fires & cast fome of the pouder therein for a facrifice:being in a storme vppon the waters, to pacific their gods, they cast fome vp into the aire and into the water: fo a weare for fish being newly set vp, they cast fome therein and into the aire: also after an escape of danger, they cast fome into the aire likewise: but all done with strange geftures, stamping, sometime dauncing, clapping of hands, holding vp of hands, & staring vp into the heaues, vttering therewithal and chattering strange words & noises.

We our felues during the time we were there vfed to fuck it after their maner, as also fince our returne, & haue found manie rare and wonderful experiments of the vertues thereof; of which the relation woulde require a volume by it felfe, the vfe of it by formanie of late, men & women of great calling as elfe, and fome learned Philitions also, is fufficient witnes.

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

Of Rootes. Penauk are a kind of roots of round forme, fome of the bignes of walnuts, fome far greater, which are found in moift & marifh grounds growing many together one by another in ropes, or as thogh they were faitnened with a ftring. Being boiled or fodden they are very good meate.

Okeepenank are also of rosid shape, found in dry grosids: fome are of the bignes of a mans head. They are to be eaten as they are taken out of the ground, for by reason of their drinesses they will neither roste nor seeth. Their tast is not so good as of the former rootes, notwith standing for want of bread & sometimes for varietie the inhabitats vse to eate them with fish or stesh, and in my indgement they doe as well as the houshold bread made of rie heere in England.

Kailbúcpenauk a white kind of roots about the bignes of hen egs & nere of that forme: their taft was not fo good to our feeming as of the other, and therfore their place and manner of growing not fo much cared for by vs:the inhabitants notwith standing vfed to boile & eate many.

T finaw a kind of roote much like vnto ý which in England is called the China root brought from the Eaft Indies. And we know not anie thing to the contrary but that it maie be of the fame kind. Thefe roots grow manie together in great clufters and doe bring foorth a brier ftalke, but the leafe in fhape far vnlike; which beeing supported by the trees it groweth neerest vnto, wil reach or climbe to the top of the highess. From these roots while they be new or fresh beeing chopt into small pieces & stampt, is strained with water a juice that maketh bread, & also being boiled a very good spoonemeate in maner of a gelly, and is much better intast if it bee tempered with oyle. C4. This

This Tfinan is not of that fort which by fome was cauled to be brought into England for the China route, for it was difcouered fince, and is in vie as is afore faide: but that which was brought hither is not yet known eneither by vs nor by the inhabitants to ferue for any vie or purpofe; although the rootes in fhape are very like.

Coscushaw, some of our company tooke to bee that kinde of roote which the Spaniards in the West Indies call Caffany, whereupon alfo many called it by that name: it groweth in very muddle pooles and moist groundes. Being drefled according to the countrey maner, it maketh a good bread, and alfo a good fponemeate, and is vfed very much by the inhabitants : The juice of this root is poilon, and therefore heede must be taken before any thing be made therewithall: Either the rootes mult bee first fliced and dried in the Sunne, or by the fire; and then being pounded into floure wil make good bread:or els while they are greene they are to bee pared, cut into pieces and stampt; loues of the fame to be laid neere or ouer the fire vntill it be foure, and then being well pounded againe, bread, or spone meate very god in taste, and holfome may be made thereof.

Habafcon is a roote of hoat tafte almost of the forme and bignesse of a Parsencepe, of it felfe it is no victuall, but onely a helpe beeing boiled together with other meates.

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

of the new found land of Virginia. Of Fruites.

Heftmuts, there are in divers places great ftore: fome they vie to eaterawe, fome they stampe and boile to make spoonemeate, and with some being sodde they make fuch a manner of dowe bread as they vfe of their beanes before mentioned.

Walnuts : There are two kindes of Walnuts, and of the infinit ftore: In many places where very great woods for many miles together the third part of trees are walnuttrees. The one kind is of the fame tafte and forme or litle differing from ours of England, but that they are harder and thicker (helled: the other is greater and hath a verie ragged and harde shell : but the kernell great, verie oylie and fweete. Belides their eating of them after our ordinarie maner, they breake them with ftones and pound them in morters with water to make a milk which they vie to put into some forts of their spoonmeate; also among their fodde wheat, peaze, beanes and pompions which maketh them have a farre more pleafant tafte.

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

Metaquefunnauk, a kinde of pleafaunt fruite almost of the shape & bignes of English peares, but that they are of a perfect red colour as well within as without. They grow on a plant whofe leaues are verie thicke and full of prickles as sharpe as needles. Some that have bin in the Indies, where they have feen that kind of red die of great price

price which is called *Caehinileiro* grow, doe defcribe his plant right like vnto this of *Meraquefunnauk* but whether it be the true cochinile or a baftard or wilde kind, it cannot yet be certified feeing that also as I heard, *Cochinile* is not of the fruite but founde on the leaves of the plant, which leaves for fuch matter we have not fo fpecially observed.

Grapes there are of two forts which I mentioned in the marchautable commodities.

Straberies there are as good & as great as those which we have in our English gardens.

Mulberies, Applesrabs, Hurts or Hurtleberies, Such as wee naue in England.

Sacquenummener a kinde of berries almost like vnto capres but fomewhat greater which grow together in clufters vpon a plant or herb that is found in fbalow waters: being boiled eight or nine hours according to their kind are very good meate and holefome, otherwife if they be caten they will make a man for the time franticke offextremely ficke.

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

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

Of a kinde of fruite or berrie in forme of Acorne's.

THere is a kind of berrie or acome, of which there are fiue forts that grow on feueral kinds of trees3the one is called Sagatemener, the fecond Of amener, the third Pummuckoner. These kind of acorns they vie to drie vpon hurdles made of reeds with fire vnderneath almost alter the maneras we dry malt in Englad. When they are

to be vied they first water them vntil they be foft & then being fod they make a good victual, either to eate fo fimply, or els being allo pounded, to make loaues or lumpes of bread, These be also the three kinds of which, I faid before the inhabitants vied to make fweet oyle.

An other fort is called Sapúmmener which being boiled or parched doth eate and tafte like vnto cheftnuts. They fometime also make bread of this fort.

The fifth fort is called Mangummenauk, and is the acome of their kind of oake, the which beeing dr'ed after the maner of the first forces, and afterward watered they boile them, & their fernants or fometime the chiefe the. felues, either for variety or for want of bread, doe cate them with their fifh or flefh.

Of Bealtes.

Eare, in fome places there are great ftoremeere vn-) to the sea coast they are of the ordinarie bignes as ours in England, & fome leffe : but further vp into the countrey where there is better feed they are greater: they differ from ours onely in this, their tailes are longer and the fnags of their hornes looke backward.

Conies, Those that we have seen & al that we can heare of are of a grey colour like vnto hares: infome places there are fuch plentie that all the people of fome townes make them mantles of the furre or flue of the skinnes of those they vsually take.

Saquenúckot & Maquomoe: two kindes of finall beaftes greater then conies which are very good meat. We neucr tooke any of them our felues, but fometime eate of fuch as the inhabitants had taken & brought vnto vs.

Squirels which are of a grey colour, we have take & eate D 2 Beares

Beares which are all of black colour. The beares of this countrey are good meats the inhabitants in time of winter do vie to take & eate manie, fo alfo fom time did wee. They are taken commonlie in this fort. In fome llands or places where they are, being hunted for, as foone as they have fpiall of a man they prefently run awaie, & then being chafed they clime and get vp the next tree they can, from whence with arrowes they are thot downe flarke dead, or with those wounds that they may after eafily be killed; we fometime fhotte them downe with our caleguers.

I have the names of eight & twenty feuerall fortes of beafts which I have heard ofto be here and there differfed in the coutrie, effectially in the maine: of which there are only twelve kinds that we have yet diffeouered, & of those that be good meat we know only them before metioned. The inhabitants fomtime kil the Lyon & eat him: & we fortime as they came to our hands of their *Wolver* or *wolyth Dogges*, which I have not fet downe for good meat, least that fome woulde vnderstand my indgement therin to be more simple than needeth, although I could alleage the difference in taste of those kindes' from ours, which by fome of our company have beene experimented in both.

Of Foule.

Vrkie cockes and Turkie hennes : Stockdoues : Partridgess Cranes: Hernes: & in winter great flore of Swannes & Geefe. Of al fortes of foule I have the names in the countrie language offoures fore and fixe of which number besides those that be named, we have taken, eaten, & have the pictures as they were there drawne with the names of the inhabitaunts of severall strange fortes of water

water foule eight, and feueteene kinds more of land foul, although wee have feen and eaten of many more, which for want of leafure there for the purpose coulde not bee pictured : and after wee are better furnished and stored vpon further difcouery, with their firange beaftes, fifhe, trees, plants, and hearbes, they shall bee also published.

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

Of Fishe.

Or foure monethes of the yeere, February, March, Aprill and May, there are plentie of Sturgeons . And alfo in the fame monethes of Herrings, fome of the ordinary bigneffe as ours in England, but the most part farre greater, of eighteene, twentie inches, and fome two foote in length and better; borh these kindes of fishe in those monethes are most plentifull, and in best season, which wee founde to bee most delicate and pleafaunt meate.

There are alfo Troutes : Porpoifes : Rayes : Oldwines: Mullets: Plaice: and very many other fortes of excellent good fifh, which we have taken & eaten, whole names I know not but in the countrey language; wee have of twelue forts more the pictures as they were drawn in the countrey with their names.

The inhabitants vie to take the two maner of wayes. the one is by a kind of wear made of reedes which in that countréy are very ftrong. The other way which is more ftrange, is with poles made fharpe at one ende, by fhooting them into the fifh after the maner as Irishmen cast dartess either as they are rowing in their boates or els as they

shey are wading in the shallowes for the purpose.

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

Seacrabbes, such as we have in England.

Oysters, fome very great, and fome finall; fome rounde and fome of a long shape: They are founde both in falt water and brackish, and those that we had out of salt water are far bester than the other as in our owne countrey.

Alfo Muscles : Scalopes : Periwinkles : and Creuises.

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

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

And thus have I made relation of all fortes of victuall that we fed vpon for the time we were in *Virginia*, as alfo the inhabitants themfelues, as farre foorth as I knowe and can remember or that are specially worthy to bee remembred.

The

¶ The third and last part of fuch other thinges as is behoofull for those which shall plant and inhabit to know of; with a defcription of the nature and manners of the

> people of the countrey. Of commodities for building and other necessary vses.



Hofe other things which I ammore to make rehearfall of, are fuch as concerne building, and other mechanicall neceffarie vies; as diuers fortes of trees for house & ship timber, and other vses els: Alfo lime, ftone, and brick, leaft that being not mentioned fome might have bene doubted of, or by fome that are malicious reported the contrary,

Okes, there are as faire, straight, tall, and as good timber as any can be, and alfo great ftore, and in fome places very great.

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

Firre trees fit for mafts of thips, fome very tall & great.

Rakiock, a kind of trees fo called that are fweet wood of which the inhabitans that were neere vnto vs doe commõly make their boats or Canoes of the form of trowes; only with the helpe of fire, hatchets of ftones, and fhels; we have known fome fo great being made in that fort of one tree that they have carried well xx.men at once, befides much baggage: the timber being great, tal, ftreight, fofr, light, & yet tough enough I thinke (befides other vfes) to be fit alfo for masts of thips.

Cedar, a fweet wood good for feelings, Chefts, Boxes, Bcd-

Bedsteedes, Lutes, Virginals, and many things els, as I have also faid before. Some of our company which have wandered in fome places where I have not bene, have made certaine affirmation of *Cyprus* which for fuch and other excellent vses, is also a wood of price and no small estimation.

Maple, and alfo Wich-hazle; wherof the inhabitants vie to make their bowes.

Holly a necessary thing for the making of birdlime.

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

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

Elme.

Saffafras trees.

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

There are many other strange trees whose names I knowe not but in the *Virginian* language, of which I am not nowe able, neither is it so convenient for the prefent to trouble you with particular relation : feeing that for timber and other necessary vies I have named sufficient: And of many of the rest but that they may be applied to good yfe, I know no cause to doubt.

Now for Stone, Bricke and Lime, thus it is. Neere vnto the Sea coaft where wee dwelt, there are no kinde of ftones to bee found (except a fewe fmall pebbles about foure miles off) but fuch as haue bene brought from farther

farther out of the maine. Infome of our voiages wee have seene divers hard raggie stones, great pebbles, and a kinde of grey stone like vnto marble, of which the inhabitants make their hatchets to cleeue wood. Vpon inquirie wee heard that a little further vp into the Countrey were of all fortes verie many, although of Quarries they are ignorant, neither have they vie of any flore whereupon they should have occasion to seeke any. For if euerie housholde baue one or two to cracke Nuttes, grinde shelles, whet copper, and sometimes other stones for hatchets, they have enough : neither vie they any digging, but onely for graues about three foote deepe: and therefore no maruaile that they know neither Quarries, nor lime ftones, which both may bee in places neerer than they wot of.

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

This much can I fay further more of frones, that abour 120 miles from our fort neere the water in the fide of

of a hill was founde by a Gentleman of our company, a great veine of hard ragge stones, which I thought good to remember vato you.

Of the nature and manners of the people.

T refleth I fpeake a word or two of the naturall inhabitants, their natures and maners, leauing large difcourfe thereof vntill time more conuenient hereafter: nowe onely fo farre foorth, as that you may know, how that they in refpect of troubling our inhabiting and planting, are not to be feared; but that they fhall have caufe both to feare and loue vs, that fhall inhabite with them.

They are a people clothed with loofe mantles made of Deere skins, & aprons of the fame rounde about their middles; all els naked; of fuch a difference of flatures only as wee in England; hauing no edge tooles or weapons of yron or fteele to offend vs withall, neither know they how to make any: thofe weapons y they haue, are onlie bowes made of Witch hazle, & arrowes of reeds; flat edged truncheons alfo of wood about a yard long, neither haue they any thing to defed the felues but targets made of barks; and fome armours made of flickes wickered together with thread.

Their townes are but finall, & necre the fea coaft but few, fome containing but 10. or 12. houfes: fome 20. the greatest that we have feene have bene but of 30. houfes: if they be walled it is only done with barks of trees made fast to stakes, or els with poles onely fixed vpright and close one by another.

Their

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

In fome places of the countrey one onely towne belongeth to the gouernment of a *Wiróans* or chiefe Lordes in other fome two or three, in fome fixe, eight, & mores the greateft *Wiróans* that yet we had dealing with had but eighteene townes in his gouernment, and able to make not aboue feuen or eight hundred fighting men at the most: The language 'of euery gouernment is different from any other, and the farther they are diffant the greater is the difference.

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

If there fall out any warres between vs & them, what their fight is likely to bee, we having advantages againft them fo many maner of waies, as by our difcipline, our ftrange weapons and deuifes els; especially by ordinance: great and finall, it may be easily imagined; by the experience we have had in some places, the turning vp of their heeles against vs in running away was their best defence.

In respect of vs they are a people poore, and for want of skill and iudgement in the knowledge and vie of our things, doe effeeme our trifles before thinges of greater value : Notwithstanding in their proper manner confidering the want of fuch meanes as we have, they feeme very ingenious; For although they have no fuch tooles, nor any fuch craftes, fciences and artes as wee; yet in those thinges they doe, they shewe excellencie of wit. And by howe much they vpon due confideration shall finde our manner of knowledges and craftes to exceede theirs in perfection, and speed for doing or execution, by fo much the more is it probable that they should ede_ fire our friendships & loue, and have the greater respect for pleafing and obeying vs. Whereby may bee hoped if meanes of good gouernment bee vied, that they may in fhort time be brought to civilitie, and the imbracing of true religion.

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

They beleeue that there are many Gods which they call *Montóac*, but of different fortes and degrees; one onely chiefe and great God, which hath bene from all eternitie. VVho as they affirme when hee purpofed to make the worlde, made first other goddes of a principall order to bee as meanes and instruments to bee vfed in the creation and gouernment to follow; and after the Sunne, Moone, and Starres, as pettie goddes and the instruments of the other order more principall. Frst they fay were made waters, out of which by the gods was made all diuersitie of creatures that are visible or inuisible.

For

For mankind they fay a woman was made first, which by the woorking of one of the goddes; conceined and brought foorth children : And in fuch fort they fay they had their beginning.

But how manie yeeres or ages have paffed fince, they fay they can make no relatio, having no letters nor other fuch meanes as we to keepe recordes of the particularities of times past, but onelic tradition from father to fonne.

They thinke that all the gods are of humane shape, & therfore they represent them by images in the formes of men, which they call Kemafomok one alone is called Kewás; Them they place in houses appropriate or temples which they call Machicomuck; Where they woorthip, praie, fing, and make manie times offerings vnto them. In some Machicomuck we have seene but on Kewas, in fome two, and in other fome three; The common fort thinke them to be also gods.

They beleeue also the immortalitie of the foule, that after this life as foone as the foule is departed from the bodie according to the workes it hath done, it is cyther carried to heauen the habitacle of gods, there to enjoy perpetuall bliffe and happine fe, or els to a great pitte or hole, which they thinke to bee in the furthest partes of their part of the worlde towarde the funne fet, there to burne continually: the place they call Popoguffo.

For the confirmation of this opinion, they tolde mee two stories of two men that had been lately dead and reunded againe, the one happened but few yeres before our comming into the countrey of a wicked man which hawing beene dead and buried, the next day the earth of the graue beeing feene to moue, was taken vp againe; Who made declaration where his foule had beene, that 13

E 3.

is to faie very neere entring into *Popoguffo*, had not one of the gods faued him & gaue him leaue to returne againe, and teach his friends what they fhould doe to auoid that terrible place of torment.

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

VVhat fubtilty focuer be in the Wiroances and Prieftes, this opinion worketh fo much in manie of the common and fimple fort of people that it maketh them have great refpect to their Gouernours, and alfo great care what they do, to avoid torment after death, and to enjoy bliffes although notwith ftanding there is punifhment ordained for male factours, as ftealers, whore moongers, and other fortes of wicked doers; fome punifhed with death, fome with forfeitures, fome with beating, according to the greatnes of the factes.

And this is the fumme of their religio, which I learned by having special familiarity with some of their priestes. Wherein they were not so fure grounded, nor gaue such credite to their traditions and stories but through conuer-

conuerling with vs they were brought into great doubts of their owne, and no finall admiration of ours, with earness defire in many; to learne more than we had meanes for want of perfect viterance in their language to expresse.

Most thinges they fawe with vs, as Mathematicall instruments, sea compasses, the vertue of the loadstone in drawing yron, a perspective glasse whereby was shewed manie strange sightes, burning glasses, wildefire woorkes, gunnes, bookes, writing and reading, fpring clocks that feeme to goe of themfelues, and manie other thinges that wee had, were fo straunge vnto them, and fo farre exceeded their capacities to comprehend the reason and meanes how they should be made and don'e, that they thought they were rather the works of gods then of men, or at the least wife they had bin given and taught vs of the gods. Which made manie of them to have fuch opinion of vs, as that if they knew not the trueth of god and religion already, it was rather to be had from vs, whom God fo fpecially loued then from a people that were fo fimple, as they found themfelues to be in comparison of vs. Whereupon greater credite was giuen vnto that we spake of concerning such matters. ~

Manie times and in euery towne where I came, according as I was able, I made declaration of the contentes of the Bible; that therein was fet foorth the true and onelie GOD, and his mightie woorkes, that therein was contayned the true doctrine of faluation through Chrift, with manie particularities of Miracles and chiefe poyntes of religion, as I was able then to vtter, and thought fitte for the time. And although I told them the booke materially & of it felf was not of anie fuch vertue, as I through they did conceine, EA

but onely the doctrine therein contained; yet would many be glad to touch it, to embrace it, to kille it, to hold it to their brefts and heades, and ftroke onerall their bodie with it; to fhewe their hungrie defire of that knowledge which was spoken of.

The Wiroans with whom we dwelt called Wingins, and many of his people would be glad many times to be with vs at our praiers, and many times call vpon vs both in his owne towne, as alfo in others whither he fometimes accompanied vs, to pray and fing Pfalmes; hoping thereby to bee partaker of the fame effectes which wee by that meanes alfo expected.

Twife this Wiroans was fo grieuoufly ficke that he was like to die, and as hee laie languifhing, doubting of anie helpe by his owne prieftes, and thinking he was in fuch daunger for offending vs and thereby our god, fent for fome of vs to praie and bee a meanes to our God that it would pleafe him either that he might line or after death dwell with him in bliffe; fo likewife were the requeftes of manie others in the like cafe.

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

There could at no time happen any ftrange fickneffe, loffes, hurtes, or any other croffe vnto them, but that they would impute to vs the caufe or meanes thereof for offending or not pleafing vs,

One other rare and strange accident, leaving others, will I mention before I ende, which mooued the whole countrey

countrey that either knew or hearde of vs, to have vs in. wonderfulladmiration.

There was no towne where we had any fubrile deuife. practifed against vs, we leaving it vnpunished or not reuenged (because wee sought by all meanes possible to win them by gentleneffe) but that within a few dayes after our departure from euerie fuch rowne, the people began to die very fast, and many in short space; in some townes about twentie, in some fourtie, in some fixtie, & in one fixe fcore, which in trueth was very manie in respect of their numbers. This happened in no place that wee coulde learne but where wee had bene, where they vied some practife against vs, and after such time; The difease allo fo strange, that they neither knew what it was, nor how to cure it; the like by report of the oldest men in the countrey neuer happened before, time out of A thing fpecially observed by vs as also by the minde. naturall inhabitants themfelues.

Infomuch that when fome of the inhabitantes which were our friends & efpecially the Wiroans Wingina had ob ferued fuch effects in foure or five towns to follow their wicked practifes, they were perfwaded that it was the worke of our God through our meanes, and that wee by him might kil and flaie whom wee would without weapons and nor come neere them.

And thereupon when it had happened that they had vnderstanding that any of their enemies had abused vs in our iourneyes, hearing that wee had wrought no reuenge with our weapons, & fearing vpon some caule the matter should so rest: did come and intreate vs that we woulde bee a meanes to our God that they as others that had dealt ill with vs might in like fort die; alleaging howe much it would be for our credite and profite, as

as allo theirs; and hoping furthermore that we would do fo much at their requests in respect of the friendship we prosesse them.

VVhofe entreaties although wee fhewed that they were vngodlie, affirming that our God would not fubiect him felfe to anie fuch praiers and requestes of men: that in deede all thinges have beene and were to be done according to his good pleasure as he had ordained : and that we to thew our felues his true feruants ought rather to make petition for the contrarie, that they with them might live together with vs, bee made partakers of his truth & ferue him in righteous fues but notwith the fuch fort, that we referre that as all other thinges, to bee done according to his divine will & pleasure, and as by his wifedome he had ordained to be beft.

Yet because the effect fell out so fodainly and shortly after according to their defires, they thought neuertheless they thought neuertheless they thought neuertheless they though the source of the source source of the source of the source of the source source of the source of the source of the source source of the s

This maruelous accident in all the countrie wrought fo ftrange opinions of vs, that fome people could not tel whether to think vs gods or men, and the rather becaufe that all the fpace of their fickneffe, there was no man of ours knowne to die, or that was fpecially ficke: they noted alfo that we had no women amongit vs, neither that we did care for any of theirs.

Some therefore were of opinion that wee were not borne of women, and therefore not mortall, but that wee were men of an old generation many yeeres past then riscen

fen' againe to immortalitie.

Some would likewife feeme to prophefic that there were more of our generation yet to come, to kill theirs and take their places, as fome thought the purpofe was by that which was already done.

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

To confirme this opinion their philitions to excule their ignorance in curing the difease, would not be ashamed to fay, but earnestly make the simple people beleue, that the strings of blood that they sucked out of the sicke bodies, were the strings where withall the inuisible bullets were tied and cast.

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

And other fome faide that it was the special woorke of God for our fakes, as wee our felues have cause in some forte to thinke no less, what some cause in mais imagine to the contrarie, specially fome Aftrologers knowing of the Eclipse of the Sunne which wee faw the same yeere before in our voyage thy therward, which vnto them appeared very terrible. And also of a Comet which beganne to appeare but a few daies before the beginning of the faid sicknesse. But to conclude them from being the special causes of so special an accident, there are farther reasons then I thinke fit at this present to bee alleadged.

These their opinions I have set downe the moreau F.2, large

large that it may appeare vnto you that there is good hope they may be brought through difcreet dealing and gouernement to the imbracing of the trueth, and confequently to honour, obey, feare and loue vs.

And although fome of our companie towardes the ende of the yeare, fhewed themfelues too fierce, in flaying fome of the people, in fome towns, vpon caules that on our part, might eafily enough haue been borne withall: yet notwith ftanding becaule it was on their part iuftly deferued, the alteration of their opinions generally & for the most part concerning vs is the leffe to bee doubted. And what foeuer els they may be, by carefulness of our felues neede nothing at all to be feared.

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

The Conclusion.

Now I have as Ihope made relation not of fofewe and final things but that the countrey of men that are indifferent & wel difpofed maie be fufficiently liked : If there were no more knowen then I have mentioned, which doubtleffe and in great reafon is nothing to that which remaineth to bee difcouered, neither the foile, nor commodities. As we have reafon fo to gather by the difference we found in our travails; for although all which I have before fpoke of, have bin difcouered & experimented not far fro the fea coaft where was our abode & most of our travailing : yet fom times as we made our iourneies farther into the maine and countrey; we found the foyle to bee fatter; the trees greater and to growe thinn cr

thinner; the grounde more firme and deeper mould; more and larger champions; finer graffe and as good as ever we faw any in England; in fome places rockie and farre more high and hillie ground; moré plentie of their fruites; more abundance of beaftes; the more inhabited with people, and of greater pollicie & larger dominions, with greater townes and houfes.

Why may wee not then looke for in good hope from the inner parts of more and greater plentic, as well of other things, as of those which wee haue alreadie discouered? Vnto the Spaniardes happened the like in discouering the maine of the West Indies. The maine also of this countrey of *Virginia*, extending fome wayes fo many hundreds of leagues, as otherwise then by the relation of the inhabitants wee haue most certaine knowledge of, where yet no Christian Prince hath any possession or dealing, cannot but yeeld many kinds of excellent commodities, which we in our discouerie haue not yet seene.

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

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

For the holfomnesse thereof I neede to fay but thus much: that for all the want of prouision, as first of English victually excepting for twentie daies, we eliued only by drinking water and by the victual of the countrey, of F 3. which

which fome forts were very straunge vnto vs, and might have bene thought to have altered our temperatures in fuch fort as to have brought vs into fome greeuous and dangerous difeafes: secondly the want of English meanes, for the taking of beaftes, fifthe, and foule, which by the helpe only of the inhabitants and their meanes, coulde not bee fo fuddenly and eafily prouided for vs, nor in fo great numbers & quantities, nor of that choife as otherwife might have bene to our better fatisfaction and contentment. Some want also wee had of clothes. Furthermore, in all our trauailes which were most special and often in the time of winter, our lodging was in the open aire vpon the grounde. And yet I fay for all this, there were but foure of our whole company (being one hunddred and eight) that died all the yeere and that but at the latter ende thereof and vpon none of the aforefaide caufes. For all foure efpecially three were feeble, weake, and fickly perfons before ever they came thither, and those that knewe them much marueyled that they liued fo long beeing in that cafe, or had adventured to trauaile.

Seeing therefore the ayre there is fo temperate and holfome, the foyle fo fertile and yeelding fuch commodities as I have before mentioned, the voyage alfo thither to and fro beeing fufficiently experimented, to bee perfourmed thrife a yeere with eafe and at any feafon thereof: And the dealing of *Sir Water Raleigb* fo liberall in large giving and graunting lande there, as is alreadie knowen, with many helpes and furtherances els: (The leaft that hee hath graunted hath beene five hundred acres to a man onely for the adventure of his perfon): I hope there remaine no caufe wherby the action fhould be mifliked.

If that those which shall thither travaile to inhabite and plant bee but reasonably prouided for the first yere as those are which were transported the last, and beeing there doe vie but that diligence and care as is requifite, and as they may with ease : There is no doubt but for the time following they may have victuals that is excellent good and plentie enough; fome more Englishe fortes of catraile also hereafter as some have bene before, and are there yet remaining, may and shall bee God willing thither transported : So likewise our kinde of fruites, rootes, and hearbes may bee there planted and fowed, as fome have bene alreadie, and prove wel. And in fhort time also they may raise of those fortes of commodities which I have spoken of as shall both enrich them felues, as also others that shall deale with them.

And this is all the fruites of our labours, that I have thought necessary to aduertife you of at this prefent: what els concerneth the nature and manners of the inhabitants of Virginia: The number with the particularities of the vovages thither made; and of the actions of fuch that have bene by Ser Water Raleigh therein and there imployed, many worthy to bee remembred; as of the first difcouerers of the Countrey: of our Generall for the time Sir Richard Greinuile; and after his departure, of our Gouernour there Master Rafe Lanes with diuers other directed and imployed vnder theyr gouernement : Of the Captaynes and Masters of the voyages made fince for transportation; of the Gouernour and affiftants of those alredie transported, as of many perfons, accidents, and thinges els, I haue ready in a discourse by it felf in maner of a Chronicle according to the

to the course of times, and when time shall bee thought convenient shall be also published.

Thus referring my relation to your fauourable constructions, expecting good fucceffe of the action, from him which is to be acknowledged the authour and gouernour not only of this but of all things els, I take my leaue of you, this moneth of February. 1 588.

FINIS.

Faults escaped

B 4. pag. I.lin. 10. for, Tangomóckoming reade, Tangomoskonomindge. B.4. pag. 2. lin. 10. for, alfo be; reade, alfo may be C.4. pag. 2. lin. 21. for, god in tafte: reade, good in tafte. The reft if any be the diference Reader may eafily amend.

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