of these islands excited the zeal of entilusiasts, and the cupidity of speculators, and a plan was set on foot to colonize then. The Virginia company sold their right to the islands to one hundred and twenty of their own members, who ercected themselvesinto a distinct corporation, under the name of the "Sorner Island Society;" and Mr. Riclard More was sent out, in 1612, as governor, with. sixty men, to found a colony: and this leads me to the secend branch of this research.
the thabe kings of behmuda, and their treasure of amberghis.
At the time that Sir George Sonners was preparing to launch his cedar-built bark, and sail for Virginia, there were three culprits among this men, who had been guilty of capital offences. One of them was slot ; the others, named Clristopher Carter and Edward Waters, escaped. Waters, indeed, made a very narrow escape, for he lad actually been tied to a tree to be executed, but eut the rope with a knif, which he haal concealed about lis person, and fled to the woods, where he was joinad by Carter. These two worthice kept themsel ves concealed in the secret parts of the $i$ land, until the departure of the two vesels. When Sir George Somers revisited the island in quest of supplies for the Virginia colony, these cul pritshovered about the landing-place, and succeceded in persuading auother seamnn, named Edward Chard, to join them, giving him the most seductive pictures of the ease and abuudance in which they revelled.

When the bark that bore Sir George's body to England had faded from the watery horizon, these three vagalonds walked forth in their majesty and might, the lords and sole inhahitants of these islands. For a time their fittle commonwealth went on prosperously and happily. They built a house, sowed corn, and the seeds of various fruits; and having plenty of hogs, wild fow, and tish of all kinds, with turtle in abundance, carried on their tripartite sovereignty with great harmony and much feasting. All kingdoms, however, are doomed to revolution, convulsion, or decay; and so it tired with the empire of the three kings of Bermula, albeit they were monarels without subjects. In an evil hour, in their search after turtle, among the fissures of the rocks, they come upon a great treasure of ambergris, which had beencast on shore by the ocean. Beside a number of pieces of smaller dimensions, there was one great mass, the largest that had ever been known, weighing ciglity pounds, and whicls of itself, necording to the market vaJue of ambergris in those days, was worth about nine or ten thousand pounds !
l'rom' that moment, the happiness and harmony of the three kings of Bermuda were gone for ever. While poor devils, with nothing to share but the common blessings of the island, which dedninistered to present enjoyment, and had nothing of convertible value, they, were loving and united : but liere was actual wealth; which would make them rich men, whenever they could tramsport it to a market.

Adeu the delights of the island! They now became flat and insipid. Each pictured to himself the consequence he might now aspire to, in civilized life, could he onee get there with this mass of ambergris. No longer a poor Jack Tar, frolicking in the low taverns of Wapping, he might roll through London in his coseh, ad perehance arrive, like Whittington, at the dignity of Lord Mayor.

With riches came envy and covetonsness. Fach was now for asituming the supreme power, and getting the monopoly of the aubergris. A civil war at length broke out: Chard amb Waters defied each other to mortsi combat, and the kinglom of the Bermudey was on the point ofbeing detuged with royal blood. Fortumately, Carter took no part in the hooly feud. Ambition might have'made him view it with secret exultation ; for if either or both of his-brother potentates were slain in the contict, he would be a winner in purss and ambergris. But he dreaded to be left alone in this uninhabited istand, and to find himself the monarch of a solitude: so be secertly purlomed and hid the werpons of the belligerent rivils, who, having no means of earrying on the war, gradually cooled down into a sulle: a amistice.

The arrival of Governor More, with an overpowering force of sicty mem, pat an end to the empire. Tle took possession of the hingdom, in the name of the Somer Island Company, and forthwith proceeded to make a settlement. The three kings tacitly relinguished their sway, but stood upstontly for their treasure. It was determined, however, that they had been litted out at the expease, and employed in the service, of the Virginia Company ; that tioy had fotad the ambergris while in the servie of that company, and on that company's land ; that the anbergris, therefore, belonged to that company, or ratiber to the Somer Island Compmy, in comequence of their reeent purehase of the island, and all their aplurtenances. Maving thus legally established their right, and being anoreover ahle to back it by might, the company laid the fion's paw upon the spoil; and nothing more remains on historic record of the 'Three Kings of Bermuda, and their treasure of ambergris.

The reader will now determine whether I an more extravagiant thin most of the commentators. on Shakspeare, in my surmise that the story of Sir George Somess' shipwreck, and the subsequent oceurrences that took place on the uminhabited island, may have furnithed the bard with some of the elements of his drama of the

Tempest. The tidings of the shipwreck, and of the incidents con nected with it, reached Engiand not long before the production of this drama, and made a great sensation there. A narrative of the whole matter, from which most of the foregoing particulars are extracted, was published at the time in London, in a pampliet form, and could not fail to be eagerly perused by Shakspeare, and to make a vivid impression on his fancy. His expression, in the Tempest, of "the still vext Bermoothes," accords exactly with the storm-beaten character of those islands. The enchantments, ioo, with which he has clothed the island of Prosperc, may they not be raced to the wild and superstitious notions entertained about the Bermudas? I have already cited two passages from a pamphlet published at the time, showing that they were esteemed "a mos prodigious and inchanted place," and the "habitation of divells; and another pamphlet, published shortly afterward, observes: "And whereas it is reported that this land of the Bermuda, with the is lands about, (which are many, at least an hundred,) are inchanted, and kept with evil and wieked spirits, it is a most idle and false тeport."*
The description, too, given in the same panphlet, of the real beanty and fertility of the Bermudas, and of their serene and happy climate, so opposite to the dangerous and inhospitable claracter with which they had been stigmatized, accords vith the eulogiun of Selastian on the island of Prospero
"Though this island seem to be desert, unimhabitable, and almost inaccessible, it must needs be of subtle, tender, and delicate temperament. The air breathes upon us here most sweetly. Here is every thing advantageous to life. How lush and lusty the grass looks! how green !"
I think, too, in the exulting consciousness of ease, security, and abundance, felt by the late tempest-tossed mariners, while revelling in the plenteousness of the island, and their inelination to remain there, released from the labours, the cares, and the artificial res traints of civilized life, I ean see something of the golden commonwealth of honest Gonzalo :

- Had I plantation of this isle, my lord,

And were the king of it, what would Ido?
I' the commonwealth I would hy contraries
Execute all things: for no kind of traftic
Would I arimit ; no name of magistrate ;
Letters should not be known; riches, poverty,
And use of service, none ; contract, succession,
Bourn, bound of lind, tilth, vincyard, none:
No uccupation; all men idle, all
All things in common, nature should produce, Without sweat or endeavour : Treason, felony, Sword, pike, knife, gun, or need of any engine, Would I not have; but nature should liring forth of its own kind, all foizon, all abundance
To feed my innocent people.
But above all, in the three fugitive vagabonds who remained in possession of the island of Bermuda, on the departure of their comrades, and in their quarrel about supremacy, on the finding of their treasure, 1 see typified Sebastian, Trinculo, and their worthy companion Caliban:
"Trinculo, the king and all our company being drowne?, we will inherit here."
" Monster, I will kill this man; his daughter and I will be king and gueen, (save our graces!) and Trinculo and thyself shall be viceroys."
I do not mean to hold up the incidents and characters in the narrative and in the play as parallel, or as being strikingly similar neither would I insinuate that the narrative suggested the play I would only suppose that Shakspeare, being occupied about that ime on the drama of the Tempest, the main story of which, I believe, is of Italian origin, had many of the fanciful idens of it suggested to his mind by the shipureck of Sir George Somers on the "still vext lhermoothes," and by the popular superstitions connected with these islands, and suddenly jut in circulation by that vent.
". Newes from the Bermudas:" 1612.

## comets

Y whinha mitcheld, of wasticket.
There is perhnus no department of astronomical science, connected with the solar system, of a nature more interesting than that of Comets, and certainly :o one which has so nearly defied the resarches and the reasonings of the astronomer. Aside from thes bodies, if such they may be called, the greater and the lesser lights have been subjected to rigorous weight and measure, and the solar system is emphatically the beaten way of the astromomer. Comets, however, have presented difficulties so insuperable, that in nater times the subject seems to have been nearly abandoned in despair. lmpressed forcibly in my youth by the beatiful appearance of the comet of 1807 , and, at a riper age, with those of 1811 1810,1825 , and 1835 , visible to the naked eye, and with others seen at various periods by telescopic aid, I have been led frequentIr to reflect on the probable nature and physical properties of these erratic objects, and especially on that distinguishing appendage, which by common consent is denominated the tail. In looking orer the history of comets, and noting the explanation of the trains, (with which they are for the most part attended) as given by many
distinguished astronomers, at periods very remote from- ench otber I an constrained to acknowledge, high as the authority unques tionably is, that no one has afforded to my mind the slightest satisfaction. Notwithstanding the great number of writers on this subject, and the diversity of opinions that have been promulgated, there appears to have been only two prevailing theories. The more, ancient of these supposed the tails to be fonned by the lighter part's being thrown off by the resistance of the ether through which the comet passed. The modern and the more gencrally prevailingtheory is, that these particles are drivert off by the impulsive force of the sun's rays. In each of these theories, the tails are supposed to consist of matter. With regard to the former theory, the simple fact that the tail precedes the comet in its course through a portion of its elliptical journer, is a sufficient refutation ; and to afford weight or plausibility to the latter, it is necessary to assume that the sun "blows heat and cold with the same breath-in other words, that it attracts and repels with the same modus operandi. If we have no cvidence of a repulsive force in the sun, to say nothing of a furce sufficient to repel the lighter particles of these bodies to a distance from the head of the comet, equal to and sometimes exceeding a hundred million of miles, this theory, to say the least of it, is laboured and unsatisfactory. The length of these trains is far from being exaggerated. Referring to my minutes of the late retirin of Halley's comet, I find that, at one period, the tail, by direct vision, subtended an angle of twenty degrees, and on some occasions, by oblique vision, more than forty degrecs. The tail of the comet of 1659 is said to exceed sixty-eight degrees, and that of the comet of 1680 , ninety degrees. Making a proper allowance for the faintness of the extremity of the tail, and the obstruction of the view by the atmosplhere of the earth, it is by no means unsafi to conclude that many of them extend some bundreds of millions of miles from the nucleus of the comet.
In view, then, of the last mentioned theory, it is by no means a matter of surprise that Newton, and with him LaPlace and Sir $J$. Herschel, should entertain the opinion that the more remote particles could never be recalled by the gravitation of the nuclens, and that portions of the tails were at each revolution seattered in space, and hence that comets were continually wasting.
Arago, in speaking of the then antieipated return of Halley's comet in 1835, makes the following remarks:-" It appears probable, that in describing their immense orbits, comets, at each revolution, dissipate in space all the matter which, when they are near the perihelion, is detached from the envelope forming the tail ; it is' therefore very possible that in time some of them may be eutirely: dissipated." But these views were not confirmed by the appearance of Halley's comet in 1835, and Arago has with a very becoming candour acknowledged this fact. "If the reader," says he', "will take the trouble to compare what I record of the comet of 1835, with the circumstances of its former apparition, he certainly' will not find in this collection of phenoinena; the proof that Hillley's conet is gradually diminishing. I will even say that if, in a matter so delicate, observations made at very different periods of the year will authorise any positive deduction, that which would mnst distinctly result from the two passages of 1759 and 1835 , would be that the comet had increased in size during that interval. I ought to scize with more engerness this occasion to combat an error extensively aceredited, (a belief in the constant masting away of comets) beeause I belisive 1 have somewhat contributed to its dissemination."
The truth is, as I apprebended, that the data on whicls this conjecture was based, are probably false, and the tails of comets, if the subject is properly investigated, will not be found to consist of matter at all that has the least comection with the comet, but formed by the sun's rays slightly refiacted by the nucleus in traversing the envelope of the comet, and uniting in an infinite nu:aber of points, beyond it, ihrowing a stronger than ordinary light on the ethercal me. dium, near to or more remote from the comet, as the ray from its relative position end direction is more or less refructed.
It is not important to the truth of this hypothesis whether the nucleus be a soliil mass or not, so that it be more dense than the surrounding nebulosity, nor yet that the tail be projected in an exact line with the radius vector of the sun and comet, so that it should be nearly so. It is, however, importart to its truth, that an ethergal medium should exist, otherwise the refection of these points would be impossille ; also, that the comet should assume the tail as it approaches the sun, and that it should progressively increase in length and brilliancy, the light of the sun increasing in the proportion of the square of the diminution of the distance; again, that the tail should have a cylindrical and hollow appearance, the rays of light being at least partially obstructed by the nucleus, moreover, that the tail should be curved, by the necessary effect of alerration. I apprehend it will be acknowledged that the weight of testimony is deeidedly favouralhe to the fact that the nuclei of comets, though they generally resemble planets in form and brilliancy, may not be solid or opaque, inasmueh as some are unquestionably transparent, and the quantity of matter in all is exceedingly inconsiderable.
Prefessor Struve saw a star of the eleventh magnitude througl the Encke comet; Sir William Herschel noticed one of the sisth magnitude through the centre of the comet of 1795 ; and his illustrious son, in a memoir communicated to the Royal Astronomical Society, mentions that he saw a cluster of stars of the sixteenth magnitude very near the ceutre of Biela's comet. Notwithistand:-

