

Miramichi, Tuesday Morning, December 29, 1840.

## THE NEW WORLD, QUARTO EDITION.

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On Saturday, the 2nd day of January, will be issued the first number of the Second Vol. of the QUARTO NEW WORLD This form, being convenient for binding and preservation, has been, and is much preforred by great numbers of our readers in city and country. Each number of the Quarto Edition contains the same articles as the Folio, with the ex-ceptions only of the advertisements and a few pummentant newspirants of an permanent innumportant news-items of no permanent in-terost. The second volume of the Quarto is commenced with the new year for the accom-modation and convenience of new subscribers, who, at that period, generally determine on the character and kind of periodicals best re-commended to their attention, and best worthy at their patronage.

Subscriber a their parronage. The New World was begun in the large, or tr GREG folio size, in October, 1839. It immediately acquired a circulation unproceedently great. It was ordered to be sent to all parts of the indebted country; it was sold in great numbers in the principal cities of the Union. The plan upon as the S king. It distinguishing feature was, that it E, are the source of the second sector of the second second sector of the second second sector of the second secon

immedial, BARN, Sedgwick, Longfellow, have few competers in their line, and few are worthy of being ranked ARN, their line, and few are worthy of being ranked at Free with them.
It was not to be wondered at that the New World became a great favourite with the intelligent and reading public. There was only one objection made to it—and that was to its eize. The Folio farm was the most popular but not most convenient for those who consider the works which it contained too valuable to be thrown aside. For such readers, the Quarto was commenced in June last and

the Quarto was commenced in June last, and for such it will be continued.

For the new volume, commencing in Janu-ary, we ask the abscriptions of all lovers of pure and elegant literature throughout the coun-try. We ask them too to favor us with their names immediately, that we may not fall short of the number that will be required in the of the number that will be required in this form. The reasonableness of this request will be understood when we state that orders are be understood when we state that orders are every day received for back numbers which cannat be supplied. Ten times the subscrip-tion price would now be cheerfully paid by those, who delayed to send early orders. The scarsity of old numbers is an admirable proof of their value; in them are contained works gold for sixpages and ense stilling which early sold for sixpence and one shilling, which cost in the original editions one dollar and some-ARTIND' times five dollars.

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dered more elegant in its external appear-grance. It will be embellished with engravings and music, chosen by a distinguished professor. TERMS.—Three Dollars a year, (same as the Folio) or Five Dollars for two copies,

## THE GLEANER.

## From the Yarmouth Herald. A LECTURE

A LECTURE Delivered before the Popils attending the Yarmouth Academy, Oct. 1840. ON THE HISTORY OF ASTRONOMY. ITS RISE, PROGRESS, AND REVOLUCIONS. I have thus endeavored to shew you that settonomical observations of a certain de-scription began in the very earliest ages; but here there could be but one instrument, the how izan, and one theory, the actual median of the rizon, and one theory, the actual motion of the heavenly body round the earth. Astronomical observations has always been one of the accompaniments of civilization, both in modern and ancient times, and however much we may conceive curseives entitled to look down upon the notions of our predecessors, we must not forget that in speaking of any country which possessed an astronomical theory worth so much as laughing at in modern times, we place that country in the list of exceptions to the rule which prevailed through the greater number. If the Chaldean system appear in-sufficient, or the Ptolemaic complicated, these are yet real results of thought and to a certain extent, actual representations of facts. Mungo Park, in the account of his travels in Africa mentions a tribe, whose opinion it was that the inhibitants of the west fried the san when he got down to them, and after heating him sufficiently for his next day's service, took him round by a private passage to the east. If we could collect the astronomy of the whole an-cient world, there can be little doubt that the comparatively humble efforts that I have stated would appear miracles of sense and reflec-tion among theories not much superior to Park's Africans.

Park's Africans. We come next to Greece. The Grecians never rose to any eminence is astronomy But they were too ingenious to conceal their knowledge under a cloak of mystery. The principal traits in the character of the ancient Greeks were simplicity and grandear. The Greek was his own instructor, and if he learned anything from others, he did it with freedom and independence. The mildness of their cli-mate, the lazariance of their soil, the pictures-and heatty and bewitching scenery of their que beauty and bewitching scenery of their que neatry and bewitching scenery of their country gave birth to an equal mixture of feel-ings of gentleness and sublimity. Composed of a variety of small seperate states, united by a confederate tie, they felt a generous rivalry to surpass each other in whatever could contri-bute to superse of each other in whatever could contribute to enlarge or adora the human understanding. Thus we find a noble simplicity per-vading everything that comes from them; when they were unable to account for the motion of the heavenly bodies they confessed their ignerance. The principal reason why the Greeks did not arrive a higher eminence in astrenemy was their want of mathematical science. The first of their astronomers was Thales the Milesian, who flourished about 580 B. C. He was the first who divided the year into 365 days. The story that he foretold an eclipse of the sun, although he may have only eclipse of the sun, although he may have only indicated the year of its occurrence, implies a more distinct knewledge of the solar system than he and his disciples appeared to have possessed; that is, supposing his prediction to have been founded on his observations and calculations. It is, however, probable that he may have been acquainted with the approach of an eclipse during his residence in Egypt or through the Phoenicians. At any rate it is cer-tain he forstold the year, but only the year

tain he forstold the year, but only the year in which the eclipse was to take place. It is worthy of note, that the school which was

called the Ionie, first taught that the stars were merely material bodies, and not according to

important that the calculation was engraved in letters of gold, when the number that mark the year of the cycle is still called golden. The philosophers of antiquity despairing of being able to overcome ignorance by reason, set themselves to adapt the one to the other, and form a reconciliation between them. The most celebrated of those who undertook to establish an hypothesis of this kind, and to defend it by a show of reason, was Ptolemy, an Egyptian Philosopher. His hypothesis was, that the earth was the immoveable centre of the earth, round which all the heavenly bodies moved as crystalline erbs, then the planets in the following order, Moon, Mercury, Venas, the Sun, Mars, Jupiter, Saturn. Above those planets he placed the firmament of the fixed stars, then crystalline spheres, then the primum mobile and last of all contant and stars. mobile, and last of all cœelam empirium, er heaven of heavens. All these vasterbs were imagined to move round the earth once in 24 hours, and also in certain stated or periodical times, agreeable to their annual changes and times, agreeable to their annual changes and appearances. Every star was supposed to be fixed in a solid transparent sphere like crys-tal; and ts accent for their different motions he was obliged to conceive a number of cir-cles called eccentrics or epicycles, which crossed and intersected each other in various directions, and val stransparents can then every crossed and intersected each other in various directions, and yet, strange to say, they never bappened to break ene another. If any new metton was discovered, a new heaven ef crys-tal was formed to account for it, so that, as Fontenelle observes, heavens of crystal cost him nothing, and he multiplied them without end to answer every purpose. The grand mis-take of all the old astronomers was in referring every motion to a circular motion, and it was take of all the old astronomers was in referring every motion to a circular motion, and it was because Ptolemy saw that the motion of the sun and seme of the planets was irregular, that he was led to invent the theory of defe-rents or epicycles. Ptolemy and Hipparchus did not believe in the existence of these circles, they culy stated them as hypothesis to aid in making calculations, and this first attempt of the human understanding towards the investigation of an object so very complicated, does great honor to the sagacity of its authar. The as-tronomical edifice which Ptolemy raised sub-sisted nearly 14 centuries, and new that it is destroyed, his Almagest considered as a depos destroyed, his Almagest considered as a depna sitory of ancient observations, is one of the most precious monuments of antiquity. The number of crystalline orbs was increused afterwards to an enormous amount. Purbach had about 120 of them. The kest and most splen-did description of this theory that I have ever-met with is contained in the Lusiad of Camens, translated by Mr. Mickel: the whole is, too long for quotation, but the following lines delineate the different heavenly spheres that were supposed to be encased one within another:-These spheres behold: the first in wide em-

brace. Surrounds the lesser orbs of various face;

The imperean this, the holiest heaven The imprease tins, the helest is given; To the pure spirits of the blest is given; No mortal eye its splendid rays may bear, No mortal bosom feel the raptures there. The earth in all her summer pride array. ed

To this might seem a dark sepalchral shade.

Unmoved it stands-within its shining frame. In motion swifter than the lightnings flame, Swifter than sight the moving parts may spy, Another sphere whirls round its rapid sky:

Hence motion darts its force, impalsive draws,

And on the other orbs impresses laws.' With Ptolemy the originality of the Greek school ends. Among the Romans astronomy

-a discovery which was then regarded as so dovs, evinced a lustre and liberality that were no where else io be met with and opened asy-Inms to the learned of every country But we must not overate the merits of the Arabian Astrenomers, since they confaced themselves entirely to the system of Ptolemy, and con-founded the science with the dreams of As-trolegy. But the tic between science and Mahammadanum was monetural and could trolegy. But the tie between science and Mahommedanism was unnatural, and could not centinue long. The religions of Mohammed is of itself a cloak damp to every generous purpose of the soul; and the few instances that it can boast of to the centrary, are only ex-ceptions to the general rule, scarce and scatter-ed cases or plots of verdure, that unexpectedly peep forth in the vast ocean of its sandy de-sert. All Mahommedan patronage of learning, therefore, has long since died away; and Ara-bia, which once shed so splendid a light on the rest of the world, is now sunk in darkness, while all the rest of the world is beaming with light around it. light around it.

"Those vast regions,' observes M. Lis-mondi, in his history of the middle ages, 'where Islamism rules, or has ruled, are dead to all the sciences. Those rich fields of Fez and Morocce, illustrious through five centuries by so many libraries, are now nothing more than deserts of burning sands, where tyrants dispute with tigers. All the laoghing and beautiful ceast of Mauritania, where' commerce, arts and agriculture were raised to the highest pros-perity, are at present mere retreats for pirates, who spread terrer, and resign their toils for abominable indulgences, as seen as the plague returns every year to make victums of them. and te avenge effended humanity. Bagdad, formerly the seat of power, of laxary, and of learning, is in ruins. The far-famed univer-sities of Lenfa and of Bassore are closed for-ever. We are no longer to seek there for the fame of their great men or for their writings. Whatever has been preserved is entirely in Morocco, illustrious through five centuries by Tame of their great men or for their writings. Whatever has been preserved is entirely in the hands of their enemies, in the convents of monks, or the libraries of European princes. Yet these extensive countries have never been conquered, it is no stranger that has plandered them of their riches, that has annihilated their population; that has destroyed their laws, their manners, and their national spirit. The poison has sprung from themselves it has

their manners, and their national spirit. The poison has sprung from themselves, it has risen indigenously, and destroyed everything." We have thus rapidly travelled over a wide and dreary desert, that like the sandy waste of Africa, to which I have just referred, has sel-dom been found refreshed by spots of verdure, or embellished by plants that should naturally belong to the country. Of the dark ages it may correctly be said:---No light, but only darkness visible. Served only to discover scenes of woe, Regions of horror, dolefol shades. It was my intention at first to have com-

It was my intention at first to have com-pressed into this one lecture a sketch of the pressed into this one lecture a sketch of the History of Astronomy down to its present state, but the subject has spun out farther than I anticipated, and as I thick it necessary to make you well acquainted with the different steps by which astronomers were scaling the heavens—if I may use the expression—until the Sun of Science shone forth in its meridian subender, in the person of the important New. splendor, in the person of the immortal New-ton. I shall take another opportunity of call-ing on you to visit with me the bold Coperni-cus whirling the unwieldy earth around the san; the poor, persecuted Galileo on his knees being obliged to rensance opinions of whese truth he entertained nø donbu: the Danish Tyche Brahe, in his observatory at Huena, where he reigned monarch of all he surveyed, and chief of all the far-famed University of Cambrige, around which Newton shed a halo of glory, that will last long as the triumphs of human genius are appreciated. splendor, in the person of the immortal Newhuman genius are appreciated.

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ular notion, divine beings. Pythagoras, who flourished thirty years after Thales, was well acquainted with the motion of the heavenly bodies. He is calebrated as being the first who laid the foundation of what is called the Copernican system at an antedate of 2200 years from the age of Copernicus; having taught his disciples that the earth revolves about both on her own axis and around the sun: that the latter motion is conducted in an oblique path; and that the moon is an earth of the same kind as our own, and replete with animals whose nature he does not pretend to describe. Copernicus himself admits that he derived the first hint of the earth's motion aroand the sun from Nicetas a follower of Py-thagoras - This system was so, extremely opposite to all the prejudices of sense and heres ditary notions of mankind, that it did not make great progress, nor was it ever widely diffused in the ancient world. After Pythagaras the Athenian Meton, introduced the famous lanar cycle of 19 years, at the end of which memorially been characteristic of their countime the new moon appears on the same day try. And hence when Europe was plunged

was never much esteemed. Elegance and accomplishments seem rather to have been the chief objects of attainment in the Augustan age than deep physical and analytical science. From that that period to the 16th century, one lang, dark night hung over science in general. This era has usually been described by the name of the dark or middle ages; and extends from the fall of Rome before the barbarous arms of the Goths, to the fall of Constantino ple before the equally barbareus arms of the Tarks, in the 15th century. Thus comprising a long afflictive night of over a thousand years However, in the midst of this gloomy period, a few bright and spiendid stars shot occasionally athwart the horizon; and in one or corners of a radiance at times poured forth like the dawn of the morning. Several of the Arabian Caliphs, as soon as the first paroxysm of their violence was exhausted, returned to that general love of literature which had im-

## United States. PRESIDENT'S MESSAGE.

From the above named document, we take the following extracts:

Our devout gratitude is due to the Supreme Being for having graciously continued to our Being for having graciously continued to our belaved country, through the vicissitudes o another year, the invaluable blsssings of health, plonty and peace. Seldom has this favoured land been so generally exempted from the ravages of disease, or the labor of the bushandman more amply remended and and husbandman more amply rewarded; and never before have our relations with other countries been placed on a more favorable basis than that which they so happily occupy at this critical juncture in the affairs of the world. A rigid and persevering abstience from all interference with the domestic and political relations of other States, alike due to the genius and dictinctive character of our Government and to of the year as at the beginning of it, since 19 in its thickest midnight, the eastern and wes-solar years constitute very nearly 235 lunations tern Caliphats, or Coarts of Bagdad and Cor-