

nem, qui vicem *Præfetti Annonæ* obiret, & in omnibus istis inferiorum *Decurionum Collegiis* primum teneret locum, id manifeste ex hac patet *Inscriptione*, ubi minores *Decuriones Bovillani* honorem faciunt *Equiti Romano & Palatino*, qui *Decurio seu Curialis & Fretriacus* in omnibus esset locis & urbibus, a quibus & per quas *Annona Ægyptiaca Romam* devehebatur. *Decuriones* vero promotos fuisse ad honorem *Sacerdotii*, ita ut simul *Flamines, Luperci, Epulones Jovis, & Parasiti fierent Apollinis*; & hoc quoq; multis constat exemplis. Omne vero dubium tollit, quod in hac *Inscriptione* eques ille *Romanus* vocetur *Antinoiton & Eunostidon* *Decurio*. *Antinoi* enim urbs præcipua tum temporis *Ægypti superioris* erat *Civitas*, unde per multas fossas frumentum deferebatur ad *Mareotin lacum*, qui ad *Eunosti portum* exit in *Mare*. Ab hoc portu dicti *Eunostida* curatores frumenti *Ægyptiaci*; unde demum confectus deus *Eunostus* rei frumentariæ *Inspector*, qui huic præsideret portui.

Several Observations of the Eclipse of *Jupiter* by the *Moon* on *March* the 31th. 1686. *St. Vet.* whereof some account has already been given in *Transaction* No. 181.

THE most accurate Observation of this Eclipse we have received, is that of *Mr. Cassini*, made in the *Royal Observatory* at *Paris*, published in the *Journal des Sçavans* of the 10th of *June* last, the substance whereof is as follows.

April 10th. *St. N. Vesperis* *Mr. Cassini*, assisted by other *Astronomers*, attended upon this *Occultation* with *Telescopes* of 21 and 70 foot, while one was deputed to take the *Altitudes* of γ to verifie the time.

At 9^h. 31^m. 6^{sec}. γ was in a perpendicular falling on the *Limb* of the γ over against the *Northern Part* of the spot *Grimaldi* (*Mareotis*) near to *Riccioli* (*stag. Miris*) and was distant from the *Limb* about four times as much as the said spot.

9^h.

9h. 40m. 21sec. ν touched the circumference of ν , which undulated by reason of the Vapours near the Horizon.

9. 41. 20. he quite disappeared in the inequalities of the ν 's Limb, the total Immerfion might be some feconds later.

So the central immerfion was at 9h. 40m. 51sec.

ν entred over againft that part of *Grimaldi* next *Riccioli*. The Vapeurs of the Horizon hindered the Obfervation of the Immerfions of the Satellites, but not their Emerfions, for

At 10h. 30m. 2sec. the *outermost* Satellite which preceded ν , appeared over againft the middle of the Caspian Spot (*pal. Maoris*) through which the fection of Light and Darknefs paffed, and made nearly an equilateral Triangle with the Extremities of that fpot.

At 10h. 40m. 24sec. the firft Limb of ν began to come out of the dark fide of the ν , over againft the North part of the Caspian fpot, about *Cleomedes*, (*ad montes Riphæos*)

At 10h. 40m. 56sec. the center of ν did emerge. It was difficult to diftinguifh the moment when ν 's difk was fully clear, but at 10h. 41m. 36sec. the Eclipse was certainly paff.

At the Emerfion of the Center, the Altitude of ν was 11d. 31m.

At 10h. 42m. 49f, the *second* Satellite, being the neareft of the three that followed the Planet, emerged.

At 10h. 45m. 1f. the *innermost* Satellite, being near its *greatest Elongation*, emerged.

At 10h. 50m. 40f. the *third* or *penextimus* Satelles, being *likewise near its greatest Elongation*, began to appear over againft the Northern Edge of the Caspian Spot.

At 11h. 45m. the Diameter of the ν was 32m. 27f. and according to the *calculus* of Mr. *Caffini*, her parallax was 61min.

Together with this Obfervation is joynd that of R. P. *Bonfa*. made at *Avignon* who obferved the central immerfion at 9h. 42m. 13f. and the central Emerfion at 10h. 45m. 26f.

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over against the Southern part of the Caspian Spot.

The same *P. Bonfa* has also observed at *Avignon* the other Eclipse of the same Planet, *April 28th. st. vet. Mane.* The Im-
merision of the Center hapned at *3h. 37m. 23f.* on the East
side of the Spot *Xenophanes.* The Emerision was at *4h. 28m.*
23f. between *Seneca* and *Berosus*, according to *Riccioli*, or
ad montes Aianos Hevelii, a little to the Northward of the
Palus Maotis. This occultation could not be observed at
Paris by reason of Clouds.

Another printed Paper about the Eclipse of *March 31th*, is
since come to hand from *Nurenburg*, where it was observed
part, by Mr. *I. Iac Zimmerman*, and by Mr. *Wurtzelbauer*,
the substance of whose Observations is as follows.

At *10h. 19m. 56f.* Mr. *Zimmerman* observed the first
contact of the Limbs of γ and the δ , and at *10h. 20m. 47f.*
 γ was all eclipsed.

At *11h. 22m. 51f.* γ was wholly clear from the Eclipse.

The Immerision was about the *117th*, the Emerision at the
321th. Degree of the Limb, in the Chart of *Hevelius.*

At *11h. 31m. 06f.* the third Satellite of γ emerged. These
times were collected from the Culminations of fixt Stars, and
the Vibrations of a Pendulum.

The Relation of the other Observer Mr. *Wurtzelbauer* is
to this purpose.

At *10h. 20m. 50f.* γ applyed to the Limb of the δ , over
against the *locapaludosa Insulae Circinnae.*

At *10h. 22m. 00f.* he appeared about half eclipsed.

At *10h. 22m. 30f.* he was wholly hid.

At *11h. 19m. 40f.* γ began to Emerge.

At *11h. 21m. 20f.* he was quite free from the interpositi-
on of the δ . The point of the Emerision was somewhat to
the North of the *Palus Maotis.*

No Spot in the δ was so near the apparent magnitude of
 γ s disk as the *Insula Besbicus Hevelii.*

At *11h. 40m. 00f.* the Altitude of *Procyon* was *8gr. 37m.*
whence the Pendulum Clock, which had been set by Alti-
tudes

tudes of the ☉ the afternoon preceding, may be examined.

The Account we have but now lately received from the famous Mr. *Hevelius* from *Dantzick*, of these same Eclipses, is contained in this following Discourse addressed in a Letter from the Observer to the *R. Society*.

Occultatio Jovis Anno 1686, die 10 April. st. n. vesperi, observata Gedani a Joh. Hevelio.

AD hanc Observationem summa alacritate accessi, non obstante invaletudine mea, cum Cœlum fere undeq; esset ferenum, nisi quod circa Horizontem, ubi Luna atq; Jupiter exoriri debebant, vapores quidam atq; nubeculæ existerent. Inprimis ex eo maximopere fui excitatus, quod hujus generis Observationes, Occultationes nempe Jovis admodum raro contingant, sed adhuc rarius ex voto observentur. Me quod attinet, scias, mi Lector, etiamsi hucusq; per 56 annos Rebus Cœlestibus pro meo modulo operam dederim, atq; nullam Observationem alicujus momenti, (absit gloriola) lubens neglexerim, haud feliciorum fuisse quam quod in hunc usq; diem spatio 50 circiter annorum, non nisi tres tales Jovis Eclipses rite deprehendere & annotare potuerim : utpote primam Anno 1646, die 24 Decemb. vesperi, sed tantummodo ejus finem : secundam, Anno 1679, die 5 Junii ante meridiem de die, quo tempore res omnis feliciter successit ; tertiam hoc Anno currente 1686 die 10 April. vesperi.

Quam Observationem, mi Astrophile, prout peragi potuit, a me nunc benevole accipias, rogo. Quæ vero obtenta, atq; annotata fuerunt, ex subsequente Tabella & Observationis Typo patebunt. Omnium primo nonnullas Altitudines Solis, & Arcturi Quadrante singula minuta commensurante observavi, ad corrigendum Horologium ambulatorium aliquanto tardius incedens. Deinde, exoriente atq; ex
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