Two Obſervations of the laſt Eclipſe November 30*th laſt, made at* Nuremberg; *the one by* Mr. G. C. Eimmart, *the other by* Mr. J. Ph. Wurtzelbaur: *Communicated by* Mr. Theodore Haak R. S. S.

THis Eclipſe of the *Moon* was the more remarkable, for that it fell out very near the *Apogæon* of the *Moon*, and was nearly central; ſo that the duration was as great as poſſible. But ſo it happened, that neither at *London* nor *Greenwich*, nor *Paris* it could be ſeen by reaſon of thick Clouds, for the whole time intercepting the ſight of the *Moon*: The only Account we have received is already publiſhed, from Letters of the famous Mr. *Hevelius* of *Dantzick*, in Num. 178 of theſe *Tranſactions*: and now theſe two from *Nuremburg*, made by the induſtrious Obſervers Mr. *Eimmart* and Mr. *Wurtzelbaur*.

The Obſervations of Mr. Eimmart *was as follows.*

9. *h.* 19. *min.* the *Penumbra* was very obſcure, and the begining of the Eclipſe was at hand.

9*h.* 23*m.* 30*s.* the Eclipſe was begun, the quantity almoſt half a *digit*, and the diſtance between the cuſps was about 42 *degrees* of the *Moon*'s limb, and *Palus Mareotis* was juſt all Eclipſed; hence we may conclude the beginning about 9*h.* 21*m.* 30*ſ.*

10*h.* 23*m.* 30*ſ.* as near as I can collect from the Obſervators words, was the time of the total Immerſion into the ſhaddow, to verefie which, the Azimuth of the *Moon*'s center was obſerved to the Eaſt, 41*gr.* 48*m.* 2*min.* 12*ſec.* of time after the ſaid Immerſion.

12*h.* 23*min.* or 10*m.* 13*ſec.* before the Culmination of the right ſhoulder of *Orion*, was the Emerſion or firſt appearance of the *Moon* out of the total Darkneſs.

13*h.* 14*min. fere* was the juſt end of the Eccliſe, being 2*m.* 20*ſec.* before the Culmination of *Sirius* or the great Dogg.

Whence

Whence the middle of this Eccliplſe ſhould have hapned at 11*h.* 18*min. P. M.* at *Nuremburgh:* the total duration 3*h.* 52*min.* 30*ſec.* and the total darkneſs 1*h.* 49*m.* 30*s.*

The Meridian Altitude of the *Moon*'s upper limb was obſerved 63*gr.* 23*m.* 50*ſec.* and the *Moon*'s apparent Diameter while totally Eclipſed was found 30*m.* 7*ſec.*

The other Obſerver Mr. *Wurtzelbaur* made uſe of the Pendulum Clock, corrected by *Altitudes.* According to his Obſervation.

9*h.* 23*m.* 30*ſec.* was the beginning of the Eclipſe, at about 119 *degrees* of the limb of the *Moon* in *Hevelius*'s *Selenography.*

9*h.* 24*m* 50*ſec. Paulus Mareotis* was all covered.

10*h.* 25*m.* 20*ſec.* The Total Immerſion; about the 299*th degree* of the limb of the *Moon.*

12*h.* 11*m.* 30*ſec.* The *Moon* began to emerge out of the ſhaddow, about the 112*th degree* of her limb.

13*h.* 14*m.* 30*ſec.* The End of the Eclipſe about the 295*th degree* of the limb.

By theſe Obſervations the middle of the Eclipſe ought to have been about 11*h.* 12*m. P. M.* at *Nuremburg*, differing but one *minute* from Mr. *Eimmart*'s Obſervation. The duration will be 3*h.* 51*min.* and the total Darkneſs 1*h.* 46*m.* The Longitude of *Nuremburg* has been formerly ſtated 11 *degrees* from *London*, and ſince found to be ſo by Obſervations of the laſt Eclipſe of the Sun *July* 2*d* 1684, which made it 44½*min.* of time. So that the middle of this Eclipſe at *London* ſhould have been 10*h.* 34½*m.* which from the Obſervation of Mr. *Hevelius* had been formerly concluded 10*h.* 35*m.*

An Extract of a Letter written from Aramont *in* Languedoc *near* Avignon, *giving an account of an extraordinary ſwarm of* Graſhoppers *in thoſe parts; communicated by Mr.* Juſtell R. S. S.

SInce you demand of me a Relation of the *Graſs-hoppers* that have eaten up our Harveſt the laſt Year, and which give