

*An Appendix touching Longitude.*

Which subtr. from the time of the Emersion at *London*. 13 hou. 7. min. 28. sec.

The difference of Meridians in respect of time will be 5: h. 18: m. 0. So that *Charlton* is remoued from *London* Westwards, 79. gr. 30. m.

This may likewise be confirmed by a second different obseruation made at the instant of the Moones Culmination or Mediation of Heauen, at which time the Altitude of the brightest Starre in the Asterisme of the Northerne Crowne, (being of the second Magnitude) was found to be 33. gr. 27. m. Easterly. Ann. 1632. *June* 23.

It may be Problematically deliuered after this manner.

Having the Latitude of a Place, with the Altitude of a knowne fixed Starre at the moment of the Culmination, to finde the Longitude.

This fixed Starre is of known longitude and latitude, therefore was his Declination 27: 59: and right ascension 229.46. Now by the resolution of a Sphæricall Triangle of 3. knowne sides we haue the distance of this Star from the Meridian, and by consequence the right ascension of the ☾, whence we conclude her Culmination to be with the 28: 10: m. of ♍. but the Moones true place was much lesse. Here note that the scrupulosity of time is vnknowne, and therefore we cannot argue the ☾ true place from thence (though I grant it might be euinced) for that were to begge the Question, and to know that first, which we looke after.

In the next place we are to inquire with what point of the Ecliptique the ☾ did culminate with vs here at *London*; that so from the difference of her places, of the like affection, we may deduce the difference of Meridians.

Obseruation on the ☾ Culmination here at *London* wee made none, therefore must we haue recourse to the aforesaid Tables of *Lansberg*, and from thence calculate the same. Now because the ☾ was not farre remoued from the ☉ opposite point. It will not be amisse to enquire first the ☾ place at midnight.

Sex. Gr. M. S.

The ☉ opposite place at midnight in ♍ 0 11. 18. 15.

The ☾ true place at midnight reduced to the

Ecliptique was in ♍ ————— 0. 23. 33. 18.