II. *Observations made at* Southwick, *in the County of* Northampton, Long. *West from* London, 00 deg. 30 min. Lat. 51 deg. 58 min. *nearly, with a thirteen foot* Telescope, *whose Aperture was* 2.4 *Inches, and Charge* 2.5 *Inches, all by apparent Time. By the ingenious* George Lynn, *Esq;*

1724. *Novemb. 8th*, 7^h 37′ 7″ the first Satellite of *Jupiter* began to emerge: The same Day at 6^h 24′ 20″. The third Satellite began to immerge,

1725. *July 31st*, 10^h 43′ 20″. The third Satellite immerged, that is I quite lost Sight of it, (at a little above a Semidiameter from *Jupiter*) but it began sensibly to abate of its Light above three Minutes before.

August 9th, 11^h 51′ 20″ I lost Sight of the second Satellite; but it began sensibly to abate of its Light, about two Minutes before.

August 18th, 9^h 25′ 50″. The first Satellite immerged very near *Jupiter*'s body.

The same Night, both my self and Son plainly saw the Shadow of the third Satellite pass over *Jupiter*'s body, like a small black Patch, tracing along the Middle of his bright Belt, above the most Southern Black one, and was in his Axis, as near as I could guess by the Eye, at 10^h 25, or 30′.

N. B. We could see it for about the middle Half of its Track, but not near *Jupiter*'s Edges.

Octob. 11th, 6^h 31′ 45″. The third Satellite began to emerge, and was full three Minutes and a half, before it was at its greatest Lustre, which I could then

then well judge of, by comparing it with the firſt Satellite, which was juſt a little above it, but nearer *Jupiter*. It came out of the Shadow, about half a Diameter from *Jupiter*'s Edge.

Decemb. 26*th*, 5^h 51′ 12″ the ſecond Satellite began to emerge.

1725-6, *Jan.* 5*th*, 6^h 28′ 30″. The third Satellite began to emerge.

1724 *June* 23*d*, 10^h 15′ *Saturn* followed a Star (in *Senex*'s *Zodiack* but without any diſtinguiſhing Mark) 51″ and an half of Right Aſcenſion in Time, and declin'd from it South 40″.

June 25*th*, 10^h 0′ *Saturn* followed the ſame Star, 13″ of Right Aſcenſion in Time, and declined from it South, 3″ or 4″ only,

1725. *Decemb.* 17*th*, 8^h 0′ *Jupiter* preceded φ *Aquarii* 4″ and an half of Right Aſcenſion in Time, and declin'd from it South 11′ 45″.

N. B. When two of *Jupiter*'s Satellites are paſſing by one another, the one approaching, the other receding from him (if not too far diſtant from his Body) the Time, when they become equally diſtant from his Limb, may, by the Eye, be very nearly determined, eſpecially when the firſt and ſecond ſo paſs, as by Experience I have found by the above mention'd Glaſs, within leſs than half a Minute in Time, by the Agreement of two good Obſervers.

Therefore the taking the Time of thoſe Paſſages, I mean of the firſt and ſecond Satellites, would be of more uſe in ſettling the Longitude of Places, than the Eclipſes of any of the Satellites, except the firſt, by Reaſon of the Length of Time they take in emerging, or immerging, according to theſe Obſervations.