An Extract of an account given by Mr. Flamstead of his own and Mr. Edmund Halleys Observations concerning the Spots in the Sun, appearing in July and August 1676.

He following Ephemeris was deduced from careful obfervations (made with the Micrometer) of the Diftances of the Spots from the Limb of the Sun, and the differ
rences of Altitudes and Azimurhs from the upper and unde,
parts and fides of him. The comparing of the Observations
made in two distant places, Greenwich and Oxford, do evince
the diligence of the Observers and the goodness of their Instruments; the differences between them being easily excusables,
for that the Spot had a diameter more considerable than any of
the differences, and was broken into several pieces. See Tab II.

Fig. 1.

	Grenovici	Longit. Lati-		Oxonii	
	Tempus observa- tionum.	from the tud.  cen-South	Jul.25	h. 6.46.P.M.Con. 28 dies nubili.	13.40 2.08
27	h. 10.03.A.M.Con.	9.34 3.25			
28	4.51	5.40 2.50	11		
29	10.31. A.M. 3.54. P.M.	3.05 3.27		6.2 1. A.M.	3.55 3.22
30	9.15. A.M.Ant.		11	7.20.A.M.	0.00 3.3%
31			31	7.40.A.M.	3.363.28
1.Aug.	2.24 A.M.	6.484.09	i.Aug.	7.03.A.M.	6.54 3.50
	0 0 0 A M			5.06. P.M.	8.07 3.53
2	8.08. A.M. 9.36. A. M.	9.493.55		7.16. A.M. 5.09. P.M.	13.15 3.55
3	4.16 <sup>2</sup> P.M.	12.553.58		6.02. P.M.	13.253.26
O,	7.38. A. M.	14.02 4.04		7.33. A.M.	114 073.14
		•		14.54. P.M.	14.433.23

Mr. Hally faith, that he faw the Spot again on the fifth day at 8<sup>h.</sup> 30' mane, very near the limb of the Sun, so that it appeared only as a fine line; but by reason of its fineness and the too great height of the Sun he could not take any measures to determine its place and latitude by; and that, while the Spot XXXX continued

continued one, as it was July 25, he measured to the middle of it; as also when the pieces were divided, but not far disjoyned: Afterwards, when they were separated considerably, he observed the middle of the bigger Spot, which was to the South, apparently, I suppose; but really, North: for so only his Observations will agree with those of Mr. Flamstead exactly.

Hence it leems very evident (faith Mr. Flamstead.) that the Spots way was not inclined to the Ecliptick fix or seven degrees, as Scheiner and some others make it, but much less, by the joynt consent of the observations of both our Ob-Mr. Hally adds, that confidering the motion of the 'Spot cross the Suns disque, as both their Observations give it. it appears, that the Latitude was not so great at its Entrance. ' into the Sun as in the Middle of him. And by Mr. Flamsteads 'Observation it was greatest on the first of August, and then again inclining towards the Ecliptick. If you grant this, it 'will follow, (infers Mr. Flamstead) that the Suns Axis was inclined to the plain of the Orbis Magnus; but the quantity of this Inclination wust not be very great. The Nodes of 'the Suns Equinox and Ecliptick he guesses to be not far from 'the beginning of Cancer and Capricorn; and that from Cancer to Capricorn the Earth is North of the Suns Equator; from \* Capricorn to Cancer, South of the same: And the period of the Suns revolution in respect of the fixed Stars 25 daies, '9! hours sufficiently exact. Of which things, these two Obfervers fay, they might have been more certain, had not the Spot in its passage broken into so many parts, and those often varied their positions to each other. These Conjectures though probable, yet when another of the like phanomena appears. will fill deserve the further consideration of the Curious.

