

VII. *Some Observations of Eclipses of Jupiter's Satellites, made by Geo. Lynn, Esq; at Southwick, near Oundle in Northamptonshire; Communicated in a Letter to James Jurin, M.D. F. R. S. and Fellow of the Royal College of Physicians, London.*

S I R,

HEARING that some Foreigners enquired for Observations of the Eclipses of *Jupiter's* Satellite, I have sent what I had of that Sort: They are indeed but few these two last Years, on account of my Absence during part of the Time for Observation, and also on account of the small Arc *Jupiter* has lately made above our Horizon. The Telescope I made use of is the same as formerly, having a thirteen Foot Object-Glass, with an Aperture of two Inches and four Tenths, and an Eye-Glass of two Inches and an half Focus. By apparent Time, at *Southwick, near Oundle in Northamptonshire*, Longitude West from *London*, 00 Deg. 30 Min. as follows :

	Month.	D.	h.	'	"			
1730. The 2d Satellite began	} April	29	10	19	20			
to emerge						} bright as the 4th Satellite	20	20
It seemed in a Minute after to be as								
And at full Brightness about	—	21	20					
					The			

		Month.	D.	h.	'	''	
17 ²² / ₃₀ .	The 4th Satellite emerged	<i>Jan.</i>	25	9	45	nearly	
1730.	The 2d began to immerge	<i>Nov.</i>	28	13	17	46	
	And was quite out of Sight	at		19	46		
1731.	The 2d began to emerge	<i>March</i>	29	11	33	8	
	And seem'd at full Brightness about			36	30		
	The 1st Satellite began	}	<i>April</i>	18	11	45	10
	to emerge						
	And was at full Brightness about			46	10		
	Again the 1st began to emerge	<i>May</i>	4	10	4	30	
	Was at full Brightness about	—		5	45		
	And passed by the 3d Satellite	at	11	49	30		
17 ³⁰ / ₃₁ .	The 1st Satellite began to	}	<i>Jan.</i>	7	12	2	55
	immerge						
	And was quite out of Sight about			4	25		
17 ³¹ / ₃₂ .	The 3d Satellite began to	}	<i>Jan.</i>	28	14	16	00
	immerge						
	Was but equal in Light to the 2d at			19	00		
	Quite gone at	—	—	24	00		
1732.	The 2d Satellite began	}	<i>April</i>	30	12	23	57
	to emerge						
	The 1st Satellite began	}	<i>May</i>	6	12	48	44
	to emerge						
17 ³² / ₃₃ .	The 3d Satellite quite	}	<i>Febr.</i>	18	13	5	30
	difappeared						
1733.	Again the 3d Satellite	}	<i>April</i>	2	13	3	30
	difappear'd						
	But it began to fail of its Light			about 5 or 6 Minutes before.			
1735.	The 2d Satellite immerged	<i>May</i>	28	10	45	00	
	The 3d began to emerge	<i>August</i>	3	9	10	30	
	And was 4 or 5 Minutes before it came to its full						
	Brightness.						