

XVII. *A Catalogue of the Immerfions and Emerfions of the Satellites of Jupiter, for the Year 1751. of which there are 172 of the Firft, 87 of the Second, 62 of the Third, and none of the Fourth, by reason of its great Latitude; in all 321. Computed to the Meridian of London from the Flamfteedian Tables: Corrected by James Hodgfon, F. R. S. Mafter of the Royal Mathematical School in Chrift's-Hofpital.*

ECLIPSES of the *firft* Satellite of JUPITER.

Emerfions.				Emerfions.				Emerfions.			
D.	H.	M.	S.	D.	H.	M.	S.	D.	H.	M.	S.
JANUARY.				19	4	42	14	5	21	30	17
				20	23	10	49	7	15	59	18
1	11	58	56	22	17	39	31	9	10	28	20
3	6	16	58	24	12	8	12	11	3	57	27
5	0	55	4	26	6	36	56	12	23	26	35
6	19	25	17	28	0	5	46	14	17	55	41
8	13	51	35	29	19	25	35	16	12	24	53
10	8	19	52	31	14	3	27	18	6	54	01
12	2	48	15	FEBRUARY.				20	1	23	14
13	21	16	40	2	8	32	25	21	19	52	30
15	15	45	6	4	3	1	17	23	14	21	54
17	10	3	41					25	8	51	1

ECLIPSES of the first Satellite of JUPITER.

Emerfions.				Immerfions.				Immerfions.			
D.	H.	M.	S.	D.	H.	M.	S.	D.	H.	M.	S.
27	3	20	20	31	20	49	59	6	16	10	4
28	21	49	40					8	0	38	28
MARCH.				JUNE.				9	18	6	53
				Immerfions.				11	13	35	21
2	16	19	0	2	15	14	23	13	8	3	49
4	10	48	19	4	9	42	20	15	2	34	10
6	5	17	38	5	5	10	46	16	21	0	51
7	23	46	59	7	22	39	12	18	15	29	25
9	18	16	20	9	17	6	50	20	9	58	9
11	12	45	40	11	11	35	0	22	4	26	39
13	7	15	2	13	6	3	7	23	22	55	20
15	1	44	22	15	0	31	21	25	17	24	3
16	20	13	45	16	18	59	29	27	11	52	46
18	14	43	5	18	13	27	42	29	6	21	27
20	9	12	25	20	7	54	46	31	0	50	15
22	3	41	38	22	2	23	57	AUGUST.			
23	22	10	41	23	20	52	7	1	19	19	3
25	16	39	40	25	15	20	5	3	13	47	53
Immerfions.				27	9	48	31	5	8	16	46
				29	4	16	44	7	2	45	39
				30	22	45	2	8	21	14	32
				JULY.				10	15	43	29
24	18	52	50	2	17	13	21	12	10	12	30
26	13	21	11	4	11	41	39	14	4	41	26
28	7	49	23								
30	2	17	44								

ECLIPSES of the first Satellite of JUPITER.

Immersion.				Immersion.				Immersion.							
D.	H.	M.	S.	D.	H.	M.	S.	D.	H.	M.	S.				
15	23	10	29	25	16	19	17	NOVEMBER.							
17	17	39	30	27	10	48	20	1	20	22	55				
19	12	8	33	29	5	17	18	3	14	51	4				
21	6	37	36	30	23	46	17	5	9	19	27				
23	1	6	40	OCTOBER.				7	3	47	15				
24	19	35	46					8	22	15	24				
26	14	4	53					10	16	43	53				
28	8	34	0					12	11	11	42				
30	3	3	7					14	5	39	54				
31	21	32	13					16	0	7	56				
SEPTEMBER.								2	18	15	9	☉ ♃ ♁			
2	16	1	15					4	12	44	7	Emersions.			
4	10	30	29					6	7	13	0	21	9	40	59
6	4	59	32					8	1	41	53	23	4	9	10
7	23	29	24	9	20	10	38	24	22	37	32				
9	17	57	44	11	14	39	27	26	17	4	9				
11	12	26	52	13	9	8	17	28	11	32	50				
13	6	55	57	15	3	36	57	30	6	0	51				
15	1	25	2	16	22	5	39	DECEMBER.							
16	19	54	9	18	16	34	21	2	0	28	42				
18	14	23	12	20	11	2	56	3	18	58	48				
20	8	52	14	22	5	31	32	5	13	24	34				
22	3	21	19	24	0	0	5								
23	21	50	19	25	18	28	38								
				27	12	17	7								
				29	7	25	40								
				31	1	54	6								

ECLIPSES of the first Satellite of JUPITER.

Emerfions.				Emerfions.				Emerfions.			
D.	H.	M.	S.	D.	H.	M.	S.	D.	H.	M.	S.
7	7	52	22	16	4	12	3	25	0	21	57
9	2	20	43	17	22	40	1	26	18	59	55
10	20	48	26	19	17	8	10	28	13	28	58
12	15	15	47	21	11	35	58	30	7	55	59
14	9	44	10	23	6	3	57				

ECLIPSES of the second Satellite of JUPITER.

Emerfions.				Emerfions.				Emerfions.			
D.	H.	M.	S.	D.	H.	M.	S.	D.	H.	M.	S.
JANUARY.				FEBRUARY.				6 19 41 36			
				2 19 48 12				10 9 1 4			
1 20 6 0				6 9 7 7				13 22 20 42			
5 9 23 14				9 22 25 01				17 11 40 30			
8 22 40 48				13 11 45 04				21 0 59 51			
12 11 58 24				17 1 4 8				24 14 18 56			
16 1 15 56				20 14 23 43				MAY. Immerfions.			
19 14 34 20				24 3 43 5							
23 3 52 36				27 17 2 22				23 22 2 48			
26 17 11 1				MARCH.				27 11 19 37			
30 6 29 38								3 6 22 14			

JUNE.

ECLIPSES of the *second Satellite of JUPITER.*

Immersion.				Immersion.				Immersion.			
D.	H.	M.	S.	D.	H.	M.	S.	D.	H.	M.	S.
JUNE.				10	2	31	16	27	7	22	45
				13	12	51	4	30	20	40	40
3	13	54	52	17	5	9	7	NOVEMBER.			
3	7	11	31	20	18	28	1				
10	16	30	0	24	7	46	58	3	9	58	16
14	5	46	11	27	21	6	4	6	23	15	13
17	19	4	27	31	10	25	6	10	12	32	37
21	8	20	52	SEPTEMBER.				14	1	49	26
24	21	38	16					3	23	44	10
28	10	55	39	7	13	03	9	17	17	42	51
JULY.				11	2	22	11	21	6	59	44
				14	05	41	10	24	20	17	2
2	0	14	1	18	15	42	15	28	9	33	14
5	13	30	24	21	18	19	5	DECEMBER.			
9	3	48	55	25	7	37	55				
12	16	5	36	28	20	56	36	1	22	49	58
16	5	23	15	OCTOBER.				5	12	06	40
19	8	41	2					2	10	15	24
23	7	59	5	5	23	33	56	12	14	40	6
26	21	17	9	9	12	22	14	16	3	56	48
30	10	35	19	13	2	10	43	19	17	13	40
AUGUST.				16	16	38	56	23	6	30	28
				2	23	54	11	20	4	37	1
6	13	12	21	23	18	4	56	30	9	4	19
JANUARY.											

ECLIPSES of the third Satellite of JUPITER.

D. H. M. S.					D. H. M. S.				
JANUARY.					MAY.				
4	5	16	46	I	20	9	57	33	I
4	7	27	2	E	27	13	56	47	I
11	9	16	59	I	27	16	10	44	E
11	11	27	11	E	JUNE.				
18	13	17	29	I	3	17	55	27	I
18	15	27	37	E	3	20	10	11	E
25	17	28	42	I	10	21	54	12	I
25	19	28	46	E	11	0	9	22	E
FEBRUARY.					18	1	52	44	I
1	21	20	41	I	18	4	8	20	E
1	23	30	41	E	JUNE.				
9	1	23	10	I	25	5	51	28	I
9	3	33	14	E	25	8	7	32	E
16	5	26	12	I	JULY.				
16	7	36	20	E	2	9	50	44	I
23	11	40	53	E	2	12	6	54	E
MARCH.					9	13	50	19	I
2	15	43	17	E	9	16	6	37	E
9	19	47	23	E	16	17	50	21	I
16	23	50	57	E	16	20	6	49	E
24	3	54	24	E					

ECLIPSES of the third Satellite of JUPITER.

D.	H.	M.	S.		D.	H.	M.	S.	
23	21	51	53	I	OCTOBER.				
24	0	7	29	E					
31	1	51	54	I					
31	4	8	34	E					
AUGUST.					NOVEMBER.				
7	5	52	22	I					
7	8	11	10	E					
14	9	53	49	I					
21	13	55	38	I	DECEMBER.				
28	17	57	44	I					
SEPTEMBER.									
4	21	59	54	I					
12	2	1	58	I	7	4	29	26	E
19	6	3	58	I	14	8	27	20	E
26	10	5	18	I	21	12	25	19	E
					28	16	22	24	E

Now, inasmuch as, in the Beginning of this Year, the Latitude of the fourth Satellite is greater than the Breadth of the Shadow of *Jupiter*, the Satellite will pass wide of it, and there will be no Eclipse of it till the Middle of *June* in the Year 1752.

It

It is to be observed, that, for about a Month before, and a Month after the Conjunction of *Jupiter* with the Sun, by reason of the Proximity of *Jupiter* to the Sun, the Eclipses cannot be observed. And this is the Reason that no Notice has been taken of them in the Catalogue between the 25th of *March* and the 24th of *May* following.

The Times here set down are according to the astronomical Way of reckoning, which supposes the Day to commence at the Noon of each Day, or when the Sun is upon the Meridian; and counting the Time on in a successive Order, without the Distinction of Morning and Afternoon, til the Sun returns to the Meridian again the next Day at Noon. Thus, for Example, in the preceding Catalogue, the first Emerston of the second Satellite is said to happen on *January* 1. at 20 Hours 6 Minutes; that is, according to the Civil Way of reckoning, on *Jan.* 2. at 6 Minutes after 8 in the Morning.