

III. *The Immersions and Emerfions of the four Satellites of Jupiter, for the Year 1738. computed to the Meridian of the Royal Obfervatory at Greenwich, by James Hodgfon, F. R. S. and Master of the Royal Mathematical School at Chrift's Hofpital, London.*

ECLIPSES of the *first* Satellite of JUPITER.

D. H. M.	D. H. M.	D. H. M.
JANUARY.	FEBRUARY.	MARCH.
Emerfions.	Emerfions.	
3 5 16 M	2 7 21 M	On the 15th of March Jupiter and the Sun will be in Conjunction.
4 11 45 A	4 1 50 M	
6 6 13 A	5 8 19 A	
8 0 41 A	7 2 48 A	
10 7 10 M	9 9 17 M	
12 1 38 M	11 3 46 M	APRIL. Immerfions.
13 8 6 A	12 10 15 A	
15 2 35 A	14 4 44 A	
17 9 3 M	16 11 13 M	
19 3 32 M	18 5 42 M	
20 10 0 A	19 12 11 A	
22 4 29 A	21 6 41 A	
24 10 57 M	23 1 10 A	
26 5 26 M	25 7 39 M	
27 11 55 A	27 2 8 M	
29 6 24 A		10 11 38 M
31 0 53 A		12 6 7 M
		14 0 36 M
		15 7 5 A
		17 1 34 A
		19 8 3 M
		21 2 32 M

22.

ECLIPSES of the first Satellite of JUPITER.

D.	H.	M.		D.	H.	M.		D.	H.	M.	
22	9	1	A	JUNE.				11	0	17	A
24	3	30	A					13	6	46	M
26	9	58	M	Immersions.				15	1	14	M
28	4	27	M					16	7	42	A
29	10	56	A	2	1	55	A	18	2	11	A
MAY.				3	20	24	A	20	8	40	M
				6	2	52	M	22	3	8	A
Immersions.				7	9	20	A	23	9	37	A
				9	3	48	A	25	4	6	A
1	5	24	A	11	10	16	M	27	10	34	M
3	11	53	M	13	4	44	M	29	5	3	M
5	6	22	M	14	11	13	A	30	11	32	A
7	0	50	M	16	5	41	A	AUGUST.			
8	7	19	A	18	0	9	A				
10	1	47	A	20	6	37	M	Immersions.			
12	8	16	M	22	1	5	M				
14	2	44	M	23	7	34	A	1	6	1	A
15	9	13	A	25	2	2	A	3	0	29	A
17	3	41	A	27	8	30	M	5	6	58	M
19	10	9	M	29	2	59	M	7	1	27	M
21	4	38	M	30	9	27	A	8	7	56	A
22	11	6	A	JULY.				10	2	25	A
24	5	34	A					12	8	54	M
26	0	3	A	Immersions.				14	3	23	M
28	6	31	M					15	9	52	A
30	0	59	M	2	3	55	A	17	4	21	A
31	7	27	A	4	10	24	M	19	10	50	M
				6	4	52	M	21	19	5	M
				7	11	20	A	24	6	18	A
				9	5	49	A	26	0	47	A

ECLIPSES of the first Satellite of JUPITER.

D. H. M.	D. H. M.	D. H. M.
28 7 16 M	Emerfions.	17 7 34 A
30 1 45 M		19 2 2 A
31 8 14 A	8 2 36 M	21 8 30 M
SEPTEMBER.	9 9 5 A	23 2 59 M
Immerfions.	11 3 34 A	24 29 27 A
1 2 44 A	13 10 2 M	26 3 55 A
4 9 13 M	15 4 31 M	28 10 23 M
6 3 42 M	16 11 0 A	30 4 55 M
7 10 11 A	18 5 29 A	DECEMBER.
9 4 40 A	20 11 58 M	Emerfions.
11 11 10 M	22 6 27 M	1 11 19 A
13 5 39 M	24 0 56 M	3 5 47 A
15 0 8 M	25 7 24 A	5 0 15 A
16 6 37 A	27 1 53 A	7 6 43 M
18 1 7 A	29 8 22 M	9 1 11 M
20 7 36 M	31 2 50 M	10 7 39 A
22 2 5 M	NOVEMBER.	12 2 7 A
23 8 34 A	Emerfions.	14 8 35 M
25 3 3 A	1 9 19 A	16 3 3 M
27 9 32 M	3 3 47 A	17 9 31 A
29 4 2 M	5 10 16 M	19 3 59 A
30 10 11 A	7 4 44 M	21 10 27 M
OCTOBER.	8 11 13 A	23 4 56 M
Immerfions.	10 5 41 A	24 11 23 A
2 5 0 A	12 0 9 A	26 5 51 A
4 11 29 M	14 6 38 M	28 0 19 A
6 5 58 M	16 1 6 M	30 6 48 M

ECLIPSES of the *second* Satellite of JUPITER.

D. H. M.	D. H. M.	D. H. M.		
JANUARY.				
Emerfions.				
2 0 59 M	11 11 6 M	17 11 46 A		
5 2 17 A	15 0 25 M	21 1 4 A		
9 3 34 M	18 1 44 A	25 2 21 M		
12 4 52 A	22 3 3 M	28 3 39 A		
16 6 9 M	25 4 21 A	JULY.		
19 7 27 A	29 5 40 M	Immerfions.		
23 8 45 M	MAY.		1 16 56 A	
26 10 4 A	Immerfions.		5 6 14 A	
30 11 22 M	2 6 58 A		9 7 31 M	
FEBRUARY.			12 8 49 A	
Emerfions.			16 10 7 M	
3 0 41 M	6 8 16 M	9 9 34 A	19 11 25 A	
6 1 59 A	13 10 52 M	17 0 10 M	23 0 44 A	
10 3 18 M	20 1 27 A	24 2 45 M	27 2 2 M	
13 4 37 A	27 4 2 A	31 5 20 M	30 3 20 A	
18 5 56 M	JUNE.		AUGUST.	
20 7 14 A	Immerfions.		Immerfions.	
24 8 34 M	3 6 37 A	7 7 55 M	3 4 39 M	
27 9 54 A	7 7 55 M	10 9 12 A	6 5 58 A	
MARCH.			7 7 16 A	
On the 15th of			13 8 35 A	
March Jupiter			17 9 54 M	
and the Sun will			20 11 13 A	
be in Conjun-			24 0 33 A	
ction.			28 1 52 M	
			31 3 11 A	

ECLIPSES of the *second* Satellite of JUPITER.

D. H. M.	D. H. M.	D. H. M.
SEPTEMBER.	Emerfions.	21 11 53 M
Immerfions.	9 8 17 A	26 1 10 A
4 4 31 M	13 9 36 M	28 2 27 A
7 5 50 A	16 10 54 A	DECEMBER.
11 7 9 M	20 0 13 A	Emerfions.
14 8 29 A	24 1 31 M	2 3 44 M
18 9 48 M	31 4 8 M	5 5 1 A
21 11 7 A	NOVEMBER.	9 6 18 M
25 0 27 A	Emerfions.	12 7 35 A
29 1 46 M	3 5 26 A	16 8 52 M
OCTOBER.	7 6 43 M	19 10 9 A
Immerfions.	10 8 1 A	23 11 26 M
2 3 5 A	14 9 19 M	27 0 43 M
6 4 24 M	17 10 36 A	30 2 0 A

ECLIPSES of the *third* Satellite of JUPITER.

D. H. M.	D. H. M.	D. H. M.
JANUARY.	MARCH.	MAY.
Immerfions.	Immerfions.	Immerfions.
8 11 48 M	March the 15th	3 4 34 M
15 3 48 A	Jupiter and the	10 8 35 M
22 7 49 A	Sun will be in	17 0 36 A
	Conjunction.	24 4 36 A
		31 8 36 A
Emerfions.	Emerfions.	Emerfions.
8 2 39 A		3 7 9 M
15 6 38 A		10 11 10 M
22 10 38 A		17 3 9 A
30 2 39 M		24 7 9 A
	APRIL.	31 11 8 A
FEBRUARY.	Immerfions.	JUNE.
Immerfions.	11 4 27 A	Immerfions.
	18 8 30 A	8 0 36 M
	26 0 33 M	15 4 35 M
	Emerfions.	22 8 35 M
		29 0 35 A
Emerfions.		Emerfions.
6 6 41 M		8 3 6 A
13 10 43 M		15 7 5 M
20 2 45 A		22 11 4 M
27 6 48 A		29 3 3 A

JULY.

ECLIPSES of the third Satellite of JUPITER.

D. H. M.	D. H. M.	D. H. M.
JULY.	SEPTEMBER.	NOVEMBER.
Immerfions.	Immerfions.	Immerfions.
6 4 35 A	2 0 53 M	5 1 18 A
13 8 36 A	9 4 57 M	12 5 18 A
21 0 37 M	16 9 0 M	19 9 18 A
28 4 38 M	23 1 4 A	27 1 17 M
	30 5 6 A	
Emerfions.	Emerfions.	Emerfions.
6 7 3 A		5 3 33 A
13 11 2 A	2 3 14 M	12 7 33 A
21 3 2 M		19 11 32 A
28 7 3 M		27 3 31 M
AUGUST.	OCTOBER.	DECEMBER.
Immerfions.	Immerfions.	Immerfions.
4 8 40 M		4 5 16 M
11 0 43 A		11 9 14 M
18 4 46 A	7 9 11 A	18 1 13 A
25 8 49 A		25 5 12 A
Emerfions.	Emerfions.	Emerfions.
4 11 5 M		4 7 29 M
11 3 6 A		11 11 28 M
18 7 9 A	7 11 28 A	18 3 26 A
25 11 11 A	15 3 30 M	25 7 24 A
	22 7 32 M	
	29 11 33 M	
	R r 2	

January

*January* the 1<sup>st</sup>, at 8 h. 28 m. in the Evening, the fourth *Satellite* of *Jupiter* will Immerge into the Shadow, and at 9 h. 49 m. it will Emerge out of the Shadow.

Again, on the 18<sup>th</sup> Day there will be an Immerfion at 2 h. 55 m. in the Afternoon, and at 3 h. 48 m. the Emerfion will happen.

Again, on the 4<sup>th</sup> of *February*, at 9 h. 31 m. in the Morning, the fourth *Satellite* will Immerge into the Shadow of *Jupiter*, and at 9 h. 44 m. the fame Morning, it will Emerge out of the Shadow.

And after this Time, the fourth *Satellite* will pafs wide of the Shadow till the 24<sup>th</sup> Day of *June* 1740; when the Immerfion will happen at 8 h. 43 m. in the Evening, and the Emerfion at 10 h. 15 m. the fame Evening.