

IX. *The apparent Times of the Immersions and Emerfions of the four Satellites of Jupiter, for the Year 1740. computed to the Meridian of the Royal Observatory at Greenwich, by James Hodgfon, F. R. S. Master of the Royal Mathematical School in Chrif's Hofpital, London. In all 374.*

ECLIPSES of the first Satellite of JUPITER.

D. H. M. S.				D. H. M. S.				D. H. M. S.			
JANUARY.				FEBRUARY.				MARCH.			
Emerfions.				Emerfions.				Emerfions.			
1	22	10	13	1	0	15	7	2	2	30	48
3	16	38	24	2	18	44	2	3	21	0	9
5	11	6	35	4	12	12	59	5	15	29	32
7	5	34	49	6	7	41	59	7	9	58	53
9	0	3	7	8	2	11	0	9	4	28	15
10	18	31	30	9	20	40	2	10	22	57	39
12	12	59	53	11	15	9	8	12	17	27	1
14	7	28	18	13	9	38	16	14	11	56	26
16	1	56	45	15	4	7	25	16	6	25	49
17	20	25	15	16	22	36	35	18	0	55	11
19	14	53	49	18	17	5	47	19	19	24	35
21	9	22	28	20	11	35	1	21	13	53	57
23	3	51	8	22	6	4	15	23	8	23	18
24	22	19	50	24	0	33	31	25	2	52	37
26	16	48	38	25	19	2	49	26	21	21	58
28	11	17	27	27	13	32	9	28	15	51	16
30	5	46	16	29	8	1	28	30	10	20	36

APRIL.

ECLIPSES of the first Satellite of JUPITER.

D.	H.	M.	S.	D.	H.	M.	S.	D.	H.	M.	S.
APRIL.				10	3	26	53	AUGUST.			
Emerfions.				11	21	55	29	Immerfions.			
1	4	49	51	JUNE.				1	5	30	21
2	23	19	7	Immerfions.				2	23	59	9
4	17	48	21	28	14	28	22	4	18	27	59
6	12	17	33	30	8	56	43	6	12	56	49
8	6	46	43	JULY.				8	7	25	39
10	1	15	56	Immerfions.				10	1	54	32
11	19	45	4	2	3	25	24	11	20	23	26
13	14	14	11	3	21	53	44	13	14	52	21
15	8	43	15	5	16	22	4	15	9	21	18
17	3	12	19	7	10	50	26	17	3	50	16
18	21	41	9	9	5	18	49	18	22	19	14
20	16	10	19	10	23	47	14	20	16	48	13
22	10	39	15	12	18	15	40	22	11	17	13
24	5	8	10	14	12	44	7	24	5	46	14
25	23	37	4	16	7	12	38	26	0	15	16
27	18	5	54	18	1	41	10	27	18	44	17
29	12	34	44	19	20	9	44	29	13	13	21
MAY.				21	14	38	20	31	7	42	25
Emerfions.				23	9	6	54	SEPTEMBER.			
1	7	3	30	25	3	35	32	Immerfions.			
3	1	32	15	26	22	4	12	2	2	11	30
4	20	0	58	28	16	32	53	3	20	40	32
6	14	29	37	30	11	1	37	5	15	9	36
8	8	58	16	U u				7	9	38	38

ECLIPSES of the first Satellite of JUPITER.

D.	H.	M.	S.	D.	H.	M.	S.	D.	H.	M.	S.
9	4	7	41	19	21	10	48	29	13	55	56
10	22	36	45	21	15	39	15	DECEMBER.			
12	17	5	48	23	10	7	38				
14	11	34	51	25	4	36	2	Immersions.			
16	6	3	51	26	23	4	23				
18	0	32	50	28	17	32	41	1	8	23	40
19	19	1	50	30	12	0	57	3	2	51	19
21	13	30	48	NOVEMBER.				4	21	19	1
23	7	59	45					Immersions.			
25	2	28	41	1	6	29	19				
26	20	57	34	3	0	57	16	10	4	42	3
28	15	26	28	4	19	25	28	11	23	9	44
30	9	55	20	6	13	53	33	13	17	37	30
OCTOBER.				8	8	21	35	15	12	5	14
				Immersions.				10	2	49	38
2	4	24	10					11	21	17	39
3	22	52	57	13	15	15	35	19	3	14	54
5	17	21	44	15	10	13	29	20	21	42	42
7	11	50	29	17	4	41	22	22	16	10	31
9	6	19	13	18	23	9	14	24	10	38	20
11	0	47	54	20	17	37	5	26	5	6	10
12	19	16	34	22	12	4	53	27	23	34	7
14	13	45	9	24	6	32	41	29	18	2	5
16	8	13	45	26	1	0	27	31	12	30	4
18	2	42	18	27	19	28	12				

ECLIPSES of the *second* Satellite of JUPITER.

D.	H.	M.	S.	D.	H.	M.	S.	D.	H.	M.	S.
JANUARY.				MARCH.				MAY.			
Emerfions.				Emerfions.				Emerfions.			
3	17	33	10	4	3	49	15	3	14	15	19
7	6	50	27	7	17	8	50	7	3	33	31
10	19	7	57	11	6	28	25	10	16	51	36
14	8	25	35	14	19	48	2				
17	22	43	21	18	9	7	40	JUNE.			
21	12	1	25	21	22	27	15	Immerfions.			
25	1	19	37	25	11	46	46	25	18	57	5
28	14	38	3	29	1	6	16	29	8	14	22
FEBRUARY.				APRIL.				JULY.			
Emerfions.				Emerfions.				Immerfions.			
1	3	56	35	1	14	25	41	2	21	31	46
4	17	15	18	5	3	45	37	6	10	49	15
8	6	34	9	8	17	4	10	10	0	6	48
11	19	53	8	12	6	23	19	13	13	24	27
15	9	12	16	15	19	42	18	17	3	42	15
18	22	31	30	19	9	1	6	20	16	0	9
22	11	10	50	22	22	19	55	24	5	18	6
26	1	10	14	26	11	38	33	27	18	36	12
29	14	29	43	30	0	57	1	31	7	54	16
U u 2								AUGUST.			

ECLIPSES of the second Satellite of JUPITER.

D.	H.	M.	S.	D.	H.	M.	S.	D.	H.	M.	S.
AUGUST.				22	15	34	34	7	20	25	51
Immersion:				26	4	53	5	11	9	42	37
				29	18	11	34	14	22	59	11
3	21	12	44	OCTOBER.				18	12	15	38
7	10	31	8	Immersion:				22	1	31	57
10	23	49	37					25	14	48	14
14	13	8	10					29	4	4	21
18	2	26	48	3	7	29	55	DECEMBER.			
21	15	45	30	6	20	48	10	Immersion:			
25	5	4	15	10	10	6	20	2	17	20	29
28	18	23	2	13	23	24	19	6	6	36	29
SEPTEMBER.				17	12	42	12	9	19	52	52
Immersion:				21	1	59	53	13	9	8	38
1	7	41	53	24	15	17	24	Emersion:			
4	21	0	45	28	4	34	47	17	1	12	3
8	10	19	36	31	17	51	59	20	14	28	24
11	23	38	25	NOVEMBER.				24	34	44	44
15	12	57	11	Immersion:				27	17	1	11
19	2	16	4	4	7	8	48	31	5	17	57

ECLIPSES of the third Satellite of JUPITER.

D.	H.	M.	S.	D.	H.	M.	S.	D.	H.	M.	S.
JANUARY.				21	4	26	17	18	12	53	35
Immersions.				28	8	29	49	25	16	55	38
1	21	47	22	MARCH.				MAY.			
9	1	45	43	Immersions.				Immersions.			
16	5	44	48	6	9	55	57	Emersions.			
23	9	44	40	13	13	58	43	2	20	57	9
30	13	45	14	20	18	1	34	10	0	57	54
Emersions.				27	22	4	15	JUNE.			
2	0	17	0	Emersions.				Immersions.			
9	4	16	11	6	12	33	33	21	22	3	20
16	8	16	8	13	16	37	15	29	2	1	34
23	12	16	52	20	20	41	2	EMERSIONS.			
30	16	18	20	28	0	44	39	6	6	0	9
FEBRUARY.				APRIL.				JULY.			
Immersions.				Immersions.				Immersions.			
6	17	46	27	4	2	6	42	13	9	59	3
13	21	48	14	11	6	8	46	20	13	58	28
21	1	50	29	Emersions.				27	17	58	15
28	5	53	7	Emersions.				Emersions.			
Emersions.				4	4	48	2				
6	20	20	27	11	8	51	2				
14	0	23	8								

ECLIPSES of the third Satellite of JUPITER.

D	H.	M.	S.	D.	H.	M.	S.	D.	H.	M.	S.
Emerfions.				Emerfions.				19	9	56	20
20	16	53	32	1	17	3	18	26	13	52	32
27	20	54	15	8	21	5	31	Emerfions.			
AUGUST.				16	1	7	40	5	5	10	57
Immerfions.				23	5	9	34	DECEMBER.			
3	21	58	32	30	9	11	7	Immerfions.			
11	1	59	10	OCTOBER.				Immerfions.			
18	6	0	9	Immerfions.				3	17	48	23
25	10	1	25	7	10	7	25	10	21	44	7
Emerfions.				14	14	7	13	Emerfions.			
4	0	55	28	21	18	6	23	DECEMBER.			
11	4	57	2	28	22	4	58	Immerfions.			
18	8	58	57	Emerfions.				Emerfions.			
25	13	1	7	7	13	12	15	18	4	52	54
SEPTEMBER.				14	17	12	53	25	8	49	52
Immerfions.				21	21	12	53	Emerfions.			
1	14	2	44	29	1	12	18	Immerfions.			
8	18	4	5	NOVEMBER.				Immerfions.			
15	22	5	22	Immerfions.				Immerfions.			
23	2	6	24	5	2	2	43	Immerfions.			
30	6	7	7	12	5	59	52	Immerfions.			

ECLIPSES of the fourth Satellite.

D.	H.	M.	S.	D.	H.	M.	S.	D.	H.	M.	S.
JUNE.				Emerfions.				NOVEMBER.			
Immerfions.				13	16	51	29	Immerfions.			
24	8	42	42	30	10	13	46	5	9	5	25
Emerfions.				SEPTEMBER.				22	3	2	●
24	10	15	0	Immerfions.				Emerfions.			
JULY.				16	3	1	55	5	12	4	45
Immerfions.				Emerfions.				22	6	10	●
11	2	51	17	16	4	32	41	DECEMBER.			
27	20	45	32	OCTOBER.				Immerfions.			
Emerfions.				Immerfions.				8	20	54	40
11	4	28	53	2	21	3	55	25	14	48	37
27	22	38	46	19	15	6	9	Emerfions.			
AUGUST.				Emerfions.				8	23	10	32
Immerfions.				2	23	44	47	25	18	12	9
13	14	52	25	19	17	56	37				
30	8	54	30								