

III. *A Catalogue of Eclipses of Jupiter's Satellites for the Year 1734.* By James Hodgson, F. R. S. Master of the Royal Mathematical School at Christ's Hospital, London.

ECLIPSES of the first Satellite of JUPITER.

Immersions.				Immersions.				Immersions.			
D.	H.	M.	S.	D.	H.	M.	S.	D.	H.	M.	S.
JANUARY.				9	15	24	25*	22	8	26	49
				11	9	52	57	24	2	55	41
1	17	5	54*	13	4	21	32	25	21	24	35
3	11	33	37	14	22	50	10	27	15	53	28*
5	6	1	23	16	17	18	49*	29	10	22	20
7	00	29	9	18	11	47	29	31	4	51	11
8	18	57	01*	20	6	16	13	APRIL.			
10	13	24	50	22	00	44	57				
12	7	52	43	23	19	13	42	1	23	20	3
14	2	20	40	25	13	42	29*	3	17	48	54
15	20	48	39	27	8	11	17	5	12	17	46*
17	15	16	40*	29	2	40	6	7	6	46	37
19	9	44	41	MARCH.				9	1	15	27
21	4	12	48	1	2	40	12	10	19	44	14
22	22	40	55	2	21	9	4	12	14	12	59*
24	17	9	6*	4	15	37	56*	14	8	41	45
26	11	37	18	6	10	6	46	16	3	10	30
28	6	5	34	8	4	35	38	17	21	39	12
30	00	33	52	9	23	4	32	19	16	7	55*
31	19	2	13*	11	17	33	25*	21	10	36	35
FEBRUARY.				13	12	2	17	23	5	5	15
2	13	30	34	15	6	31	11	24	23	33	52
4	7	58	59	17	1	00	6	26	18	2	26
6	2	27	26	18	19	29	00	28	12	31	00*
7	20	55	55	20	13	57	54*	30	6	59	33
										MAY	

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ECLIPSES of the first Satellite of JUPITER.

Immersions.				Emersions.				Emersions.			
D.	H.	M.	S.	D.	H.	M.	S.	D.	H.	M.	S.
MAY.				18	22	22	29	5	17	17	1
				20	16	50	47	7	11	46	9
2	1	28	4	22	11	19	8*	9	6	15	17
3	19	56	32	24	5	47	30	11	00	44	26
5	14	25	2*	26	00	15	55	12	19	13	37
7	8	53	50*	27	18	44	20	14	13	42	49
9	3	23	59	29	13	12	45	16	8	12	3
10	21	50	24					18	2	41	18
12	16	18	47*	JULY.				19	21	10	33
14	10	47	8*					21	15	39	50
Emersions.				1	7	41	11	23	10	9	7*
16	7	25	9	3	2	9	39	25	4	38	26
18	1	53	30	4	20	38	10	26	23	7	47
19	20	21	50	6	15	6	44	28	17	37	7
21	14	50	10*	8	9	35	18*	30	12	6	30
23	9	18	28	10	4	3	53	SEPTEMBER.			
25	3	46	46	11	22	32	31				
26	22	15	1	13	17	1	13				
28	16	43	16	15	11	29	57*	1	6	35	51*
30	11	11	32	17	5	58	43	3	1	5	13
JUNE.				19	00	27	29	4	19	34	35
1	5	39	48	20	18	56	18	6	14	3	57
3	00	8	1	22	13	25	8	8	8	33	20*
4	18	36	16	24	7	54	00*	10	3	2	43
6	13	4	30*	26	2	22	55	11	21	32	5
8	7	32	46	27	20	51	52	13	16	1	27
10	2	1	1	29	15	20	52	15	10	30	49
11	20	29	18	31	9	49	52*	17	5	00	9
13	14	57	34	AUGUST.				18	23	29	28
15	9	25	52*					20	17	58	47
17	3	54	10	2	4	18	55	22	12	28	6
				3	22	47	57	24	6	57	22*
								26	1	26	37

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## ECLIPSES of the first Satellite of JUPITER.

Emerfions.				Emerfions.				Emerfions.			
D.	H.	M.	S.	D.	H.	M.	S.	D.	H.	M.	S.
27	19	55	50	20	20	12	27	14	14	50	00
29	14	25	00	22	14	41	8	Jupiter and the Sun in Conjunction.			
OCTOBER.				24	9	9	47	DECEMBER.			
1	8	54	9	26	3	38	25	Jupiter and the Sun in Conjunction.			
3	3	23	16	27	22	7	2	Immerfions.			
4	21	52	21	29	16	35	33	21	16	21	3
6	16	21	24	31	11	4	2	23	10	48	45
8	10	50	26	NOVEMBER.				25	15	16	25
10	5	19	26*	2	5	32	28*	26	23	44	10
11	23	48	25	4	00	00	50	28	18	11	55
13	18	17	19	5	18	29	7	30	12	39	40
15	12	46	12	7	12	57	23				
17	7	15	1	9	7	25	35				
19	1	43	45	11	1	53	45				
				12	20	21	53				

## ECLIPSES of the second Satellite of JUPITER.

Immerfions.				Immerfions.				Immerfions.			
JANUARY.				9	18	12	32*	24	9	50	27
1	16	7	57	13	7	30	13	27	23	8	49
5	5	24	00	16	20	48	2	31	12	27	8*
8	18	40	9*	20	10	5	59	APRIL.			
12	7	56	27	23	23	24	00	4	1	45	25
15	21	12	56	27	12	42	6	7	15	3	41
19	10	29	32	MARCH.				11	4	21	50
22	23	46	17	3	2	00	22	14	17	39	56
26	13	3	14	6	15	8	39*	18	6	57	56
30	2	20	19	10	4	36	59	21	20	15	52
FEBRUARY.				13	17	55	16	25	9	33	40
2	15	37	35	17	7	13	42	28	22	51	23
6	4	55	00	20	20	32	6	MAY.			

## ECLIPSES of the second Satellite of JUPITER.

Immersions.				Emersions.				Emersions.			
D.	H.	M.	S.	D.	H.	M.	S.	D.	H.	M.	S.
MAY.				9	3	14	16	OCTOBER.			
				12	16	32	9				
				16	5	50	15				
2	12	9	00*	19	19	8	23	2	10	48	43
6	1	26	31	23	8	26	43*	6	00	7	33
9	14	43	59*	26	21	45	10	9	13	26	16
13	4	1	20	30	11	3	47	13	2	44	53
Emersions.				AUGUST.				16	16	3	18
16	19	54	45					20	5	21	27*
20	9	12	3*	3	00	22	29	23	18	39	27
23	22	29	18	6	13	41	19	27	7	57	25
27	11	46	27*	10	3	00	17	30	21	15	8
31	1	3	36	13	16	19	19	NOVEMBER.			
				17	5	38	27	3	10	32	36
JUNE.				20	18	57	37	6	23	49	51
				24	8	16	55*	10	13	6	55
3	14	20	41*	27	21	36	15	14	2	23	49
7	3	37	45	31	10	55	38	Jupiter and the Sun in Conjunction.			
10	16	54	54	SEPTEMBER.							
14	6	12	4	4	00	15	1	DECEMBER.			
17	19	29	16	7	13	34	21	Jupiter and the Sun in Conjunction.			
21	8	46	31	11	2	53	46				
24	22	3	51	14	16	13	4	19	12	23	54
28	11	21	17*	18	5	32	23	23	1	39	49
				21	18	51	36	26	14	55	48
JULY.				25	8	10	46	30	4	11	52
2	00	38	49	28	21	29	45				
5	13	56	29								

## ECLIPSES of the third Satellite of JUPITER.

D.	H.	M.	S.	D.	H.	M.	S.	D.	H.	M.	S.
JANUARY.				12	11	42	3*	JUNE.			
Immersions.				19	15	41	54				
6	23	59	59	26	19	41	39	Immersions.			
Emersions.				Emersions.				27	23	17	8
				5	10	3	57	Emersions.			
14	3	55	42	12	14	4	19*	6	13	56	4
21	7	52	2	19	18	4	50	13	17	54	3
28	11	49	2	26	22	5	17	20	21	52	12
Emersions.				APRIL.				28	1	50	38
				Immersions.				JULY.			
7	2	17	13	2	23	41	18				
14	6	13	22	10	3	40	51	5	3	15	15
21	10	10	10	17	7	40	1	12	7	13	52
28	14	7	40	24	11	38	52*	19	11	13	4*
FEBRUARY.				Emersions.				26	15	12	45
Immersions.								MAY.			
4	15	46	40*	Immersions.							
11	19	44	52					3	2	5	38
18	23	43	35	10	6	5	53	19	13	49	00
26	3	42	45	Emersions.				26	17	49	31
Emersions.								AUGUST.			
4	18	5	50*	Immersions.							
11	22	4	36					1	15	37	21
19	2	3	55	8	19	35	30	17	3	14	49
26	6	3	43	Emersions.				24	7	16	12*
Immersions.								AUGUST.			
MARCH.				Immersions.							
Immersions.								16	2	1	55
5	7	42	21	23	6	00	13	17	3	14	49
Emersions.				30	9	58	12*	24	7	16	12*
				31	11	17	52				

AUGUST

ECLIPSES of the *third* Satellite of JUPITER.

D.	H.	M.	S.	D.	H.	M.	S.	D.	H.	M.	S.
AUGUST.				Emerfions.				13	14	11	15
Emerfions.				7	18	1	26	20	18	11	32
2	21	50	35	14	22	4	3	27	22	11	18
10	1	52	8	22	2	6	30	NOVEMBER.			
17	5	54	5	29	6	8	33*	Emerfions.			
24	9	56	18	OCTOBER.				4	2	10	13
31	13	58	48	Immerfions.				11	6	8	17
SEPTEMBER.				6	7	24	53	DECEMBER.			
Immerfions.				13	11	25	7	Immerfions.			
7	15	19	38	Emerfions.				16	22	56	49
14	19	21	23	6	10	10	9	24	2	51	56
21	23	22	58	Emerfions.				31	6	47	19
29	3	24	9	Emerfions.							

ECLIPSES of the *fourth* Satellite of JUPITER.

NOVEMBER the 2d.

H. M. S.

Immerfion at 3 40 39

Emerfion at 4 12 27

Jupiter and the Sun in Conjunction.

DECEMBER the 22d.

H. M. S.

Immerfion at 8 44 59

Emerfion at 10 27 1

N B. *Those that are marked with a Star, are visible at London.*