

IV. *A Catalogue of Eclipses of Jupiter's Satellites for the Year 1733.* 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				10	1	26	39	24	12	58	26*
				11	19	55	7	26	7	27	25
2	3	7	56	13	14	23	42*	28	1	56	24
3	21	35	41	15	8	52	20	29	20	25	20
5	16	3	26*	17	3	21	00	31	14	54	15*
7	10	31	12	18	21	49	40	APRIL.			
9	4	59	1	20	16	18	22*				
10	23	26	54	22	10	47	8				
12	17	54	48*	24	5	15	54	2	9	23	10*
14	12	22	44	25	23	44	44	4	3	52	7
16	6	50	41	27	18	13	32	5	22	21	4
18	1	18	42	MARCH.				7	16	49	59*
19	19	46	47					9	11	18	53*
21	14	14	53*	1	12	42	21*	11	5	47	45
23	8	43	2	3	7	11	15	13	00	16	36
25	3	11	15	5	1	40	11	Emersions.			
26	21	39	31	6	20	9	7	14	20	53	44
28	16	7	50*	8	14	38	2*	16	15	22	33*
30	10	36	12	10	9	6	58	18	9	51	22*
FEBRUARY.				12	3	35	54	20	4	20	8
				13	22	4	50	21	22	48	53
1	5	4	37	15	16	33	45*	23	17	17	34
2	23	33	00	17	11	2	41*	25	11	46	3*
4	18	1	25*	19	5	31	36	27	6	14	53
6	12	29	50*	21	00	00	32	29	00	43	32
8	6	58	14	22	18	29	28	30	19	12	11
											MAY



## ECLIPSES of the first Satellite of JUPITER.

Emerfions.				Immerfions.				Immerfions.			
D.	H.	M.	S.	D.	H.	M.	S.	D.	H.	M.	S.
28	5	57	11*	NOVEMBER.				6	4	11	43
30	00	26	13	Immerfions.				7	22	39	13
OCTOBER.				Jupiter and the Sun				9	17	6	42*
				in Conjunction.				11	11	34	10
1	18	55	13					13	6	1	37
3	13	24	12					15	00	29	2
5	7	53	10	23	18	58	20*	16	18	56	27*
7	2	22	6	25	13	26	2	18	13	23	52
8	20	51	00	27	7	53	43	20	7	51	18
10	15	19	52	29	2	21	22	22	2	18	51
Jupiter and the Sun				DECEMBER.				23	20	46	29
in Conjunction.								25	15	14	5
								27	9	41	41
								29	4	9	17
								30	22	36	55

## ECLIPSES of the second Satellite of JUPITER.

Immerfions.				Immerfions.				Immerfions.			
JANUARY.				8	16	53	00*	23	8	31	21
4	4	5	27	12	6	10	32	26	21	49	51
7	17	21	24*	15	19	28	22	30	11	8	14*
11	6	37	34	19	8	46	23	APRIL.			
14	19	53	52	22	22	4	26	3	00	26	36
18	9	10	18	26	11	22	41*	6	13	45	3*
				MARCH.				10	3	3	29
21	22	26	57	2	00	40	54	13	16	21	40*
25	11	43	48	5	13	59	18*	Emerfions.			
29	1	00	52	9	3	17	44	17	8	18	12*
FEBRUARY.				12	16	36	7*	20	21	36	17
1	14	18	7*	16	5	54	33	24	10	54	12*
5	3	35	32	19	19	12	55	28	00	12	00
				U u				MAY.			

## ECLIPSES of the second Satellite of JUPITER.

Emerfions.				Emerfions.				Emerfions.			
D.	H.	M.	S.	D.	H.	M.	S.	D.	H.	M.	S.
MAY.				22	7	10	55	8	12	4	10
				25	20	29	13	12	1	22	26
				29	9	47	31*	Jupiter and the Sun in Conjunction.			
1	13	29	45*	AUGUST.							
5	2	47	36	1	23	5	50				
8	16	5	10	5	12	24	28				
12	5	22	40	9	1	43	4				
15	18	40	11	12	15	1	47				
19	7	57	34	16	4	20	43				
22	21	14	51	19	17	39	54				
26	10	31	58*	23	6	59	5*				
29	23	49	7	26	20	18	7				
JUNE.				30	9	36	59	23	14	9	1
2	13	6	20*	SEPTEMBER.				27	3	24	52
6	2	23	16	2	22	55	58	30	16	40	35
9	15	40	20	6	12	15	10	DECEMBER.			
13	4	57	26	10	1	34	19	4	5	56	29
16	18	14	34	13	14	53	27	7	19	12	14*
20	7	31	48	17	4	12	32	11	8	27	42
23	20	49	8	20	17	31	23	14	21	43	11
27	10	6	33*	24	6	50	3	18	10	58	42
30	22	24	1	27	20	8	41	22	00	14	23
JULY.				2	22	55	58	25	13	30	5
4	12	41	31*	OCTOBER.				29	2	45	56
8	1	59	5	1	9	27	16	JANU-			
11	15	16	47	4	22	45	46				
15	4	34	37								
18	17	52	41								

## ECLIPSES of the third Satellite of JUPITER.

D.	H.	M.	S.	D.	H.	M.	S.	D.	H.	M.	S.
<b>JANUARY.</b>				26	9	1	22	<b>JUNE.</b>			
<b>Immersions.</b>				<b>Emersions.</b>				<b>Immersions.</b>			
6	13	17	41	4	23	18	35	6	00	48	45
13	17	13	16*	12	3	18	13	13	4	46	14
20	21	9	29	<b>APRIL.</b>				20	8	43	57*
28	1	6	31	<b>Immersions.</b>				27	12	42	1*
<b>Emersions.</b>				2	13	1	24*	<b>Emersions.</b>			
6	15	39	13*	9	17	1	23	6	3	2	1
13	19	34	18*	<b>Jupiter and the Sun</b>				13	6	59	34
20	23	30	1	<b>in Conjunction.</b>				20	10	57	1*
28	3	26	33					27	14	54	51
<b>FEBRUARY.</b>				<b>Emersions.</b>				<b>JULY.</b>			
<b>Immersions.</b>				<b>Jupiter and the Sun</b>				<b>Immersions.</b>			
4	5	4	23	<b>in Conjunction.</b>				4	16	40	16
11	9	2	32					11	20	38	46
18	13	00	34*	16	23	16	22	19	00	37	59
25	17	1	7*	24	3	15	24	26	4	37	44
<b>Emersions.</b>				<b>MAY.</b>				<b>Emersions.</b>			
4	7	23	55	<b>Immersions.</b>				4	18	52	58
11	11	21	34	22	16	53	42	12	22	51	22
18	15	20	6*	29	20	51	17	19	2	50	29
25	19	19	9					26	6	50	10
<b>MARCH.</b>				<b>Emersions.</b>				<b>AUGUST.</b>			
<b>Immersions.</b>				1	7	13	28	<b>Immersions.</b>			
4	21	1	1	8	11	11	59*	2	8	37	36*
12	1	1	7	15	15	10	1	9	12	38	1
19	5	1	11	22	19	7	48	16	16	38	56
				29	23	5	9	23	20	40	27
				<b>U u 2</b>				31	00	41	30
								<b>AUGUST.</b>			

## ECLIPSES of the third Satellite of JUPITER.

D.	H.	M.	S.	D.	H.	M.	S.	D.	H.	M.	S.
AUGUST.				14	10	56	44	25	00	27	56
Emerfions.				21	14	57	46	Jupiter and the Sun in Conjunction.			
2	10	50	00	28	18	58	16				
9	14	50	23	OCTOBER.							
16	18	51	16	Jupiter and the Sun in Conjunction.				DECEMBER.			
23	22	52	45	Emerfions.				Immerfions.			
31	2	53	46	NOVEMBER.				Emerfions.			
SEPTEMBER.				5	22	58	33	2	4	22	45
Immerfions.				13	2	58	21	9	8	17	11
7	4	42	52	Immerfions.				16	12	11	11
14	8	44	18	17	20	32	50	23	16	5	27
21	12	45	16	Emerfions.				30	20	00	18*
Emerfions.				Immerfions.				Emerfions.			
7	6	55	12*	Immerfions.				23	18	20	49*
								30	22	15	00

The fourth Satellite continues to pafs wide of the Shadow, fo that he will not be eclipsed this Year.

N. B. *Thofe that are marked with a Star, are vifible at London.*