

Elements and Ephemeris of Jo (85). By *Mondeford R. Dolman, Esq.*

From the following normal places of the planet:

Gr. M. T.	α	δ
1865 Sept. 25. 0 ^h	17° 35' 39" 75	+11° 50' 49" 7
1865 Nov. 14. 0	10 42 46,95	3 27 32,6
1866 Jan. 3. 0	17 1 20,70	3 4 12,0

the elements of the orbit were found to be:

$$\begin{aligned}
 M \quad 1865 \text{ Nov. } 14,0 &= 46^\circ 4' 52'' 32. \\
 \pi &= 322^\circ 37' 1'' 82 \\
 \Omega &= 203 \ 51 \ 47,21 \\
 i &= 11 \ 53 \ 16,45 \\
 \varphi &= 10 \ 59 \ 27,82 \\
 \log a &= 0,4238335 \\
 \mu &= 820'' 836
 \end{aligned}
 \left. \vphantom{\begin{aligned} \pi \\ \Omega \\ i \\ \varphi \end{aligned}} \right\} \text{Mean Eq. } 1865,0$$

The disturbances of the heliocentric rectangular coordinates produced by Jupiter and Saturn were calculated to the following dates to be

Day	$(x-x^0) = \xi$	$(y-y^0) = \eta$	$(z-z^0) = \zeta$
1866 Nov. 28	-0.0001575	+0.0003990	-0.0000059
Dec. 19	-0.0001800	+0.0004589	-0.0000098
1867 Jan. 9	-0.0002062	+0.0005244	-0.0000152
Jan. 30	-0.0002366	+0.0005963	-0.0000266

x, y, z being the true coordinates of the planet referred to the plane of the Ecliptik.

Greenwich Noon. — True Equinox of date.

1866	AR	δ	$\log \Delta$	$\log r$
Dec. 12	8 ^h 12 ^m 9 ^s 16	+3° 40' 3" 1	0,36027	0,48490
13	8 11 40,84	3 37 27,0		
14	8 11 11,21	3 34 59,0		
15	8 10 40 26	3 31 39,4		
16	8 10 8,05	3 30 28,3	0,35385	0,48550
17	8 9 34,57	3 28 25,7		
18	8 8 59,90	3 26 31,7		
19	8 8 24,00	3 24 46,5		
20	8 7 46,96	3 23 10,1	0,34814	0,48609
21	8 7 8,71	3 21 42,5		
22	8 6 29,39	3 20 24,1		
23	8 5 48,94	3 19 14,5		
24	8 5 7,45	+3 18 14,4	0,34306	0,48667

1866	AR	δ	$\log \Delta$	$\log r$
Dec. 25	8 ^h 4 ^m 24 ^s 87	+3° 17' 23" 3		
26	8 3 41,33	3 16 41,7		
27	8 2 56,78	3 16 9,3		
28	8 2 11,34	3 15 46,5	0,33871	0,48723
29	8 1 24,96	3 15 33,2		
30	8 0 37,76	3 15 29,6		
31	7 59 49,73	3 15 35,6		
1867 Jan. 1	7 59 0,94	3 15 51,1	0,33511	0,48778
2	7 58 11,37	3 16 16,1		
3	7 57 21,16	3 16 50,8		
4	7 56 30,27	3 17 35,1		
5	7 55 38,84	3 18 28,7	0,33240	0,48832
6	7 54 46,84	3 19 31,9		
7	7 53 54,38	3 20 44,3		
8	7 53 1,48	3 22 6,3		
9	7 52 8,23	3 23 37,2	0,33056	0,48884
10	7 51 14,85	3 25 17,1		
11	7 50 20,83	3 27 6,6		
12	7 49 26,80	3 29 5,0		
13	7 48 32,62	3 31 12,0	0,32968	0,48936
14	7 47 38,35	3 33 27,9		
15	7 46 44,01	3 35 52,2		
16	7 45 49,67	3 38 24,8		
17	7 44 55,45	3 41 5,3	0,32974	0,48986
18	7 44 1,35	3 43 54,1		
19	7 43 7,39	3 46 50,7		
20	7 42 13,65	3 49 55,2		
21	7 41 20,24	3 53 7,0	0,33076	0,49035
22	7 40 27,17	3 56 26,3		
23	7 39 34,47	3 59 52,7		
24	7 38 42,17	4 3 26,0		
25	7 37 50,32	4 7 6,0	0,33271	0,49082
26	7 36 59,00	4 10 52,6		
27	7 36 8,27	4 14 45,3		
28	7 35 18,21	4 18 44,0		
29	7 34 28,80	4 22 48,7	0,33558	0,49128
30	7 33 40,14	4 26 59,1		
31	7 32 52,22	4 31 14,7		
Febr. 1	7 32 5,07	4 35 35,4		
2	7 31 18,79	4 40 1,0	0,33933	0,49173
3	7 30 33,46	4 44 31,3		
4	7 29 49,05	4 49 5,9		
5	7 29 5,68	4 53 44,4		
6	7 28 23,30	+4 58 26,7	0,34394	0,49217

Magnitude 11,2.

Observatory Durham.

1866 Aug. 2.

Mondeford R. Dolman.

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