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APPENDIX I. TO VOLUME III.  
OF THE  
SMITHSONIAN CONTRIBUTIONS TO KNOWLEDGE;  
CONTAINING  
AN EPHEMERIS OF THE PLANET NEPTUNE  
FOR THE YEAR 1852.  
BY SEARS C. WALKER, ESQ.

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GIDEON & Co., Printers, Washington, D. C.

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SMITHSONIAN INSTITUTION, *June 1st, 1851.*

This Ephemeris of the Planet Neptune for the year 1852, prepared for the Nautical Almanac, is presented for publication in the Smithsonian Contributions, by authority of the Hon. Wm. A. GRAHAM, Secretary of the Navy.

Signed,

JOSEPH HENRY,  
*Secretary of the Smithsonian Institution.*

CHARLES HENRY DAVIS, LIEUT.,  
*Superintendent of the Nautical Almanac.*

PERTURBATIONS OF NEPTUNE FROM LONGITUDE AND RADII VECTOR TO BE APPLIED  
ACCORDING TO THEIR SIGN TO THE HELIOLIC VALUES

Year	Longitude	Radius Vector
1854	17.21	1.0000000
1855	28.51	1.0000000
1856	40.21	1.0000000
1857	51.51	1.0000000
1858	62.81	1.0000000
1859	74.11	1.0000000
1860	85.41	1.0000000
1861	96.71	1.0000000
1862	108.01	1.0000000
1863	119.31	1.0000000
1864	130.61	1.0000000
1865	141.91	1.0000000
1866	153.21	1.0000000
1867	164.51	1.0000000
1868	175.81	1.0000000
1869	187.11	1.0000000
1870	198.41	1.0000000
1871	209.71	1.0000000
1872	221.01	1.0000000
1873	232.31	1.0000000
1874	243.61	1.0000000
1875	254.91	1.0000000
1876	266.21	1.0000000
1877	277.51	1.0000000
1878	288.81	1.0000000
1879	300.11	1.0000000
1880	311.41	1.0000000

**LETTER**

FROM

**LIEUTENANT C. H. DAVIS,**

SUPERINTENDENT OF THE NAUTICAL ALMANAC,

TO

**JOSEPH HENRY, LL.D.,**

SECRETARY OF THE SMITHSONIAN INSTITUTION.

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CAMBRIDGE, *May 1st*, 1851.

DEAR SIR:

With the permission of the honorable Wm. A. Graham, Secretary of the Navy, I have the pleasure of transmitting to you for publication in the Smithsonian Contributions, Mr. Sears C. Walker's Ephemeris of the planet Neptune for 1852, prepared for the Nautical Almanac.

The following table of the perturbations of Neptune from 1854 to 1860 has been computed by Mr. F. W. Ebener, now an assistant in the preparation of the Nautical Almanac, and revised by Mr. Walker.

Very respectfully,

Your ob't serv't,

**CHARLES HENRY DAVIS.**

**JOSEPH HENRY, LL.D.**

PERTURBATIONS OF NEPTUNE'S TRUE LONGITUDE AND RADIUS VECTOR, TO BE APPLIED  
ACCORDING TO THEIR SIGN TO THE ELLIPTIC VALUES.

	$\delta v \Psi$	$\delta r \Psi$
	"	
1854, January 1,	- 18.17	+ 0.01793
“ April 1,	- 15.62	+ 0.01831
“ July 1,	- 12.84	+ 0.01864
“ October 1,	- 9.63	+ 0.01893
1855, January 1,	- 6.11	+ 0.01916
“ April 1,	- 2.29	+ 0.01932
“ July 1,	+ 1.66	+ 0.01941
“ October 1,	+ 5.92	+ 0.01944
1856, January 1,	+ 10.38	+ 0.01940
“ April 1,	+ 14.77	+ 0.01928
“ July 1,	+ 19.13	+ 0.01908
“ October 1,	+ 23.40	+ 0.01882
1857, January 1,	+ 27.48	+ 0.01848
“ April 1,	+ 31.27	+ 0.01807
“ July 1,	+ 34.76	+ 0.01761
“ October 1,	+ 37.89	+ 0.01708
1858, January 1,	+ 40.56	+ 0.01651
“ April 1,	+ 42.73	+ 0.01589
“ July 1,	+ 44.39	+ 0.01523
“ October 1,	+ 45.52	+ 0.01454
1859, January 1,	+ 46.08	+ 0.01384
“ April 1,	+ 46.05	+ 0.01313
“ July 1,	+ 45.46	+ 0.01242
“ October 1,	+ 44.34	+ 0.01172
1860, January 1,	+ 42.66	+ 0.01104

## EPHEMERIS OF NEPTUNE FOR 1852 FOR MEAN NOON, WASHINGTON.

MEAN NOON, WASHINGTON.																		
Date.		Neptune's Right Ascension.			Neptune's Declination.			Date.		Neptune's Right Ascension.			Neptune's Declination.					
1852.		°	'	"	°	'	"	1852.		°	'	"	°	'	"			
Jan.	1	339	3	48.39	—	9	42	49.68	Feb.	24	340	43	59.59	—	9	2	44.68	
	2	339	5	10.29	—	9	42	16.45		25	340	46	7.94	—	9	1	53.78	
	3	339	6	33.72	—	9	41	42.62		26	340	48	16.32	—	9	1	2.87	
	4	339	7	58.65	—	9	41	8.21		27	340	50	24.73	—	9	0	11.96	
	5	339	9	25.07	—	9	40	33.22		28	340	52	33.17	—	8	59	21.06	
	6	339	10	52.95	—	9	39	57.67		29	340	54	41.58	—	8	38	30.19	
	7	339	12	22.27	—	9	39	21.56		Mar.	1	340	56	49.96	—	8	57	39.35
	8	339	13	53.00	—	9	38	44.90			2	340	58	58.26	—	8	56	48.55
	9	339	15	25.13	—	9	38	7.70			3	341	1	6.47	—	8	55	57.80
	10	339	16	58.65	—	9	37	29.97			4	341	3	14.58	—	8	55	7.11
	11	339	18	33.51	—	9	36	51.71			5	341	5	22.55	—	8	54	16.48
	12	339	20	9.69	—	9	36	12.94			6	341	7	30.34	—	8	53	25.93
	13	339	21	47.19	—	9	35	33.66			7	341	9	37.94	—	8	52	35.49
	14	339	23	25.97	—	9	34	53.88			8	341	11	45.30	—	8	51	45.16
	15	339	25	6.02	—	9	34	13.61			9	341	13	52.41	—	8	50	54.95
	16	339	26	47.33	—	9	33	32.86			10	341	15	59.23	—	8	50	4.87
	17	339	28	29.86	—	9	32	51.64			11	341	18	5.74	—	8	49	14.93
	18	339	30	13.58	—	9	32	9.96			12	341	20	11.91	—	8	48	25.14
	19	339	31	58.45	—	9	31	27.83			13	341	22	17.71	—	8	47	35.51
	20	339	33	44.44	—	9	30	45.26			14	341	24	23.10	—	8	46	46.05
	21	339	35	31.55	—	9	30	2.25			15	341	26	28.06	—	8	45	56.79
	22	339	37	19.77	—	9	29	18.82			16	341	28	32.55	—	8	45	7.74
	23	339	39	9.07	—	9	28	34.99			17	341	30	36.56	—	8	44	18.92
	24	339	40	59.39	—	9	27	50.77			18	341	32	40.05	—	8	43	30.35
	25	339	42	50.68	—	9	27	6.18			19	341	34	43.00	—	8	42	42.03
	26	339	44	42.93	—	9	26	21.22			20	341	36	45.36	—	8	41	53.96
	27	339	46	36.13	—	9	25	35.89			21	341	38	47.13	—	8	41	6.14
	28	339	48	30.26	—	9	24	50.20			22	341	40	48.27	—	8	40	18.57
	29	339	50	25.28	—	9	24	4.15			23	341	42	48.75	—	8	39	31.25
	30	339	52	21.17	—	9	23	17.75			24	341	44	48.54	—	8	38	44.18
	31	339	54	17.89	—	9	22	31.05			25	341	46	47.62	—	8	37	57.36
Feb.	1	339	56	15.40	—	9	21	44.07	26		341	48	45.96	—	8	37	10.82	
	2	339	58	13.69	—	9	20	56.81	27		341	50	43.54	—	8	36	24.62	
	3	340	0	12.75	—	9	20	9.27	28		341	52	40.32	—	8	35	38.79	
	4	340	2	12.53	—	9	19	21.45	29		341	54	36.27	—	8	34	53.34	
	5	340	4	13.02	—	9	18	33.35	30		341	56	31.39	—	8	34	8.28	
	6	340	6	14.21	—	9	17	45.02	31		341	58	25.67	—	8	33	23.60	
	7	340	8	16.08	—	9	16	56.46	April	1	342	0	9.07	—	8	32	39.30	
	8	340	10	18.62	—	9	16	7.68		2	342	2	11.53	—	8	31	55.38	
	9	340	12	21.78	—	9	15	18.67		3	342	4	3.01	—	8	31	11.85	
	10	340	14	25.51	—	9	14	29.44		4	342	5	53.51	—	8	30	28.71	
	11	340	16	29.77	—	9	13	40.02		5	342	7	43.03	—	8	29	45.97	
	12	340	18	34.55	—	9	12	50.42		6	342	9	31.57	—	8	29	3.66	
	13	340	20	39.82	—	9	12	0.64		7	334	11	19.11	—	8	28	21.79	
	14	340	22	45.54	—	9	11	10.70		8	342	13	5.62	—	8	27	40.36	
	15	340	24	51.67	—	9	10	20.62		9	342	14	51.06	—	8	26	59.39	
	16	340	26	58.18	—	9	9	30.40		10	342	16	35.41	—	8	26	18.88	
	17	340	29	5.02	—	9	8	40.04		11	342	18	18.65	—	8	25	38.83	
	18	340	31	12.15	—	9	7	49.54		12	342	20	0.76	—	8	24	59.23	
	19	340	33	19.56	—	9	6	58.90		13	342	21	41.72	—	8	24	20.09	
	20	340	35	27.21	—	9	6	8.16		14	342	23	21.50	—	8	23	41.45	
	21	340	37	35.05	—	9	5	17.35		15	342	25	0.08	—	8	23	3.33	
	22	340	39	43.08	—	9	4	26.49		16	342	26	37.44	—	8	22	25.74	
	23	340	41	51.27	—	9	3	35.60		17	342	28	13.54	—	8	21	48.68	

## Ephemeris of Neptune—Continued.

MEAN NOON, WASHINGTON.																	
Date.		Neptune's Right Ascension.			Neptune's Declination.			Date.		Neptune's Right Ascension.			Neptune's Declination.				
1852.		°	'	"	°	'	"	1852.		°	'	"	°	'	"		
April	18	342	29	48.37	— 8	21	12.14	June	11	343	16	26.97	— 8	4	20.43		
	19	342	31	21.91	— 8	20	36.13		12	343	16	30.68	— 8	4	21.48		
	20	342	32	54.14	— 8	20	0.68		13	343	16	32.56	— 8	4	23.28		
	21	342	34	25.04	— 8	19	25.79		14	343	16	32.62	— 8	4	25.83		
	22	342	35	54.56	— 8	18	51.47		15	343	16	30.86	— 8	4	29.13		
	23	342	37	22.70	— 8	18	17.72		16	343	16	27.24	— 8	4	33.18		
	24	342	38	49.45	— 8	17	44.56		17	343	16	21.77	— 8	4	37.98		
	25	342	40	14.77	— 8	17	11.98		18	343	16	14.48	— 8	4	43.53		
	26	342	41	38.64	— 8	16	39.99		19	343	16	5.40	— 8	4	49.81		
	27	342	43	1.05	— 8	16	8.60		20	343	15	54.53	— 8	4	56.79		
	28	342	44	22.00	— 8	15	37.81		21	343	15	41.85	— 8	5	4.48		
	29	342	45	41.49	— 8	15	7.63		22	343	15	27.39	— 8	5	12.88		
	30	342	46	59.52	— 8	14	38.08		23	343	15	11.17	— 8	5	22.00		
	May	1	342	48	16.10	— 8	14		9.15	24	343	14	53.17	— 8	5	31.84	
		2	342	49	31.22	— 8	13		40.85	25	343	14	33.42	— 8	5	42.39	
		3	342	50	44.80	— 8	13		13.19	26	343	14	11.92	— 8	5	53.64	
		4	342	51	56.82	— 8	12		46.17	27	343	13	48.69	— 8	6	5.58	
		5	342	53	7.22	— 8	12		19.80	28	343	13	23.73	— 8	6	18.21	
		6	342	54	16.00	— 8	11		54.09	29	343	12	57.06	— 8	6	31.53	
		7	342	55	23.18	— 8	11		29.03	30	343	12	28.70	— 8	6	45.53	
		8	342	56	28.77	— 8	11		4.64	July	1	343	11	58.65	— 8	7	0.21
		9	342	57	32.74	— 8	10		40.92		2	343	11	26.93	— 8	7	15.57
		10	342	58	35.07	— 8	10		17.87		3	343	10	53.56	— 8	7	31.59
		11	342	59	35.75	— 8	9		55.50		4	343	10	18.53	— 8	7	48.27
		12	343	0	34.77	— 8	9		33.83		5	343	9	41.86	— 8	8	5.60
		13	343	1	32.11	— 8	9		12.85		6	343	9	3.56	— 8	8	23.57
		14	343	2	27.75	— 8	8		52.56		7	343	8	23.64	— 8	8	42.17
		15	343	3	21.67	— 8	8		32.98		8	343	7	42.12	— 8	9	1.39
		16	343	4	13.89	— 8	8		14.12		9	343	6	59.02	— 8	9	21.24
		17	343	5	4.38	— 8	7		55.97		10	343	6	14.32	— 8	9	41.69
		18	343	5	53.12	— 8	7		38.55		11	343	5	28.05	— 8	10	2.74
19		343	6	40.10	— 8	7	21.86	12	343		4	40.25	— 8	10	24.38		
20		343	7	25.32	— 8	7	5.88	13	343		3	50.93	— 8	10	46.60		
21		343	8	8.75	— 8	6	50.61	14	343		3	0.10	— 8	11	9.39		
22		343	8	50.39	— 8	6	36.06	15	343		2	7.78	— 8	11	32.74		
23		343	9	30.27	— 8	6	22.25	16	343		1	13.98	— 8	11	56.64		
24		343	10	8.39	— 8	6	9.18	17	343		0	18.73	— 8	12	21.07		
25		343	10	44.76	— 8	5	56.84	18	342		59	22.07	— 8	12	46.15		
26		343	11	19.38	— 8	5	45.23	19	342		58	24.00	— 8	13	12.77		
27		343	11	52.24	— 8	5	34.36	20	342		57	24.53	— 8	13	38.94		
28		343	12	23.32	— 8	5	24.22	21	342		56	23.70	— 8	14	5.65		
29		343	12	52.58	— 8	5	14.81	22	342		55	21.55	— 8	14	32.87		
30		343	13	20.01	— 8	5	6.14	23	342		54	18.09	— 8	15	0.61		
31		343	13	45.61	— 8	4	58.21	24	342		53	13.35	— 8	15	23.86		
June	1	343	14	9.38	— 8	4	51.03	25	342		52	7.37	— 8	15	57.59		
	2	343	14	31.32	— 8	4	44.60	26	342		51	0.15	— 8	16	27.80		
	3	343	14	51.45	— 8	4	38.92	27	342		49	51.74	— 8	16	57.48		
	4	343	15	9.77	— 8	4	33.99	28	342		48	42.14	— 8	17	27.62		
	5	343	15	26.27	— 8	4	29.81	29	342		47	31.40	— 8	17	58.21		
	6	343	15	40.94	— 8	4	26.38	30	342		46	19.51	— 8	18	29.24		
	7	343	15	53.79	— 8	4	23.70	31	342		45	6.53	— 8	19	0.69		
	8	343	15	4.83	— 8	4	21.77	Aug.	1	342	43	52.46	— 8	19	32.55		
	9	343	16	14.04	— 8	4	20.58		2	342	42	37.35	— 8	20	4.81		
	10	343	16	21.42	— 8	4	20.13		3	342	41	21.18	— 8	20	37.44		

## Ephemeris of Neptune—Continued.

MEAN NOON, WASHINGTON.																	
Date.			Neptune's Right Ascension.			Neptune's Declination.			Date.			Neptune's Right Ascension.			Neptune's Declination.		
1852.			°	'	"	°	'	"	1852.			°	'	"	°	'	"
Aug.	4		342	40	4.04	— 8	21	10.44	Sept.	27		341	20	45.11	— 8	53	52.86
	5		342	38	45.91	— 8	21	43.80		28		341	19	23.83	— 8	54	25.19
	6		342	37	26.84	— 8	22	17.51		29		341	18	3.44	— 8	54	57.11
	7		342	36	6.85	— 8	22	51.57		30		341	16	43.98	— 8	55	28.62
	8		342	34	45.94	— 8	23	25.95	Oct.	1		341	15	25.46	— 8	55	59.72
	9		342	33	24.19	— 8	24	0.64		2		341	14	7.93	— 8	56	30.39
	10		342	32	1.61	— 8	24	35.63		3		341	12	51.41	— 8	57	0.62
	11		342	30	38.22	— 8	25	10.92		4		341	11	35.95	— 8	57	30.41
	12		342	29	14.05	— 8	25	46.48		5		341	10	21.56	— 8	57	59.74
	13		342	27	49.13	— 8	26	22.30		6		341	9	8.25	— 8	58	28.60
	14		342	26	23.51	— 8	26	58.36		7		341	7	56.07	— 8	58	56.98
	15		342	24	57.21	— 8	27	34.65		8		341	6	45.07	— 8	59	24.87
	16		342	23	30.29	— 8	28	11.17		9		341	5	35.26	— 8	59	52.24
	17		342	22	2.76	— 8	28	47.89		10		341	4	26.70	— 9	0	19.09
	18		342	20	34.67	— 8	29	24.79		11		341	3	19.40	— 9	0	45.41
	19		342	19	6.06	— 8	30	1.86		12		341	2	13.39	— 9	1	11.21
	20		342	17	36.95	— 8	30	39.08		13		341	1	8.69	— 9	1	36.48
	21		342	16	7.37	— 8	31	16.46		14		341	0	5.34	— 9	2	1.15
	22		342	14	37.38	— 8	31	53.97		15		340	59	3.39	— 9	2	25.23
	23		342	13	6.98	— 8	32	31.59		16		340	58	2.83	— 9	2	48.70
	24		342	11	36.23	— 8	33	9.33		17		340	57	3.68	— 9	3	11.54
	25		342	10	5.15	— 8	33	47.16		18		340	56	6.00	— 9	3	33.78
	26		342	8	33.78	— 8	34	25.07		19		340	55	9.80	— 9	3	55.41
	27		342	7	2.17	— 8	35	3.03		20		340	54	15.09	— 9	4	16.42
	28		342	5	30.34	— 8	35	41.03		21		340	53	21.90	— 9	4	36.80
	29		342	3	58.32	— 8	36	19.04		22		340	52	30.30	— 9	4	56.53
	30		342	2	26.14	— 8	36	57.06		23		340	51	40.29	— 9	5	15.60
	31		342	0	53.84	— 8	37	35.09		24		340	50	51.85	— 9	5	34.02
Sept.	1		341	59	21.45	— 8	38	13.12		25		340	50	5.01	— 9	5	51.77
	2		341	57	49.01	— 8	38	51.15		26		340	49	19.79	— 9	6	8.85
	3		341	56	16.55	— 8	39	29.17		27		340	48	36.22	— 9	6	25.25
	4		341	54	44.09	— 8	40	7.16		28		340	47	54.31	— 9	6	40.96
	5		341	53	11.68	— 8	40	45.12		29		340	47	14.04	— 9	6	55.98
	6		341	51	39.36	— 8	41	22.99		30		340	46	35.41	— 9	7	10.31
	7		341	50	7.19	— 8	42	0.78		31		340	45	58.44	— 9	7	23.94
	8		341	48	35.17	— 8	42	38.46	Nov.	1		340	45	23.20	— 9	7	36.86
	9		341	47	3.33	— 8	43	16.03		2		340	44	49.72	— 9	7	49.05
	10		341	45	31.73	— 8	43	53.46		3		340	44	18.00	— 9	8	0.52
	11		341	44	0.38	— 8	44	30.73		4		340	43	48.05	— 9	8	11.26
	12		341	42	29.32	— 8	45	7.81		5		340	43	19.89	— 9	8	21.27
	13		341	40	58.61	— 8	45	44.68		6		340	42	53.54	— 9	8	30.54
	14		341	39	28.27	— 8	46	21.36		7		340	42	29.05	— 9	8	39.06
	15		341	37	58.35	— 8	46	57.83		8		340	42	6.42	— 9	8	46.83
	16		341	36	28.89	— 8	47	34.06		9		340	41	45.64	— 9	8	53.85
	17		341	34	59.91	— 8	48	10.06		10		340	41	26.73	— 9	9	0.12
	18		341	33	31.46	— 8	48	45.79		11		340	41	9.70	— 9	9	5.62
	19		341	32	3.58	— 8	49	21.20		12		340	40	54.55	— 9	9	10.35
	20		341	30	36.32	— 8	49	56.30		13		340	40	41.29	— 9	9	14.32
	21		341	29	9.69	— 8	50	31.10		14		340	40	29.93	— 9	9	17.52
	22		341	27	43.71	— 8	51	5.59		15		340	40	20.50	— 9	9	19.93
	23		341	26	18.45	— 8	51	39.75		16		340	40	13.00	— 9	9	21.57
	24		341	24	53.94	— 8	52	13.57		17		340	40	7.42	— 9	9	22.43
	25		341	23	30.19	— 8	52	47.03		18		340	40	3.76	— 9	9	22.51
	26		341	22	7.24	— 8	53	20.13		19		340	40	2.05	— 9	9	21.82

*Ephemeris of Neptune—Continued.*

MEAN NOON, WASHINGTON.																	
Date.		Neptune's Right Ascension.			Neptune's Declination.			Date.		Neptune's Right Ascension.			Neptune's Declination.				
1852.		°	'	"	°	'	"	1852.		°	'	"	°	'	"		
Nov.	20	340	40	2.28	—	9	9	20.34	Dec.	12	340	48	17.75	—	9	5	31.39
	21	340	40	4.45	—	9	9	18.09		13	340	49	2.36	—	9	5	12.17
	22	340	40	8.55	—	9	9	15.05		14	340	49	48.82	—	9	4	52.20
	23	340	40	14.60	—	9	9	11.24		15	340	50	37.13	—	9	4	31.49
	24	340	40	22.59	—	9	9	6.65		16	340	51	27.27	—	9	4	10.05
	25	340	40	32.53	—	9	9	1.28		17	340	52	19.26	—	9	3	47.90
	26	340	40	44.40	—	9	8	55.13		18	340	53	13.10	—	9	3	25.03
	27	340	40	58.22	—	9	8	48.20		19	340	54	8.77	—	9	3	1.44
	28	340	41	13.98	—	9	8	40.48		20	340	55	6.23	—	9	2	37.14
	29	340	41	31.68	—	9	8	31.98		21	340	56	5.44	—	9	2	12.14
	30	340	41	51.32	—	9	8	22.71		22	340	57	6.38	—	9	1	46.45
Dec.	1	340	42	12.91	—	9	8	12.67		23	340	58	9.06	—	9	1	20.07
	2	340	42	36.45	—	9	8	1.85		24	340	59	13.46	—	9	0	53.02
	3	340	43	1.92	—	9	7	50.25		25	341	0	19.59	—	9	0	25.32
	4	340	43	29.32	—	9	7	37.88		26	341	1	27.41	—	8	59	56.95
	5	340	43	58.66	—	9	7	24.74		27	341	2	36.91	—	8	59	27.92
	6	340	44	29.92	—	9	7	10.83		28	341	3	48.06	—	8	58	58.23
	7	340	45	3.08	—	9	6	56.15		29	341	5	0.86	—	8	58	27.89
	8	340	45	38.16	—	9	6	40.70		30	341	6	15.29	—	8	57	56.91
	9	340	46	15.21	—	9	6	24.50		31	341	7	31.32	—	8	57	25.29
	10	340	46	54.16	—	9	6	7.55		32	341	8	48.94	—	8	56	53.03
	11	340	47	35.01	—	9	5	49.85		33	341	10	8.15	—	8	56	20.14

Date 1852.	Heliocentric co-ordinates of Neptune for mean noon, Washington, referred to the apparent equinox and equator.			Logarithm of Neptune's distance from the Earth.
	$x$	$y$	$z$	Log. $\Delta$
January 7	27.89188	— 9.83185	— 4.751536	1.4852396
15	.90094	.80989	.742538	.4866768
23	.90997	.78793	.733741	.4879150
31	.91898	.76589	.724937	.4889322
February 8	.92798	.74384	.716152	.4897129
16	.93696	.72182	.707360	.4902456
24	.94591	.69982	.698566	.4905268
March 3	.95483	.67782	.689770	.4905509
11	.96372	.65583	.680977	.4903032
19	.97259	.63388	.672185	.4898097
27	.98145	.61182	.663386	.4890803
April 4	.99030	.58981	.654584	.4881179
12	.99913	.56781	.645772	.4869426
20	28.00794	.54576	.636949	.4855743
28	.01674	.52371	.628119	.4840339
May 6	.02554	.50164	.619278	.4823511
14	.03430	.47955	.610329	.4805521
22	.04304	.45744	.601574	.4786651
30	.05176	.43531	.592712	.4767258
June 7	.06048	.41317	.583849	.4747662
15	.06918	.39101	.574987	.4728306
13	.07785	.36884	.566123	.4709446
July 1	.08650	.34666	.557257	.4691375
9	.09514	.32449	.548388	.4674568
17	.10376	.30231	.539517	.4659296
25	.11236	.28014	.530644	.4645896
August 2	.12093	.25796	.521768	.4634626
10	.12947	.23578	.512890	.4625736
18	.13798	.21361	.504010	.4619424
26	.14647	.19144	.495127	.4615851
September 3	.15494	.16928	.486242	.4615088
11	.16339	.14712	.477355	.4617170
19	.17182	.12495	.468467	.4622045
27	.18022	.10278	.459576	.4629647
October 5	.18860	.08060	.450681	.4639844
13	.19697	.05841	.441784	.4652535
21	.20532	.03621	.432884	.4667244
29	.21366	.01399	.423980	.4683751
November 6	.22198	— 8.99174	.415069	.4701721
14	.23029	.96949	.406142	.4720793
22	.23858	.94721	.397214	.4740572
30	.24685	.92492	.388280	.4760645
December 8	.25511	.90261	.379337	.4780658
16	.26335	.88029	.370388	.4800201
24	.27157	.85796	.361432	.4818899
32	.27977	.83563	.352470	.4836414
40	.28795	.81329	.343506	.4852454



Walker, Sears Cook. 1852. "An ephemeris of the planet Neptune for the year 1852." *Smithsonian contributions to knowledge* 3, 1-9.

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