ASTRONOMISCHE NACHRICHTEN.

N^o 2436.

Beobachtungen von Planeten am Meridiankreise der Hamburger Sternwarte im Jahre 1881.

M e r c u r.

1881	M.Z. Hamb.	α app.	Fäden	δ app.	Parall.	B—R		Bemerkungen
						$\Delta\alpha$	$\Delta\delta$	
Nov. 27	22 ^h 30 ^m 35 ^s	15 ^h 0 ^m 19.89	7	—14° 52' 18".9	+7.5	— 0.09	0".0	II M.
28	22 31 33	15 5 13.85	3	—15 18 41.1	+7.4	— 0.23	— 0.7	» » AR. uns.

V e n u s.

Jan. 8	3 1 6	22 14 11.61	7	—12 32 27.3	+7.9	— 0.10	— 3.7	I M.
Nov. 27	22 26 26	14 56 9.57	7	—15 23 57.6	+5.3	— 0.10	— 0.6	II M.
28	22 27 27	15 1 6.88	7	—15 46 46.4	+5.3	— 0.24	— 0.2	» » AR. uns.

(1) C e r e s.

Juni 29	10 10 26	16 42 49.27	7	—22 23 35.7	+4.6	+ 5.97	—33.8	
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(4) V e s t a.

Oct. 12	13 26 41	2 53 34.05	7	+ 5 23 42.9	+4.2	+ 0.63	+ 4.8	Durch Wolken.
16	13 7 39	2 50 15.78	6	+ 5 5 37.8	+4.2	+ 0.61	+ 4.3	
17	13 2 51	2 49 23.57	7	+ 5 1 10.6	+4.2	+ 0.74	+ 5.3	
28	12 9 11	2 38 56.14	7	+ 4 15 19.4	+4.3	+ 0.69	+ 4.8	
29	12 4 15	2 37 56.27	5	+ 4 11 34.3	+4.3	+ 0.75	+ 2.0	Unsicher.
31	11 54 23	2 35 56.01	7	+ 4 4 30.4	+4.3	+ 0.74	+ 4.2	
Nov. 8	11 15 1	2 27 59.76	7	+ 3 40 55.9	+4.2	+ 0.69	+ 3.8	
9	11 10 7	2 27 1.85	7	+ 3 38 36.2	+4.2	+ 0.63	+ 3.9	
15	10 41 0	2 21 29.52	7	+ 3 27 50.8	+4.2	+ 0.60	+ 2.8	
19	10 21 54	2 18 6.45	7	+ 3 24 1.0	+4.2	+ 0.74	+ 4.9	
25	9 53 50	2 13 37.60	7	+ 3 23 26.1	+4.1	+ 0.58	+ 3.7	

(6) H e b e.

Juni 29	10 41 14	17 13 42.04	7	— 3 41 39.9	+4.8	+ 8.95	—37.8	
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(8) F l o r a.

Jan. 24	13 2 13	9 20 0.64	7	+19 33 36.7	+4.0	+10.77	—27.4	
Febr. 17	11 2 41	8 54 47.25	6	+22 25 53.0	+3.6	+10.69	—20.7	
18	10 57 51	8 53 53.12	6	+22 31 8.6	+3.5	+10.61	—21.2	
23	10 34 5	8 49 45.62	7	+22 54 35.2	+3.4	—	—	

(9) M e t i s.

April 28	10 59 14	13 27 18.30	6	— 2 50 42.8	+4.6	— 1.04	+ 6.9	
Mai 5	10 26 1	13 21 36.23	4	— 2 36 22.2	+4.5	—	—	
6	10 21 21	13 20 51.83	7	— 2 34 57.4	+4.4	—	—	
10	10 2 53	13 18 6.46	4	— 2 30 32.5	+4.4	—	—	

(11) P a r t h e n o p e.

1881	M.Z. Hamb.	α app.	Fäden	δ app.	Parall.	B—R		Bemerkungen
						$\Delta\alpha$	$\Delta\delta$	
Juni 29	10 ^h 19 ^m 51 ^s	17 ^h 52 ^m 25 ^s 08	5	— 18° 58' 12.3	+ 6".7	— 0 ^s 49	— 8".9	

(13) E g e r i a.

März 28	11	43	10	12	9	8.30	7	+19	48	8.4	+3.3	+ 2.40	—29.3
April 1	11	23	17	12	4	58.29	5	+19	39	58.1	+3.3	+ 2.34	—24.9

(40) H a r m o n i a.

Sept.	7	13	34	27	0	43	21.96	7	—	3	37	51.8	+5.6	+	0.08	—	0.4
	17	12	46	28	0	35	41.49	5	—	4	42	40.1	+5.9	+	0.12	—	0.9
	24	12	13	38	0	29	21.56	7	—	5	27	34.0	+6.0	+	0.16	—	0.8
	29	11	49	16	0	24	38.42	7	—	5	57	9.3	+6.0	+	0.10	+	0.3
Oct.	12	10	46	33	0	13	0.30	7	—	6	56	5.4	+6.1	—	0.12	—	1.2
	13	10	41	50	0	12	12.36	7	—	6	59	14.8	+6.1	—	0.07	—	0.7
	16	10	27	45	0	9	55.61	7	—	7	7	26.1	+6.1	—	—	—	—

J u p i t e r.

Oct.	2	14	46	42	3	34	35.03	7	+18	0	42.5	+1.2	+ 0.16	+ 1.1	I M.	Radius
	8	14	21	39	3	32	53.43	7	+17	54	16.6	+1.2	+ 0.08	+ 1.5	II M.	Durchg.-Zt.
	16	13	47	16	3	29	59.03	14	+17	43	28.4	+1.3	+ 0.18	+ 0.9	I u. II M.	1 ^s 64
	17	13	42	55	3	29	34.34	14	+17	41	56.8	+1.3	+ 0.18	+ 0.1	» »	1.75
	29	12	50	9	3	23	57.64	14	+17	21	23.1	+1.3	+ 0.14	— 0.8	» »	1.78
	31	12	41	15	3	22	55.88	10	+17	17	39.6	+1.3	+ 0.27	+ 2.2	» »	1.99
Nov.	9	12	1	2	3	18	5.43	14	+16	59	54.6	+1.3	— 0.03	+ 1.2	» »	1.73
	13	11	43	7	3	15	53.52	12	+16	71	48.4	+1.3	+ 0.07	+ 0.3	» »	1.57
	15	11	34	9	3	14	47.54	14	+16	47	46.4	+1.3	+ 0.07	+ 1.3	» »	1.74
	17	11	25	12	3	13	41.91	14	+16	43	45.1	+1.3	— 0.12	+ 1.6	» »	1.64
	19	11	16	15	3	12	36.74	14	+16	39	43.9	+1.3	+ 0.12	+ 0.2	» »	1.75
	22	11	2	52	3	11	0.44	14	+16	33	49.8	+1.3	+ 0.16	+ 0.6	» »	1.67
	24	10	53	57	3	9	57.39	14	+16	29	58.3	+1.3	+ 0.10	+ 0.6	» »	1.72
	25	10	49	30	3	9	26.29	14	+16	28	3.6	+1.3	+ 0.03	+ 0.1	» »	1.65
	27	10	40	37	3	8	25.24	10	+16	24	21.2	+1.3	+ 0.07	+ 1.8	» »	1.64
Dec.	21	8	56	43	2	58	51.73	14	+15	50	29.0	+1.3	+ 0.08	— 0.1	» »	1.58
	30	8	19	27	2	56	58.55	14	+15	45	3.9	+1.2	+ 0.16	+ 1.7	» »	1.59

S a t u r n.

Jan.	10	6	5	16	—	—	+	6	23	48.1	+0.7	—	—	4.3	M.			
Oct.	2	13	51	7	2	38	9.48	7	+	12	39	11.5	+0.7	—	0.69	—	3.5	I M.
	12	13	8	43	2	35	33.25	7	+	12	25	40.4	+0.7	—	0.67	—	3.5	II »
	16	12	51	50	2	34	24.73	7	+	12	19	54.0	+0.7	—	0.69	—	4.2	I »
	17	12	47	38	2	34	7.02	7	+	12	18	26.0	+0.7	—	0.86	—	4.5	II »
	31	11	48	18	2	29	50.18	7	+	11	57	28.8	+0.7	—	0.79	—	5.9	I »
Nov.	13	10	53	11	2	25	50.12	7	+	11	38	47.1	+0.7	—	0.68	—	1.9	I »
	15	10	44	44	2	25	14.45	7	+	11	36	2.7	+0.7	—	0.73	—	3.7	II »
	19	10	27	51	2	24	5.15	6	+	11	30	50.3	+0.7	—	0.59	—	3.2	I »
	25	10	2	37	2	22	26.74	7	+	11	23	38.2	+0.7	—	0.63	—	2.5	I »
Dec.	21	8	15	20	2	17	20.68	7	+	11	4	1.7	+0.7	—	0.55	—	3.4	II »
	30	7	39	8	2	16	32.97	7	+	11	2	37.9	+0.7	—	0.50	—	3.3	I »

U r a n u s.

1881	M.Z. Hamb.	α app.	Fäden	δ app.	Parall.	B—R		Bemerkungen
						$\Delta\alpha$	$\Delta\delta$	
Febr. 17	13 ^h 3 ^m 26 ^s	10 ^h 55 ^m 51 ^s 83	7	+ 7° 42' 55".6	+0".4	+ 0.517	— 2".2	Mitte.
18	12 59 21	10 55 42.28	7	+ 7 43 57.5	+0.4	+ 0.07	+ 0.8	"
23	12 38 53	10 54 54.41	7	+ 7 48 53.0	+0.4	+ 0.14	— 1.3	"
27	12 22 31	10 54 15.43	7	+ 7 52 52.1	+0.4	+ 0.09	— 2.6	"
März 4	12 2 3	10 53 26.65	7	+ 7 57 52.6	+0.4	+ 0.24	— 2.4	" Unsicher.
5	11 57 57	10 53 16.80	7	+ 7 58 52.2	+0.4	+ 0.16	— 2.6	"
14	11 21 7	10 51 49.95	7	+ 8 7 42.2	+0.4	+ 0.07	+ 0.1	"
15	11 17 2	10 51 40.55	7	+ 8 8 36.5	+0.4	+ 0.10	— 2.6	"
16	11 12 57	10 51 31.26	7	+ 8 9 33.3	+0.4	+ 0.18	— 2.4	"
21	10 52 31	10 50 45.37	7	+ 8 14 7.5	+0.3	+ 0.22	— 2.9	"
26	10 32 8	10 50 1.31	7	+ 8 18 31.4	+0.3	+ 0.03	— 1.9	"
28	10 23 59	10 49 44.59	7	+ 8 20 13.3	+0.3	+ 0.20	— 0.2	"
29	10 19 55	10 49 36.22	7	+ 8 21 2.3	+0.3	+ 0.12	— 0.3	"
30	10 15 51	10 49 28.02	7	+ 8 21 48.7	+0.3	+ 0.10	— 2.2	"
31	10 11 47	10 49 19.97	7	+ 8 22 36.3	+0.3	+ 0.12	— 2.2	"
April 1	10 7 43	10 49 12.09	7	+ 8 23 24.4	+0.3	+ 0.18	— 0.9	"
3	9 59 36	10 48 56.47	7	+ 8 24 54.9	+0.3	+ 0.09	— 1.5	"
4	9 55 32	10 48 48.94	7	+ 8 25 39.2	+0.3	+ 0.13	— 1.6	"
7	9 43 23	10 48 27.06	7	+ 8 27 46.9	+0.3	+ 0.18	— 1.9	"
8	9 39 20	10 48 19.89	7	+ 8 28 28.2	+0.3	+ 0.05	— 1.5	"
9	9 35 17	10 48 13.15	7	+ 8 29 8.2	+0.3	+ 0.20	— 1.4	"
10	9 31 15	10 48 6.36	7	+ 8 29 46.7	+0.3	+ 0.16	— 1.9	"
12	9 23 10	10 47 53.34	7	+ 8 31 2.3	+0.3	+ 0.10	— 1.5	"
14	9 15 5	10 47 40.90	7	+ 8 32 13.4	+0.3	+ 0.17	— 1.8	"
16	9 7 2	10 47 29.00	4	+ 8 33 22.0	+0.3	+ 0.07	— 2.1	" Durch Wolken.
22	8 42 55	10 46 57.47	3	+ 8 36 17.9	+0.3	+ 0.28	— 1.8	" AR. unsicher.

N e p t u n.

Jan. 6	7 32 55	2 38 51.30	7	+13 35 55.6	+0.2	+ 0.06	+ 1.4	Mitte.
8	7 25 0	2 38 47.62	7	+13 35 42.5	+0.2	+ 0.14	— 1.4	"
16	6 53 23	2 38 37.87	7	+13 35 29.3	+0.2	+ 0.20	+ 0.9	"
Febr. 4	5 38 51	2 38 49.00	7	+13 37 33.5	+0.2	+ 0.13	— 2.4	"
Oct. 2	14 7 3	2 56 37.36	7	+14 54 42.4	+0.2	+ 0.17	+ 0.6	"
16	13 12 42	2 55 19.32	7	+14 48 36.7	+0.2	+ 0.23	— 0.4	"
17	13 8 40	2 55 13.24	7	+14 48 9.2	+0.2	+ 0.22	0.0	"
29	12 20 13	2 53 56.86	7	+14 42 24.5	+0.2	+ 0.20	0.0	"
31	12 12 8	2 53 43.60	7	+14 41 28.5	+0.2	+ 0.10	+ 2.6	"
Nov. 8	11 39 48	2 52 50.56	6	+14 37 30.8	+0.2	+ 0.27	— 0.6	"
9	11 35 45	2 52 43.72	7	+14 37 2.6	+0.2	+ 0.09	+ 0.3	"
15	11 11 30	2 52 3.96	7	+14 34 9.5	+0.2	+ 0.11	— 0.3	"
17	11 3 25	2 51 50.97	6	+14 33 13.1	+0.2	+ 0.24	— 0.3	"
19	10 55 20	2 51 37.96	7	+14 32 18.2	+0.2	+ 0.24	+ 0.6	"
22	10 43 13	2 51 18.66	4	+14 30 54.7	+0.2	+ 0.21	— 0.8	"
24	10 35 9	2 51 6.03	7	+14 30 2.2	+0.2	+ 0.23	+ 0.1	"
25	10 31 6	2 50 59.82	6	+14 29 37.2	+0.2	+ 0.28	+ 1.5	"
27	10 23 2	2 50 47.36	7	+14 28 44.2	+0.2	+ 0.18	+ 0.4	"
Dec. 21	8 46 34	2 48 41.07	7	+14 20 15.3	+0.2	+ 0.32	+ 0.7	"
30	8 10 38	2 48 7.63	7	—	—	+ 0.24	—	"

Sämmtliche obige Beobachtungen sind »Auge-Ohr« erhalten; die Vergleichen beziehen sich bei den grossen Planeten, Ceres und Vesta, auf die Transit Ephemeriden des Nautical Almanac, bei den kleinen Planeten auf das Berliner Jahrbuch, jedoch ist für die Berechnung der Parallaxe immer der Werth $\pi = 8''85$ zu Grunde gelegt.

In der letzten Columnne bedeutet I und II den ersten und zweiten Rand der Planetenscheibe, M die Mitte.

Hamburg 1882 März 20.

C. Schrader.