



Ephemeriden für Sternfreunde

von Karl-Heinz Bücke

Jupiter

Januar 2015 (0^h UT)

Tag	α	δ	Δ	φ	m_V	$\varnothing_{\text{Ä}}$	\varnothing_{P}	D_s	D_e	q	l	b	r
1	9:36	15.0	4.54	7.0	-2.0	43.3"	40.4"	0.1	-0.2	-0.2"	134.5	0.7	5.32
5	9:35	15.1	4.50	6.4	-2.0	43.7"	40.8"	0.1	-0.2	-0.1"	134.8	0.7	5.32
9	9:33	15.3	4.47	5.7	-2.0	44.1"	41.2"	0.1	-0.2	-0.1"	135.1	0.7	5.32
13	9:32	15.4	4.44	5.0	-2.1	44.4"	41.4"	0.1	-0.2	-0.1"	135.4	0.7	5.32
17	9:30	15.5	4.41	4.2	-2.1	44.7"	41.7"	0.1	-0.2	-0.1"	135.7	0.8	5.33
21	9:28	15.7	4.39	3.5	-2.1	44.9"	41.9"	0.1	-0.2	0.0"	136.1	0.8	5.33
25	9:26	15.8	4.37	2.7	-2.1	45.1"	42.1"	0.0	-0.2	0.0"	136.4	0.8	5.33
29	9:24	16.0	4.36	1.8	-2.1	45.2"	42.2"	0.0	-0.2	0.0"	136.7	0.8	5.33

Februar 2015 (0^h UT)

Tag	α	δ	Δ	φ	m_V	$\varnothing_{\text{Ä}}$	\varnothing_{P}	D_s	D_e	q	l	b	r
1	9:23	16.1	4.35	1.2	-2.1	45.3"	42.3"	0.0	-0.2	0.0"	136.9	0.8	5.33
5	9:21	16.3	4.35	0.4	-2.1	45.3"	42.3"	0.0	-0.2	0.0"	137.2	0.8	5.33
9	9:19	16.5	4.35	0.5	-2.1	45.3"	42.3"	0.0	-0.2	0.0"	137.6	0.8	5.33
13	9:16	16.6	4.35	1.3	-2.1	45.2"	42.2"	0.0	-0.2	0.0"	137.9	0.8	5.33
17	9:14	16.8	4.36	2.2	-2.1	45.1"	42.1"	-0.1	-0.2	0.0"	138.2	0.8	5.33
21	9:12	16.9	4.38	3.0	-2.1	45.0"	42.0"	-0.1	-0.1	0.0"	138.5	0.8	5.34
25	9:10	17.1	4.40	3.8	-2.1	44.8"	41.8"	-0.1	-0.1	0.0"	138.8	0.8	5.34

März 2015 (0^h UT)

Tag	α	δ	Δ	φ	m_V	$\varnothing_{\text{Ä}}$	\varnothing_{P}	D_s	D_e	q	l	b	r
1	9:09	17.2	4.43	4.5	-2.1	44.5"	41.5"	-0.1	-0.1	0.1"	139.1	0.8	5.34
5	9:07	17.4	4.46	5.3	-2.0	44.2"	41.3"	-0.1	-0.1	0.1"	139.4	0.8	5.34
9	9:05	17.5	4.49	6.0	-2.0	43.9"	41.0"	-0.1	-0.1	0.1"	139.8	0.8	5.34
13	9:04	17.6	4.53	6.6	-2.0	43.5"	40.6"	-0.2	-0.1	0.1"	140.1	0.8	5.34
17	9:03	17.7	4.57	7.3	-2.0	43.1"	40.2"	-0.2	0.0	0.2"	140.4	0.8	5.34
21	9:02	17.7	4.62	7.8	-2.0	42.7"	39.9"	-0.2	0.0	0.2"	140.7	0.8	5.34
25	9:01	17.8	4.66	8.4	-1.9	42.2"	39.4"	-0.2	0.0	0.2"	141.0	0.8	5.35
29	9:00	17.9	4.71	8.8	-1.9	41.8"	39.0"	-0.2	0.0	0.2"	141.3	0.9	5.35

April 2015 (0^h UT)

Tag	α	δ	Δ	φ	m_V	$\varnothing_{\text{Ä}}$	\varnothing_{P}	D_s	D_e	q	l	b	r
1	9:00	17.9	4.75	9.1	-1.9	41.4"	38.6"	-0.2	0.0	0.3"	141.6	0.9	5.35
5	9:00	17.9	4.81	9.5	-1.9	40.9"	38.2"	-0.3	0.0	0.3"	141.9	0.9	5.35
9	9:00	17.9	4.87	9.9	-1.9	40.5"	37.8"	-0.3	0.0	0.3"	142.2	0.9	5.35
13	9:00	17.9	4.93	10.1	-1.8	40.0"	37.3"	-0.3	0.0	0.3"	142.5	0.9	5.35
17	9:00	17.9	4.99	10.4	-1.8	39.5"	36.9"	-0.3	0.0	0.3"	142.8	0.9	5.35
21	9:01	17.9	5.05	10.6	-1.8	39.0"	36.4"	-0.3	0.0	0.3"	143.1	0.9	5.35
25	9:01	17.8	5.11	10.7	-1.7	38.5"	35.9"	-0.3	0.0	0.3"	143.5	0.9	5.35
29	9:02	17.8	5.18	10.8	-1.7	38.0"	35.5"	-0.4	0.0	0.3"	143.8	0.9	5.36

Mai 2015 (0^h UT)

Tag	α	δ	Δ	φ	m_V	$\varnothing_{\text{Ä}}$	\varnothing_{P}	D_s	D_e	q	l	b	r
1	9:03	17.7	5.21	10.8	-1.7	37.8"	35.3"	-0.4	0.0	0.3"	143.9	0.9	5.36
5	9:04	17.7	5.27	10.8	-1.7	37.4"	34.9"	-0.4	0.0	0.3"	144.2	0.9	5.36
9	9:05	17.6	5.34	10.8	-1.6	36.9"	34.4"	-0.4	0.0	0.3"	144.5	0.9	5.36
13	9:07	17.5	5.40	10.8	-1.6	36.5"	34.1"	-0.4	0.0	0.3"	144.9	0.9	5.36
17	9:09	17.4	5.46	10.7	-1.6	36.1"	33.7"	-0.4	0.0	0.3"	145.2	0.9	5.36
21	9:10	17.2	5.52	10.5	-1.6	35.6"	33.2"	-0.4	0.0	0.3"	145.5	0.9	5.36
25	9:12	17.1	5.59	10.4	-1.5	35.3"	32.9"	-0.5	0.0	0.3"	145.8	0.9	5.36
29	9:14	16.9	5.65	10.1	-1.5	34.9"	32.6"	-0.5	-0.1	0.3"	146.1	0.9	5.36

Juni 2015 (0^h UT)

Tag	α	δ	Δ	φ	m_V	$\varnothing_{\text{Ä}}$	\varnothing_{P}	D_s	D_e	q	l	b	r
1	9:16	16.8	5.69	10.0	-1.5	34.6"	32.3"	-0.5	-0.1	0.3"	146.3	0.9	5.36
5	9:18	16.6	5.75	9.7	-1.5	34.3"	32.0"	-0.5	-0.1	0.2"	146.7	0.9	5.37
9	9:21	16.5	5.80	9.4	-1.5	33.9"	31.6"	-0.5	-0.1	0.2"	147.0	0.9	5.37
13	9:23	16.3	5.86	9.1	-1.4	33.6"	31.4"	-0.5	-0.1	0.2"	147.3	0.9	5.37
17	9:26	16.1	5.91	8.7	-1.4	33.3"	31.1"	-0.6	-0.1	0.2"	147.6	1.0	5.37
21	9:29	15.9	5.96	8.4	-1.4	33.0"	30.8"	-0.6	-0.2	0.2"	147.9	1.0	5.37
25	9:31	15.7	6.01	8.0	-1.4	32.8"	30.6"	-0.6	-0.2	0.2"	148.2	1.0	5.37
29	9:34	15.4	6.05	7.6	-1.4	32.5"	30.3"	-0.6	-0.2	0.1"	148.5	1.0	5.37

Juli 2015 (0^h UT)

Tag	α	δ	Δ	φ	m_V	$\varnothing_{\text{Ä}}$	\varnothing_{P}	D_s	D_e	q	l	b	r
1	9:36	15.3	6.08	7.4	-1.4	32.4"	30.2"	-0.6	-0.2	0.1"	148.7	1.0	5.37
5	9:39	15.1	6.12	6.9	-1.3	32.2"	30.1"	-0.6	-0.3	0.1"	149.0	1.0	5.37
9	9:42	14.8	6.16	6.5	-1.3	32.0"	29.9"	-0.7	-0.3	0.1"	149.3	1.0	5.37
13	9:45	14.6	6.19	6.0	-1.3	31.8"	29.7"	-0.7	-0.3	0.1"	149.6	1.0	5.38
17	9:48	14.3	6.23	5.5	-1.3	31.6"	29.5"	-0.7	-0.3	0.1"	149.9	1.0	5.38
21	9:51	14.0	6.26	5.0	-1.3	31.5"	29.4"	-0.7	-0.4	0.1"	150.2	1.0	5.38
25	9:54	13.8	6.29	4.5	-1.3	31.3"	29.2"	-0.7	-0.4	0.0"	150.5	1.0	5.38
29	9:57	13.5	6.31	4.0	-1.3	31.2"	29.1"	-0.7	-0.4	0.0"	150.9	1.0	5.38

August 2015 (0^h UT)

Tag	α	δ	Δ	φ	m_V	$\varnothing_{\text{Ä}}$	\varnothing_{P}	D_s	D_e	q	l	b	r
1	10:00	13.3	6.33	3.6	-1.3	31.1"	29.0"	-0.7	-0.5	0.0"	151.1	1.0	5.38
5	10:03	13.0	6.35	3.0	-1.3	31.0"	28.9"	-0.8	-0.5	0.0"	151.4	1.0	5.38
9	10:06	12.7	6.36	2.5	-1.3	30.9"	28.8"	-0.8	-0.5	0.0"	151.7	1.0	5.38
13	10:10	12.4	6.38	1.9	-1.3	30.9"	28.8"	-0.8	-0.6	0.0"	152.0	1.0	5.38
17	10:13	12.1	6.39	1.4	-1.2	30.8"	28.7"	-0.8	-0.6	0.0"	152.3	1.0	5.38
21	10:16	11.8	6.39	0.8	-1.2	30.8"	28.7"	-0.8	-0.6	0.0"	152.6	1.0	5.39
25	10:20	11.5	6.40	0.3	-1.2	30.8"	28.7"	-0.8	-0.7	0.0"	153.0	1.0	5.39
29	10:23	11.2	6.40	0.3	-1.2	30.8"	28.7"	-0.9	-0.7	0.0"	153.3	1.0	5.39

September 2015 (0^h UT)

Tag	α	δ	Δ	φ	m_V	$\varnothing_{\text{Ä}}$	\varnothing_{P}	D_s	D_e	q	l	b	r
1	10:25	10.9	6.39	0.7	-1.2	30.8"	28.7"	-0.9	-0.7	0.0"	153.5	1.0	5.39
5	10:29	10.6	6.39	1.3	-1.2	30.8"	28.7"	-0.9	-0.8	0.0"	153.8	1.0	5.39
9	10:32	10.3	6.38	1.8	-1.2	30.9"	28.8"	-0.9	-0.8	0.0"	154.1	1.0	5.39
13	10:35	10.0	6.37	2.4	-1.3	30.9"	28.8"	-0.9	-0.9	0.0"	154.4	1.1	5.39
17	10:38	9.7	6.35	2.9	-1.3	31.0"	28.9"	-0.9	-0.9	0.0"	154.7	1.1	5.39
21	10:42	9.4	6.33	3.5	-1.3	31.1"	29.0"	-1.0	-0.9	0.0"	155.0	1.1	5.39
25	10:45	9.0	6.31	4.0	-1.3	31.2"	29.1"	-1.0	-1.0	0.0"	155.3	1.1	5.39
29	10:48	8.7	6.28	4.5	-1.3	31.3"	29.2"	-1.0	-1.0	0.0"	155.7	1.1	5.39

Oktober 2015 (0^h UT)

Tag	α	δ	Δ	φ	m_V	$\varnothing_{\text{Ä}}$	\varnothing_{P}	D_s	D_e	q	l	b	r
1	10:49	8.6	6.27	4.8	-1.3	31.4"	29.3"	-1.0	-1.0	-0.1"	155.8	1.1	5.40
5	10:53	8.3	6.24	5.3	-1.3	31.6"	29.5"	-1.0	-1.1	-0.1"	156.1	1.1	5.40
9	10:56	8.0	6.21	5.8	-1.3	31.7"	29.6"	-1.0	-1.1	-0.1"	156.4	1.1	5.40
13	10:58	7.7	6.17	6.3	-1.3	31.9"	29.8"	-1.0	-1.1	-0.1"	156.7	1.1	5.40
17	11:01	7.4	6.13	6.7	-1.3	32.1"	30.0"	-1.1	-1.2	-0.1"	157.0	1.1	5.40
21	11:04	7.1	6.09	7.2	-1.3	32.3"	30.1"	-1.1	-1.2	-0.1"	157.4	1.1	5.40
25	11:07	6.8	6.05	7.6	-1.4	32.6"	30.4"	-1.1	-1.3	-0.1"	157.7	1.1	5.40
29	11:10	6.5	6.00	8.0	-1.4	32.8"	30.6"	-1.1	-1.3	-0.2"	158.0	1.1	5.40

November 2015 (0^h UT)

Tag	α	δ	Δ	φ	m_V	$\varnothing_{\text{Ä}}$	\varnothing_{P}	D_s	D_e	q	l	b	r
1	11:11	6.4	5.96	8.3	-1.4	33.0"	30.8"	-1.1	-1.3	-0.2"	158.2	1.1	5.40
5	11:14	6.1	5.91	8.6	-1.4	33.3"	31.1"	-1.1	-1.4	-0.2"	158.5	1.1	5.40
9	11:16	5.8	5.86	9.0	-1.4	33.6"	31.4"	-1.1	-1.4	-0.2"	158.8	1.1	5.40
13	11:19	5.6	5.80	9.3	-1.4	33.9"	31.6"	-1.2	-1.4	-0.2"	159.1	1.1	5.40
17	11:21	5.4	5.75	9.6	-1.5	34.3"	32.0"	-1.2	-1.5	-0.2"	159.4	1.1	5.41
21	11:23	5.2	5.69	9.8	-1.5	34.6"	32.3"	-1.2	-1.5	-0.3"	159.7	1.1	5.41
25	11:25	5.0	5.63	10.0	-1.5	35.0"	32.7"	-1.2	-1.6	-0.3"	160.0	1.1	5.41
29	11:26	4.8	5.57	10.2	-1.5	35.4"	33.0"	-1.2	-1.6	-0.3"	160.4	1.1	5.41

Dezember 2015 (0^h UT)

Tag	α	δ	Δ	φ	m_V	$\varnothing_{\text{Ä}}$	\varnothing_{P}	D_s	D_e	q	l	b	r
1	11:27	4.7	5.54	10.3	-1.5	35.6"	33.2"	-1.2	-1.6	-0.3"	160.5	1.1	5.41
5	11:29	4.5	5.47	10.4	-1.6	36.0"	33.6"	-1.2	-1.6	-0.3"	160.8	1.1	5.41
9	11:30	4.4	5.41	10.4	-1.6	36.4"	34.0"	-1.3	-1.7	-0.3"	161.1	1.1	5.41
13	11:32	4.3	5.35	10.5	-1.6	36.8"	34.3"	-1.3	-1.7	-0.3"	161.4	1.1	5.41
17	11:33	4.1	5.28	10.5	-1.6	37.3"	34.8"	-1.3	-1.7	-0.3"	161.7	1.1	5.41
21	11:34	4.0	5.22	10.4	-1.7	37.7"	35.2"	-1.3	-1.8	-0.3"	162.0	1.1	5.41
25	11:34	4.0	5.16	10.3	-1.7	38.2"	35.7"	-1.3	-1.8	-0.3"	162.3	1.1	5.41
29	11:35	3.9	5.09	10.2	-1.7	38.7"	36.1"	-1.3	-1.8	-0.3"	162.7	1.1	5.41