



Ephemeriden für Sternfreunde

von Karl-Heinz Bücke

Jupiter

Januar 2014 (0^h UT)

Tag	α	δ	Δ	φ	m_V	$\varnothing_{\bar{A}}$	\varnothing_P	D_S	D_E	q	l	b	r
1	7:08	22.6	4.21	1.0	-2.2	46.7"	43.6"	1.7	1.6	0.0"	104.8	0.1	5.19
5	7:06	22.7	4.21	0.2	-2.2	46.8"	43.7"	1.7	1.6	0.0"	105.1	0.1	5.19
9	7:04	22.7	4.21	0.7	-2.2	46.7"	43.6"	1.6	1.6	0.0"	105.5	0.1	5.20
13	7:01	22.8	4.22	1.6	-2.2	46.6"	43.5"	1.6	1.6	0.0"	105.8	0.1	5.20
17	6:59	22.9	4.23	2.4	-2.2	46.5"	43.4"	1.6	1.6	0.0"	106.1	0.1	5.20
21	6:57	22.9	4.25	3.3	-2.2	46.3"	43.2"	1.6	1.6	0.0"	106.5	0.1	5.20
25	6:55	23.0	4.28	4.1	-2.2	46.1"	43.0"	1.6	1.6	0.1"	106.8	0.1	5.20
29	6:53	23.0	4.30	4.8	-2.2	45.8"	42.7"	1.6	1.7	0.1"	107.1	0.2	5.20

Februar 2014 (0^h UT)

Tag	α	δ	Δ	φ	m_V	$\varnothing_{\bar{A}}$	\varnothing_P	D_S	D_E	q	l	b	r
1	6:52	23.1	4.33	5.4	-2.2	45.5"	42.5"	1.6	1.7	0.1"	107.4	0.2	5.20
5	6:50	23.1	4.36	6.1	-2.1	45.2"	42.2"	1.5	1.7	0.1"	107.7	0.2	5.21
9	6:48	23.1	4.40	6.8	-2.1	44.8"	41.8"	1.5	1.7	0.2"	108.0	0.2	5.21
13	6:47	23.2	4.44	7.4	-2.1	44.3"	41.3"	1.5	1.7	0.2"	108.4	0.2	5.21
17	6:46	23.2	4.49	8.0	-2.1	43.9"	41.0"	1.5	1.7	0.2"	108.7	0.2	5.21
21	6:45	23.2	4.54	8.6	-2.1	43.4"	40.5"	1.5	1.7	0.2"	109.0	0.2	5.21
25	6:45	23.2	4.59	9.0	-2.0	42.9"	40.0"	1.5	1.7	0.3"	109.4	0.2	5.21

März 2014 (0^h UT)

Tag	α	δ	Δ	φ	m_V	$\varnothing_{\bar{A}}$	\varnothing_P	D_S	D_E	q	l	b	r
1	6:44	23.2	4.65	9.5	-2.0	42.4"	39.6"	1.4	1.7	0.3"	109.7	0.2	5.21
5	6:44	23.3	4.70	9.8	-2.0	41.9"	39.1"	1.4	1.7	0.3"	110.0	0.2	5.22
9	6:44	23.3	4.76	10.2	-2.0	41.4"	38.6"	1.4	1.7	0.3"	110.4	0.2	5.22
13	6:44	23.3	4.82	10.4	-1.9	40.8"	38.1"	1.4	1.6	0.3"	110.7	0.2	5.22
17	6:45	23.3	4.89	10.6	-1.9	40.3"	37.6"	1.4	1.6	0.3"	111.0	0.2	5.22
21	6:45	23.3	4.95	10.8	-1.9	39.8"	37.1"	1.4	1.6	0.4"	111.4	0.2	5.22
25	6:46	23.3	5.01	10.9	-1.8	39.3"	36.7"	1.3	1.6	0.4"	111.7	0.3	5.22
29	6:47	23.2	5.08	11.0	-1.8	38.8"	36.2"	1.3	1.6	0.4"	112.0	0.3	5.22

April 2014 (0^h UT)

Tag	α	δ	Δ	φ	m_V	$\varnothing_{\bar{A}}$	\varnothing_P	D_S	D_E	q	l	b	r
1	6:48	23.2	5.12	11.0	-1.8	38.4"	35.8"	1.3	1.6	0.4"	112.3	0.3	5.23
5	6:50	23.2	5.19	11.0	-1.8	38.0"	35.5"	1.3	1.6	0.3"	112.6	0.3	5.23
9	6:52	23.2	5.25	11.0	-1.7	37.5"	35.0"	1.3	1.6	0.3"	112.9	0.3	5.23
13	6:53	23.1	5.32	10.9	-1.7	37.0"	34.5"	1.3	1.6	0.3"	113.2	0.3	5.23
17	6:55	23.1	5.38	10.7	-1.7	36.6"	34.2"	1.3	1.6	0.3"	113.6	0.3	5.23
21	6:58	23.1	5.44	10.6	-1.7	36.2"	33.8"	1.2	1.5	0.3"	113.9	0.3	5.23
25	7:00	23.0	5.50	10.4	-1.6	35.8"	33.4"	1.2	1.5	0.3"	114.2	0.3	5.23
29	7:02	23.0	5.56	10.1	-1.6	35.4"	33.0"	1.2	1.5	0.3"	114.6	0.3	5.24

Mai 2014 (0^h UT)

Tag	α	δ	Δ	φ	m_V	$\varnothing_{\bar{A}}$	\varnothing_P	D_S	D_E	q	l	b	r
1	7:04	22.9	5.59	10.0	-1.6	35.2"	32.9"	1.2	1.5	0.3"	114.7	0.3	5.24
5	7:06	22.9	5.65	9.7	-1.6	34.9"	32.6"	1.2	1.5	0.2"	115.0	0.3	5.24
9	7:09	22.8	5.71	9.4	-1.6	34.5"	32.2"	1.2	1.5	0.2"	115.4	0.3	5.24
13	7:12	22.7	5.76	9.0	-1.5	34.2"	31.9"	1.1	1.4	0.2"	115.7	0.3	5.24
17	7:15	22.7	5.81	8.7	-1.5	33.9"	31.6"	1.1	1.4	0.2"	116.0	0.3	5.24
21	7:18	22.6	5.86	8.3	-1.5	33.6"	31.4"	1.1	1.4	0.2"	116.4	0.4	5.24
25	7:21	22.5	5.91	7.9	-1.5	33.3"	31.1"	1.1	1.4	0.2"	116.7	0.4	5.24
29	7:24	22.4	5.95	7.5	-1.5	33.1"	30.9"	1.1	1.3	0.1"	117.0	0.4	5.25

Juni 2014 (0^h UT)

Tag	α	δ	Δ	φ	m_V	$\varnothing_{\bar{A}}$	\varnothing_P	D_S	D_E	q	l	b	r
1	7:27	22.3	5.98	7.1	-1.4	32.9"	30.7"	1.1	1.3	0.1"	117.3	0.4	5.25
5	7:30	22.2	6.03	6.7	-1.4	32.7"	30.5"	1.0	1.3	0.1"	117.6	0.4	5.25
9	7:34	22.1	6.06	6.2	-1.4	32.5"	30.3"	1.0	1.3	0.1"	117.9	0.4	5.25
13	7:37	21.9	6.10	5.7	-1.4	32.3"	30.1"	1.0	1.2	0.1"	118.2	0.4	5.25
17	7:41	21.8	6.13	5.2	-1.4	32.1"	30.0"	1.0	1.2	0.1"	118.6	0.4	5.25
21	7:44	21.7	6.16	4.7	-1.4	32.0"	29.9"	1.0	1.2	0.1"	118.9	0.4	5.25
25	7:48	21.5	6.19	4.1	-1.4	31.8"	29.7"	1.0	1.2	0.0"	119.2	0.4	5.26
29	7:52	21.4	6.21	3.6	-1.4	31.7"	29.6"	0.9	1.1	0.0"	119.5	0.4	5.26

Juli 2014 (0^h UT)

Tag	α	δ	Δ	φ	m_V	$\varnothing_{\bar{A}}$	\varnothing_P	D_S	D_E	q	l	b	r
1	7:53	21.3	6.22	3.3	-1.4	31.7"	29.6"	0.9	1.1	0.0"	119.7	0.4	5.26
5	7:57	21.1	6.24	2.8	-1.4	31.6"	29.5"	0.9	1.1	0.0"	120.0	0.4	5.26
9	8:01	21.0	6.25	2.2	-1.3	31.5"	29.4"	0.9	1.0	0.0"	120.3	0.4	5.26
13	8:04	20.8	6.26	1.7	-1.3	31.4"	29.3"	0.9	1.0	0.0"	120.7	0.4	5.26
17	8:08	20.6	6.27	1.1	-1.3	31.4"	29.3"	0.9	1.0	0.0"	121.0	0.5	5.26
21	8:12	20.4	6.28	0.5	-1.3	31.4"	29.3"	0.9	0.9	0.0"	121.3	0.5	5.26
25	8:16	20.2	6.28	0.0	-1.3	31.4"	29.3"	0.8	0.9	0.0"	121.6	0.5	5.27
29	8:19	20.0	6.28	0.6	-1.3	31.4"	29.3"	0.8	0.9	0.0"	122.0	0.5	5.27

August 2014 (0^h UT)

Tag	α	δ	Δ	φ	m_V	$\varnothing_{\bar{A}}$	\varnothing_P	D_S	D_E	q	l	b	r
1	8:22	19.9	6.28	1.0	-1.3	31.4"	29.3"	0.8	0.9	0.0"	122.2	0.5	5.27
5	8:26	19.7	6.27	1.6	-1.3	31.4"	29.3"	0.8	0.8	0.0"	122.5	0.5	5.27
9	8:29	19.5	6.26	2.1	-1.3	31.4"	29.3"	0.8	0.8	0.0"	122.9	0.5	5.27
13	8:33	19.3	6.25	2.7	-1.3	31.5"	29.4"	0.8	0.7	0.0"	123.2	0.5	5.27
17	8:37	19.1	6.23	3.2	-1.3	31.6"	29.5"	0.7	0.7	0.0"	123.5	0.5	5.27
21	8:40	18.9	6.21	3.8	-1.4	31.7"	29.6"	0.7	0.7	0.0"	123.8	0.5	5.28
25	8:44	18.6	6.19	4.3	-1.4	31.8"	29.7"	0.7	0.6	0.0"	124.1	0.5	5.28
29	8:47	18.4	6.17	4.8	-1.4	31.9"	29.8"	0.7	0.6	-0.1"	124.5	0.5	5.28

September 2014 (0^h UT)

Tag	α	δ	Δ	φ	m_V	$\varnothing_{\bar{A}}$	\varnothing_P	D_S	D_E	q	l	b	r
1	8:50	18.3	6.15	5.2	-1.4	32.0"	29.9"	0.7	0.6	-0.1"	124.7	0.5	5.28
5	8:53	18.1	6.11	5.7	-1.4	32.2"	30.1"	0.7	0.5	-0.1"	125.0	0.5	5.28
9	8:56	17.8	6.08	6.2	-1.4	32.4"	30.2"	0.6	0.5	-0.1"	125.4	0.5	5.28
13	8:59	17.6	6.04	6.7	-1.4	32.6"	30.4"	0.6	0.5	-0.1"	125.7	0.6	5.28
17	9:03	17.4	6.01	7.1	-1.4	32.8"	30.6"	0.6	0.4	-0.1"	126.0	0.6	5.29
21	9:06	17.2	5.96	7.6	-1.4	33.0"	30.8"	0.6	0.4	-0.1"	126.3	0.6	5.29
25	9:09	17.0	5.92	8.0	-1.5	33.3"	31.1"	0.6	0.4	-0.2"	126.6	0.6	5.29
29	9:11	16.8	5.87	8.4	-1.5	33.5"	31.3"	0.6	0.3	-0.2"	127.0	0.6	5.29

Oktober 2014 (0^h UT)

Tag	α	δ	Δ	φ	m_V	$\varnothing_{\bar{A}}$	\varnothing_P	D_S	D_e	q	l	b	r
1	9:13	16.7	5.85	8.6	-1.5	33.7"	31.5"	0.5	0.3	-0.2"	127.1	0.6	5.29
5	9:16	16.5	5.80	8.9	-1.5	34.0"	31.7"	0.5	0.3	-0.2"	127.4	0.6	5.29
9	9:18	16.3	5.75	9.3	-1.5	34.3"	32.0"	0.5	0.3	-0.2"	127.8	0.6	5.29
13	9:21	16.1	5.69	9.6	-1.5	34.6"	32.3"	0.5	0.2	-0.2"	128.1	0.6	5.29
17	9:23	15.9	5.64	9.8	-1.6	34.9"	32.6"	0.5	0.2	-0.3"	128.4	0.6	5.30
21	9:25	15.8	5.58	10.1	-1.6	35.3"	32.9"	0.5	0.2	-0.3"	128.7	0.6	5.30
25	9:27	15.6	5.52	10.3	-1.6	35.7"	33.3"	0.4	0.1	-0.3"	129.0	0.6	5.30
29	9:29	15.5	5.46	10.5	-1.6	36.1"	33.7"	0.4	0.1	-0.3"	129.4	0.6	5.30

November 2014 (0^h UT)

Tag	α	δ	Δ	φ	m_V	$\varnothing_{\bar{A}}$	\varnothing_P	D_S	D_e	q	l	b	r
1	9:31	15.4	5.41	10.6	-1.6	36.4"	34.0"	0.4	0.1	-0.3"	129.6	0.6	5.30
5	9:32	15.2	5.35	10.7	-1.7	36.8"	34.3"	0.4	0.0	-0.3"	129.9	0.6	5.30
9	9:34	15.1	5.29	10.7	-1.7	37.2"	34.7"	0.4	0.0	-0.3"	130.2	0.6	5.30
13	9:35	15.0	5.23	10.7	-1.7	37.7"	35.2"	0.4	0.0	-0.3"	130.6	0.7	5.30
17	9:36	14.9	5.17	10.7	-1.7	38.1"	35.6"	0.3	0.0	-0.3"	130.9	0.7	5.31
21	9:37	14.8	5.10	10.7	-1.8	38.6"	36.0"	0.3	-0.1	-0.3"	131.2	0.7	5.31
25	9:38	14.8	5.04	10.5	-1.8	39.1"	36.5"	0.3	-0.1	-0.3"	131.5	0.7	5.31
29	9:39	14.7	4.98	10.4	-1.8	39.5"	36.9"	0.3	-0.1	-0.3"	131.8	0.7	5.31

Dezember 2014 (0^h UT)

Tag	α	δ	Δ	φ	m_V	$\varnothing_{\bar{A}}$	\varnothing_P	D_S	D_e	q	l	b	r
1	9:39	14.7	4.95	10.3	-1.8	39.8"	37.1"	0.3	-0.1	-0.3"	132.0	0.7	5.31
5	9:39	14.7	4.89	10.0	-1.9	40.3"	37.6"	0.3	-0.1	-0.3"	132.3	0.7	5.31
9	9:39	14.7	4.83	9.7	-1.9	40.8"	38.1"	0.2	-0.2	-0.3"	132.6	0.7	5.31
13	9:39	14.7	4.78	9.4	-1.9	41.2"	38.5"	0.2	-0.2	-0.3"	133.0	0.7	5.31
17	9:39	14.8	4.72	9.0	-1.9	41.7"	38.9"	0.2	-0.2	-0.3"	133.3	0.7	5.32
21	9:38	14.8	4.67	8.5	-2.0	42.2"	39.4"	0.2	-0.2	-0.2"	133.6	0.7	5.32
25	9:38	14.9	4.62	8.0	-2.0	42.6"	39.8"	0.2	-0.2	-0.2"	133.9	0.7	5.32
29	9:37	15.0	4.58	7.5	-2.0	43.0"	40.1"	0.2	-0.2	-0.2"	134.2	0.7	5.32