



Ephemeriden für Sternfreunde

von Karl-Heinz Bücke

Jupiter

Januar 2023 (0^h UT)

Tag	α	δ	Δ	φ	m_V	$\varnothing_{\bar{A}}$	$\varnothing_P$	D_S	D_E	q	l	b	r
1	0:05	-0.9	5.01	11.3	-2.0	39.3"	36.7"	2.6	2.2	0.4"	12.1	-1.3	4.95
5	0:06	-0.7	5.07	11.2	-1.9	38.8"	36.2"	2.6	2.2	0.4"	12.5	-1.3	4.95
9	0:08	-0.4	5.13	11.0	-1.9	38.4"	35.8"	2.6	2.2	0.4"	12.9	-1.3	4.95
13	0:11	-0.2	5.20	10.8	-1.9	37.9"	35.4"	2.6	2.2	0.3"	13.2	-1.3	4.95
17	0:13	0.0	5.25	10.5	-1.9	37.5"	35.0"	2.6	2.2	0.3"	13.6	-1.3	4.95
21	0:15	0.3	5.31	10.2	-1.8	37.1"	34.6"	2.6	2.2	0.3"	14.0	-1.3	4.95
25	0:18	0.6	5.37	9.9	-1.8	36.7"	34.3"	2.6	2.2	0.3"	14.3	-1.3	4.95
29	0:20	0.8	5.42	9.6	-1.8	36.3"	33.9"	2.6	2.2	0.3"	14.7	-1.3	4.95

Februar 2023 (0^h UT)

Tag	α	δ	Δ	φ	m_V	$\varnothing_{\bar{A}}$	$\varnothing_P$	D_S	D_E	q	l	b	r
1	0:22	1.1	5.46	9.3	-1.8	36.1"	33.7"	2.6	2.2	0.2"	15.0	-1.3	4.95
5	0:25	1.4	5.51	8.9	-1.7	35.7"	33.3"	2.6	2.2	0.2"	15.3	-1.3	4.95
9	0:28	1.7	5.56	8.5	-1.7	35.4"	33.0"	2.7	2.3	0.2"	15.7	-1.3	4.95
13	0:31	2.0	5.61	8.0	-1.7	35.1"	32.8"	2.7	2.3	0.2"	16.1	-1.3	4.95
17	0:34	2.3	5.65	7.5	-1.7	34.8"	32.5"	2.7	2.3	0.2"	16.4	-1.3	4.95
21	0:37	2.7	5.69	7.1	-1.7	34.6"	32.3"	2.7	2.3	0.1"	16.8	-1.3	4.95
25	0:41	3.0	5.73	6.6	-1.7	34.4"	32.1"	2.7	2.3	0.1"	17.2	-1.3	4.95

März 2023 (0^h UT)

Tag	α	δ	Δ	φ	m_V	$\varnothing_{\bar{A}}$	$\varnothing_P$	D_S	D_E	q	l	b	r
1	0:44	3.4	5.77	6.0	-1.7	34.2"	31.9"	2.7	2.3	0.1"	17.5	-1.3	4.95
5	0:47	3.7	5.80	5.5	-1.6	34.0"	31.7"	2.7	2.4	0.1"	17.9	-1.3	4.95
9	0:51	4.1	5.83	5.0	-1.6	33.8"	31.5"	2.7	2.4	0.1"	18.3	-1.3	4.95
13	0:54	4.4	5.85	4.4	-1.6	33.6"	31.4"	2.7	2.4	0.0"	18.6	-1.3	4.95
17	0:57	4.8	5.88	3.8	-1.6	33.5"	31.3"	2.7	2.4	0.0"	19.0	-1.3	4.95
21	1:01	5.2	5.90	3.2	-1.6	33.4"	31.2"	2.8	2.5	0.0"	19.4	-1.3	4.95
25	1:04	5.5	5.92	2.7	-1.6	33.3"	31.1"	2.8	2.5	0.0"	19.7	-1.3	4.95
29	1:08	5.9	5.93	2.1	-1.6	33.2"	31.0"	2.8	2.5	0.0"	20.1	-1.3	4.95

April 2023 (0^h UT)

Tag	α	δ	Δ	φ	m_V	$\varnothing_{\bar{A}}$	$\varnothing_P$	D_S	D_E	q	l	b	r
1	1:11	6.2	5.94	1.6	-1.6	33.2"	31.0"	2.8	2.5	0.0"	20.4	-1.3	4.95
5	1:14	6.5	5.95	1.0	-1.6	33.1"	30.9"	2.8	2.5	0.0"	20.7	-1.3	4.95
9	1:18	6.9	5.95	0.4	-1.6	33.1"	30.9"	2.8	2.6	0.0"	21.1	-1.3	4.95
13	1:21	7.3	5.95	0.2	-1.6	33.1"	30.9"	2.8	2.6	0.0"	21.5	-1.3	4.95
17	1:25	7.6	5.95	0.8	-1.6	33.1"	30.9"	2.8	2.6	0.0"	21.8	-1.3	4.95
21	1:29	8.0	5.95	1.4	-1.6	33.1"	30.9"	2.8	2.7	0.0"	22.2	-1.3	4.95
25	1:32	8.3	5.94	2.0	-1.6	33.1"	30.9"	2.8	2.7	0.0"	22.6	-1.3	4.95
29	1:36	8.7	5.93	2.5	-1.6	33.2"	31.0"	2.8	2.7	0.0"	22.9	-1.3	4.95

Mai 2023 (0^h UT)

Tag	α	δ	Δ	φ	m_V	$\varnothing_{\tilde{A}}$	$\varnothing_P$	D_s	D_e	q	l	b	r
1	1:38	8.8	5.92	2.8	-1.6	33.2"	31.0"	2.8	2.7	0.0"	23.1	-1.3	4.95
5	1:41	9.2	5.91	3.4	-1.6	33.3"	31.1"	2.9	2.7	0.0"	23.5	-1.3	4.95
9	1:45	9.5	5.89	4.0	-1.6	33.4"	31.2"	2.9	2.8	0.0"	23.9	-1.3	4.95
13	1:48	9.9	5.87	4.5	-1.6	33.6"	31.4"	2.9	2.8	-0.1"	24.2	-1.3	4.95
17	1:52	10.2	5.84	5.1	-1.6	33.7"	31.5"	2.9	2.8	-0.1"	24.6	-1.3	4.95
21	1:55	10.5	5.82	5.6	-1.6	33.9"	31.6"	2.9	2.9	-0.1"	25.0	-1.3	4.95
25	1:59	10.8	5.79	6.2	-1.6	34.0"	31.7"	2.9	2.9	-0.1"	25.3	-1.3	4.95
29	2:02	11.1	5.75	6.7	-1.7	34.2"	31.9"	2.9	2.9	-0.1"	25.7	-1.3	4.95

Juni 2023 (0^h UT)

Tag	α	δ	Δ	φ	m_V	$\varnothing_{\tilde{A}}$	$\varnothing_P$	D_s	D_e	q	l	b	r
1	2:04	11.3	5.73	7.1	-1.7	34.4"	32.1"	2.9	2.9	-0.1"	26.0	-1.3	4.96
5	2:08	11.6	5.69	7.5	-1.7	34.6"	32.3"	2.9	2.9	-0.1"	26.3	-1.3	4.96
9	2:11	11.9	5.65	8.0	-1.7	34.9"	32.6"	2.9	3.0	-0.2"	26.7	-1.2	4.96
13	2:14	12.2	5.61	8.5	-1.7	35.1"	32.8"	2.9	3.0	-0.2"	27.1	-1.2	4.96
17	2:17	12.4	5.56	8.9	-1.7	35.4"	33.0"	2.9	3.0	-0.2"	27.4	-1.2	4.96
21	2:20	12.7	5.52	9.3	-1.7	35.7"	33.3"	2.9	3.0	-0.2"	27.8	-1.2	4.96
25	2:23	12.9	5.47	9.7	-1.8	36.0"	33.6"	2.9	3.1	-0.3"	28.2	-1.2	4.96
29	2:26	13.2	5.42	10.0	-1.8	36.3"	33.9"	3.0	3.1	-0.3"	28.5	-1.2	4.96

Juli 2023 (0^h UT)

Tag	α	δ	Δ	φ	m_V	$\varnothing_{\tilde{A}}$	$\varnothing_P$	D_s	D_e	q	l	b	r
1	2:27	13.3	5.39	10.2	-1.8	36.5"	34.1"	3.0	3.1	-0.3"	28.7	-1.2	4.96
5	2:30	13.5	5.34	10.5	-1.8	36.9"	34.4"	3.0	3.1	-0.3"	29.1	-1.2	4.96
9	2:32	13.7	5.28	10.8	-1.8	37.3"	34.8"	3.0	3.2	-0.3"	29.4	-1.2	4.96
13	2:35	13.9	5.23	11.0	-1.9	37.7"	35.2"	3.0	3.2	-0.3"	29.8	-1.2	4.96
17	2:37	14.1	5.17	11.3	-1.9	38.1"	35.6"	3.0	3.2	-0.4"	30.2	-1.2	4.96
21	2:39	14.3	5.11	11.4	-1.9	38.5"	35.9"	3.0	3.2	-0.4"	30.5	-1.2	4.96
25	2:41	14.4	5.05	11.6	-1.9	39.0"	36.4"	3.0	3.2	-0.4"	30.9	-1.2	4.96
29	2:43	14.6	4.99	11.7	-2.0	39.4"	36.8"	3.0	3.3	-0.4"	31.3	-1.2	4.96

August 2023 (0^h UT)

Tag	α	δ	Δ	φ	m_V	$\varnothing_{\tilde{A}}$	$\varnothing_P$	D_s	D_e	q	l	b	r
1	2:44	14.7	4.95	11.8	-2.0	39.8"	37.1"	3.0	3.3	-0.4"	31.5	-1.2	4.96
5	2:46	14.8	4.89	11.8	-2.0	40.3"	37.6"	3.0	3.3	-0.4"	31.9	-1.2	4.96
9	2:47	14.9	4.83	11.8	-2.0	40.8"	38.1"	3.0	3.3	-0.4"	32.3	-1.2	4.96
13	2:49	15.0	4.76	11.7	-2.1	41.3"	38.5"	3.0	3.3	-0.4"	32.6	-1.2	4.96
17	2:50	15.1	4.70	11.6	-2.1	41.9"	39.1"	3.0	3.3	-0.4"	33.0	-1.2	4.96
21	2:50	15.1	4.64	11.5	-2.1	42.4"	39.6"	3.0	3.4	-0.4"	33.4	-1.2	4.96
25	2:51	15.2	4.59	11.3	-2.1	42.9"	40.0"	3.0	3.4	-0.4"	33.7	-1.2	4.96
29	2:52	15.2	4.53	11.0	-2.2	43.5"	40.6"	3.0	3.4	-0.4"	34.1	-1.2	4.96

September 2023 (0^h UT)

Tag	α	δ	Δ	φ	m_V	$\varnothing_{\tilde{A}}$	$\varnothing_P$	D_s	D_e	q	l	b	r
1	2:52	15.2	4.49	10.8	-2.2	43.9"	41.0"	3.0	3.4	-0.4"	34.4	-1.2	4.96
5	2:52	15.3	4.43	10.5	-2.2	44.5"	41.5"	3.0	3.4	-0.4"	34.7	-1.2	4.96
9	2:52	15.2	4.38	10.1	-2.2	45.0"	42.0"	3.1	3.4	-0.3"	35.1	-1.2	4.97
13	2:51	15.2	4.33	9.6	-2.3	45.5"	42.5"	3.1	3.4	-0.3"	35.5	-1.2	4.97
17	2:51	15.2	4.28	9.1	-2.3	46.0"	42.9"	3.1	3.4	-0.3"	35.8	-1.2	4.97
21	2:50	15.1	4.23	8.5	-2.3	46.5"	43.4"	3.1	3.4	-0.3"	36.2	-1.2	4.97
25	2:49	15.1	4.19	7.9	-2.3	47.0"	43.9"	3.1	3.4	-0.2"	36.5	-1.2	4.97
29	2:48	15.0	4.15	7.3	-2.4	47.5"	44.3"	3.1	3.4	-0.2"	36.9	-1.2	4.97

Oktober 2023 (0^h UT)

Tag	α	δ	Δ	φ	m_V	$\varnothing_{\lambda}$	$\varnothing_P$	D_s	D_e	q	l	b	r
1	2:47	14.9	4.13	6.9	-2.4	47.7"	44.5"	3.1	3.4	-0.2"	37.1	-1.2	4.97
5	2:46	14.8	4.10	6.2	-2.4	48.1"	44.9"	3.1	3.4	-0.1"	37.5	-1.2	4.97
9	2:44	14.7	4.07	5.4	-2.4	48.4"	45.2"	3.1	3.4	-0.1"	37.8	-1.2	4.97
13	2:42	14.6	4.04	4.6	-2.4	48.7"	45.5"	3.1	3.4	-0.1"	38.2	-1.2	4.97
17	2:41	14.5	4.02	3.8	-2.4	49.0"	45.7"	3.1	3.4	-0.1"	38.6	-1.1	4.97
21	2:39	14.3	4.00	2.9	-2.4	49.2"	45.9"	3.1	3.4	0.0"	38.9	-1.1	4.97
25	2:37	14.1	3.99	2.1	-2.4	49.4"	46.1"	3.1	3.4	0.0"	39.3	-1.1	4.97
29	2:35	14.0	3.98	1.2	-2.4	49.4"	46.1"	3.1	3.4	0.0"	39.6	-1.1	4.97

November 2023 (0^h UT)

Tag	α	δ	Δ	φ	m_V	$\varnothing_{\lambda}$	$\varnothing_P$	D_s	D_e	q	l	b	r
1	2:33	13.9	3.98	0.5	-2.4	49.5"	46.2"	3.1	3.4	0.0"	39.9	-1.1	4.97
5	2:31	13.7	3.98	0.4	-2.4	49.5"	46.2"	3.1	3.4	0.0"	40.3	-1.1	4.97
9	2:29	13.5	3.99	1.3	-2.4	49.4"	46.1"	3.1	3.4	0.0"	40.6	-1.1	4.97
13	2:27	13.4	4.00	2.2	-2.4	49.2"	45.9"	3.1	3.3	0.0"	41.0	-1.1	4.97
17	2:25	13.2	4.02	3.1	-2.4	49.0"	45.7"	3.1	3.3	0.0"	41.4	-1.1	4.98
21	2:23	13.1	4.04	3.9	-2.4	48.8"	45.5"	3.1	3.3	0.1"	41.7	-1.1	4.98
25	2:21	12.9	4.06	4.8	-2.4	48.5"	45.3"	3.1	3.3	0.1"	42.1	-1.1	4.98
29	2:19	12.8	4.09	5.6	-2.4	48.1"	44.9"	3.1	3.3	0.1"	42.5	-1.1	4.98

Dezember 2023 (0^h UT)

Tag	α	δ	Δ	φ	m_V	$\varnothing_{\lambda}$	$\varnothing_P$	D_s	D_e	q	l	b	r
1	2:18	12.7	4.11	5.9	-2.4	47.9"	44.7"	3.1	3.2	0.1"	42.6	-1.1	4.98
5	2:17	12.6	4.15	6.7	-2.4	47.5"	44.3"	3.1	3.2	0.2"	43.0	-1.1	4.98
9	2:16	12.5	4.19	7.3	-2.3	47.0"	43.9"	3.1	3.2	0.2"	43.4	-1.1	4.98
13	2:15	12.4	4.23	8.0	-2.3	46.5"	43.4"	3.1	3.2	0.2"	43.7	-1.1	4.98
17	2:14	12.3	4.28	8.6	-2.3	46.0"	42.9"	3.1	3.2	0.3"	44.1	-1.1	4.98
21	2:13	12.3	4.33	9.1	-2.3	45.5"	42.5"	3.1	3.1	0.3"	44.4	-1.1	4.98
25	2:13	12.3	4.38	9.6	-2.2	44.9"	41.9"	3.1	3.1	0.3"	44.8	-1.1	4.98
29	2:13	12.2	4.44	10.0	-2.2	44.4"	41.4"	3.1	3.1	0.3"	45.2	-1.1	4.98