



Ephemeriden für Sternfreunde

von Karl-Heinz Bücke

Jupiter

Januar 2022 (0^h UT)

Tag	α	δ	Δ	φ	m_V	\varnothing_{Δ}	\varnothing_P	D_S	D_E	q	l	b	r
1	22:10	-12.4	5.57	8.7	-1.7	35.4"	33.0"	1.2	0.7	0.2"	338.9	-1.1	4.99
5	22:13	-12.2	5.61	8.2	-1.7	35.1"	32.8"	1.2	0.7	0.2"	339.3	-1.1	4.99
9	22:16	-11.9	5.66	7.8	-1.7	34.8"	32.5"	1.2	0.8	0.2"	339.6	-1.1	4.99
13	22:20	-11.6	5.70	7.3	-1.7	34.5"	32.2"	1.2	0.8	0.1"	340.0	-1.1	4.99
17	22:23	-11.3	5.74	6.8	-1.6	34.3"	32.0"	1.2	0.8	0.1"	340.3	-1.1	4.99
21	22:26	-10.9	5.78	6.3	-1.6	34.1"	31.8"	1.2	0.8	0.1"	340.7	-1.1	4.99
25	22:30	-10.6	5.81	5.8	-1.6	33.9"	31.6"	1.3	0.9	0.1"	341.1	-1.1	4.99
29	22:33	-10.3	5.84	5.2	-1.6	33.7"	31.5"	1.3	0.9	0.1"	341.4	-1.1	4.99

Februar 2022 (0^h UT)

Tag	α	δ	Δ	φ	m_V	\varnothing_{Δ}	\varnothing_P	D_S	D_E	q	l	b	r
1	22:36	-10.0	5.86	4.8	-1.6	33.6"	31.4"	1.3	0.9	0.1"	341.7	-1.1	4.99
5	22:39	-9.7	5.89	4.2	-1.6	33.5"	31.3"	1.3	1.0	0.0"	342.1	-1.1	4.99
9	22:43	-9.4	5.91	3.7	-1.6	33.3"	31.1"	1.3	1.0	0.0"	342.4	-1.1	4.99
13	22:46	-9.0	5.93	3.1	-1.6	33.2"	31.0"	1.3	1.0	0.0"	342.8	-1.2	4.98
17	22:50	-8.6	5.94	2.5	-1.6	33.1"	30.9"	1.4	1.1	0.0"	343.1	-1.2	4.98
21	22:53	-8.3	5.96	1.9	-1.6	33.1"	30.9"	1.4	1.1	0.0"	343.5	-1.2	4.98
25	22:57	-7.9	5.96	1.3	-1.6	33.0"	30.8"	1.4	1.2	0.0"	343.9	-1.2	4.98

März 2022 (0^h UT)

Tag	α	δ	Δ	φ	m_V	\varnothing_{Δ}	\varnothing_P	D_S	D_E	q	l	b	r
1	23:01	-7.6	5.97	0.7	-1.6	33.0"	30.8"	1.4	1.2	0.0"	344.2	-1.2	4.98
5	23:04	-7.2	5.97	0.1	-1.6	33.0"	30.8"	1.4	1.2	0.0"	344.6	-1.2	4.98
9	23:08	-6.8	5.97	0.5	-1.6	33.0"	30.8"	1.5	1.3	0.0"	344.9	-1.2	4.98
13	23:11	-6.4	5.97	1.1	-1.6	33.0"	30.8"	1.5	1.3	0.0"	345.3	-1.2	4.98
17	23:15	-6.1	5.96	1.7	-1.6	33.0"	30.8"	1.5	1.4	0.0"	345.7	-1.2	4.98
21	23:19	-5.7	5.95	2.3	-1.6	33.1"	30.9"	1.5	1.4	0.0"	346.0	-1.2	4.98
25	23:22	-5.3	5.94	2.9	-1.6	33.2"	31.0"	1.5	1.4	0.0"	346.4	-1.2	4.98
29	23:26	-5.0	5.92	3.5	-1.6	33.3"	31.1"	1.5	1.5	0.0"	346.8	-1.2	4.98

April 2022 (0^h UT)

Tag	α	δ	Δ	φ	m_V	\varnothing_{Δ}	\varnothing_P	D_S	D_E	q	l	b	r
1	23:28	-4.7	5.90	3.9	-1.6	33.4"	31.2"	1.6	1.5	0.0"	347.0	-1.2	4.98
5	23:32	-4.3	5.88	4.5	-1.6	33.5"	31.3"	1.6	1.6	-0.1"	347.4	-1.2	4.98
9	23:35	-4.0	5.86	5.1	-1.6	33.6"	31.4"	1.6	1.6	-0.1"	347.8	-1.2	4.97
13	23:38	-3.6	5.83	5.6	-1.6	33.8"	31.5"	1.6	1.6	-0.1"	348.1	-1.2	4.97
17	23:42	-3.2	5.80	6.1	-1.6	34.0"	31.7"	1.6	1.7	-0.1"	348.5	-1.2	4.97
21	23:45	-2.9	5.76	6.7	-1.6	34.2"	31.9"	1.6	1.7	-0.1"	348.8	-1.2	4.97
25	23:48	-2.6	5.72	7.2	-1.7	34.4"	32.1"	1.7	1.8	-0.1"	349.2	-1.2	4.97
29	23:51	-2.2	5.69	7.7	-1.7	34.6"	32.3"	1.7	1.8	-0.2"	349.6	-1.2	4.97

Jupiter

Mai 2022 (0^h UT)

Tag	α	δ	Δ	φ	m_V	$\varnothing_{\bar{\lambda}}$	\varnothing_P	D_S	D_E	q	l	b	r
1	23:53	-2.1	5.67	7.9	-1.7	34.8"	32.5"	1.7	1.8	-0.2"	349.8	-1.2	4.97
5	23:56	-1.7	5.62	8.3	-1.7	35.0"	32.7"	1.7	1.9	-0.2"	350.1	-1.2	4.97
9	23:59	-1.4	5.58	8.8	-1.7	35.3"	32.9"	1.7	1.9	-0.2"	350.5	-1.2	4.97
13	0:02	-1.1	5.53	9.2	-1.7	35.6"	33.2"	1.7	2.0	-0.2"	350.8	-1.2	4.97
17	0:04	-0.8	5.48	9.6	-1.8	35.9"	33.5"	1.7	2.0	-0.3"	351.2	-1.2	4.97
21	0:07	-0.5	5.43	10.0	-1.8	36.3"	33.9"	1.8	2.0	-0.3"	351.6	-1.2	4.97
25	0:10	-0.2	5.38	10.3	-1.8	36.6"	34.2"	1.8	2.1	-0.3"	351.9	-1.2	4.97
29	0:12	0.0	5.32	10.6	-1.8	37.0"	34.5"	1.8	2.1	-0.3"	352.3	-1.2	4.97

Juni 2022 (0^h UT)

Tag	α	δ	Δ	φ	m_V	$\varnothing_{\bar{\lambda}}$	\varnothing_P	D_S	D_E	q	l	b	r
1	0:14	0.2	5.28	10.8	-1.8	37.3"	34.8"	1.8	2.1	-0.3"	352.6	-1.2	4.97
5	0:16	0.5	5.22	11.1	-1.9	37.7"	35.2"	1.8	2.2	-0.4"	352.9	-1.2	4.97
9	0:18	0.7	5.16	11.3	-1.9	38.2"	35.7"	1.8	2.2	-0.4"	353.3	-1.2	4.97
13	0:20	0.9	5.10	11.5	-1.9	38.6"	36.0"	1.9	2.2	-0.4"	353.7	-1.2	4.97
17	0:22	1.1	5.04	11.6	-1.9	39.1"	36.5"	1.9	2.3	-0.4"	354.0	-1.2	4.96
21	0:24	1.3	4.98	11.7	-2.0	39.5"	36.9"	1.9	2.3	-0.4"	354.4	-1.2	4.96
25	0:26	1.5	4.92	11.8	-2.0	40.0"	37.3"	1.9	2.3	-0.4"	354.8	-1.3	4.96
29	0:27	1.6	4.86	11.8	-2.0	40.5"	37.8"	1.9	2.4	-0.4"	355.1	-1.3	4.96

Juli 2022 (0^h UT)

Tag	α	δ	Δ	φ	m_V	$\varnothing_{\bar{\lambda}}$	\varnothing_P	D_S	D_E	q	l	b	r
1	0:28	1.7	4.83	11.8	-2.0	40.8"	38.1"	1.9	2.4	-0.4"	355.3	-1.3	4.96
5	0:29	1.8	4.77	11.8	-2.1	41.3"	38.5"	1.9	2.4	-0.4"	355.7	-1.3	4.96
9	0:30	1.9	4.70	11.7	-2.1	41.9"	39.1"	2.0	2.5	-0.4"	356.0	-1.3	4.96
13	0:31	2.0	4.64	11.5	-2.1	42.4"	39.6"	2.0	2.5	-0.4"	356.4	-1.3	4.96
17	0:31	2.1	4.58	11.4	-2.1	43.0"	40.1"	2.0	2.5	-0.4"	356.8	-1.3	4.96
21	0:32	2.1	4.53	11.1	-2.2	43.5"	40.6"	2.0	2.5	-0.4"	357.1	-1.3	4.96
25	0:32	2.1	4.47	10.8	-2.2	44.1"	41.2"	2.0	2.6	-0.4"	357.5	-1.3	4.96
29	0:32	2.1	4.41	10.5	-2.2	44.6"	41.6"	2.0	2.6	-0.4"	357.9	-1.3	4.96

August 2022 (0^h UT)

Tag	α	δ	Δ	φ	m_V	$\varnothing_{\bar{\lambda}}$	\varnothing_P	D_S	D_E	q	l	b	r
1	0:32	2.1	4.37	10.2	-2.2	45.0"	42.0"	2.0	2.6	-0.4"	358.1	-1.3	4.96
5	0:32	2.1	4.32	9.8	-2.3	45.6"	42.6"	2.1	2.6	-0.3"	358.5	-1.3	4.96
9	0:31	2.1	4.27	9.3	-2.3	46.1"	43.0"	2.1	2.6	-0.3"	358.9	-1.3	4.96
13	0:31	2.0	4.22	8.7	-2.3	46.6"	43.5"	2.1	2.6	-0.3"	359.2	-1.3	4.96
17	0:30	1.9	4.18	8.2	-2.3	47.1"	44.0"	2.1	2.6	-0.2"	359.6	-1.3	4.96
21	0:29	1.8	4.14	7.5	-2.4	47.6"	44.4"	2.1	2.6	-0.2"	360.0	-1.3	4.96
25	0:28	1.7	4.10	6.8	-2.4	48.0"	44.8"	2.1	2.6	-0.2"	0.3	-1.3	4.96
29	0:26	1.5	4.07	6.1	-2.4	48.4"	45.2"	2.1	2.6	-0.1"	0.7	-1.3	4.96

September 2022 (0^h UT)

Tag	α	δ	Δ	φ	m_V	$\varnothing_{\bar{\lambda}}$	\varnothing_P	D_S	D_E	q	l	b	r
1	0:25	1.4	4.05	5.5	-2.4	48.7"	45.5"	2.2	2.6	-0.1"	1.0	-1.3	4.96
5	0:24	1.2	4.02	4.7	-2.4	49.0"	45.7"	2.2	2.6	-0.1"	1.3	-1.3	4.96
9	0:22	1.1	4.00	3.9	-2.4	49.3"	46.0"	2.2	2.6	-0.1"	1.7	-1.3	4.96
13	0:20	0.9	3.98	3.1	-2.5	49.5"	46.2"	2.2	2.6	0.0"	2.1	-1.3	4.96
17	0:19	0.7	3.96	2.2	-2.5	49.7"	46.4"	2.2	2.6	0.0"	2.4	-1.3	4.96
21	0:17	0.4	3.96	1.3	-2.5	49.8"	46.5"	2.2	2.6	0.0"	2.8	-1.3	4.96
25	0:15	0.2	3.95	0.4	-2.5	49.8"	46.5"	2.2	2.6	0.0"	3.2	-1.3	4.95
29	0:13	0.0	3.95	0.5	-2.5	49.8"	46.5"	2.3	2.6	0.0"	3.5	-1.3	4.95

Jupiter

Oktober 2022 (0^h UT)

Tag	α	δ	Δ	φ	m_V	\varnothing_{Δ}	\varnothing_P	D_S	D_E	q	l	b	r
1	0:12	-0.1	3.96	0.9	-2.5	49.8"	46.5"	2.3	2.6	0.0"	3.7	-1.3	4.95
5	0:10	-0.3	3.96	1.8	-2.5	49.7"	46.4"	2.3	2.5	0.0"	4.1	-1.3	4.95
9	0:08	-0.5	3.98	2.7	-2.5	49.5"	46.2"	2.3	2.5	0.0"	4.4	-1.3	4.95
13	0:06	-0.7	4.00	3.6	-2.4	49.3"	46.0"	2.3	2.5	0.0"	4.8	-1.3	4.95
17	0:04	-0.9	4.02	4.4	-2.4	49.0"	45.7"	2.3	2.5	0.1"	5.2	-1.3	4.95
21	0:03	-1.1	4.05	5.2	-2.4	48.7"	45.5"	2.3	2.4	0.1"	5.5	-1.3	4.95
25	0:01	-1.2	4.08	6.0	-2.4	48.3"	45.1"	2.3	2.4	0.1"	5.9	-1.3	4.95
29	0:00	-1.4	4.11	6.7	-2.4	47.9"	44.7"	2.4	2.4	0.2"	6.3	-1.3	4.95

November 2022 (0^h UT)

Tag	α	δ	Δ	φ	m_V	\varnothing_{Δ}	\varnothing_P	D_S	D_E	q	l	b	r
1	23:59	-1.5	4.14	7.2	-2.4	47.6"	44.4"	2.4	2.4	0.2"	6.5	-1.3	4.95
5	23:58	-1.6	4.18	7.9	-2.3	47.1"	44.0"	2.4	2.4	0.2"	6.9	-1.3	4.95
9	23:57	-1.7	4.23	8.5	-2.3	46.6"	43.5"	2.4	2.3	0.3"	7.3	-1.3	4.95
13	23:57	-1.7	4.28	9.0	-2.3	46.1"	43.0"	2.4	2.3	0.3"	7.6	-1.3	4.95
17	23:56	-1.8	4.33	9.5	-2.3	45.5"	42.5"	2.4	2.3	0.3"	8.0	-1.3	4.95
21	23:56	-1.8	4.38	9.9	-2.2	44.9"	41.9"	2.4	2.3	0.3"	8.4	-1.3	4.95
25	23:56	-1.8	4.44	10.3	-2.2	44.4"	41.4"	2.4	2.3	0.4"	8.7	-1.3	4.95
29	23:56	-1.8	4.50	10.6	-2.2	43.8"	40.9"	2.5	2.2	0.4"	9.1	-1.3	4.95

Dezember 2022 (0^h UT)

Tag	α	δ	Δ	φ	m_V	\varnothing_{Δ}	\varnothing_P	D_S	D_E	q	l	b	r
1	23:56	-1.8	4.53	10.8	-2.2	43.5"	40.6"	2.5	2.2	0.4"	9.3	-1.3	4.95
5	23:57	-1.7	4.59	11.0	-2.1	42.9"	40.0"	2.5	2.2	0.4"	9.7	-1.3	4.95
9	23:57	-1.7	4.65	11.2	-2.1	42.4"	39.6"	2.5	2.2	0.4"	10.0	-1.3	4.95
13	23:58	-1.6	4.71	11.3	-2.1	41.8"	39.0"	2.5	2.2	0.4"	10.4	-1.3	4.95
17	23:59	-1.5	4.77	11.4	-2.1	41.3"	38.5"	2.5	2.2	0.4"	10.8	-1.3	4.95
21	0:00	-1.3	4.84	11.5	-2.0	40.7"	38.0"	2.5	2.2	0.4"	11.1	-1.3	4.95
25	0:02	-1.2	4.90	11.4	-2.0	40.2"	37.5"	2.5	2.2	0.4"	11.5	-1.3	4.95
29	0:03	-1.0	4.96	11.4	-2.0	39.7"	37.1"	2.5	2.2	0.4"	11.9	-1.3	4.95