



Ephemeriden für Sternfreunde

von Karl-Heinz Bücke

Jupiter

Januar 2018 (0^h UT)

Tag	α	δ	Δ	φ	m_V	$\varnothing_{\bar{A}}$	\varnothing_P	D_S	D_E	q	l	b	r
1	14:58	-15.7	5.96	8.4	-1.4	33.1"	30.9"	-3.1	-3.1	-0.2"	218.3	1.1	5.43
5	15:00	-15.9	5.90	8.7	-1.4	33.4"	31.2"	-3.1	-3.2	-0.2"	218.6	1.1	5.43
9	15:03	-16.1	5.85	9.1	-1.4	33.7"	31.5"	-3.1	-3.2	-0.2"	218.9	1.1	5.43
13	15:05	-16.3	5.79	9.4	-1.4	34.0"	31.7"	-3.1	-3.2	-0.2"	219.2	1.1	5.43
17	15:08	-16.4	5.73	9.6	-1.5	34.4"	32.1"	-3.1	-3.2	-0.2"	219.5	1.1	5.43
21	15:10	-16.6	5.67	9.9	-1.5	34.7"	32.4"	-3.1	-3.2	-0.3"	219.8	1.1	5.43
25	15:12	-16.7	5.61	10.1	-1.5	35.1"	32.8"	-3.1	-3.2	-0.3"	220.1	1.1	5.43
29	15:14	-16.8	5.54	10.2	-1.5	35.5"	33.1"	-3.1	-3.3	-0.3"	220.4	1.1	5.43

Februar 2018 (0^h UT)

Tag	α	δ	Δ	φ	m_V	$\varnothing_{\bar{A}}$	\varnothing_P	D_S	D_E	q	l	b	r
1	15:15	-16.9	5.50	10.3	-1.6	35.8"	33.4"	-3.1	-3.3	-0.3"	220.7	1.1	5.43
5	15:17	-17.0	5.43	10.4	-1.6	36.3"	33.9"	-3.1	-3.3	-0.3"	221.0	1.1	5.43
9	15:18	-17.1	5.37	10.5	-1.6	36.7"	34.3"	-3.1	-3.3	-0.3"	221.3	1.1	5.42
13	15:19	-17.2	5.30	10.5	-1.6	37.2"	34.7"	-3.1	-3.3	-0.3"	221.6	1.1	5.42
17	15:20	-17.3	5.24	10.4	-1.7	37.6"	35.1"	-3.1	-3.3	-0.3"	221.9	1.1	5.42
21	15:21	-17.3	5.17	10.4	-1.7	38.1"	35.6"	-3.1	-3.3	-0.3"	222.2	1.1	5.42
25	15:22	-17.4	5.11	10.2	-1.7	38.6"	36.0"	-3.1	-3.3	-0.3"	222.5	1.1	5.42

März 2018 (0^h UT)

Tag	α	δ	Δ	φ	m_V	$\varnothing_{\bar{A}}$	\varnothing_P	D_S	D_E	q	l	b	r
1	15:22	-17.4	5.04	10.0	-1.7	39.0"	36.4"	-3.1	-3.4	-0.3"	222.8	1.1	5.42
5	15:23	-17.4	4.98	9.8	-1.8	39.5"	36.9"	-3.1	-3.4	-0.3"	223.1	1.1	5.42
9	15:23	-17.5	4.92	9.5	-1.8	40.0"	37.3"	-3.1	-3.4	-0.3"	223.4	1.1	5.42
13	15:23	-17.5	4.87	9.2	-1.8	40.5"	37.8"	-3.1	-3.4	-0.3"	223.7	1.1	5.42
17	15:23	-17.4	4.81	8.8	-1.9	40.9"	38.2"	-3.1	-3.4	-0.2"	224.0	1.1	5.42
21	15:22	-17.4	4.76	8.4	-1.9	41.4"	38.6"	-3.1	-3.4	-0.2"	224.3	1.1	5.42
25	15:21	-17.4	4.71	7.9	-1.9	41.9"	39.1"	-3.1	-3.4	-0.2"	224.6	1.1	5.42
29	15:20	-17.3	4.66	7.4	-1.9	42.3"	39.5"	-3.1	-3.4	-0.2"	224.9	1.1	5.42

April 2018 (0^h UT)

Tag	α	δ	Δ	φ	m_V	$\varnothing_{\bar{A}}$	\varnothing_P	D_S	D_E	q	l	b	r
1	15:20	-17.3	4.62	7.0	-1.9	42.6"	39.8"	-3.1	-3.4	-0.2"	225.2	1.1	5.42
5	15:18	-17.2	4.58	6.4	-2.0	43.0"	40.1"	-3.1	-3.4	-0.1"	225.5	1.1	5.42
9	15:17	-17.1	4.54	5.7	-2.0	43.3"	40.4"	-3.1	-3.4	-0.1"	225.8	1.1	5.41
13	15:16	-17.0	4.51	5.0	-2.0	43.7"	40.8"	-3.1	-3.4	-0.1"	226.1	1.1	5.41
17	15:14	-16.9	4.48	4.3	-2.0	43.9"	41.0"	-3.1	-3.4	-0.1"	226.4	1.1	5.41
21	15:12	-16.8	4.46	3.6	-2.0	44.2"	41.3"	-3.1	-3.4	0.0"	226.7	1.0	5.41
25	15:10	-16.7	4.44	2.8	-2.0	44.4"	41.4"	-3.1	-3.4	0.0"	227.0	1.0	5.41
29	15:08	-16.6	4.42	2.0	-2.0	44.6"	41.6"	-3.1	-3.4	0.0"	227.3	1.0	5.41

Mai 2018 (0^h UT)

Tag	α	δ	Δ	φ	m_V	$\varnothing_{\bar{A}}$	\varnothing_P	D_S	D_e	q	l	b	r
1	15:07	-16.5	4.41	1.6	-2.0	44.6"	41.6"	-3.1	-3.4	0.0"	227.5	1.0	5.41
5	15:05	-16.4	4.40	0.8	-2.0	44.7"	41.7"	-3.1	-3.4	0.0"	227.8	1.0	5.41
9	15:03	-16.2	4.40	0.0	-2.0	44.8"	41.8"	-3.1	-3.4	0.0"	228.1	1.0	5.41
13	15:01	-16.1	4.40	0.8	-2.0	44.8"	41.8"	-3.1	-3.3	0.0"	228.4	1.0	5.41
17	14:59	-16.0	4.41	1.6	-2.0	44.7"	41.7"	-3.1	-3.3	0.0"	228.7	1.0	5.41
21	14:57	-15.8	4.42	2.4	-2.0	44.6"	41.6"	-3.1	-3.3	0.0"	229.0	1.0	5.41
25	14:55	-15.7	4.43	3.2	-2.0	44.4"	41.4"	-3.1	-3.3	0.0"	229.3	1.0	5.41
29	14:53	-15.6	4.45	4.0	-2.0	44.3"	41.3"	-3.1	-3.3	0.1"	229.6	1.0	5.40

Juni 2018 (0^h UT)

Tag	α	δ	Δ	φ	m_V	$\varnothing_{\bar{A}}$	\varnothing_P	D_S	D_e	q	l	b	r
1	14:52	-15.5	4.47	4.5	-2.0	44.1"	41.2"	-3.1	-3.3	0.1"	229.9	1.0	5.40
5	14:51	-15.4	4.49	5.2	-2.0	43.8"	40.9"	-3.1	-3.3	0.1"	230.2	1.0	5.40
9	14:49	-15.2	4.53	5.9	-2.0	43.5"	40.6"	-3.1	-3.2	0.1"	230.5	1.0	5.40
13	14:48	-15.2	4.56	6.6	-2.0	43.2"	40.3"	-3.1	-3.2	0.1"	230.8	1.0	5.40
17	14:47	-15.1	4.60	7.2	-2.0	42.8"	39.9"	-3.1	-3.2	0.2"	231.1	1.0	5.40
21	14:46	-15.0	4.64	7.7	-1.9	42.4"	39.6"	-3.1	-3.2	0.2"	231.4	1.0	5.40
25	14:45	-14.9	4.69	8.3	-1.9	42.0"	39.2"	-3.1	-3.2	0.2"	231.7	1.0	5.40
29	14:44	-14.9	4.73	8.7	-1.9	41.6"	38.8"	-3.1	-3.2	0.2"	232.0	1.0	5.40

Juli 2018 (0^h UT)

Tag	α	δ	Δ	φ	m_V	$\varnothing_{\bar{A}}$	\varnothing_P	D_S	D_e	q	l	b	r
1	14:44	-14.9	4.76	8.9	-1.9	41.4"	38.6"	-3.1	-3.1	0.3"	232.2	1.0	5.40
5	14:43	-14.9	4.81	9.3	-1.9	40.9"	38.2"	-3.1	-3.1	0.3"	232.5	1.0	5.40
9	14:43	-14.8	4.86	9.7	-1.8	40.5"	37.8"	-3.1	-3.1	0.3"	232.8	1.0	5.40
13	14:43	-14.9	4.92	10.0	-1.8	40.0"	37.3"	-3.1	-3.1	0.3"	233.1	1.0	5.39
17	14:43	-14.9	4.98	10.3	-1.8	39.6"	37.0"	-3.1	-3.1	0.3"	233.4	1.0	5.39
21	14:44	-14.9	5.04	10.5	-1.8	39.1"	36.5"	-3.1	-3.1	0.3"	233.7	0.9	5.39
25	14:44	-15.0	5.09	10.6	-1.7	38.7"	36.1"	-3.1	-3.1	0.3"	234.0	0.9	5.39
29	14:45	-15.0	5.16	10.7	-1.7	38.2"	35.7"	-3.1	-3.0	0.3"	234.3	0.9	5.39

August 2018 (0^h UT)

Tag	α	δ	Δ	φ	m_V	$\varnothing_{\bar{A}}$	\varnothing_P	D_S	D_e	q	l	b	r
1	14:46	-15.1	5.20	10.8	-1.7	37.9"	35.4"	-3.1	-3.0	0.3"	234.6	0.9	5.39
5	14:47	-15.2	5.26	10.8	-1.7	37.4"	34.9"	-3.1	-3.0	0.3"	234.9	0.9	5.39
9	14:48	-15.3	5.32	10.8	-1.6	37.0"	34.5"	-3.1	-3.0	0.3"	235.2	0.9	5.39
13	14:50	-15.4	5.38	10.8	-1.6	36.6"	34.2"	-3.1	-3.0	0.3"	235.5	0.9	5.39
17	14:51	-15.5	5.45	10.7	-1.6	36.2"	33.8"	-3.1	-3.0	0.3"	235.8	0.9	5.39
21	14:53	-15.6	5.51	10.6	-1.6	35.8"	33.4"	-3.1	-3.0	0.3"	236.1	0.9	5.39
25	14:55	-15.8	5.57	10.4	-1.5	35.4"	33.0"	-3.1	-3.0	0.3"	236.4	0.9	5.38
29	14:57	-15.9	5.62	10.2	-1.5	35.0"	32.7"	-3.1	-3.0	0.3"	236.7	0.9	5.38

September 2018 (0^h UT)

Tag	α	δ	Δ	φ	m_V	$\varnothing_{\bar{A}}$	\varnothing_P	D_S	D_e	q	l	b	r
1	14:58	-16.0	5.67	10.1	-1.5	34.7"	32.4"	-3.1	-3.0	0.3"	237.0	0.9	5.38
5	15:01	-16.2	5.72	9.8	-1.5	34.4"	32.1"	-3.1	-2.9	0.3"	237.3	0.9	5.38
9	15:03	-16.4	5.78	9.5	-1.5	34.1"	31.8"	-3.1	-2.9	0.2"	237.6	0.9	5.38
13	15:05	-16.5	5.83	9.2	-1.4	33.8"	31.5"	-3.1	-2.9	0.2"	237.9	0.9	5.38
17	15:08	-16.7	5.88	8.9	-1.4	33.5"	31.3"	-3.1	-2.9	0.2"	238.2	0.9	5.38
21	15:11	-16.9	5.93	8.5	-1.4	33.2"	31.0"	-3.1	-2.9	0.2"	238.5	0.9	5.38
25	15:14	-17.1	5.98	8.1	-1.4	32.9"	30.7"	-3.1	-2.9	0.2"	238.8	0.9	5.38
29	15:17	-17.3	6.02	7.7	-1.4	32.7"	30.5"	-3.1	-2.9	0.1"	239.1	0.9	5.38

Oktober 2018 (0^h UT)

Tag	α	δ	Δ	φ	m_V	$\varnothing_{\bar{A}}$	\varnothing_P	D_S	D_e	q	l	b	r
1	15:18	-17.4	6.05	7.5	-1.4	32.6"	30.4"	-3.1	-2.9	0.1"	239.3	0.9	5.38
5	15:21	-17.6	6.09	7.0	-1.4	32.4"	30.2"	-3.0	-2.9	0.1"	239.6	0.9	5.37
9	15:24	-17.8	6.13	6.6	-1.3	32.2"	30.1"	-3.0	-2.9	0.1"	239.9	0.8	5.37
13	15:27	-18.0	6.16	6.1	-1.3	32.0"	29.9"	-3.0	-2.9	0.1"	240.2	0.8	5.37
17	15:31	-18.2	6.19	5.6	-1.3	31.8"	29.7"	-3.0	-2.9	0.1"	240.5	0.8	5.37
21	15:34	-18.4	6.22	5.1	-1.3	31.6"	29.5"	-3.0	-2.9	0.1"	240.8	0.8	5.37
25	15:38	-18.6	6.25	4.5	-1.3	31.5"	29.4"	-3.0	-2.9	0.0"	241.2	0.8	5.37
29	15:41	-18.8	6.27	4.0	-1.3	31.4"	29.3"	-3.0	-2.9	0.0"	241.5	0.8	5.37

November 2018 (0^h UT)

Tag	α	δ	Δ	φ	m_V	$\varnothing_{\bar{A}}$	\varnothing_P	D_S	D_e	q	l	b	r
1	15:44	-18.9	6.29	3.6	-1.3	31.3"	29.2"	-3.0	-2.9	0.0"	241.7	0.8	5.37
5	15:47	-19.1	6.31	3.0	-1.3	31.2"	29.1"	-3.0	-2.9	0.0"	242.0	0.8	5.37
9	15:51	-19.3	6.32	2.5	-1.3	31.1"	29.0"	-3.0	-2.9	0.0"	242.3	0.8	5.36
13	15:55	-19.5	6.33	1.9	-1.3	31.1"	29.0"	-3.0	-2.9	0.0"	242.6	0.8	5.36
17	15:58	-19.7	6.34	1.3	-1.3	31.1"	29.0"	-3.0	-2.9	0.0"	243.0	0.8	5.36
21	16:02	-19.9	6.35	0.8	-1.3	31.0"	28.9"	-3.0	-2.9	0.0"	243.3	0.8	5.36
25	16:06	-20.1	6.35	0.2	-1.3	31.0"	28.9"	-3.0	-2.9	0.0"	243.6	0.8	5.36
29	16:09	-20.2	6.34	0.4	-1.3	31.0"	28.9"	-3.0	-2.9	0.0"	243.9	0.8	5.36

Dezember 2018 (0^h UT)

Tag	α	δ	Δ	φ	m_V	$\varnothing_{\bar{A}}$	\varnothing_P	D_S	D_e	q	l	b	r
1	16:11	-20.3	6.34	0.7	-1.3	31.1"	29.0"	-3.0	-2.9	0.0"	244.0	0.8	5.36
5	16:15	-20.5	6.33	1.3	-1.3	31.1"	29.0"	-3.0	-2.9	0.0"	244.4	0.8	5.36
9	16:19	-20.6	6.32	1.8	-1.3	31.1"	29.0"	-3.0	-2.9	0.0"	244.7	0.8	5.36
13	16:22	-20.8	6.31	2.4	-1.3	31.2"	29.1"	-3.0	-2.9	0.0"	245.0	0.8	5.36
17	16:26	-20.9	6.29	3.0	-1.3	31.3"	29.2"	-3.0	-2.9	0.0"	245.3	0.7	5.35
21	16:30	-21.1	6.27	3.5	-1.3	31.4"	29.3"	-3.0	-2.9	0.0"	245.6	0.7	5.35
25	16:33	-21.2	6.24	4.1	-1.3	31.5"	29.4"	-3.0	-2.9	0.0"	245.9	0.7	5.35
29	16:37	-21.3	6.22	4.6	-1.3	31.7"	29.6"	-2.9	-2.9	-0.1"	246.2	0.7	5.35