



Ephemeriden für Sternfreunde

von Karl-Heinz Bücke

Saturn

Januar 2017 (0^h UT)

Tag	α	δ	Δ	φ	m_V	$\varnothing_{\dot{A}}$	\varnothing_P	R- \varnothing_g	R- \varnothing_k	D_s	D_e
1	17:23	-21.9	10.99	-1.8	0.5	15.1"	13.8"	34.2"	15.4"	26.7	26.8
6	17:25	-21.9	10.96	-2.3	0.5	15.1"	13.8"	34.3"	15.4"	26.7	26.8
11	17:28	-22.0	10.92	-2.7	0.5	15.1"	13.9"	34.4"	15.5"	26.7	26.8
16	17:30	-22.0	10.88	-3.0	0.5	15.2"	13.9"	34.5"	15.5"	26.7	26.7
21	17:32	-22.0	10.83	-3.4	0.4	15.3"	14.0"	34.7"	15.6"	26.7	26.7
26	17:34	-22.0	10.78	-3.8	0.4	15.3"	14.0"	34.8"	15.7"	26.7	26.7
31	17:36	-22.1	10.72	-4.1	0.4	15.4"	14.1"	35.0"	15.7"	26.7	26.7

Februar 2017 (0^h UT)

Tag	α	δ	Δ	φ	m_V	$\varnothing_{\dot{A}}$	\varnothing_P	R- \varnothing_g	R- \varnothing_k	D_s	D_e
1	17:37	-22.1	10.71	-4.1	0.4	15.5"	14.1"	35.1"	15.7"	26.7	26.7
6	17:39	-22.1	10.64	-4.4	0.4	15.5"	14.2"	35.3"	15.8"	26.7	26.7
11	17:40	-22.1	10.58	-4.7	0.3	15.6"	14.3"	35.5"	15.9"	26.7	26.6
16	17:42	-22.1	10.51	-4.9	0.3	15.8"	14.4"	35.7"	16.0"	26.7	26.6
21	17:44	-22.1	10.43	-5.2	0.3	15.9"	14.5"	36.0"	16.1"	26.7	26.6
26	17:45	-22.1	10.35	-5.3	0.3	16.0"	14.6"	36.3"	16.2"	26.7	26.6

März 2017 (0^h UT)

Tag	α	δ	Δ	φ	m_V	$\varnothing_{\dot{A}}$	\varnothing_P	R- \varnothing_g	R- \varnothing_k	D_s	D_e
1	17:46	-22.1	10.30	-5.4	0.3	16.1"	14.7"	36.4"	16.3"	26.7	26.5
6	17:47	-22.1	10.22	-5.5	0.2	16.2"	14.8"	36.7"	16.4"	26.7	26.5
11	17:48	-22.1	10.14	-5.6	0.2	16.3"	14.9"	37.0"	16.5"	26.7	26.5
16	17:49	-22.1	10.06	-5.7	0.2	16.5"	15.0"	37.3"	16.6"	26.7	26.5
21	17:50	-22.1	9.97	-5.7	0.2	16.6"	15.2"	37.6"	16.8"	26.7	26.5
26	17:50	-22.1	9.89	-5.6	0.2	16.7"	15.3"	38.0"	16.9"	26.7	26.5
31	17:50	-22.1	9.81	-5.6	0.1	16.9"	15.4"	38.3"	17.0"	26.8	26.4

April 2017 (0^h UT)

Tag	α	δ	Δ	φ	m_V	$\varnothing_{\dot{A}}$	\varnothing_P	R- \varnothing_g	R- \varnothing_k	D_s	D_e
1	17:50	-22.1	9.79	-5.5	0.1	16.9"	15.5"	38.3"	17.1"	26.8	26.4
6	17:51	-22.1	9.71	-5.4	0.1	17.0"	15.6"	38.6"	17.2"	26.8	26.4
11	17:50	-22.1	9.63	-5.2	0.1	17.2"	15.7"	39.0"	17.3"	26.8	26.4
16	17:50	-22.1	9.56	-5.0	0.1	17.3"	15.8"	39.3"	17.5"	26.8	26.4
21	17:50	-22.1	9.49	-4.8	0.1	17.4"	16.0"	39.6"	17.6"	26.8	26.4
26	17:49	-22.1	9.42	-4.5	0.1	17.6"	16.1"	39.8"	17.7"	26.8	26.4

Mai 2017 (0^h UT)

Tag	α	δ	Δ	φ	m_V	$\varnothing_{\dot{A}}$	\varnothing_P	R- \varnothing_g	R- \varnothing_k	D_s	D_e
1	17:48	-22.1	9.36	-4.2	0.1	17.7"	16.2"	40.1"	17.9"	26.8	26.5
6	17:48	-22.1	9.30	-3.8	0.1	17.8"	16.3"	40.4"	18.0"	26.8	26.5
11	17:46	-22.0	9.25	-3.4	0.1	17.9"	16.4"	40.6"	18.1"	26.8	26.5
16	17:45	-22.0	9.20	-3.0	0.1	18.0"	16.5"	40.8"	18.2"	26.8	26.5
21	17:44	-22.0	9.16	-2.5	0.1	18.1"	16.5"	41.0"	18.3"	26.8	26.5
26	17:43	-22.0	9.13	-2.1	0.1	18.1"	16.6"	41.1"	18.4"	26.8	26.5
31	17:41	-22.0	9.10	-1.6	0.1	18.2"	16.6"	41.3"	18.4"	26.8	26.6

Juni 2017 (0^h UT)

Tag	α	δ	Δ	φ	m_V	$\varnothing_{\dot{A}}$	\varnothing_P	R- \varnothing_g	R- \varnothing_k	D_s	D_e
1	17:41	-22.0	9.09	-1.5	0.2	18.2"	16.6"	41.3"	18.5"	26.8	26.6
6	17:39	-22.0	9.08	-1.0	0.2	18.2"	16.7"	41.4"	18.5"	26.8	26.6
11	17:38	-22.0	9.07	-0.5	0.2	18.3"	16.7"	41.4"	18.5"	26.8	26.6
16	17:36	-22.0	9.06	0.0	0.2	18.3"	16.7"	41.4"	18.6"	26.8	26.6
21	17:35	-22.0	9.07	0.6	0.2	18.2"	16.7"	41.4"	18.6"	26.8	26.6
26	17:33	-22.0	9.08	1.1	0.3	18.2"	16.7"	41.3"	18.6"	26.8	26.7

Juli 2017 (0^h UT)

Tag	α	δ	Δ	φ	m_V	$\varnothing_{\dot{A}}$	\varnothing_P	R- \varnothing_g	R- \varnothing_k	D_s	D_e
1	17:32	-22.0	9.10	1.6	0.3	18.2"	16.6"	41.3"	18.5"	26.8	26.7
6	17:30	-22.0	9.12	2.1	0.3	18.1"	16.6"	41.1"	18.5"	26.8	26.7
11	17:29	-22.0	9.16	2.5	0.3	18.1"	16.5"	41.0"	18.4"	26.8	26.7
16	17:27	-21.9	9.20	3.0	0.4	18.0"	16.5"	40.8"	18.4"	26.7	26.8
21	17:26	-21.9	9.24	3.4	0.4	17.9"	16.4"	40.6"	18.3"	26.7	26.8
26	17:25	-21.9	9.29	3.8	0.4	17.8"	16.3"	40.4"	18.2"	26.7	26.8
31	17:24	-21.9	9.35	4.2	0.5	17.7"	16.2"	40.1"	18.1"	26.7	26.8

August 2017 (0^h UT)

Tag	α	δ	Δ	φ	m_V	$\varnothing_{\dot{A}}$	\varnothing_P	R- \varnothing_g	R- \varnothing_k	D_s	D_e
1	17:24	-21.9	9.36	4.2	0.5	17.7"	16.2"	40.1"	18.1"	26.7	26.8
6	17:23	-21.9	9.43	4.6	0.5	17.6"	16.1"	39.8"	18.0"	26.7	26.8
11	17:23	-22.0	9.49	4.8	0.5	17.4"	16.0"	39.5"	17.9"	26.7	26.8
16	17:22	-22.0	9.57	5.1	0.5	17.3"	15.8"	39.2"	17.7"	26.7	26.9
21	17:22	-22.0	9.64	5.3	0.6	17.2"	15.7"	38.9"	17.6"	26.7	26.9
26	17:22	-22.0	9.72	5.5	0.6	17.0"	15.6"	38.6"	17.5"	26.7	26.9
31	17:22	-22.0	9.80	5.6	0.6	16.9"	15.5"	38.3"	17.3"	26.7	26.9

September 2017 (0^h UT)

Tag	α	δ	Δ	φ	m_V	$\varnothing_{\dot{A}}$	\varnothing_P	R- \varnothing_g	R- \varnothing_k	D_s	D_e
1	17:22	-22.0	9.81	5.6	0.6	16.9"	15.4"	38.3"	17.3"	26.7	26.9
6	17:23	-22.0	9.89	5.7	0.6	16.7"	15.3"	37.9"	17.2"	26.7	26.9
11	17:23	-22.1	9.98	5.7	0.7	16.6"	15.2"	37.6"	17.0"	26.7	26.9
16	17:24	-22.1	10.06	5.7	0.7	16.4"	15.1"	37.3"	16.9"	26.7	27.0
21	17:24	-22.1	10.14	5.7	0.7	16.3"	14.9"	37.0"	16.8"	26.7	27.0
26	17:25	-22.1	10.23	5.6	0.7	16.2"	14.8"	36.7"	16.7"	26.7	27.0

Oktober 2017 (0^h UT)

Tag	α	δ	Δ	φ	m_V	$\varnothing_{\text{Ä}}$	\varnothing_P	R- \varnothing_g	R- \varnothing_k	D_s	D_e
1	17:27	-22.2	10.31	5.5	0.7	16.1"	14.7"	36.4"	16.5"	26.7	27.0
6	17:28	-22.2	10.38	5.3	0.7	15.9"	14.6"	36.1"	16.4"	26.7	27.0
11	17:29	-22.2	10.46	5.2	0.7	15.8"	14.5"	35.9"	16.3"	26.7	27.0
16	17:31	-22.3	10.54	4.9	0.7	15.7"	14.4"	35.6"	16.2"	26.7	27.0
21	17:33	-22.3	10.61	4.7	0.7	15.6"	14.3"	35.4"	16.1"	26.7	27.0
26	17:34	-22.3	10.67	4.4	0.8	15.5"	14.2"	35.2"	16.0"	26.7	27.0
31	17:36	-22.3	10.74	4.1	0.8	15.4"	14.1"	35.0"	15.9"	26.7	27.0

November 2017 (0^h UT)

Tag	α	δ	Δ	φ	m_V	$\varnothing_{\text{Ä}}$	\varnothing_P	R- \varnothing_g	R- \varnothing_k	D_s	D_e
1	17:37	-22.4	10.75	4.1	0.8	15.4"	14.1"	34.9"	15.8"	26.7	27.0
6	17:39	-22.4	10.80	3.7	0.7	15.3"	14.0"	34.7"	15.8"	26.6	27.0
11	17:41	-22.4	10.86	3.4	0.7	15.2"	14.0"	34.6"	15.7"	26.6	27.0
16	17:43	-22.4	10.90	3.0	0.7	15.2"	13.9"	34.4"	15.6"	26.6	26.9
21	17:46	-22.5	10.95	2.6	0.7	15.1"	13.8"	34.3"	15.5"	26.6	26.9
26	17:48	-22.5	10.98	2.2	0.7	15.1"	13.8"	34.2"	15.5"	26.6	26.9

Dezember 2017 (0^h UT)

Tag	α	δ	Δ	φ	m_V	$\varnothing_{\text{Ä}}$	\varnothing_P	R- \varnothing_g	R- \varnothing_k	D_s	D_e
1	17:50	-22.5	11.01	1.8	0.7	15.0"	13.8"	34.1"	15.4"	26.6	26.8
6	17:53	-22.5	11.04	1.4	0.7	15.0"	13.7"	34.0"	15.3"	26.6	26.8
11	17:55	-22.5	11.05	1.0	0.7	15.0"	13.7"	34.0"	15.3"	26.6	26.8
16	17:58	-22.5	11.06	0.5	0.7	15.0"	13.7"	33.9"	15.3"	26.6	26.7
21	18:00	-22.5	11.07	0.1	0.6	14.9"	13.7"	33.9"	15.2"	26.6	26.7
26	18:03	-22.5	11.07	-0.4	0.6	15.0"	13.7"	33.9"	15.2"	26.6	26.6
31	18:06	-22.5	11.06	-0.8	0.6	15.0"	13.7"	34.0"	15.2"	26.6	26.6