



Ephemeriden für Sternfreunde

von Karl-Heinz Bücke

Saturn

Januar 2015 (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	15:57	-18.5	10.72	-3.6	0.4	15.4"	14.1"	35.0"	14.6"	23.8	24.6
6	15:59	-18.6	10.66	-3.9	0.4	15.5"	14.2"	35.2"	14.7"	23.8	24.6
11	16:01	-18.7	10.60	-4.2	0.4	15.6"	14.2"	35.4"	14.8"	23.9	24.7
16	16:03	-18.7	10.54	-4.5	0.4	15.7"	14.3"	35.6"	14.9"	23.9	24.8
21	16:04	-18.8	10.47	-4.8	0.3	15.8"	14.4"	35.9"	15.1"	23.9	24.8
26	16:06	-18.9	10.40	-5.0	0.3	15.9"	14.5"	36.1"	15.2"	24.0	24.9
31	16:07	-18.9	10.32	-5.2	0.3	16.0"	14.6"	36.4"	15.3"	24.0	24.9

Februar 2015 (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	16:08	-18.9	10.30	-5.3	0.3	16.1"	14.7"	36.4"	15.4"	24.0	24.9
6	16:09	-19.0	10.23	-5.4	0.3	16.2"	14.8"	36.7"	15.5"	24.0	25.0
11	16:10	-19.0	10.15	-5.5	0.2	16.3"	14.9"	37.0"	15.6"	24.1	25.0
16	16:11	-19.1	10.06	-5.6	0.2	16.4"	15.0"	37.3"	15.8"	24.1	25.0
21	16:12	-19.1	9.98	-5.7	0.2	16.6"	15.1"	37.6"	15.9"	24.1	25.0
26	16:13	-19.1	9.90	-5.7	0.2	16.7"	15.3"	37.9"	16.0"	24.2	25.0

März 2015 (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	16:13	-19.1	9.85	-5.7	0.2	16.8"	15.3"	38.1"	16.1"	24.2	25.0
6	16:13	-19.1	9.76	-5.6	0.1	16.9"	15.5"	38.4"	16.3"	24.2	25.0
11	16:14	-19.1	9.68	-5.5	0.1	17.1"	15.6"	38.8"	16.4"	24.2	25.0
16	16:14	-19.1	9.60	-5.4	0.1	17.2"	15.7"	39.1"	16.5"	24.3	25.0
21	16:14	-19.1	9.53	-5.2	0.1	17.4"	15.8"	39.4"	16.7"	24.3	25.0
26	16:13	-19.0	9.45	-5.0	0.1	17.5"	16.0"	39.7"	16.8"	24.3	25.0
31	16:13	-19.0	9.38	-4.7	0.1	17.6"	16.1"	40.0"	16.9"	24.4	24.9

April 2015 (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	16:13	-19.0	9.37	-4.6	0.1	17.7"	16.1"	40.1"	16.9"	24.4	24.9
6	16:12	-19.0	9.30	-4.3	0.1	17.8"	16.2"	40.3"	17.0"	24.4	24.9
11	16:11	-18.9	9.24	-4.0	0.1	17.9"	16.3"	40.6"	17.1"	24.4	24.9
16	16:10	-18.9	9.19	-3.6	0.1	18.0"	16.4"	40.9"	17.2"	24.5	24.8
21	16:09	-18.8	9.14	-3.2	0.1	18.1"	16.5"	41.1"	17.2"	24.5	24.8
26	16:08	-18.8	9.10	-2.7	0.1	18.2"	16.6"	41.3"	17.3"	24.5	24.7

Mai 2015 (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	16:07	-18.7	9.06	-2.3	0.1	18.3"	16.7"	41.4"	17.3"	24.5	24.7
6	16:05	-18.6	9.03	-1.8	0.2	18.3"	16.7"	41.6"	17.3"	24.6	24.6
11	16:04	-18.6	9.01	-1.3	0.2	18.4"	16.7"	41.7"	17.3"	24.6	24.6
16	16:02	-18.5	8.99	-0.8	0.2	18.4"	16.8"	41.7"	17.3"	24.6	24.5
21	16:01	-18.4	8.99	-0.2	0.2	18.4"	16.8"	41.8"	17.3"	24.7	24.5
26	15:59	-18.3	8.99	0.3	0.2	18.4"	16.8"	41.8"	17.3"	24.7	24.4
31	15:58	-18.3	9.00	0.8	0.3	18.4"	16.8"	41.7"	17.2"	24.7	24.4

Juni 2015 (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	15:57	-18.3	9.00	0.9	0.3	18.4"	16.8"	41.7"	17.2"	24.7	24.4
6	15:56	-18.2	9.01	1.4	0.3	18.4"	16.7"	41.6"	17.1"	24.7	24.3
11	15:55	-18.1	9.04	1.9	0.3	18.3"	16.7"	41.5"	17.1"	24.8	24.3
16	15:53	-18.1	9.07	2.4	0.4	18.2"	16.6"	41.4"	17.0"	24.8	24.2
21	15:52	-18.0	9.11	2.9	0.4	18.2"	16.6"	41.2"	16.9"	24.8	24.2
26	15:51	-18.0	9.15	3.3	0.4	18.1"	16.5"	41.0"	16.8"	24.9	24.1

Juli 2015 (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	15:50	-17.9	9.20	3.7	0.5	18.0"	16.4"	40.8"	16.7"	24.9	24.1
6	15:49	-17.9	9.26	4.1	0.5	17.9"	16.3"	40.6"	16.5"	24.9	24.1
11	15:48	-17.9	9.32	4.4	0.5	17.8"	16.2"	40.3"	16.4"	24.9	24.1
16	15:47	-17.9	9.38	4.7	0.5	17.6"	16.1"	40.0"	16.3"	25.0	24.1
21	15:47	-17.9	9.45	5.0	0.6	17.5"	15.9"	39.7"	16.2"	25.0	24.1
26	15:46	-17.9	9.53	5.2	0.6	17.4"	15.8"	39.4"	16.1"	25.0	24.1
31	15:46	-17.9	9.60	5.4	0.6	17.2"	15.7"	39.1"	15.9"	25.0	24.1

August 2015 (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	15:46	-17.9	9.62	5.5	0.6	17.2"	15.7"	39.0"	15.9"	25.0	24.1
6	15:46	-17.9	9.70	5.6	0.6	17.1"	15.5"	38.7"	15.8"	25.1	24.1
11	15:46	-17.9	9.78	5.7	0.7	16.9"	15.4"	38.4"	15.7"	25.1	24.1
16	15:47	-18.0	9.86	5.8	0.7	16.8"	15.3"	38.1"	15.6"	25.1	24.2
21	15:47	-18.0	9.94	5.8	0.7	16.6"	15.2"	37.8"	15.5"	25.2	24.2
26	15:48	-18.1	10.03	5.8	0.7	16.5"	15.0"	37.4"	15.4"	25.2	24.3
31	15:49	-18.1	10.11	5.7	0.7	16.4"	14.9"	37.1"	15.3"	25.2	24.3

September 2015 (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	15:49	-18.2	10.12	5.7	0.7	16.3"	14.9"	37.1"	15.3"	25.2	24.3
6	15:50	-18.2	10.21	5.6	0.8	16.2"	14.8"	36.8"	15.2"	25.2	24.4
11	15:51	-18.3	10.29	5.5	0.8	16.1"	14.7"	36.5"	15.1"	25.3	24.5
16	15:52	-18.4	10.36	5.3	0.8	16.0"	14.6"	36.2"	15.0"	25.3	24.5
21	15:54	-18.5	10.44	5.1	0.8	15.9"	14.5"	36.0"	15.0"	25.3	24.6
26	15:56	-18.6	10.51	4.9	0.8	15.7"	14.4"	35.7"	14.9"	25.3	24.7

Oktober 2015 (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	15:57	-18.7	10.58	4.6	0.8	15.6"	14.3"	35.5"	14.9"	25.3	24.8
6	15:59	-18.8	10.64	4.3	0.8	15.5"	14.2"	35.3"	14.8"	25.4	24.9
11	16:01	-18.9	10.70	4.0	0.8	15.5"	14.1"	35.1"	14.8"	25.4	24.9
16	16:03	-19.0	10.76	3.7	0.8	15.4"	14.0"	34.9"	14.8"	25.4	25.0
21	16:05	-19.1	10.81	3.3	0.8	15.3"	14.0"	34.7"	14.7"	25.4	25.1
26	16:07	-19.2	10.86	3.0	0.8	15.2"	13.9"	34.6"	14.7"	25.5	25.2
31	16:09	-19.3	10.90	2.6	0.7	15.2"	13.9"	34.4"	14.7"	25.5	25.3

November 2015 (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	16:10	-19.3	10.91	2.5	0.7	15.2"	13.9"	34.4"	14.7"	25.5	25.3
6	16:12	-19.5	10.94	2.1	0.7	15.1"	13.8"	34.3"	14.7"	25.5	25.4
11	16:15	-19.6	10.97	1.7	0.7	15.1"	13.8"	34.2"	14.7"	25.5	25.5
16	16:17	-19.7	10.99	1.2	0.7	15.1"	13.8"	34.2"	14.7"	25.6	25.6
21	16:19	-19.8	11.00	0.8	0.7	15.0"	13.7"	34.1"	14.8"	25.6	25.6
26	16:22	-19.9	11.01	0.4	0.7	15.0"	13.7"	34.1"	14.8"	25.6	25.7

Dezember 2015 (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	16:24	-20.0	11.01	-0.1	0.6	15.0"	13.7"	34.1"	14.8"	25.6	25.8
6	16:27	-20.1	11.01	-0.5	0.6	15.0"	13.7"	34.1"	14.9"	25.6	25.9
11	16:29	-20.2	11.00	-0.9	0.6	15.0"	13.7"	34.1"	14.9"	25.7	25.9
16	16:32	-20.3	10.98	-1.4	0.6	15.1"	13.8"	34.2"	15.0"	25.7	26.0
21	16:34	-20.4	10.96	-1.8	0.5	15.1"	13.8"	34.3"	15.0"	25.7	26.0
26	16:37	-20.4	10.93	-2.2	0.5	15.1"	13.8"	34.4"	15.1"	25.7	26.1
31	16:39	-20.5	10.89	-2.6	0.5	15.2"	13.9"	34.5"	15.2"	25.7	26.1