

Éphémérides topocentriques de Saturne

Les temps sont donnés en TU pour Auch (0° 35' 0" E, 43° 38' 0" N, zone A).

	Date	Heure	A. D. (2020,0)	Décl. (2020,0)	Const.	Dist. T.	Dist. S.	Magn.	Diam.	Illum.	Élong.	Sépar.	Lever	Passage	Coucher	Altitude	Azimut	Azimut
	jj mm aaaa	hh:mm	topocentrique	topocentrique		UA	UA	mV	"	%	°	°	hh:mm	hh:mm	hh:mm	max.	lever	coucher
1	01 01 2020	00:00	19h 32m 27,7s	-21° 41' 0"	Sgr	10,997	10,034	0,52	15,0	100,0	11,4° E	11,4°	08:14	12:48	17:22	24,7°	120,1°	239,9°
2	02 01 2020	00:00	19h 32m 57,6s	-21° 39' 58"	Sgr	11,000	10,034	0,52	15,0	100,0	10,5° E	10,5°	08:10	12:44	17:18	24,7°	120,0°	240,0°
3	03 01 2020	00:00	19h 33m 27,6s	-21° 38' 55"	Sgr	11,002	10,034	0,52	15,0	100,0	9,6° E	9,6°	08:07	12:41	17:15	24,7°	120,0°	240,0°
4	04 01 2020	00:00	19h 33m 57,6s	-21° 37' 53"	Sgr	11,005	10,034	0,52	15,0	100,0	8,7° E	8,7°	08:03	12:37	17:12	24,7°	120,0°	240,0°
5	05 01 2020	00:00	19h 34m 27,6s	-21° 36' 49"	Sgr	11,007	10,034	0,51	15,0	100,0	7,8° E	7,8°	07:59	12:34	17:08	24,8°	120,0°	240,0°
6	06 01 2020	00:00	19h 34m 57,7s	-21° 35' 46"	Sgr	11,009	10,034	0,51	15,0	100,0	6,9° E	6,9°	07:56	12:31	17:05	24,8°	119,9°	240,1°
7	07 01 2020	00:00	19h 35m 27,9s	-21° 34' 42"	Sgr	11,011	10,034	0,51	15,0	100,0	6,0° E	6,0°	07:53	12:27	17:02	24,8°	119,9°	240,1°
8	08 01 2020	00:00	19h 35m 58,0s	-21° 33' 37"	Sgr	11,013	10,034	0,51	15,0	100,0	5,1° E	5,1°	07:49	12:24	16:58	24,8°	119,9°	240,1°
9	09 01 2020	00:00	19h 36m 28,2s	-21° 32' 32"	Sgr	11,014	10,034	0,50	15,0	100,0	4,2° E	4,2°	07:46	12:20	16:55	24,8°	119,9°	240,1°
10	10 01 2020	00:00	19h 36m 58,3s	-21° 31' 27"	Sgr	11,015	10,033	0,50	15,0	100,0	3,3° E	3,3°	07:42	12:17	16:52	24,9°	119,8°	240,2°
11	11 01 2020	00:00	19h 37m 28,5s	-21° 30' 21"	Sgr	11,016	10,033	0,50	15,0	100,0	2,4° E	2,4°	07:39	12:13	16:48	24,9°	119,8°	240,2°
12	12 01 2020	00:00	19h 37m 58,7s	-21° 29' 15"	Sgr	11,016	10,033	0,49	15,0	100,0	1,5° E	1,5°	07:35	12:10	16:45	24,9°	119,8°	240,2°
13	13 01 2020	00:00	19h 38m 28,9s	-21° 28' 9"	Sgr	11,017	10,033	0,49	15,0	100,0	0,6° E	0,6°	07:32	12:07	16:42	24,9°	119,8°	240,3°
14	14 01 2020	00:00	19h 38m 59,1s	-21° 27' 2"	Sgr	11,017	10,033	0,49	15,0	100,0	0,3° O	0,3°	07:28	12:03	16:38	24,9°	119,7°	240,3°
15	15 01 2020	00:00	19h 39m 29,3s	-21° 25' 55"	Sgr	11,016	10,033	0,49	15,0	100,0	1,2° O	1,2°	07:25	11:59	16:35	24,9°	119,7°	240,3°
16	16 01 2020	00:00	19h 39m 59,4s	-21° 24' 48"	Sgr	11,016	10,033	0,50	15,0	100,0	2,1° O	2,1°	07:21	11:56	16:31	25,0°	119,7°	240,3°
17	17 01 2020	00:00	19h 40m 29,6s	-21° 23' 40"	Sgr	11,015	10,033	0,50	15,0	100,0	3,0° O	3,0°	07:18	11:53	16:28	25,0°	119,6°	240,4°
18	18 01 2020	00:00	19h 40m 59,7s	-21° 22' 32"	Sgr	11,014	10,033	0,51	15,0	100,0	3,9° O	3,9°	07:14	11:49	16:25	25,0°	119,6°	240,4°
19	19 01 2020	00:00	19h 41m 29,8s	-21° 21' 24"	Sgr	11,013	10,033	0,51	15,0	100,0	4,8° O	4,8°	07:11	11:46	16:21	25,0°	119,6°	240,4°
20	20 01 2020	00:00	19h 41m 59,9s	-21° 20' 15"	Sgr	11,011	10,032	0,52	15,0	100,0	5,7° O	5,7°	07:07	11:43	16:18	25,0°	119,6°	240,4°
21	21 01 2020	00:00	19h 42m 29,9s	-21° 19' 6"	Sgr	11,009	10,032	0,52	15,0	100,0	6,6° O	6,6°	07:04	11:39	16:15	25,1°	119,5°	240,5°
22	22 01 2020	00:00	19h 42m 59,9s	-21° 17' 57"	Sgr	11,007	10,032	0,53	15,0	100,0	7,5° O	7,5°	07:00	11:36	16:11	25,1°	119,5°	240,5°
23	23 01 2020	00:00	19h 43m 29,9s	-21° 16' 48"	Sgr	11,005	10,032	0,53	15,0	100,0	8,4° O	8,4°	06:57	11:32	16:08	25,1°	119,5°	240,5°
24	24 01 2020	00:00	19h 43m 59,8s	-21° 15' 38"	Sgr	11,002	10,032	0,54	15,0	100,0	9,3° O	9,3°	06:53	11:29	16:05	25,1°	119,4°	240,6°
25	25 01 2020	00:00	19h 44m 29,6s	-21° 14' 28"	Sgr	10,999	10,032	0,54	15,0	100,0	10,2° O	10,2°	06:49	11:25	16:01	25,1°	119,4°	240,6°
26	26 01 2020	00:00	19h 44m 59,4s	-21° 13' 19"	Sgr	10,996	10,032	0,54	15,0	100,0	11,1° O	11,1°	06:46	11:22	15:58	25,2°	119,4°	240,6°
27	27 01 2020	00:00	19h 45m 29,1s	-21° 12' 8"	Sgr	10,993	10,032	0,55	15,1	100,0	12,0° O	12,0°	06:42	11:19	15:55	25,2°	119,4°	240,6°
28	28 01 2020	00:00	19h 45m 58,7s	-21° 10' 58"	Sgr	10,989	10,032	0,55	15,1	100,0	12,9° O	12,9°	06:39	11:15	15:51	25,2°	119,3°	240,7°
29	29 01 2020	00:00	19h 46m 28,3s	-21° 9' 48"	Sgr	10,985	10,032	0,56	15,1	100,0	13,8° O	13,8°	06:35	11:12	15:48	25,2°	119,3°	240,7°
30	30 01 2020	00:00	19h 46m 57,7s	-21° 8' 37"	Sgr	10,981	10,031	0,56	15,1	100,0	14,7° O	14,7°	06:32	11:08	15:45	25,2°	119,3°	240,7°
31	31 01 2020	00:00	19h 47m 27,1s	-21° 7' 27"	Sgr	10,976	10,031	0,56	15,1	100,0	15,6° O	15,6°	06:28	11:05	15:41	25,3°	119,2°	240,8°
32	01 02 2020	00:00	19h 47m 56,4s	-21° 6' 16"	Sgr	10,972	10,031	0,57	15,1	100,0	16,5° O	16,5°	06:25	11:01	15:38	25,3°	119,2°	240,8°
33	02 02 2020	00:00	19h 48m 25,6s	-21° 5' 5"	Sgr	10,967	10,031	0,57	15,1	100,0	17,4° O	17,4°	06:21	10:58	15:35	25,3°	119,2°	240,8°
34	03 02 2020	00:00	19h 48m 54,7s	-21° 3' 54"	Sgr	10,962	10,031	0,57	15,1	100,0	18,3° O	18,3°	06:18	10:54	15:31	25,3°	119,2°	240,9°
35	04 02 2020	00:00	19h 49m 23,7s	-21° 2' 43"	Sgr	10,956	10,031	0,58	15,1	100,0	19,2° O	19,2°	06:14	10:51	15:28	25,3°	119,1°	240,9°
36	05 02 2020	00:00	19h 49m 52,5s	-21° 1' 32"	Sgr	10,951	10,031	0,58	15,1	100,0	20,1° O	20,1°	06:11	10:48	15:24	25,3°	119,1°	240,9°
37	06 02 2020	00:00	19h 50m 21,3s	-21° 0' 21"	Sgr	10,945	10,031	0,59	15,1	100,0	21,0° O	21,0°	06:07	10:44	15:21	25,4°	119,1°	240,9°
38	07 02 2020	00:00	19h 50m 49,9s	-20° 59' 10"	Sgr	10,939	10,031	0,59	15,1	100,0	21,9° O	21,9°	06:03	10:41	15:18	25,4°	119,0°	241,0°
39	08 02 2020	00:00	19h 51m 18,4s	-20° 57' 59"	Sgr	10,932	10,030	0,59	15,1	100,0	22,8° O	22,8°	05:59	10:37	15:14	25,4°	119,0°	241,0°
40	09 02 2020	00:00	19h 51m 46,8s	-20° 56' 48"	Sgr	10,926	10,030	0,60	15,1	100,0	23,7° O	23,7°	05:56	10:34	15:11	25,4°	119,0°	241,0°
41	10 02 2020	00:00	19h 52m 15,0s	-20° 55' 37"	Sgr	10,919	10,030	0,60	15,2	100,0	24,6° O	24,6°	05:53	10:30	15:08	25,4°	119,0°	241,1°
42	11 02 2020	00:00	19h 52m 43,1s	-20° 54' 27"	Sgr	10,912	10,030	0,60	15,2	100,0	25,5° O	25,5°	05:49	10:27	15:04	25,5°	118,9°	241,1°
43	12 02 2020	00:00	19h 53m 11,1s	-20° 53' 16"	Sgr	10,904	10,030	0,60	15,2	100,0	26,4° O	26,4°	05:46	10:23	15:01	25,5°	118,9°	241,1°
44	13 02 2020	00:00	19h 53m 38,9s	-20° 52' 5"	Sgr	10,897	10,030	0,61	15,2	99,9	27,3° O	27,3°	05:42	10:20	14:57	25,5°	118,9°	241,1°
45	14 02 2020	00:00	19h 54m 6,5s	-20° 50' 55"	Sgr	10,889	10,030	0,61	15,2	99,9	28,2° O	28,2°	05:39	10:16	14:54	25,5°	118,8°	241,2°
46	15 02 2020	00:00	19h 54m 34,1s	-20° 49' 44"	Sgr	10,881	10,030	0,61	15,2	99,9	29,1° O	29,1°	05:35	10:13	14:51	25,5°	118,8°	241,2°
47	16 02 2020	00:00	19h 55m 1,4s	-20° 48' 34"	Sgr	10,872	10,030	0,62	15,2	99,9	30,0° O	30,0°	05:31	10:09	14:47	25,6°	118,8°	241,2°
48	17 02 2020	00:00	19h 55m 28,6s	-20° 47' 24"	Sgr	10,864	10,029	0,62	15,2	99,9	30,9° O	30,9°	05:28	10:06	14:44	25,6°	118,8°	241,3°
49	18 02 2020	00:00	19h 55m 55,6s	-20° 46' 14"	Sgr	10,855	10,029	0,62	15,2	99,9	31,8° O	31,8°	05:24	10:02	14:41	25,6°	118,7°	241,3°
50	19 02 2020	00:00	19h 56m 22,5s	-20° 45' 4"	Sgr	10,846	10,029	0,62	15,3	99,9	32,7° O	32,7°	05:21	09:59	14:37	25,6°	118,7°	241,3°
51	20 02 2020	00:00	19h 56m 49,1s	-20° 43' 55"	Sgr	10,837	10,029	0,63	15,3	99,9	33,6° O	33,6°	05:17	09:55	14:34	25,6°	118,7°	241,3°
52	21 02 2020	00:00	19h 57m 15,6s	-20° 42' 46"	Sgr	10,828	10,029	0,63	15,3	99,9	34,6° O	34,6°	05:14	09:52	14:30	25,7°	118,6°	241,4°
53	22 02 2020	00:00	19h 57m 41,9s	-20° 41' 37"	Sgr	10,818	10,029	0,63	15,3	99,9	35,5° O	35,5°	05:10	09:48	14:27	25,7°	118,6°	241,4°
54	23 02 2020	00:00	19h 58m 8,0s	-20° 40' 28"	Sgr	10,808	10,029	0,63	15,3	99,9	36,4° O	36,4°	05:06	09:45	14:23	25,7°	118,6°	241,4°
55	24 02 2020	00:00	19h 58m 33,9s	-20° 39' 20"	Sgr	10,798	10,029	0,63	15,3	99,9	37,3° O	37,3°	05:03	09:41	14:20	25,7°	118,6°	241,5°
56	25 02 2020	00:00	19h 58m 59,6s	-20° 38' 12"	Sgr	10,788	10,029	0,64	15,3	99,9	38,2° O	38,2°	04:59	09:38	14:17	25,7°	118,5°	241,5°
57	26 02 2020	00:00	19h 59m 25,1s	-20° 37' 4"	Sgr	10,778	10,029	0,64	15,4	99,9	39,1° O	39,1°	04:56	09:34	14:13	25,8°	118,5°	241,5°
58	27 02 2020	00:00	19h 59m 50,4s	-20° 35' 57"	Sgr													

Ephémérides topocentriques de Saturne (suite)

Les temps sont donnés en TU pour Auch (0° 35' 0" E, 43° 38' 0" N, zone A).

Date jj mm aaaa	Heure hh:mm	A. D. (2020,0) topocentrique	Décl. (2020,0) topocentrique	Const.	Dist. T. UA	Dist. S. UA	Magn. mV	Diam. "	Illum. %	Élong. °	Sépar. °	Lever hh:mm	Passage hh:mm	Coucher hh:mm	Altitude max.	Azimut lever	Azimut coucher	
76	16 03 2020	00:00	20h 6m 44,4s	-20° 17' 9"	Sgr	10,543	10,026	0,66	15,7	99,8	56,3° O	56,3°	03:47	08:27	13:07	26,1°	118,0°	242,0°
77	17 03 2020	00:00	20h 7m 4,9s	-20° 16' 12"	Sgr	10,529	10,026	0,66	15,7	99,8	57,3° O	57,3°	03:43	08:23	13:04	26,1°	118,0°	242,0°
78	18 03 2020	00:00	20h 7m 25,1s	-20° 15' 16"	Sgr	10,515	10,026	0,66	15,7	99,8	58,2° O	58,2°	03:39	08:20	13:00	26,1°	118,0°	242,0°
79	19 03 2020	00:00	20h 7m 45,1s	-20° 14' 21"	Sgr	10,501	10,026	0,66	15,8	99,8	59,1° O	59,1°	03:36	08:16	12:57	26,1°	117,9°	242,1°
80	20 03 2020	00:00	20h 8m 4,7s	-20° 13' 26"	Sgr	10,487	10,026	0,66	15,8	99,8	60,0° O	60,0°	03:32	08:13	12:53	26,1°	117,9°	242,1°
81	21 03 2020	00:00	20h 8m 24,0s	-20° 12' 32"	Sgr	10,472	10,026	0,66	15,8	99,8	60,9° O	60,9°	03:28	08:09	12:50	26,2°	117,9°	242,1°
82	22 03 2020	00:00	20h 8m 43,0s	-20° 11' 39"	Cap	10,457	10,026	0,66	15,8	99,8	61,8° O	61,8°	03:25	08:05	12:46	26,2°	117,9°	242,1°
83	23 03 2020	00:00	20h 9m 1,7s	-20° 10' 47"	Cap	10,443	10,026	0,65	15,8	99,8	62,8° O	62,8°	03:21	08:02	12:42	26,2°	117,9°	242,1°
84	24 03 2020	00:00	20h 9m 20,0s	-20° 9' 56"	Cap	10,428	10,025	0,65	15,9	99,8	63,7° O	63,7°	03:17	07:58	12:39	26,2°	117,8°	242,2°
85	25 03 2020	00:00	20h 9m 38,1s	-20° 9' 5"	Cap	10,413	10,025	0,65	15,9	99,8	64,6° O	64,6°	03:14	07:54	12:35	26,2°	117,8°	242,2°
86	26 03 2020	00:00	20h 9m 55,8s	-20° 8' 16"	Cap	10,397	10,025	0,65	15,9	99,8	65,5° O	65,5°	03:10	07:51	12:32	26,2°	117,8°	242,2°
87	27 03 2020	00:00	20h 10m 13,2s	-20° 7' 27"	Cap	10,382	10,025	0,65	15,9	99,8	66,4° O	66,4°	03:06	07:47	12:28	26,2°	117,8°	242,2°
88	28 03 2020	00:00	20h 10m 30,3s	-20° 6' 39"	Cap	10,367	10,025	0,65	16,0	99,8	67,4° O	67,4°	03:02	07:44	12:25	26,3°	117,8°	242,2°
89	29 03 2020	00:00	20h 10m 47,0s	-20° 5' 52"	Cap	10,351	10,025	0,65	16,0	99,8	68,3° O	68,3°	02:59	07:40	12:21	26,3°	117,7°	242,3°
90	30 03 2020	00:00	20h 11m 3,4s	-20° 5' 6"	Cap	10,336	10,025	0,65	16,0	99,8	69,2° O	69,2°	02:55	07:36	12:17	26,3°	117,7°	242,3°
91	31 03 2020	00:00	20h 11m 19,5s	-20° 4' 21"	Cap	10,320	10,025	0,65	16,0	99,8	70,1° O	70,1°	02:51	07:33	12:14	26,3°	117,7°	242,3°
92	01 04 2020	00:00	20h 11m 35,3s	-20° 3' 37"	Cap	10,304	10,025	0,65	16,1	99,8	71,1° O	71,1°	02:48	07:29	12:10	26,3°	117,7°	242,3°
93	02 04 2020	00:00	20h 11m 50,6s	-20° 2' 54"	Cap	10,288	10,024	0,64	16,1	99,8	72,0° O	72,0°	02:44	07:25	12:07	26,3°	117,7°	242,3°
94	03 04 2020	00:00	20h 12m 5,7s	-20° 2' 13"	Cap	10,273	10,024	0,64	16,1	99,8	72,9° O	72,9°	02:40	07:22	12:03	26,3°	117,7°	242,4°
95	04 04 2020	00:00	20h 12m 20,4s	-20° 1' 32"	Cap	10,257	10,024	0,64	16,1	99,8	73,8° O	73,8°	02:36	07:18	11:59	26,3°	117,6°	242,4°
96	05 04 2020	00:00	20h 12m 34,7s	-20° 0' 52"	Cap	10,240	10,024	0,64	16,2	99,8	74,8° O	74,8°	02:33	07:14	11:56	26,4°	117,6°	242,4°
97	06 04 2020	00:00	20h 12m 48,7s	-20° 0' 13"	Cap	10,224	10,024	0,64	16,2	99,8	75,7° O	75,7°	02:29	07:10	11:52	26,4°	117,6°	242,4°
98	07 04 2020	00:00	20h 13m 2,3s	-19° 59' 35"	Cap	10,208	10,024	0,64	16,2	99,8	76,6° O	76,6°	02:25	07:07	11:48	26,4°	117,6°	242,4°
99	08 04 2020	00:00	20h 13m 15,6s	-19° 58' 59"	Cap	10,192	10,024	0,63	16,2	99,8	77,5° O	77,5°	02:21	07:03	11:45	26,4°	117,6°	242,4°
100	09 04 2020	00:00	20h 13m 28,5s	-19° 58' 23"	Cap	10,176	10,024	0,63	16,3	99,8	78,5° O	78,5°	02:18	06:59	11:41	26,4°	117,6°	242,4°
101	10 04 2020	00:00	20h 13m 41,1s	-19° 57' 49"	Cap	10,159	10,024	0,63	16,3	99,8	79,4° O	79,4°	02:14	06:56	11:37	26,4°	117,5°	242,5°
102	11 04 2020	00:00	20h 13m 53,2s	-19° 57' 15"	Cap	10,143	10,023	0,63	16,3	99,8	80,3° O	80,3°	02:10	06:52	11:34	26,4°	117,5°	242,5°
103	12 04 2020	00:00	20h 14m 5,1s	-19° 56' 43"	Cap	10,126	10,023	0,62	16,3	99,8	81,3° O	81,3°	02:06	06:48	11:30	26,4°	117,5°	242,5°
104	13 04 2020	00:00	20h 14m 16,5s	-19° 56' 12"	Cap	10,110	10,023	0,62	16,4	99,8	82,2° O	82,2°	02:02	06:44	11:26	26,4°	117,5°	242,5°
105	14 04 2020	00:00	20h 14m 27,6s	-19° 55' 42"	Cap	10,093	10,023	0,62	16,4	99,8	83,1° O	83,1°	01:59	06:41	11:22	26,4°	117,5°	242,5°
106	15 04 2020	00:00	20h 14m 38,3s	-19° 55' 14"	Cap	10,077	10,023	0,62	16,4	99,8	84,1° O	84,1°	01:55	06:37	11:19	26,4°	117,5°	242,5°
107	16 04 2020	00:00	20h 14m 48,6s	-19° 54' 46"	Cap	10,060	10,023	0,61	16,4	99,8	85,0° O	85,0°	01:51	06:33	11:15	26,5°	117,5°	242,5°
108	17 04 2020	00:00	20h 14m 58,5s	-19° 54' 20"	Cap	10,043	10,023	0,61	16,5	99,7	86,0° O	86,0°	01:47	06:29	11:11	26,5°	117,5°	242,5°
109	18 04 2020	00:00	20h 15m 8,1s	-19° 53' 55"	Cap	10,027	10,023	0,61	16,5	99,7	86,9° O	86,9°	01:43	06:26	11:08	26,5°	117,5°	242,6°
110	19 04 2020	00:00	20h 15m 17,2s	-19° 53' 31"	Cap	10,010	10,022	0,60	16,5	99,7	87,8° O	87,8°	01:40	06:22	11:04	26,5°	117,4°	242,6°
111	20 04 2020	00:00	20h 15m 26,0s	-19° 53' 8"	Cap	9,9932	10,022	0,60	16,6	99,7	88,8° O	88,8°	01:36	06:18	10:59	26,5°	117,4°	242,6°
112	21 04 2020	00:00	20h 15m 34,4s	-19° 52' 47"	Cap	9,9765	10,022	0,60	16,6	99,7	89,7° O	89,7°	01:32	06:14	10:56	26,5°	117,4°	242,6°
113	22 04 2020	00:00	20h 15m 42,3s	-19° 52' 27"	Cap	9,9598	10,022	0,59	16,6	99,7	90,7° O	90,7°	01:28	06:10	10:52	26,5°	117,4°	242,6°
114	23 04 2020	00:00	20h 15m 49,9s	-19° 52' 8"	Cap	9,9431	10,022	0,59	16,6	99,7	91,6° O	91,6°	01:24	06:07	10:49	26,5°	117,4°	242,6°
115	24 04 2020	00:00	20h 15m 57,1s	-19° 51' 50"	Cap	9,9264	10,022	0,59	16,7	99,7	92,6° O	92,6°	01:21	06:03	10:45	26,5°	117,4°	242,6°
116	25 04 2020	00:00	20h 16m 3,9s	-19° 51' 34"	Cap	9,9097	10,022	0,58	16,7	99,7	93,5° O	93,5°	01:17	05:59	10:41	26,5°	117,4°	242,6°
117	26 04 2020	00:00	20h 16m 10,3s	-19° 51' 19"	Cap	9,8930	10,022	0,58	16,7	99,7	94,5° O	94,5°	01:13	05:55	10:37	26,5°	117,4°	242,6°
118	27 04 2020	00:00	20h 16m 16,3s	-19° 51' 5"	Cap	9,8764	10,022	0,58	16,8	99,7	95,4° O	95,4°	01:09	05:51	10:33	26,5°	117,4°	242,6°
119	28 04 2020	00:00	20h 16m 21,9s	-19° 50' 53"	Cap	9,8598	10,021	0,57	16,8	99,8	96,4° O	96,4°	01:05	05:47	10:30	26,5°	117,4°	242,6°
120	29 04 2020	00:00	20h 16m 27,1s	-19° 50' 42"	Cap	9,8432	10,021	0,57	16,8	99,8	97,3° O	97,3°	01:01	05:44	10:26	26,5°	117,4°	242,6°
121	30 04 2020	00:00	20h 16m 31,9s	-19° 50' 32"	Cap	9,8267	10,021	0,56	16,8	99,8	98,3° O	98,3°	00:57	05:40	10:22	26,5°	117,4°	242,6°
122	01 05 2020	00:00	20h 16m 36,3s	-19° 50' 23"	Cap	9,8101	10,021	0,56	16,9	99,8	99,2° O	99,2°	00:54	05:36	10:18	26,5°	117,4°	242,6°
123	02 05 2020	00:00	20h 16m 40,3s	-19° 50' 16"	Cap	9,7937	10,021	0,56	16,9	99,8	100,2° O	100,2°	00:50	05:32	10:14	26,5°	117,4°	242,6°
124	03 05 2020	00:00	20h 16m 43,8s	-19° 50' 10"	Cap	9,7773	10,021	0,55	16,9	99,8	101,1° O	101,1°	00:46	05:28	10:10	26,5°	117,4°	242,6°
125	04 05 2020	00:00	20h 16m 47,0s	-19° 50' 6"	Cap	9,7609	10,021	0,55	17,0	99,8	102,1° O	102,1°	00:42	05:24	10:06	26,5°	117,4°	242,6°
126	05 05 2020	00:00	20h 16m 49,8s	-19° 50' 3"	Cap	9,7446	10,021	0,54	17,0	99,8	103,0° O	103,0°	00:38	05:20	10:03	26,5°	117,4°	242,6°
127	06 05 2020	00:00	20h 16m 52,1s	-19° 50' 11"	Cap	9,7284	10,020	0,54	17,0	99,8	104,0° O	104,0°	00:34	05:16	09:59	26,5°	117,4°	242,6°
128	07 05 2020	00:00	20h 16m 54,1s	-19° 50' 0"	Cap	9,7122	10,020	0,53	17,0	99,8	105,0° O	105,0°	00:30	05:13	09:55	26,5°	117,4°	242,6°
129	08 05 2020	00:00	20h 16m 55,7s	-19° 50' 1"	Cap	9,6962	10,020	0,53	17,1	99,8	105,9° O	105,9°	00:26	05:09	09:51	26,5°	117,4°	242,6°
130	09 05 2020	00:00	20h 16m 56,8s	-19° 50' 3"	Cap	9,6801	10,020	0,52	17,1	99,8	106,9° O	106,9°	00:22	05:05	09:47	26,5°	117,4°	242,6°
131	10 05 2020	00:00	20h 16m 57,6s	-19° 50' 6"	Cap	9,6642	10,020	0,52	17,1	99,8	107,8° O	107,8°	00:19	05:01	09:43	26,5°	117,4°	242,6°
132	11 05 2020	00:00	20h 16m 58,0s	-19° 50' 11"	Cap	9,6484	10,020	0,51	17,1	99,8	108,8° O	108,8°	00:15	04:57	09:39	26,5°	117,4°	242,6°
133	12 05 2020	00:00	20h 16m 57,9s	-19° 50' 17"	Cap	9,6326	10,020	0,51	17,2	99								

Éphémérides topocentriques de Saturne (suite)

Les temps sont donnés en TU pour Auch (0° 35' 0" E, 43° 38' 0" N, zone A).

	Date	Heure	A. D. (2020,0)	Décl. (2020,0)	Const.	Dist. T.	Dist. S.	Magn.	Diam.	Illum.	Élong.	Sépar.	Lever	Passage	Coucher	Altitude	Azimut	Azimut
	jj mm aaaa	hh:mm	topocentrique	topocentrique		UA	UA	mV	"	%	°	°	hh:mm	hh:mm	hh:mm	max.	lever	coucher
151	30 05 2020	00:00	20h 15m 48,9s	-19° 55' 48"	Cap	9,3695	10,018	0,41	17,7	99,8	127,4° O	127,4°	22:55	03:41	08:23	26,4°	117,5°	242,5°
152	31 05 2020	00:00	20h 15m 41,4s	-19° 56' 18"	Cap	9,3563	10,017	0,40	17,7	99,8	128,4° O	128,4°	22:51	03:37	08:19	26,4°	117,5°	242,5°
153	01 06 2020	00:00	20h 15m 33,6s	-19° 56' 49"	Cap	9,3433	10,017	0,40	17,7	99,8	129,4° O	129,4°	22:47	03:33	08:15	26,4°	117,5°	242,5°
154	02 06 2020	00:00	20h 15m 25,3s	-19° 57' 22"	Cap	9,3305	10,017	0,39	17,7	99,9	130,4° O	130,4°	22:43	03:29	08:10	26,4°	117,5°	242,5°
155	03 06 2020	00:00	20h 15m 16,8s	-19° 57' 55"	Cap	9,3178	10,017	0,38	17,8	99,9	131,3° O	131,3°	22:39	03:25	08:06	26,4°	117,6°	242,4°
156	04 06 2020	00:00	20h 15m 7,8s	-19° 58' 30"	Cap	9,3054	10,017	0,38	17,8	99,9	132,3° O	132,3°	22:35	03:21	08:02	26,4°	117,6°	242,4°
157	05 06 2020	00:00	20h 14m 58,6s	-19° 59' 6"	Cap	9,2932	10,017	0,37	17,8	99,9	133,3° O	133,3°	22:31	03:17	07:58	26,4°	117,6°	242,4°
158	06 06 2020	00:00	20h 14m 48,9s	-19° 59' 43"	Cap	9,2811	10,017	0,36	17,8	99,9	134,3° O	134,3°	22:27	03:12	07:54	26,4°	117,6°	242,4°
159	07 06 2020	00:00	20h 14m 39,0s	-20° 0' 20"	Cap	9,2693	10,017	0,36	17,9	99,9	135,3° O	135,3°	22:23	03:08	07:50	26,3°	117,6°	242,4°
160	08 06 2020	00:00	20h 14m 28,7s	-20° 0' 59"	Cap	9,2576	10,016	0,35	17,9	99,9	136,3° O	136,3°	22:19	03:04	07:46	26,3°	117,6°	242,4°
161	09 06 2020	00:00	20h 14m 18,1s	-20° 1' 39"	Cap	9,2462	10,016	0,34	17,9	99,9	137,3° O	137,3°	22:15	03:00	07:41	26,3°	117,7°	242,4°
162	10 06 2020	00:00	20h 14m 7,1s	-20° 2' 20"	Cap	9,2350	10,016	0,34	17,9	99,9	138,3° O	138,3°	22:11	02:56	07:37	26,3°	117,7°	242,3°
163	11 06 2020	00:00	20h 13m 55,8s	-20° 3' 2"	Cap	9,2239	10,016	0,33	17,9	99,9	139,3° O	139,3°	22:07	02:52	07:33	26,3°	117,7°	242,3°
164	12 06 2020	00:00	20h 13m 44,2s	-20° 3' 45"	Cap	9,2132	10,016	0,33	18,0	99,9	140,3° O	140,3°	22:03	02:48	07:29	26,3°	117,7°	242,3°
165	13 06 2020	00:00	20h 13m 32,3s	-20° 4' 29"	Cap	9,2026	10,016	0,32	18,0	99,9	141,3° O	141,3°	21:58	02:44	07:25	26,3°	117,7°	242,3°
166	14 06 2020	00:00	20h 13m 20,1s	-20° 5' 14"	Cap	9,1922	10,016	0,31	18,0	99,9	142,3° O	142,3°	21:54	02:40	07:21	26,3°	117,7°	242,3°
167	15 06 2020	00:00	20h 13m 7,5s	-20° 6' 0"	Cap	9,1821	10,016	0,31	18,0	99,9	143,3° O	143,3°	21:50	02:35	07:16	26,3°	117,8°	242,2°
168	16 06 2020	00:00	20h 12m 54,7s	-20° 6' 46"	Cap	9,1723	10,015	0,30	18,0	99,9	144,3° O	144,3°	21:46	02:31	07:12	26,2°	117,8°	242,2°
169	17 06 2020	00:00	20h 12m 41,6s	-20° 7' 33"	Cap	9,1626	10,015	0,29	18,1	99,9	145,4° O	145,4°	21:42	02:27	07:08	26,2°	117,8°	242,2°
170	18 06 2020	00:00	20h 12m 28,2s	-20° 8' 22"	Cap	9,1532	10,015	0,29	18,1	99,9	146,4° O	146,4°	21:38	02:23	07:04	26,2°	117,8°	242,2°
171	19 06 2020	00:00	20h 12m 14,5s	-20° 9' 11"	Cap	9,1441	10,015	0,28	18,1	99,9	147,4° O	147,4°	21:34	02:19	06:59	26,2°	117,8°	242,2°
172	20 06 2020	00:00	20h 12m 0,5s	-20° 10' 0"	Cap	9,1352	10,015	0,27	18,1	99,9	148,4° O	148,4°	21:30	02:15	06:55	26,2°	117,9°	242,2°
173	21 06 2020	00:00	20h 11m 51,4s	-20° 10' 51"	Cap	9,1265	10,015	0,27	18,1	99,9	149,4° O	149,4°	21:26	02:10	06:51	26,2°	117,9°	242,1°
174	22 06 2020	00:00	20h 11m 31,8s	-20° 11' 42"	Cap	9,1181	10,015	0,26	18,1	99,9	150,4° O	150,4°	21:22	02:06	06:47	26,2°	117,9°	242,1°
175	23 06 2020	00:00	20h 11m 17,1s	-20° 12' 34"	Cap	9,1100	10,014	0,25	18,2	99,9	151,4° O	151,4°	21:17	02:02	06:43	26,1°	117,9°	242,1°
176	24 06 2020	00:00	20h 11m 2,1s	-20° 13' 27"	Cap	9,1021	10,014	0,25	18,2	99,9	152,4° O	152,4°	21:13	01:58	06:38	26,1°	117,9°	242,1°
177	25 06 2020	00:00	20h 10m 46,9s	-20° 14' 20"	Cap	9,0945	10,014	0,24	18,2	99,9	153,5° O	153,5°	21:09	01:54	06:34	26,1°	118,0°	242,0°
178	26 06 2020	00:00	20h 10m 31,4s	-20° 15' 14"	Cap	9,0871	10,014	0,23	18,2	100,0	154,5° O	154,5°	21:05	01:50	06:30	26,1°	118,0°	242,0°
179	27 06 2020	00:00	20h 10m 15,7s	-20° 16' 8"	Cap	9,0800	10,014	0,23	18,2	100,0	155,5° O	155,5°	21:01	01:45	06:26	26,1°	118,0°	242,0°
180	28 06 2020	00:00	20h 9m 59,8s	-20° 17' 3"	Cap	9,0732	10,014	0,22	18,2	100,0	156,5° O	156,5°	20:57	01:41	06:21	26,1°	118,0°	242,0°
181	29 06 2020	00:00	20h 9m 43,7s	-20° 17' 59"	Cap	9,0667	10,014	0,21	18,2	100,0	157,5° O	157,5°	20:53	01:37	06:17	26,1°	118,1°	242,0°
182	30 06 2020	00:00	20h 9m 27,5s	-20° 18' 55"	Cap	9,0604	10,014	0,21	18,3	100,0	158,5° O	158,5°	20:49	01:33	06:13	26,0°	118,1°	241,9°
183	01 07 2020	00:00	20h 9m 11,0s	-20° 19' 51"	Cap	9,0544	10,013	0,20	18,3	100,0	159,6° O	159,6°	20:44	01:29	06:08	26,0°	118,1°	241,9°
184	02 07 2020	00:00	20h 8m 54,3s	-20° 20' 48"	Cap	9,0487	10,013	0,19	18,3	100,0	160,6° O	160,6°	20:40	01:24	06:04	26,0°	118,1°	241,9°
185	03 07 2020	00:00	20h 8m 37,5s	-20° 21' 45"	Cap	9,0433	10,013	0,19	18,3	100,0	161,6° O	161,6°	20:36	01:20	05:59	26,0°	118,2°	241,9°
186	04 07 2020	00:00	20h 8m 20,5s	-20° 22' 43"	Sgr	9,0381	10,013	0,18	18,3	100,0	162,6° O	162,6°	20:32	01:16	05:56	26,0°	118,2°	241,8°
187	05 07 2020	00:00	20h 8m 3,4s	-20° 23' 41"	Sgr	9,0332	10,013	0,18	18,3	100,0	163,6° O	163,6°	20:28	01:12	05:51	26,0°	118,2°	241,8°
188	06 07 2020	00:00	20h 7m 46,1s	-20° 24' 39"	Sgr	9,0286	10,013	0,17	18,3	100,0	164,7° O	164,7°	20:24	01:08	05:47	25,9°	118,2°	241,8°
189	07 07 2020	00:00	20h 7m 28,6s	-20° 25' 38"	Sgr	9,0243	10,013	0,16	18,3	100,0	165,7° O	165,7°	20:20	01:03	05:43	25,9°	118,2°	241,8°
190	08 07 2020	00:00	20h 7m 11,0s	-20° 26' 37"	Sgr	9,0203	10,013	0,16	18,3	100,0	166,7° O	166,7°	20:15	00:59	05:38	25,9°	118,3°	241,7°
191	09 07 2020	00:00	20h 6m 53,3s	-20° 27' 36"	Sgr	9,0166	10,012	0,15	18,4	100,0	167,7° O	167,7°	20:11	00:55	05:34	25,9°	118,3°	241,7°
192	10 07 2020	00:00	20h 6m 35,5s	-20° 28' 35"	Sgr	9,0131	10,012	0,14	18,4	100,0	168,8° O	168,8°	20:07	00:51	05:30	25,9°	118,3°	241,7°
193	11 07 2020	00:00	20h 6m 17,6s	-20° 29' 35"	Sgr	9,0100	10,012	0,14	18,4	100,0	169,8° O	169,8°	20:03	00:46	05:26	25,9°	118,3°	241,7°
194	12 07 2020	00:00	20h 5m 59,5s	-20° 30' 35"	Sgr	9,0071	10,012	0,13	18,4	100,0	170,8° O	170,8°	19:59	00:42	05:21	25,8°	118,4°	241,6°
195	13 07 2020	00:00	20h 5m 41,4s	-20° 31' 34"	Sgr	9,0046	10,012	0,13	18,4	100,0	171,8° O	171,8°	19:55	00:38	05:17	25,8°	118,4°	241,6°
196	14 07 2020	00:00	20h 5m 23,2s	-20° 32' 34"	Sgr	9,0023	10,012	0,12	18,4	100,0	172,9° O	172,9°	19:51	00:34	05:13	25,8°	118,4°	241,6°
197	15 07 2020	00:00	20h 5m 4,9s	-20° 33' 34"	Sgr	9,0003	10,012	0,11	18,4	100,0	173,9° O	173,9°	19:46	00:29	05:08	25,8°	118,4°	241,6°
198	16 07 2020	00:00	20h 4m 46,6s	-20° 34' 34"	Sgr	8,9986	10,012	0,11	18,4	100,0	174,9° O	174,9°	19:42	00:25	05:04	25,8°	118,5°	241,6°
199	17 07 2020	00:00	20h 4m 28,2s	-20° 35' 34"	Sgr	8,9972	10,011	0,10	18,4	100,0	176,0° O	175,9°	19:38	00:21	04:59	25,8°	118,5°	241,5°
200	18 07 2020	00:00	20h 4m 9,8s	-20° 36' 34"	Sgr	8,9962	10,011	0,10	18,4	100,0	177,0° O	177,0°	19:34	00:17	04:55	25,7°	118,5°	241,5°
201	19 07 2020	00:00	20h 3m 51,3s	-20° 37' 34"	Sgr	8,9954	10,011	0,09	18,4	100,0	178,0° O	178,0°	19:30	00:13	04:51	25,7°	118,5°	241,5°
202	20 07 2020	00:00	20h 3m 32,8s	-20° 38' 33"	Sgr	8,9949	10,011	0,09	18,4	100,0	179,0° O	179,0°	19:26	00:08	04:47	25,7°	118,6°	241,5°
203	21 07 2020	00:00	20h 3m 14,3s	-20° 39' 33"	Sgr	8,9947	10,011	0,08	18,4	100,0	179,9° E	179,8°	19:22	00:04	04:42	25,7°	118,6°	241,4°
204	22 07 2020	00:00	20h 2m 55,8s	-20° 40' 33"	Sgr	8,9948	10,011	0,09	18,4	100,0	178,9° E	178,9°	19:17	23:56		25,7°	118,6°	241,4°
205	23 07 2020	00:00	20h 2m 37,3s	-20° 41' 32"	Sgr	8,9952	10,011	0,09	18,4	100,0	177,9° E	177,9°	19:13	23:51	04:34	25,7°	118,6°	241,4°
206	24 07 2020	00:00	20h 2m 18,8s	-20° 42' 31"	Sgr	8,9960	10,010	0,09	18,4	100,0	176,8° E	176,8°	19:09	23:47	04:29	25,7°	118,7°	241,4°
207	25 07 2020	00:00	20h 2m 0,4s	-20° 43' 30"	Sgr	8,9970	10,010	0,10	1									

Éphémérides topocentriques de Saturne (suite)

Les temps sont donnés en TU pour Auch (0° 35' 0" E, 43° 38' 0" N, zone A).

Date jj mm aaaa	Heure hh:mm	A. D. (2020,0) topocentrique	Décl. (2020,0) topocentrique	Const.	Dist. T. UA	Dist. S. UA	Magn. mV	Diam. "	Illum. %	Élong. °	Sépar. °	Lever hh:mm	Passage hh:mm	Coucher hh:mm	Altitude max.	Azimut lever	Azimut coucher
226	13 08 2020	00:00	19h 56m 26,7s -21° 0' 49"	Sgr	9,0718	10,008	0,19	18,2	100,0	156,3° E	156,3°	17:46	22:23	03:04	25,4°	119,1°	240,9°
227	14 08 2020	00:00	19h 56m 10,7s -21° 1' 38"	Sgr	9,0786	10,008	0,19	18,2	100,0	155,3° E	155,3°	17:42	22:18	02:59	25,3°	119,1°	240,9°
228	15 08 2020	00:00	19h 55m 54,8s -21° 2' 26"	Sgr	9,0856	10,007	0,20	18,2	100,0	154,3° E	154,3°	17:38	22:14	02:55	25,3°	119,1°	240,9°
229	16 08 2020	00:00	19h 55m 39,2s -21° 3' 14"	Sgr	9,0929	10,007	0,21	18,2	99,9	153,2° E	153,2°	17:33	22:10	02:51	25,3°	119,2°	240,8°
230	17 08 2020	00:00	19h 55m 23,8s -21° 4' 1"	Sgr	9,1005	10,007	0,21	18,2	99,9	152,2° E	152,2°	17:29	22:06	02:47	25,3°	119,2°	240,8°
231	18 08 2020	00:00	19h 55m 8,7s -21° 4' 47"	Sgr	9,1083	10,007	0,22	18,2	99,9	151,2° E	151,2°	17:25	22:02	02:42	25,3°	119,2°	240,8°
232	19 08 2020	00:00	19h 54m 53,7s -21° 5' 32"	Sgr	9,1164	10,007	0,22	18,1	99,9	150,2° E	150,2°	17:21	21:57	02:38	25,3°	119,2°	240,8°
233	20 08 2020	00:00	19h 54m 39,1s -21° 6' 16"	Sgr	9,1248	10,007	0,23	18,1	99,9	149,1° E	149,1°	17:17	21:53	02:34	25,3°	119,2°	240,8°
234	21 08 2020	00:00	19h 54m 24,7s -21° 7' 0"	Sgr	9,1334	10,007	0,23	18,1	99,9	148,1° E	148,1°	17:13	21:49	02:30	25,3°	119,3°	240,8°
235	22 08 2020	00:00	19h 54m 10,5s -21° 7' 43"	Sgr	9,1423	10,007	0,24	18,1	99,9	147,1° E	147,1°	17:09	21:45	02:25	25,2°	119,3°	240,7°
236	23 08 2020	00:00	19h 53m 56,7s -21° 8' 24"	Sgr	9,1514	10,006	0,24	18,1	99,9	146,1° E	146,1°	17:05	21:41	02:21	25,2°	119,3°	240,7°
237	24 08 2020	00:00	19h 53m 43,1s -21° 9' 5"	Sgr	9,1607	10,006	0,25	18,1	99,9	145,1° E	145,1°	17:01	21:37	02:17	25,2°	119,3°	240,7°
238	25 08 2020	00:00	19h 53m 29,8s -21° 9' 45"	Sgr	9,1703	10,006	0,25	18,0	99,9	144,0° E	144,0°	16:56	21:33	02:13	25,2°	119,3°	240,7°
239	26 08 2020	00:00	19h 53m 16,8s -21° 10' 25"	Sgr	9,1802	10,006	0,26	18,0	99,9	143,0° E	143,0°	16:52	21:28	02:09	25,2°	119,3°	240,7°
240	27 08 2020	00:00	19h 53m 4,2s -21° 11' 3"	Sgr	9,1903	10,006	0,27	18,0	99,9	142,0° E	142,0°	16:48	21:24	02:04	25,2°	119,4°	240,7°
241	28 08 2020	00:00	19h 52m 51,8s -21° 11' 40"	Sgr	9,2006	10,006	0,27	18,0	99,9	141,0° E	141,0°	16:44	21:20	02:00	25,2°	119,4°	240,6°
242	29 08 2020	00:00	19h 52m 39,7s -21° 12' 16"	Sgr	9,2111	10,006	0,28	18,0	99,9	140,0° E	140,0°	16:40	21:16	01:56	25,2°	119,4°	240,6°
243	30 08 2020	00:00	19h 52m 28,0s -21° 12' 52"	Sgr	9,2219	10,005	0,28	17,9	99,9	139,0° E	139,0°	16:36	21:12	01:52	25,2°	119,4°	240,6°
244	31 08 2020	00:00	19h 52m 16,6s -21° 13' 26"	Sgr	9,2328	10,005	0,29	17,9	99,9	138,0° E	138,0°	16:32	21:08	01:48	25,1°	119,4°	240,6°
245	01 09 2020	00:00	19h 52m 5,5s -21° 14' 0"	Sgr	9,2440	10,005	0,29	17,9	99,9	137,0° E	136,9°	16:28	21:04	01:44	25,1°	119,4°	240,6°
246	02 09 2020	00:00	19h 51m 54,7s -21° 14' 33"	Sgr	9,2554	10,005	0,30	17,9	99,9	135,9° E	135,9°	16:24	20:59	01:39	25,1°	119,4°	240,6°
247	03 09 2020	00:00	19h 51m 44,3s -21° 15' 4"	Sgr	9,2671	10,005	0,30	17,9	99,9	134,9° E	134,9°	16:20	20:55	01:35	25,1°	119,4°	240,6°
248	04 09 2020	00:00	19h 51m 34,2s -21° 15' 35"	Sgr	9,2789	10,005	0,31	17,8	99,9	133,9° E	133,9°	16:16	20:51	01:31	25,1°	119,5°	240,5°
249	05 09 2020	00:00	19h 51m 24,5s -21° 16' 4"	Sgr	9,2909	10,005	0,32	17,8	99,9	132,9° E	132,9°	16:12	20:47	01:27	25,1°	119,5°	240,5°
250	06 09 2020	00:00	19h 51m 15,1s -21° 16' 33"	Sgr	9,3031	10,004	0,32	17,8	99,9	131,9° E	131,9°	16:08	20:43	01:23	25,1°	119,5°	240,5°
251	07 09 2020	00:00	19h 51m 6,1s -21° 17' 0"	Sgr	9,3155	10,004	0,33	17,8	99,9	130,9° E	130,9°	16:04	20:39	01:19	25,1°	119,5°	240,5°
252	08 09 2020	00:00	19h 50m 57,4s -21° 17' 27"	Sgr	9,3282	10,004	0,33	17,7	99,9	129,9° E	129,9°	15:59	20:35	01:15	25,1°	119,5°	240,5°
253	09 09 2020	00:00	19h 50m 49,1s -21° 17' 52"	Sgr	9,3410	10,004	0,34	17,7	99,8	128,9° E	128,9°	15:55	20:31	01:11	25,1°	119,5°	240,5°
254	10 09 2020	00:00	19h 50m 41,2s -21° 18' 17"	Sgr	9,3539	10,004	0,34	17,7	99,8	127,9° E	127,9°	15:51	20:27	01:06	25,1°	119,5°	240,5°
255	11 09 2020	00:00	19h 50m 33,7s -21° 18' 40"	Sgr	9,3671	10,004	0,35	17,7	99,8	126,9° E	126,9°	15:47	20:23	01:02	25,1°	119,5°	240,5°
256	12 09 2020	00:00	19h 50m 26,5s -21° 19' 3"	Sgr	9,3805	10,004	0,35	17,6	99,8	125,9° E	125,9°	15:43	20:19	00:58	25,1°	119,5°	240,5°
257	13 09 2020	00:00	19h 50m 19,8s -21° 19' 24"	Sgr	9,3940	10,003	0,36	17,6	99,8	124,9° E	124,9°	15:39	20:15	00:54	25,0°	119,6°	240,4°
258	14 09 2020	00:00	19h 50m 13,4s -21° 19' 44"	Sgr	9,4076	10,003	0,37	17,6	99,8	123,9° E	123,9°	15:35	20:11	00:50	25,0°	119,6°	240,4°
259	15 09 2020	00:00	19h 50m 7,4s -21° 20' 3"	Sgr	9,4215	10,003	0,37	17,6	99,8	122,9° E	122,9°	15:31	20:07	00:46	25,0°	119,6°	240,4°
260	16 09 2020	00:00	19h 50m 1,8s -21° 20' 22"	Sgr	9,4355	10,003	0,38	17,5	99,8	121,9° E	121,9°	15:27	20:03	00:42	25,0°	119,6°	240,4°
261	17 09 2020	00:00	19h 49m 56,6s -21° 20' 39"	Sgr	9,4496	10,003	0,38	17,5	99,8	120,9° E	120,9°	15:23	19:59	00:38	25,0°	119,6°	240,4°
262	18 09 2020	00:00	19h 49m 51,8s -21° 20' 54"	Sgr	9,4640	10,003	0,39	17,5	99,8	119,9° E	119,9°	15:19	19:55	00:34	25,0°	119,6°	240,4°
263	19 09 2020	00:00	19h 49m 47,4s -21° 21' 9"	Sgr	9,4784	10,003	0,39	17,5	99,8	118,9° E	118,9°	15:15	19:51	00:30	25,0°	119,6°	240,4°
264	20 09 2020	00:00	19h 49m 43,4s -21° 21' 23"	Sgr	9,4930	10,002	0,40	17,4	99,8	117,9° E	117,9°	15:11	19:47	00:26	25,0°	119,6°	240,4°
265	21 09 2020	00:00	19h 49m 39,8s -21° 21' 36"	Sgr	9,5077	10,002	0,40	17,4	99,8	116,9° E	116,9°	15:07	19:43	00:22	25,0°	119,6°	240,4°
266	22 09 2020	00:00	19h 49m 36,6s -21° 21' 47"	Sgr	9,5226	10,002	0,41	17,4	99,8	115,9° E	115,9°	15:04	19:39	00:18	25,0°	119,6°	240,4°
267	23 09 2020	00:00	19h 49m 33,9s -21° 21' 57"	Sgr	9,5376	10,002	0,41	17,3	99,8	114,9° E	114,9°	14:59	19:35	00:14	25,0°	119,6°	240,4°
268	24 09 2020	00:00	19h 49m 31,5s -21° 22' 7"	Sgr	9,5527	10,002	0,42	17,3	99,8	114,0° E	114,0°	14:56	19:31	00:10	25,0°	119,6°	240,4°
269	25 09 2020	00:00	19h 49m 29,6s -21° 22' 15"	Sgr	9,5679	10,002	0,42	17,3	99,8	113,0° E	113,0°	14:52	19:27	00:06	25,0°	119,6°	240,4°
270	26 09 2020	00:00	19h 49m 28,1s -21° 22' 22"	Sgr	9,5832	10,002	0,43	17,3	99,8	112,0° E	112,0°	14:48	19:23	23:58	25,0°	119,6°	240,4°
271	27 09 2020	00:00	19h 49m 27,0s -21° 22' 28"	Sgr	9,5986	10,001	0,43	17,2	99,8	111,0° E	111,0°	14:44	19:19	23:54	25,0°	119,6°	240,4°
272	28 09 2020	00:00	19h 49m 26,4s -21° 22' 33"	Sgr	9,6142	10,001	0,44	17,2	99,8	110,0° E	110,0°	14:40	19:15	23:50	25,0°	119,6°	240,4°
273	29 09 2020	00:00	19h 49m 26,1s -21° 22' 37"	Sgr	9,6298	10,001	0,44	17,2	99,8	109,0° E	109,0°	14:36	19:11	23:46	25,0°	119,6°	240,4°
274	30 09 2020	00:00	19h 49m 26,3s -21° 22' 40"	Sgr	9,6455	10,001	0,45	17,2	99,8	108,0° E	108,0°	14:32	19:07	23:42	25,0°	119,6°	240,4°
275	01 10 2020	00:00	19h 49m 26,9s -21° 22' 41"	Sgr	9,6613	10,001	0,45	17,1	99,8	107,1° E	107,1°	14:28	19:03	23:38	25,0°	119,6°	240,4°
276	02 10 2020	00:00	19h 49m 27,8s -21° 22' 42"	Sgr	9,6772	10,001	0,46	17,1	99,8	106,1° E	106,1°	14:24	18:59	23:34	25,0°	119,6°	240,4°
277	03 10 2020	00:00	19h 49m 29,3s -21° 22' 41"	Sgr	9,6932	10,001	0,46	17,1	99,8	105,1° E	105,1°	14:20	18:55	23:31	25,0°	119,6°	240,4°
278	04 10 2020	00:00	19h 49m 31,1s -21° 22' 39"	Sgr	9,7092	10,000	0,47	17,0	99,8	104,1° E	104,1°	14:16	18:52	23:27	25,0°	119,6°	240,4°
279	05 10 2020	00:00	19h 49m 33,4s -21° 22' 36"	Sgr	9,7253	10,000	0,47	17,0	99,8	103,2° E	103,2°	14:12	18:48	23:23	25,0°	119,6°	240,4°
280	06 10 2020	00:00	19h 49m 36,0s -21° 22' 32"	Sgr	9,7415	10,000	0,48	17,0	99,8	102,2° E	102,2°	14:09	18:44	23:19	25,0°	119,6°	240,4°
281	07 10 2020	00:00	19h 49m 39,1s -21° 22' 27"	Sgr	9,7578	10,000	0,48	17,0	99,8	101,2° E	101,2°	14:05	18:40	23:15	25,0°	119,6°	240,4°
282	08 10 2020	00:00	19h 49m 42,7s -21° 22' 20"	Sgr	9,7740	9,9999	0,48	16,9	99,8	100,2° E	100,2°	14:01	18:36	23:11	25,0°	119,6°	240,4°
283	09 10 2020	00:00	19h 49m 46,6s -21° 22' 13"	Sgr	9,7904	9,9997	0,49	16,9	99,8	99,3° E	99,3°	13:57	18:32	23:07	25,0°	119,6°	240,4°

Éphémérides topocentriques de Saturne (suite)

Les temps sont donnés en TU pour Auch (0° 35' 0" E, 43° 38' 0" N, zone A).

	Date jj mm aaaa	Heure hh:mm	A. D. (2020,0) topocentrique	Décl. (2020,0) topocentrique	Const.	Dist. T. UA	Dist. S. UA	Magn. mV	Diam. "	Illum. %	Élong. °	Sépar. °	Lever hh:mm	Passage hh:mm	Coucher hh:mm	Altitude max.	Azimut lever	Azimut coucher
301	27 10 2020	00:00	19h 52m 8,1s	-21° 16' 50"	Sgr	10,088	9,9971	0,56	16,4	99,8	81,9° E	81,9°	12:48	17:24	21:59	25,1°	119,5°	240,5°
302	28 10 2020	00:00	19h 52m 19,8s	-21° 16' 22"	Sgr	10,104	9,9970	0,56	16,4	99,8	81,0° E	81,0°	12:44	17:20	21:56	25,1°	119,5°	240,5°
303	29 10 2020	00:00	19h 52m 31,8s	-21° 15' 52"	Sgr	10,121	9,9968	0,56	16,3	99,8	80,0° E	80,0°	12:41	17:16	21:52	25,1°	119,5°	240,6°
304	30 10 2020	00:00	19h 52m 44,2s	-21° 15' 22"	Sgr	10,137	9,9967	0,57	16,3	99,8	79,1° E	79,1°	12:37	17:13	21:48	25,1°	119,4°	240,6°
305	31 10 2020	00:00	19h 52m 57,0s	-21° 14' 50"	Sgr	10,153	9,9965	0,57	16,3	99,8	78,1° E	78,1°	12:33	17:09	21:45	25,1°	119,4°	240,6°
306	01 11 2020	00:00	19h 53m 10,2s	-21° 14' 17"	Sgr	10,169	9,9964	0,57	16,3	99,8	77,2° E	77,2°	12:29	17:05	21:41	25,1°	119,4°	240,6°
307	02 11 2020	00:00	19h 53m 23,8s	-21° 13' 43"	Sgr	10,186	9,9962	0,57	16,2	99,8	76,2° E	76,2°	12:26	17:01	21:37	25,1°	119,4°	240,6°
308	03 11 2020	00:00	19h 53m 37,7s	-21° 13' 8"	Sgr	10,202	9,9961	0,58	16,2	99,8	75,3° E	75,3°	12:22	16:58	21:34	25,2°	119,4°	240,6°
309	04 11 2020	00:00	19h 53m 52,0s	-21° 12' 32"	Sgr	10,218	9,9959	0,58	16,2	99,8	74,4° E	74,4°	12:18	16:54	21:30	25,2°	119,4°	240,6°
310	05 11 2020	00:00	19h 54m 6,6s	-21° 11' 55"	Sgr	10,234	9,9958	0,58	16,2	99,8	73,4° E	73,4°	12:14	16:50	21:27	25,2°	119,4°	240,7°
311	06 11 2020	00:00	19h 54m 21,6s	-21° 11' 17"	Sgr	10,249	9,9956	0,58	16,1	99,8	72,5° E	72,5°	12:11	16:47	21:23	25,2°	119,3°	240,7°
312	07 11 2020	00:00	19h 54m 37,0s	-21° 10' 38"	Sgr	10,265	9,9955	0,59	16,1	99,8	71,5° E	71,5°	12:07	16:43	21:19	25,2°	119,3°	240,7°
313	08 11 2020	00:00	19h 54m 52,7s	-21° 9' 58"	Sgr	10,281	9,9953	0,59	16,1	99,8	70,6° E	70,6°	12:03	16:39	21:16	25,2°	119,3°	240,7°
314	09 11 2020	00:00	19h 55m 8,8s	-21° 9' 17"	Sgr	10,297	9,9952	0,59	16,1	99,8	69,6° E	69,6°	11:59	16:36	21:12	25,2°	119,3°	240,7°
315	10 11 2020	00:00	19h 55m 25,2s	-21° 8' 35"	Sgr	10,312	9,9950	0,59	16,0	99,8	68,7° E	68,7°	11:56	16:32	21:08	25,2°	119,3°	240,7°
316	11 11 2020	00:00	19h 55m 42,0s	-21° 7' 52"	Sgr	10,327	9,9949	0,60	16,0	99,8	67,8° E	67,8°	11:52	16:28	21:05	25,2°	119,3°	240,8°
317	12 11 2020	00:00	19h 55m 59,0s	-21° 7' 7"	Sgr	10,343	9,9947	0,60	16,0	99,8	66,8° E	66,8°	11:48	16:25	21:01	25,3°	119,2°	240,8°
318	13 11 2020	00:00	19h 56m 16,5s	-21° 6' 22"	Sgr	10,358	9,9946	0,60	16,0	99,8	65,9° E	65,9°	11:45	16:21	20:58	25,3°	119,2°	240,8°
319	14 11 2020	00:00	19h 56m 34,2s	-21° 5' 35"	Sgr	10,373	9,9944	0,60	16,0	99,8	65,0° E	65,0°	11:41	16:18	20:54	25,3°	119,2°	240,8°
320	15 11 2020	00:00	19h 56m 52,3s	-21° 4' 48"	Sgr	10,388	9,9943	0,60	15,9	99,8	64,0° E	64,0°	11:37	16:14	20:51	25,3°	119,2°	240,8°
321	16 11 2020	00:00	19h 57m 10,8s	-21° 3' 59"	Sgr	10,403	9,9941	0,60	15,9	99,8	63,1° E	63,1°	11:34	16:10	20:47	25,3°	119,2°	240,8°
322	17 11 2020	00:00	19h 57m 29,5s	-21° 3' 10"	Sgr	10,418	9,9940	0,61	15,9	99,8	62,1° E	62,1°	11:30	16:07	20:43	25,3°	119,1°	240,9°
323	18 11 2020	00:00	19h 57m 48,6s	-21° 2' 19"	Sgr	10,432	9,9938	0,61	15,9	99,8	61,2° E	61,2°	11:26	16:03	20:40	25,3°	119,1°	240,9°
324	19 11 2020	00:00	19h 58m 7,9s	-21° 1' 28"	Sgr	10,447	9,9937	0,61	15,8	99,8	60,3° E	60,3°	11:23	15:59	20:36	25,4°	119,1°	240,9°
325	20 11 2020	00:00	19h 58m 27,6s	-21° 0' 35"	Sgr	10,461	9,9935	0,61	15,8	99,8	59,4° E	59,4°	11:19	15:56	20:33	25,4°	119,1°	240,9°
326	21 11 2020	00:00	19h 58m 47,6s	-20° 59' 42"	Sgr	10,475	9,9934	0,61	15,8	99,8	58,4° E	58,4°	11:15	15:52	20:29	25,4°	119,1°	241,0°
327	22 11 2020	00:00	19h 59m 7,9s	-20° 58' 48"	Sgr	10,489	9,9932	0,61	15,8	99,8	57,5° E	57,5°	11:12	15:49	20:26	25,4°	119,0°	241,0°
328	23 11 2020	00:00	19h 59m 28,5s	-20° 57' 52"	Sgr	10,503	9,9931	0,61	15,8	99,8	56,6° E	56,6°	11:08	15:45	20:22	25,4°	119,0°	241,0°
329	24 11 2020	00:00	19h 59m 49,3s	-20° 56' 56"	Sgr	10,517	9,9929	0,62	15,7	99,8	55,6° E	55,6°	11:04	15:41	20:19	25,4°	119,0°	241,0°
330	25 11 2020	00:00	20h 0m 10,4s	-20° 55' 58"	Sgr	10,531	9,9928	0,62	15,7	99,8	54,7° E	54,7°	11:01	15:38	20:15	25,4°	119,0°	241,0°
331	26 11 2020	00:00	20h 0m 31,9s	-20° 55' 0"	Sgr	10,544	9,9926	0,62	15,7	99,8	53,8° E	53,8°	10:57	15:34	20:12	25,5°	118,9°	241,1°
332	27 11 2020	00:00	20h 0m 53,5s	-20° 54' 1"	Sgr	10,557	9,9925	0,62	15,7	99,8	52,9° E	52,9°	10:53	15:31	20:08	25,5°	118,9°	241,1°
333	28 11 2020	00:00	20h 1m 15,5s	-20° 53' 0"	Sgr	10,570	9,9923	0,62	15,7	99,8	51,9° E	51,9°	10:50	15:27	20:05	25,5°	118,9°	241,1°
334	29 11 2020	00:00	20h 1m 37,7s	-20° 51' 59"	Sgr	10,583	9,9922	0,62	15,6	99,9	51,0° E	51,0°	10:46	15:24	20:01	25,5°	118,9°	241,1°
335	30 11 2020	00:00	20h 2m 0,2s	-20° 50' 57"	Sgr	10,596	9,9920	0,62	15,6	99,9	50,1° E	50,1°	10:42	15:20	19:58	25,5°	118,8°	241,2°
336	01 12 2020	00:00	20h 2m 23,0s	-20° 49' 54"	Sgr	10,609	9,9919	0,62	15,6	99,9	49,2° E	49,2°	10:39	15:17	19:54	25,5°	118,8°	241,2°
337	02 12 2020	00:00	20h 2m 46,0s	-20° 48' 50"	Sgr	10,621	9,9917	0,62	15,6	99,9	48,2° E	48,2°	10:35	15:13	19:51	25,6°	118,8°	241,2°
338	03 12 2020	00:00	20h 3m 9,2s	-20° 47' 45"	Sgr	10,634	9,9915	0,62	15,6	99,9	47,3° E	47,3°	10:31	15:09	19:47	25,6°	118,8°	241,3°
339	04 12 2020	00:00	20h 3m 32,7s	-20° 46' 39"	Sgr	10,646	9,9914	0,62	15,5	99,9	46,4° E	46,4°	10:28	15:06	19:44	25,6°	118,7°	241,3°
340	05 12 2020	00:00	20h 3m 56,5s	-20° 45' 33"	Sgr	10,658	9,9912	0,62	15,5	99,9	45,5° E	45,5°	10:24	15:02	19:41	25,6°	118,7°	241,3°
341	06 12 2020	00:00	20h 4m 20,4s	-20° 44' 25"	Sgr	10,669	9,9911	0,62	15,5	99,9	44,6° E	44,6°	10:21	14:59	19:37	25,6°	118,7°	241,3°
342	07 12 2020	00:00	20h 4m 44,6s	-20° 43' 17"	Sgr	10,681	9,9909	0,62	15,5	99,9	43,6° E	43,6°	10:17	14:55	19:34	25,7°	118,6°	241,4°
343	08 12 2020	00:00	20h 5m 9,0s	-20° 42' 7"	Sgr	10,692	9,9908	0,62	15,5	99,9	42,7° E	42,7°	10:13	14:52	19:30	25,7°	118,6°	241,4°
344	09 12 2020	00:00	20h 5m 33,7s	-20° 40' 57"	Sgr	10,703	9,9906	0,62	15,5	99,9	41,8° E	41,8°	10:10	14:48	19:27	25,7°	118,6°	241,4°
345	10 12 2020	00:00	20h 5m 58,5s	-20° 39' 46"	Sgr	10,714	9,9905	0,62	15,4	99,9	40,9° E	40,9°	10:06	14:45	19:23	25,7°	118,6°	241,5°
346	11 12 2020	00:00	20h 6m 23,6s	-20° 38' 34"	Sgr	10,725	9,9903	0,62	15,4	99,9	40,0° E	40,0°	10:03	14:41	19:20	25,7°	118,5°	241,5°
347	12 12 2020	00:00	20h 6m 48,9s	-20° 37' 21"	Sgr	10,736	9,9902	0,62	15,4	99,9	39,0° E	39,1°	09:59	14:38	19:17	25,8°	118,5°	241,5°
348	13 12 2020	00:00	20h 7m 14,4s	-20° 36' 8"	Sgr	10,746	9,9900	0,62	15,4	99,9	38,1° E	38,1°	09:55	14:34	19:13	25,8°	118,5°	241,5°
349	14 12 2020	00:00	20h 7m 40,1s	-20° 34' 53"	Sgr	10,756	9,9898	0,62	15,4	99,9	37,2° E	37,2°	09:52	14:31	19:10	25,8°	118,4°	241,6°
350	15 12 2020	00:00	20h 8m 6,0s	-20° 33' 38"	Sgr	10,766	9,9897	0,62	15,4	99,9	36,3° E	36,3°	09:48	14:27	19:06	25,8°	118,4°	241,6°
351	16 12 2020	00:00	20h 8m 32,0s	-20° 32' 22"	Sgr	10,776	9,9895	0,62	15,4	99,9	35,4° E	35,4°	09:45	14:24	19:03	25,8°	118,4°	241,6°
352	17 12 2020	00:00	20h 8m 58,3s	-20° 31' 5"	Cap	10,785	9,9894	0,62	15,3	99,9	34,5° E	34,5°	09:41	14:20	18:59	25,9°	118,3°	241,7°
353	18 12 2020	00:00	20h 9m 24,7s	-20° 29' 47"	Cap	10,794	9,9892	0,62	15,3	99,9	33,6° E	33,6°	09:37	14:17	18:56	25,9°	118,3°	241,7°
354	19 12 2020	00:00	20h 9m 51,3s	-20° 28' 29"	Cap	10,803	9,9891	0,62	15,3	99,9	32,7° E	32,7°	09:34	14:13	18:53	25,9°	118,3°	241,7°
355	20 12 2020	00:00	20h 10m 18,1s	-20° 27' 10"	Cap	10,812	9,9889	0,62	15,3	99,9	31,7° E	31,7°	09:30	14:10	18:49	25,9°	118,3°	241,8°
356	21 12 2020	00:00	20h 10m 45,0s	-20° 25' 50"	Cap	10,821	9,9888	0,62	15,3	99,9	30,8° E	30,8°	09:27	14:06	18:46	25,9°	118,2°	241,8°
357	22 12 2020	00:00	20h 11m 12,1s	-20° 24' 29"	Cap	10,829	9,9886	0,62	15,3	99,9	29,9° E	29,9°	09:23	14:03	18:43	26,0°	118,2°	241,8°
358	23 12 2020	00:00	20h 11m 39,4s	-20° 23' 8"	Cap	10,837	9,9884											