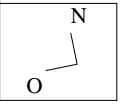


4	●	8	●
5	●	9	●
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7	●	11	●



21h31m06.1s J2000.0
 -12 30' 41" Cap
 1 Okt 2019 0:00:00
 Bahn von (39) Laetitia

Ephemeride des Kleinplaneten (39) Laetitia

Datum	RA	Deklination	r	delta	mag	Elong	Phase	Höhe	Az.	Gesch.	PA	Stb
1 Jul 2019	21h59m51.98s	-05 34' 17.3"	2.5684	1.8114	10.3	128.3	18.1	24.28	138.24	3.15	162.6	Aqr
2 Jul 2019	21h59m53.90s	-05 35' 33.9"	2.5675	1.8007	10.3	129.2	17.9	24.66	139.23	3.47	179.4	Aqr
3 Jul 2019	21h59m54.38s	-05 37' 01.7"	2.5665	1.7901	10.2	130.2	17.6	25.03	140.23	4.04	192.4	Aqr
4 Jul 2019	21h59m53.41s	-05 38' 40.9"	2.5656	1.7797	10.2	131.1	17.4	25.39	141.24	4.76	201.9	Aqr
5 Jul 2019	21h59m51.01s	-05 40' 31.5"	2.5647	1.7695	10.2	132.1	17.1	25.74	142.27	5.58	208.7	Aqr
6 Jul 2019	21h59m47.16s	-05 42' 33.7"	2.5637	1.7594	10.2	133.1	16.8	26.08	143.31	6.46	213.7	Aqr
7 Jul 2019	21h59m41.89s	-05 44' 47.4"	2.5628	1.7494	10.1	134.1	16.6	26.42	144.37	7.38	217.5	Aqr
8 Jul 2019	21h59m35.17s	-05 47' 12.7"	2.5619	1.7396	10.1	135.0	16.3	26.74	145.44	8.32	220.3	Aqr
9 Jul 2019	21h59m27.04s	-05 49' 49.8"	2.5610	1.7300	10.1	136.0	16.0	27.05	146.52	9.28	222.6	Aqr
10 Jul 2019	21h59m17.48s	-05 52' 38.5"	2.5601	1.7205	10.1	137.0	15.7	27.35	147.62	10.24	224.4	Aqr
11 Jul 2019	21h59m06.50s	-05 55' 38.9"	2.5591	1.7112	10.1	138.0	15.4	27.64	148.73	11.22	225.9	Aqr
12 Jul 2019	21h58m54.12s	-05 58' 51.1"	2.5582	1.7021	10.0	139.1	15.1	27.91	149.85	12.19	227.2	Aqr
13 Jul 2019	21h58m40.34s	-06 02' 15.1"	2.5573	1.6931	10.0	140.1	14.8	28.17	150.99	13.17	228.2	Aqr
14 Jul 2019	21h58m25.16s	-06 05' 50.8"	2.5564	1.6843	10.0	141.1	14.5	28.43	152.15	14.14	229.1	Aqr
15 Jul 2019	21h58m08.61s	-06 09' 38.2"	2.5555	1.6758	10.0	142.1	14.1	28.66	153.31	15.12	229.8	Aqr
16 Jul 2019	21h57m50.68s	-06 13' 37.3"	2.5546	1.6674	9.9	143.2	13.8	28.89	154.49	16.08	230.5	Aqr
17 Jul 2019	21h57m31.39s	-06 17' 48.1"	2.5537	1.6591	9.9	144.2	13.5	29.10	155.68	17.05	231.0	Aqr
18 Jul 2019	21h57m10.75s	-06 22' 10.5"	2.5528	1.6511	9.9	145.3	13.1	29.29	156.88	18.00	231.5	Aqr
19 Jul 2019	21h56m48.78s	-06 26' 44.5"	2.5519	1.6433	9.9	146.3	12.8	29.47	158.10	18.95	231.9	Aqr
20 Jul 2019	21h56m25.49s	-06 31' 30.0"	2.5510	1.6357	9.8	147.4	12.4	29.64	159.32	19.89	232.3	Aqr
21 Jul 2019	21h56m00.90s	-06 36' 26.9"	2.5502	1.6283	9.8	148.4	12.0	29.79	160.56	20.82	232.6	Aqr
22 Jul 2019	21h55m35.02s	-06 41' 35.1"	2.5493	1.6210	9.8	149.5	11.7	29.92	161.80	21.73	232.9	Aqr
23 Jul 2019	21h55m07.89s	-06 46' 54.6"	2.5484	1.6140	9.8	150.6	11.3	30.04	163.06	22.63	233.2	Aqr
24 Jul 2019	21h54m39.52s	-06 52' 25.1"	2.5475	1.6072	9.7	151.7	10.9	30.14	164.33	23.51	233.4	Aqr
25 Jul 2019	21h54m09.94s	-06 58' 06.6"	2.5467	1.6007	9.7	152.8	10.5	30.22	165.60	24.38	233.6	Aqr
26 Jul 2019	21h53m39.18s	-07 03' 58.8"	2.5458	1.5943	9.7	153.9	10.1	30.29	166.88	25.23	233.8	Aqr
27 Jul 2019	21h53m07.26s	-07 10' 01.6"	2.5449	1.5882	9.7	154.9	9.7	30.34	168.17	26.05	233.9	Aqr
28 Jul 2019	21h52m34.22s	-07 16' 14.8"	2.5441	1.5823	9.6	156.1	9.3	30.37	169.47	26.86	234.0	Aqr
29 Jul 2019	21h52m00.09s	-07 22' 38.2"	2.5432	1.5766	9.6	157.2	8.9	30.38	170.77	27.64	234.1	Aqr
30 Jul 2019	21h51m24.92s	-07 29' 11.6"	2.5424	1.5712	9.6	158.3	8.5	30.38	172.08	28.39	234.2	Aqr
31 Jul 2019	21h50m48.74s	-07 35' 54.6"	2.5415	1.5660	9.6	159.4	8.1	30.35	173.39	29.11	234.3	Aqr
1 Aug 2019	21h50m11.59s	-07 42' 47.0"	2.5407	1.5611	9.5	160.5	7.7	30.31	174.71	29.80	234.3	Aqr
2 Aug 2019	21h49m33.52s	-07 49' 48.5"	2.5398	1.5564	9.5	161.6	7.2	30.25	176.03	30.47	234.4	Aqr
3 Aug 2019	21h48m54.59s	-07 56' 58.8"	2.5390	1.5519	9.5	162.7	6.8	30.17	177.35	31.09	234.4	Aqr
4 Aug 2019	21h48m14.84s	-08 04' 17.5"	2.5382	1.5477	9.5	163.8	6.4	30.07	178.67	31.68	234.4	Aqr
5 Aug 2019	21h47m34.32s	-08 11' 44.2"	2.5373	1.5438	9.4	165.0	6.0	29.96	179.99	32.24	234.4	Aqr
6 Aug 2019	21h46m53.08s	-08 19' 18.6"	2.5365	1.5401	9.4	166.1	5.5	29.82	181.31	32.76	234.4	Aqr
7 Aug 2019	21h46m11.19s	-08 27' 00.4"	2.5357	1.5366	9.4	167.2	5.1	29.67	182.63	33.24	234.4	Cap
8 Aug 2019	21h45m28.69s	-08 34' 49.0"	2.5348	1.5334	9.4	168.3	4.7	29.50	183.94	33.68	234.3	Cap
9 Aug 2019	21h44m45.64s	-08 42' 44.2"	2.5340	1.5305	9.3	169.4	4.2	29.31	185.25	34.08	234.3	Cap
10 Aug 2019	21h44m02.09s	-08 50' 45.4"	2.5332	1.5278	9.3	170.5	3.8	29.10	186.56	34.45	234.2	Cap
11 Aug 2019	21h43m18.11s	-08 58' 52.2"	2.5324	1.5254	9.3	171.5	3.4	28.88	187.87	34.77	234.1	Cap
12 Aug 2019	21h42m33.74s	-09 07' 04.3"	2.5316	1.5233	9.2	172.5	3.0	28.63	189.17	35.06	234.1	Cap
13 Aug 2019	21h41m49.04s	-09 15' 21.2"	2.5308	1.5214	9.2	173.5	2.6	28.37	190.46	35.30	234.0	Cap
14 Aug 2019	21h41m04.07s	-09 23' 42.5"	2.5300	1.5198	9.2	174.4	2.2	28.10	191.74	35.51	233.9	Cap
15 Aug 2019	21h40m18.89s	-09 32' 07.7"	2.5292	1.5184	9.2	175.1	1.9	27.80	193.02	35.68	233.8	Cap
16 Aug 2019	21h39m33.56s	-09 40' 36.3"	2.5284	1.5174	9.1	175.7	1.7	27.49	194.29	35.80	233.7	Cap
17 Aug 2019	21h38m48.13s	-09 49' 07.9"	2.5276	1.5165	9.1	176.0	1.6	27.16	195.55	35.88	233.6	Cap
18 Aug 2019	21h38m02.67s	-09 57' 42.1"	2.5268	1.5160	9.1	175.9	1.6	26.82	196.80	35.92	233.4	Cap
19 Aug 2019	21h37m17.23s	-10 06' 18.3"	2.5261	1.5157	9.1	175.6	1.8	26.46	198.04	35.92	233.3	Cap
20 Aug 2019	21h36m31.88s	-10 14' 56.2"	2.5253	1.5157	9.2	174.9	2.0	26.09	199.28	35.88	233.1	Cap
21 Aug 2019	21h35m46.67s	-10 23' 35.2"	2.5245	1.5159	9.2	174.1	2.4	25.70	200.50	35.80	232.9	Cap
22 Aug 2019	21h35m01.68s	-10 32' 15.0"	2.5237	1.5164	9.2	173.2	2.7	25.30	201.71	35.67	232.8	Cap
23 Aug 2019	21h34m16.95s	-10 40' 54.9"	2.5230	1.5172	9.2	172.2	3.1	24.89	202.90	35.50	232.6	Cap
24 Aug 2019	21h33m32.56s	-10 49' 34.6"	2.5222	1.5182	9.3	171.2	3.5	24.46	204.09	35.29	232.4	Cap
25 Aug 2019	21h32m48.56s	-10 58' 13.6"	2.5215	1.5195	9.3	170.1	4.0	24.02	205.26	35.04	232.1	Cap
26 Aug 2019	21h32m05.01s	-11 06' 51.4"	2.5207	1.5211	9.3	169.0	4.4	23.57	206.42	34.75	231.9	Cap
27 Aug 2019	21h31m21.98s	-11 15' 27.6"	2.5200	1.5229	9.3	167.9	4.8	23.10	207.57	34.41	231.6	Cap
28 Aug 2019	21h30m39.54s	-11 24' 01.8"	2.5192	1.5250	9.4	166.8	5.3	22.63	208.71	34.04	231.3	Cap
29 Aug 2019	21h29m57.73s	-11 32' 33.4"	2.5185	1.5273	9.4	165.7	5.7	22.14	209.83	33.62	231.0	Cap
30 Aug 2019	21h29m16.63s	-11 41' 02.0"	2.5177	1.5299	9.4	164.5	6.1	21.65	210.94	33.16	230.7	Cap
31 Aug 2019	21h28m36.30s	-11 49' 27.2"	2.5170	1.5328	9.4	163.4	6.6	21.15	212.04	32.67	230.3	Cap
1 Sep 2019	21h27m56.79s	-11 57' 48.5"	2.5163	1.5359	9.5	162.3	7.0	20.63	213.12	32.13	229.9	Cap
2 Sep 2019	21h27m18.17s	-12 06' 05.5"	2.5156	1.5393	9.5	161.1	7.5	20.11	214.19	31.56	229.5	Cap
3 Sep 2019	21h26m40.48s	-12 14' 17.9"	2.5148	1.5429	9.5	160.0	7.9	19.58	215.24	30.96	229.1	Aqr
4 Sep 2019	21h26m03.79s	-12 22' 25.2"	2.5141	1.5468	9.5	158.9	8.3	19.05	216.29	30.33	228.6	Aqr
5 Sep 2019	21h25m28.13s	-12 30' 27.0"	2.5134	1.5509	9.5	157.7	8.7	18.50	217.32	29.67	228.1	Aqr
6 Sep 2019	21h24m53.57s	-12 38' 23.0"	2.5127	1.5553	9.6	156.6	9.2	17.95	218.33	28.98	227.5	Aqr
7 Sep 2019	21h24m20.13s	-12 46' 12.9"	2.5120	1.5599	9.6	155.5	9.6	17.40	219.34	28.26	226.9	Aqr
8 Sep 2019	21h23m47.86s	-12 53' 56.3"	2.5113	1.5647	9.6	154.4	10.0	16.84	220.33	27.52	226.3	Aqr
9 Sep 2019	21h23m16.81s	-13 01' 33.0"	2.5106	1.5698	9.6	153.2	10.4	16.27	221.30	26.76	225.6	Aqr
10 Sep 2019	21h22m47.00s	-13 09' 02.6"	2.5099	1.5750	9.7	152.1	10.8	15.71	222.27	25.98	224.8	Aqr
11 Sep 2019	21h22m18.48s	-13 16' 24.9"	2.5092	1.5806	9.7	151.0	11.2	15.13	223.22	25.19	224.0	Aqr
12 Sep 2019	21h21m51.28s	-13 23' 39.5"	2.5085	1.5863	9.7	149.9	11.6	14.56	224.16	24.38	223.2	Aqr

Ephemeride des Kleinplaneten (39) Laetitia

Datum	RA	Deklination	r	delta	mag	Elong	Phase	Höhe	Az.	Gesch.	PA	Stb
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13 Sep 2019	21h21m25.43s	-13 30' 46.4"	2.5079	1.5922	9.7	148.8	12.0	13.98	225.09	23.55	222.2	Aqr
14 Sep 2019	21h21m00.95s	-13 37' 45.2"	2.5072	1.5984	9.8	147.7	12.4	13.39	226.01	22.72	221.2	Aqr
15 Sep 2019	21h20m37.88s	-13 44' 35.8"	2.5065	1.6048	9.8	146.6	12.8	12.81	226.91	21.88	220.0	Aqr
16 Sep 2019	21h20m16.24s	-13 51' 17.9"	2.5059	1.6114	9.8	145.5	13.1	12.22	227.80	21.03	218.8	Aqr
17 Sep 2019	21h19m56.05s	-13 57' 51.3"	2.5052	1.6181	9.8	144.4	13.5	11.63	228.69	20.18	217.4	Aqr
18 Sep 2019	21h19m37.35s	-14 04' 15.9"	2.5045	1.6251	9.8	143.4	13.9	11.04	229.56	19.32	215.9	Aqr
19 Sep 2019	21h19m20.14s	-14 10' 31.5"	2.5039	1.6323	9.9	142.3	14.2	10.45	230.42	18.47	214.2	Aqr
20 Sep 2019	21h19m04.46s	-14 16' 38.0"	2.5032	1.6397	9.9	141.2	14.6	9.86	231.27	17.63	212.4	Aqr
21 Sep 2019	21h18m50.31s	-14 22' 35.2"	2.5026	1.6473	9.9	140.2	14.9	9.27	232.11	16.80	210.4	Aqr
22 Sep 2019	21h18m37.72s	-14 28' 23.0"	2.5019	1.6550	9.9	139.1	15.2	8.68	232.93	15.98	208.1	Aqr
23 Sep 2019	21h18m26.69s	-14 34' 01.2"	2.5013	1.6629	9.9	138.1	15.6	8.09	233.75	15.18	205.6	Cap
24 Sep 2019	21h18m17.26s	-14 39' 29.8"	2.5007	1.6711	10.0	137.0	15.9	7.50	234.56	14.41	202.8	Cap
25 Sep 2019	21h18m09.42s	-14 44' 48.6"	2.5001	1.6794	10.0	136.0	16.2	6.91	235.36	13.67	199.6	Cap
26 Sep 2019	21h18m03.20s	-14 49' 57.6"	2.4994	1.6878	10.0	135.0	16.5	6.32	236.16	12.97	196.1	Cap
27 Sep 2019	21h17m58.60s	-14 54' 56.6"	2.4988	1.6965	10.0	133.9	16.8	5.73	236.94	12.32	192.1	Cap
28 Sep 2019	21h17m55.63s	-14 59' 45.6"	2.4982	1.7053	10.1	132.9	17.1	5.15	237.71	11.73	187.8	Cap
29 Sep 2019	21h17m54.30s	-15 04' 24.5"	2.4976	1.7142	10.1	131.9	17.4	4.56	238.48	11.22	183.0	Cap
30 Sep 2019	21h17m54.62s	-15 08' 53.3"	2.4970	1.7233	10.1	130.9	17.6	3.98	239.24	10.78	177.7	Cap
1 Okt 2019	21h17m56.59s	-15 13' 11.9"	2.4964	1.7326	10.1	129.9	17.9	3.40	239.99	10.45	172.1	Cap