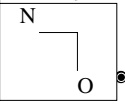
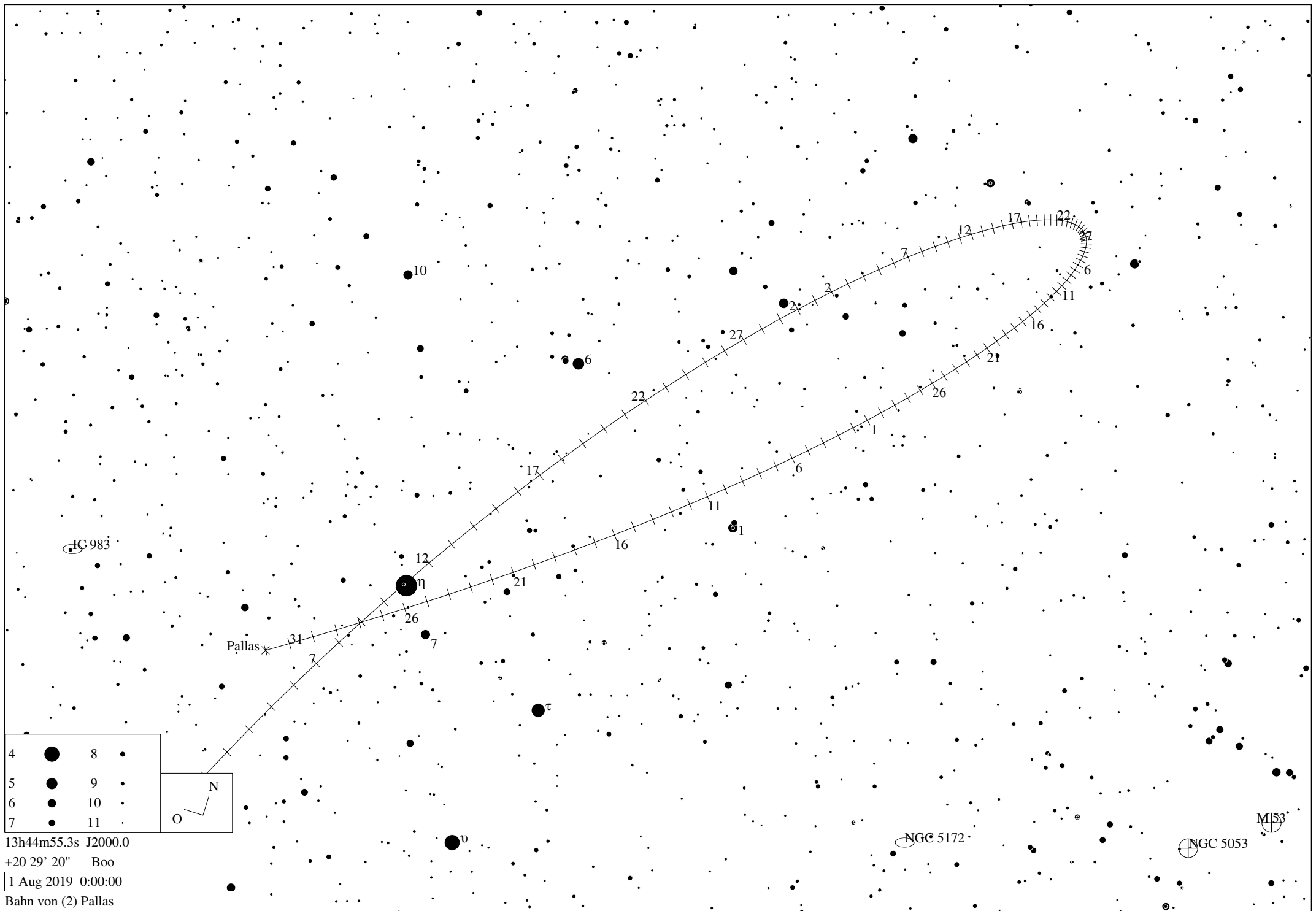


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Ephemeride des Kleinplaneten (2) Pallas

Datum	RA	Deklination	r	delta	mag	Elong	Phase	Höhe	Az.	Gesch.	PA	Stb
1 Feb 2019	13h57m17.27s	-02 08' 30.5"	2.3788	1.9495	8.6	103.4	23.8	13.41	111.68	42.32	47.2	Vir
2 Feb 2019	13h58m06.99s	-01 56' 51.7"	2.3810	1.9389	8.6	104.2	23.7	14.01	112.22	42.21	45.7	Vir
3 Feb 2019	13h58m55.37s	-01 44' 55.9"	2.3832	1.9284	8.6	105.1	23.5	14.62	112.77	42.11	44.2	Vir
4 Feb 2019	13h59m42.39s	-01 32' 43.1"	2.3854	1.9179	8.6	106.0	23.4	15.24	113.32	42.03	42.7	Vir
5 Feb 2019	14h00m28.03s	-01 20' 13.3"	2.3876	1.9076	8.6	106.8	23.3	15.86	113.88	41.97	41.2	Vir
6 Feb 2019	14h01m12.28s	-01 07' 26.5"	2.3898	1.8973	8.6	107.7	23.1	16.49	114.45	41.94	39.6	Vir
7 Feb 2019	14h01m55.12s	-00 54' 22.7"	2.3920	1.8871	8.6	108.6	23.0	17.12	115.02	41.93	38.1	Vir
8 Feb 2019	14h02m36.52s	-00 41' 01.8"	2.3942	1.8770	8.5	109.5	22.9	17.76	115.59	41.95	36.5	Vir
9 Feb 2019	14h03m16.48s	-00 27' 23.9"	2.3964	1.8670	8.5	110.4	22.7	18.40	116.18	41.99	34.9	Vir
10 Feb 2019	14h03m54.96s	-00 13' 29.1"	2.3986	1.8571	8.5	111.3	22.5	19.05	116.77	42.05	33.3	Vir
11 Feb 2019	14h04m31.97s	+00 00' 42.5"	2.4009	1.8474	8.5	112.2	22.4	19.71	117.37	42.14	31.7	Vir
12 Feb 2019	14h05m07.48s	+00 15' 11.0"	2.4031	1.8377	8.5	113.1	22.2	20.37	117.98	42.25	30.1	Vir
13 Feb 2019	14h05m41.48s	+00 29' 56.2"	2.4054	1.8282	8.5	114.0	22.0	21.03	118.59	42.39	28.5	Vir
14 Feb 2019	14h06m13.95s	+00 44' 58.0"	2.4076	1.8187	8.4	114.9	21.8	21.70	119.22	42.55	26.9	Vir
15 Feb 2019	14h06m44.88s	+01 00' 16.3"	2.4099	1.8094	8.4	115.8	21.6	22.38	119.85	42.73	25.3	Vir
16 Feb 2019	14h07m14.26s	+01 15' 50.9"	2.4121	1.8003	8.4	116.8	21.4	23.06	120.49	42.94	23.7	Vir
17 Feb 2019	14h07m42.07s	+01 31' 41.7"	2.4144	1.7912	8.4	117.7	21.2	23.74	121.14	43.17	22.2	Vir
18 Feb 2019	14h08m08.30s	+01 47' 48.5"	2.4166	1.7824	8.4	118.6	21.0	24.43	121.80	43.42	20.6	Vir
19 Feb 2019	14h08m32.93s	+02 04' 11.1"	2.4189	1.7736	8.4	119.5	20.8	25.12	122.47	43.70	19.1	Vir
20 Feb 2019	14h08m55.95s	+02 20' 49.2"	2.4212	1.7650	8.4	120.5	20.6	25.82	123.16	43.99	17.5	Vir
21 Feb 2019	14h09m17.36s	+02 37' 42.7"	2.4235	1.7566	8.3	121.4	20.4	26.53	123.85	44.30	16.0	Vir
22 Feb 2019	14h09m37.12s	+02 54' 51.4"	2.4257	1.7483	8.3	122.3	20.2	27.23	124.56	44.63	14.5	Vir
23 Feb 2019	14h09m55.24s	+03 12' 14.9"	2.4280	1.7402	8.3	123.3	19.9	27.94	125.28	44.98	13.0	Vir
24 Feb 2019	14h10m11.69s	+03 29' 53.0"	2.4303	1.7322	8.3	124.2	19.7	28.66	126.01	45.35	11.5	Vir
25 Feb 2019	14h10m26.46s	+03 47' 45.3"	2.4326	1.7244	8.3	125.1	19.4	29.37	126.76	45.72	10.1	Vir
26 Feb 2019	14h10m39.54s	+04 05' 51.6"	2.4349	1.7168	8.3	126.1	19.2	30.09	127.52	46.12	8.7	Vir
27 Feb 2019	14h10m50.93s	+04 24' 11.3"	2.4372	1.7093	8.2	127.0	18.9	30.82	128.29	46.52	7.2	Vir
28 Feb 2019	14h11m00.61s	+04 42' 44.2"	2.4395	1.7021	8.2	127.9	18.7	31.54	129.08	46.93	5.8	Vir
1 Mar 2019	14h11m08.57s	+05 01' 29.8"	2.4418	1.6950	8.2	128.9	18.4	32.27	129.89	47.35	4.5	Vir
2 Mar 2019	14h11m14.81s	+05 20' 27.5"	2.4441	1.6881	8.2	129.8	18.1	33.00	130.71	47.78	3.1	Vir
3 Mar 2019	14h11m19.34s	+05 39' 37.0"	2.4465	1.6814	8.2	130.7	17.9	33.73	131.55	48.21	1.8	Vir
4 Mar 2019	14h11m22.13s	+05 58' 57.6"	2.4488	1.6750	8.2	131.7	17.6	34.47	132.41	48.64	0.5	Vir
5 Mar 2019	14h11m23.21s	+06 18' 28.8"	2.4511	1.6687	8.1	132.6	17.3	35.20	133.29	49.07	359.3	Vir
6 Mar 2019	14h11m22.56s	+06 38' 10.0"	2.4534	1.6626	8.1	133.5	17.1	35.93	134.19	49.50	358.0	Vir
7 Mar 2019	14h11m20.20s	+06 58' 00.6"	2.4558	1.6568	8.1	134.4	16.8	36.67	135.11	49.93	356.8	Vir
8 Mar 2019	14h11m16.12s	+07 17' 59.9"	2.4581	1.6512	8.1	135.3	16.5	37.40	136.05	50.34	355.6	Vir
9 Mar 2019	14h11m10.34s	+07 38' 07.2"	2.4604	1.6458	8.1	136.2	16.2	38.13	137.02	50.75	354.5	Boo
10 Mar 2019	14h11m02.87s	+07 58' 21.7"	2.4628	1.6406	8.1	137.1	15.9	38.86	138.00	51.15	353.3	Boo
11 Mar 2019	14h10m53.71s	+08 18' 42.9"	2.4651	1.6357	8.1	138.0	15.6	39.59	139.02	51.54	352.2	Boo
12 Mar 2019	14h10m42.89s	+08 39' 09.9"	2.4675	1.6310	8.0	138.9	15.4	40.31	140.05	51.91	351.1	Boo
13 Mar 2019	14h10m30.43s	+08 59' 41.8"	2.4698	1.6265	8.0	139.7	15.1	41.03	141.12	52.27	350.0	Boo
14 Mar 2019	14h10m16.33s	+09 20' 18.0"	2.4722	1.6223	8.0	140.6	14.8	41.75	142.21	52.60	349.0	Boo
15 Mar 2019	14h10m00.61s	+09 40' 57.5"	2.4745	1.6183	8.0	141.4	14.5	42.46	143.33	52.92	348.0	Boo
16 Mar 2019	14h09m42.31s	+10 01' 39.6"	2.4769	1.6146	8.0	142.2	14.2	43.16	144.47	53.21	347.0	Boo
17 Mar 2019	14h09m24.45s	+10 22' 23.4"	2.4793	1.6111	8.0	143.0	14.0	43.86	145.65	53.48	346.0	Boo
18 Mar 2019	14h09m04.04s	+10 43' 08.0"	2.4816	1.6079	8.0	143.8	13.7	44.55	146.86	53.73	345.0	Boo
19 Mar 2019	14h08m42.11s	+11 03' 52.5"	2.4840	1.6049	8.0	144.6	13.4	45.24	148.10	53.95	344.1	Boo
20 Mar 2019	14h08m18.70s	+11 24' 36.1"	2.4864	1.6022	7.9	145.3	13.2	45.91	149.38	54.14	343.2	Boo
21 Mar 2019	14h07m53.82s	+11 45' 17.9"	2.4887	1.5998	7.9	146.0	12.9	46.57	150.69	54.31	342.3	Boo
22 Mar 2019	14h07m27.51s	+12 05' 57.0"	2.4911	1.5976	7.9	146.7	12.7	47.22	152.03	54.45	341.4	Boo
23 Mar 2019	14h06m59.80s	+12 26' 32.5"	2.4935	1.5957	7.9	147.4	12.4	47.86	153.41	54.56	340.5	Boo
24 Mar 2019	14h06m30.71s	+12 47' 03.5"	2.4959	1.5940	7.9	148.0	12.2	48.49	154.83	54.63	339.6	Boo
25 Mar 2019	14h06m00.29s	+13 07' 29.0"	2.4982	1.5927	7.9	148.6	12.0	49.10	156.28	54.68	338.8	Boo
26 Mar 2019	14h05m28.57s	+13 27' 48.2"	2.5006	1.5915	7.9	149.1	11.8	49.70	157.77	54.69	337.9	Boo
27 Mar 2019	14h04m55.58s	+13 48' 00.0"	2.5030	1.5907	7.9	149.7	11.6	50.28	159.30	54.66	337.1	Boo
28 Mar 2019	14h04m21.37s	+14 08' 03.6"	2.5054	1.5901	7.9	150.2	11.4	50.84	160.87	54.60	336.2	Boo
29 Mar 2019	14h03m45.99s	+14 27' 58.0"	2.5078	1.5898	7.9	150.6	11.3	51.39	162.48	54.50	335.4	Boo
30 Mar 2019	14h03m09.48s	+14 47' 42.2"	2.5102	1.5898	7.9	151.0	11.1	51.91	164.13	54.36	334.6	Boo
31 Mar 2019	14h02m31.89s	+15 07' 15.4"	2.5126	1.5901	7.9	151.3	11.0	52.42	165.82	54.19	333.8	Boo
1 Apr 2019	14h01m53.28s	+15 26' 36.5"	2.5150	1.5906	7.9	151.6	10.9	52.90	167.55	53.97	333.0	Boo
2 Apr 2019	14h01m13.68s	+15 45' 44.8"	2.5174	1.5914	7.9	151.9	10.8	53.36	169.31	53.72	332.3	Boo
3 Apr 2019	14h00m33.17s	+16 04' 39.3"	2.5198	1.5925	7.9	152.1	10.7	53.79	171.11	53.42	331.5	Boo
4 Apr 2019	13h59m51.80s	+16 23' 19.1"	2.5222	1.5939	7.9	152.3	10.6	54.20	172.95	53.09	330.7	Boo
5 Apr 2019	13h59m09.62s	+16 41' 43.4"	2.5246	1.5955	7.9	152.4	10.6	54.58	174.82	52.71	330.0	Boo
6 Apr 2019	13h58m26.71s	+16 59' 51.3"	2.5270	1.5975	7.9	152.4	10.6	54.94	176.73	52.30	329.2	Boo
7 Apr 2019	13h57m43.11s	+17 17' 42.1"	2.5294	1.5997	7.9	152.4	10.6	55.26	178.67	51.85	328.5	Boo
8 Apr 2019	13h56m58.90s	+17 35' 15.0"	2.5319	1.6021	7.9	152.3	10.6	55.56	180.63	51.35	327.8	Boo
9 Apr 2019	13h56m14.14s	+17 52' 29.3"	2.5343	1.6049	7.9	152.2	10.6	55.83	182.62	50.82	327.0	Boo
10 Apr 2019	13h55m28.89s	+18 09' 24.2"	2.5367	1.6079	7.9	152.1	10.7	56.06	184.64	50.25	326.3	Boo
11 Apr 2019	13h54m43.23s	+18 25' 59.2"	2.5391	1.6112	7.9	151.9	10.7	56.27	186.67	49.65	325.6	Boo
12 Apr 2019	13h53m57.21s	+18 42' 13.5"	2.5415	1.6147	7.9	151.6	10.8	56.44	188.72	49.00	324.9	Boo
13 Apr 2019	13h53m10.90s	+18 58' 06.7"	2.5439	1.6186	7.9	151.3	10.9	56.58	190.78	48.33	324.2	Boo
14 Apr 2019	13h52m24.37s	+19 13' 38.1"	2.5464	1.6227	7.9	151.0	11.0	56.68	192.86	47.62	323.5	Boo
15 Apr 2019	13h51m37.68s	+19 28' 47.4"	2.5488	1.6270	7.9	150.6	11.1	56.76	194.93	46.88	322.7	Boo

Ephemeride des Kleinplaneten (2) Pallas

Datum	RA	Deklination	r	delta	mag	Elong	Phase	Höhe	Az.	Gesch.	PA	Stb
16 Apr 2019	13h50m50.90s	+19 43' 34.0"	2.5512	1.6316	8.0	150.2	11.3	56.80	197.01	46.12	322.0	Boo
17 Apr 2019	13h50m04.08s	+19 57' 57.7"	2.5536	1.6365	8.0	149.7	11.4	56.81	199.09	45.32	321.3	Boo
18 Apr 2019	13h49m17.29s	+20 11' 57.9"	2.5561	1.6416	8.0	149.2	11.6	56.79	201.16	44.50	320.6	Boo
19 Apr 2019	13h48m30.59s	+20 25' 34.4"	2.5585	1.6469	8.0	148.7	11.8	56.73	203.22	43.66	319.9	Boo
20 Apr 2019	13h47m44.03s	+20 38' 47.0"	2.5609	1.6526	8.0	148.1	12.0	56.64	205.27	42.79	319.2	Boo
21 Apr 2019	13h46m57.67s	+20 51' 35.2"	2.5634	1.6584	8.0	147.5	12.2	56.53	207.29	41.90	318.5	Boo
22 Apr 2019	13h46m11.57s	+21 03' 59.0"	2.5658	1.6645	8.1	146.9	12.4	56.38	209.30	40.99	317.7	Boo
23 Apr 2019	13h45m25.80s	+21 15' 58.1"	2.5682	1.6708	8.1	146.3	12.6	56.20	211.29	40.05	317.0	Boo
24 Apr 2019	13h44m40.40s	+21 27' 32.4"	2.5707	1.6774	8.1	145.6	12.8	55.99	213.25	39.10	316.3	Boo
25 Apr 2019	13h43m55.43s	+21 38' 41.6"	2.5731	1.6842	8.1	144.9	13.0	55.76	215.18	38.13	315.5	Boo
26 Apr 2019	13h43m10.95s	+21 49' 25.7"	2.5755	1.6912	8.1	144.2	13.2	55.50	217.07	37.14	314.7	Boo
27 Apr 2019	13h42m27.01s	+21 59' 44.7"	2.5780	1.6985	8.2	143.5	13.4	55.21	218.94	36.13	314.0	Boo
28 Apr 2019	13h41m43.67s	+22 09' 38.4"	2.5804	1.7059	8.2	142.8	13.6	54.90	220.77	35.11	313.2	Boo
29 Apr 2019	13h41m00.98s	+22 19' 06.9"	2.5828	1.7136	8.2	142.0	13.9	54.56	222.56	34.08	312.4	Boo
30 Apr 2019	13h40m19.00s	+22 28' 10.2"	2.5853	1.7215	8.2	141.3	14.1	54.21	224.32	33.03	311.6	Boo
1 Mai 2019	13h39m27.77s	+22 36' 48.3"	2.5877	1.7297	8.2	140.5	14.3	53.83	226.04	31.97	310.7	Boo
2 Mai 2019	13h38m57.34s	+22 45' 01.3"	2.5902	1.7380	8.3	139.7	14.6	53.43	227.72	30.90	309.9	Boo
3 Mai 2019	13h38m17.77s	+22 52' 49.3"	2.5926	1.7465	8.3	139.0	14.8	53.01	229.37	29.82	309.0	Boo
4 Mai 2019	13h37m39.09s	+23 00' 12.5"	2.5950	1.7552	8.3	138.2	15.0	52.57	230.97	28.73	308.1	Boo
5 Mai 2019	13h37m01.35s	+23 07' 11.1"	2.5975	1.7641	8.3	137.4	15.2	52.12	232.54	27.64	307.2	Boo
6 Mai 2019	13h36m24.60s	+23 13' 45.1"	2.5999	1.7733	8.3	136.6	15.5	51.65	234.06	26.54	306.2	Boo
7 Mai 2019	13h35m48.87s	+23 19' 54.9"	2.6024	1.7826	8.4	135.8	15.7	51.16	235.55	25.44	305.2	Com
8 Mai 2019	13h35m14.21s	+23 25' 40.7"	2.6048	1.7920	8.4	134.9	15.9	50.66	237.00	24.34	304.2	Com
9 Mai 2019	13h34m40.64s	+23 31' 02.7"	2.6073	1.8017	8.4	134.1	16.1	50.15	238.41	23.24	303.1	Com
10 Mai 2019	13h34m08.21s	+23 36' 01.3"	2.6097	1.8115	8.4	133.3	16.3	49.62	239.79	22.14	302.0	Com
11 Mai 2019	13h33m36.93s	+23 40' 36.8"	2.6122	1.8215	8.5	132.5	16.6	49.08	241.13	21.04	300.7	Com
12 Mai 2019	13h33m06.85s	+23 44' 49.5"	2.6146	1.8317	8.5	131.7	16.8	48.54	242.44	19.95	299.5	Com
13 Mai 2019	13h32m37.98s	+23 48' 39.7"	2.6170	1.8420	8.5	130.9	17.0	47.98	243.72	18.87	298.1	Com
14 Mai 2019	13h32m10.34s	+23 52' 08.0"	2.6195	1.8525	8.5	130.0	17.2	47.42	244.96	17.80	296.6	Com
15 Mai 2019	13h31m43.96s	+23 55' 14.5"	2.6219	1.8631	8.5	129.2	17.4	46.84	246.17	16.74	295.0	Com
16 Mai 2019	13h31m18.85s	+23 57' 59.7"	2.6244	1.8739	8.6	128.4	17.6	46.26	247.35	15.70	293.2	Com
17 Mai 2019	13h30m55.03s	+24 00' 24.0"	2.6268	1.8848	8.6	127.6	17.8	45.67	248.50	14.67	291.3	Com
18 Mai 2019	13h30m32.51s	+24 02' 27.8"	2.6293	1.8959	8.6	126.8	17.9	45.08	249.62	13.66	289.1	Com
19 Mai 2019	13h30m11.30s	+24 04' 11.5"	2.6317	1.9071	8.6	126.0	18.1	44.48	250.71	12.67	286.7	Com
20 Mai 2019	13h29m51.41s	+24 05' 35.4"	2.6342	1.9184	8.6	125.2	18.3	43.87	251.78	11.71	284.0	Com
21 Mai 2019	13h29m32.86s	+24 06' 39.9"	2.6366	1.9298	8.7	124.3	18.5	43.26	252.82	10.78	280.8	Com
22 Mai 2019	13h29m15.64s	+24 07' 25.5"	2.6390	1.9414	8.7	123.5	18.6	42.64	253.84	9.88	277.2	Com
23 Mai 2019	13h28m59.78s	+24 07' 52.4"	2.6415	1.9531	8.7	122.7	18.8	42.03	254.84	9.03	273.0	Com
24 Mai 2019	13h28m45.27s	+24 08' 01.2"	2.6439	1.9650	8.7	121.9	19.0	41.40	255.81	8.24	268.0	Com
25 Mai 2019	13h28m32.12s	+24 07' 52.1"	2.6464	1.9769	8.7	121.1	19.1	40.78	256.76	7.51	262.2	Com
26 Mai 2019	13h28m20.33s	+24 07' 25.5"	2.6488	1.9889	8.8	120.3	19.3	40.15	257.68	6.87	255.3	Com
27 Mai 2019	13h28m09.92s	+24 06' 41.8"	2.6513	2.0011	8.8	119.5	19.4	39.52	258.59	6.34	247.3	Com
28 Mai 2019	13h28m00.88s	+24 05' 41.4"	2.6537	2.0134	8.8	118.7	19.6	38.89	259.48	5.95	238.2	Com
29 Mai 2019	13h27m53.21s	+24 04' 24.7"	2.6562	2.0257	8.8	117.9	19.7	38.25	260.35	5.71	228.2	Com
30 Mai 2019	13h27m46.92s	+24 02' 52.0"	2.6586	2.0382	8.8	117.2	19.8	37.62	261.21	5.64	217.8	Com
31 Mai 2019	13h27m42.01s	+24 01' 03.8"	2.6610	2.0507	8.9	116.4	20.0	36.98	262.04	5.75	207.6	Com
1 Jun 2019	13h27m38.47s	+23 59' 00.3"	2.6635	2.0634	8.9	115.6	20.1	36.35	262.86	6.02	198.0	Com
2 Jun 2019	13h27m36.30s	+23 56' 42.1"	2.6659	2.0761	8.9	114.8	20.2	35.71	263.66	6.43	189.6	Com
3 Jun 2019	13h27m35.50s	+23 54' 09.3"	2.6684	2.0889	8.9	114.1	20.3	35.07	264.45	6.94	182.3	Com
4 Jun 2019	13h27m36.07s	+23 51' 22.5"	2.6708	2.1018	8.9	113.3	20.4	34.43	265.23	7.53	176.1	Com
5 Jun 2019	13h27m38.01s	+23 48' 22.0"	2.6732	2.1148	9.0	112.5	20.5	33.80	266.99	8.17	170.8	Com
6 Jun 2019	13h27m41.29s	+23 45' 08.2"	2.6757	2.1278	9.0	111.8	20.6	33.16	268.73	8.87	166.4	Com
7 Jun 2019	13h27m45.93s	+23 41' 41.4"	2.6781	2.1410	9.0	111.0	20.7	32.52	269.47	9.59	162.6	Com
8 Jun 2019	13h27m51.90s	+23 38' 02.1"	2.6805	2.1541	9.0	110.3	20.8	31.88	268.19	10.33	159.3	Com
9 Jun 2019	13h27m59.20s	+23 34' 10.5"	2.6830	2.1674	9.0	109.5	20.9	31.25	268.90	11.08	156.5	Com
10 Jun 2019	13h28m07.81s	+23 30' 07.1"	2.6854	2.1807	9.1	108.8	21.0	30.61	269.60	11.84	154.0	Com
11 Jun 2019	13h28m17.72s	+23 25' 52.3"	2.6878	2.1940	9.1	108.0	21.0	29.98	270.29	12.60	151.9	Com
12 Jun 2019	13h28m28.93s	+23 21' 26.3"	2.6903	2.2075	9.1	107.3	21.1	29.34	270.97	13.36	150.0	Com
13 Jun 2019	13h28m41.41s	+23 16' 49.5"	2.6927	2.2209	9.1	106.6	21.2	28.71	271.64	14.12	148.2	Com
14 Jun 2019	13h28m55.15s	+23 12' 02.2"	2.6951	2.2344	9.1	105.8	21.3	28.08	272.30	14.88	146.7	Com
15 Jun 2019	13h29m10.13s	+23 07' 04.8"	2.6976	2.2480	9.1	105.1	21.3	27.45	272.95	15.63	145.3	Com
16 Jun 2019	13h29m26.34s	+23 01' 57.6"	2.7000	2.2616	9.2	104.4	21.4	26.82	273.59	16.37	144.0	Com
17 Jun 2019	13h29m43.77s	+22 56' 40.8"	2.7024	2.2753	9.2	103.7	21.4	26.19	274.22	17.11	142.9	Com
18 Jun 2019	13h30m02.40s	+22 51' 14.8"	2.7048	2.2889	9.2	103.0	21.5	25.57	274.85	17.84	141.8	Com
19 Jun 2019	13h30m22.22s	+22 45' 39.8"	2.7073	2.3027	9.2	102.3	21.5	24.94	275.47	18.56	140.8	Com
20 Jun 2019	13h30m43.22s	+22 39' 56.2"	2.7097	2.3164	9.2	101.6	21.6	24.32	276.08	19.27	139.9	Com
21 Jun 2019	13h31m05.37s	+22 34' 04.0"	2.7121	2.3302	9.2	100.9	21.6	23.70	276.68	19.98	139.0	Com
22 Jun 2019	13h31m28.67s	+22 28' 03.7"	2.7145	2.3440	9.3	100.2	21.6	23.08	277.28	20.68	138.2	Com
23 Jun 2019	13h31m53.10s	+22 21' 55.4"	2.7170	2.3578	9.3	99.5	21.7	22.47	277.88	21.37	137.4	Com
24 Jun 2019	13h32m18.65s	+22 15' 39.5"	2.7194	2.3717	9.3	98.8	21.7	21.85	278.46	22.05	136.7	Com
25 Jun 2019	13h32m45.31s	+22 09' 16.0"	2.7218	2.3856	9.3	98.1	21.7	21.24	279.04	22.72	136.0	Com
26 Jun 2019	13h33m13.07s	+22 02' 45.4"	2.7242	2.3995	9.3	97.4	21.7	20.63	279.62	23.39	135.4	Com
27 Jun 2019	13h33m41.91s	+21 56' 07.8"	2.7266	2.4135	9.3	96.7	21.7	20.02	280.19	24.04	134.8	Com
28 Jun 2019	13h34m11.81s	+21 49' 23.4"	2.7290	2.4274	9.3	96.1	21.7	19.41	280.75	24.69	134.2	Com

Ephemeride des Kleinplaneten (2) Pallas

Datum	RA	Deklination	r	delta	mag	Elong	Phase	Höhe	Az.	Gesch.	PA	Stb
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29 Jun 2019	13h34m42.78s	+21 42' 32.5"	2.7314	2.4414	9.4	95.4	21.7	18.81	281.32	25.33	133.6	Com
30 Jun 2019	13h35m14.79s	+21 35' 35.2"	2.7339	2.4553	9.4	94.7	21.8	18.20	281.87	25.96	133.1	Com
1 Jul 2019	13h35m47.83s	+21 28' 31.9"	2.7363	2.4693	9.4	94.1	21.8	17.60	282.42	26.59	132.5	Com
2 Jul 2019	13h36m21.89s	+21 21' 22.6"	2.7387	2.4833	9.4	93.4	21.8	17.00	282.97	27.20	132.0	Boo
3 Jul 2019	13h36m56.95s	+21 14' 07.7"	2.7411	2.4973	9.4	92.7	21.7	16.41	283.52	27.80	131.6	Boo
4 Jul 2019	13h37m33.01s	+21 06' 47.4"	2.7435	2.5113	9.4	92.1	21.7	15.81	284.06	28.40	131.1	Boo
5 Jul 2019	13h38m10.05s	+20 59' 21.8"	2.7459	2.5253	9.4	91.4	21.7	15.22	284.59	28.99	130.6	Boo
6 Jul 2019	13h38m48.05s	+20 51' 51.2"	2.7483	2.5393	9.5	90.8	21.7	14.63	285.13	29.56	130.2	Boo
7 Jul 2019	13h39m27.00s	+20 44' 15.8"	2.7507	2.5533	9.5	90.1	21.7	14.05	285.66	30.13	129.8	Boo
8 Jul 2019	13h40m06.89s	+20 36' 35.8"	2.7531	2.5673	9.5	89.5	21.7	13.46	286.19	30.68	129.3	Boo
9 Jul 2019	13h40m47.69s	+20 28' 51.3"	2.7555	2.5813	9.5	88.9	21.6	12.88	286.71	31.23	128.9	Boo
10 Jul 2019	13h41m29.40s	+20 21' 02.7"	2.7579	2.5952	9.5	88.2	21.6	12.30	287.23	31.76	128.6	Boo
11 Jul 2019	13h42m11.99s	+20 13' 10.1"	2.7602	2.6092	9.5	87.6	21.6	11.72	287.75	32.29	128.2	Boo
12 Jul 2019	13h42m55.45s	+20 05' 13.6"	2.7626	2.6231	9.5	87.0	21.6	11.15	288.27	32.81	127.8	Boo
13 Jul 2019	13h43m39.78s	+19 57' 13.5"	2.7650	2.6371	9.5	86.3	21.5	10.57	288.79	33.31	127.5	Boo
14 Jul 2019	13h44m24.94s	+19 49' 09.8"	2.7674	2.6510	9.6	85.7	21.5	10.00	289.30	33.81	127.1	Boo
15 Jul 2019	13h45m10.94s	+19 41' 02.8"	2.7698	2.6649	9.6	85.1	21.4	9.44	289.82	34.30	126.8	Boo
16 Jul 2019	13h45m57.75s	+19 32' 52.6"	2.7722	2.6788	9.6	84.5	21.4	8.87	290.33	34.78	126.4	Boo
17 Jul 2019	13h46m45.36s	+19 24' 39.4"	2.7746	2.6926	9.6	83.9	21.4	8.31	290.84	35.26	126.1	Boo
18 Jul 2019	13h47m33.76s	+19 16' 23.2"	2.7769	2.7065	9.6	83.3	21.3	7.75	291.34	35.73	125.8	Boo
19 Jul 2019	13h48m22.95s	+19 08' 04.2"	2.7793	2.7203	9.6	82.6	21.3	7.19	291.85	36.19	125.5	Boo
20 Jul 2019	13h49m12.90s	+18 59' 42.6"	2.7817	2.7341	9.6	82.0	21.2	6.64	292.36	36.64	125.2	Boo
21 Jul 2019	13h50m03.61s	+18 51' 18.5"	2.7840	2.7478	9.6	81.4	21.2	6.08	292.86	37.08	124.9	Boo
22 Jul 2019	13h50m55.06s	+18 42' 52.0"	2.7864	2.7616	9.6	80.8	21.1	5.53	293.36	37.52	124.6	Boo
23 Jul 2019	13h51m47.26s	+18 34' 23.2"	2.7888	2.7753	9.7	80.2	21.0	4.99	293.87	37.96	124.3	Boo
24 Jul 2019	13h52m40.18s	+18 25' 52.2"	2.7911	2.7889	9.7	79.6	21.0	4.44	294.37	38.38	124.0	Boo
25 Jul 2019	13h53m33.81s	+18 17' 19.3"	2.7935	2.8026	9.7	79.0	20.9	3.90	294.87	38.80	123.7	Boo
26 Jul 2019	13h54m28.15s	+18 08' 44.4"	2.7959	2.8162	9.7	78.4	20.9	3.36	295.37	39.22	123.5	Boo
27 Jul 2019	13h55m23.19s	+18 00' 07.8"	2.7982	2.8298	9.7	77.9	20.8	2.82	295.87	39.63	123.2	Boo
28 Jul 2019	13h56m18.92s	+17 51' 29.4"	2.8006	2.8433	9.7	77.3	20.7	2.29	296.37	40.03	122.9	Boo
29 Jul 2019	13h57m15.33s	+17 42' 49.6"	2.8029	2.8569	9.7	76.7	20.6	1.76	296.87	40.43	122.7	Boo
30 Jul 2019	13h58m12.42s	+17 34' 08.2"	2.8053	2.8703	9.7	76.1	20.6	1.23	297.37	40.82	122.4	Boo
31 Jul 2019	13h59m10.16s	+17 25' 25.6"	2.8076	2.8838	9.7	75.5	20.5	0.70	297.87	41.20	122.2	Boo
1 Aug 2019	14h00m08.56s	+17 16' 41.8"	2.8100	2.8972	9.7	74.9	20.4	0.18	298.37	41.58	121.9	Boo