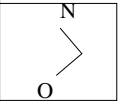
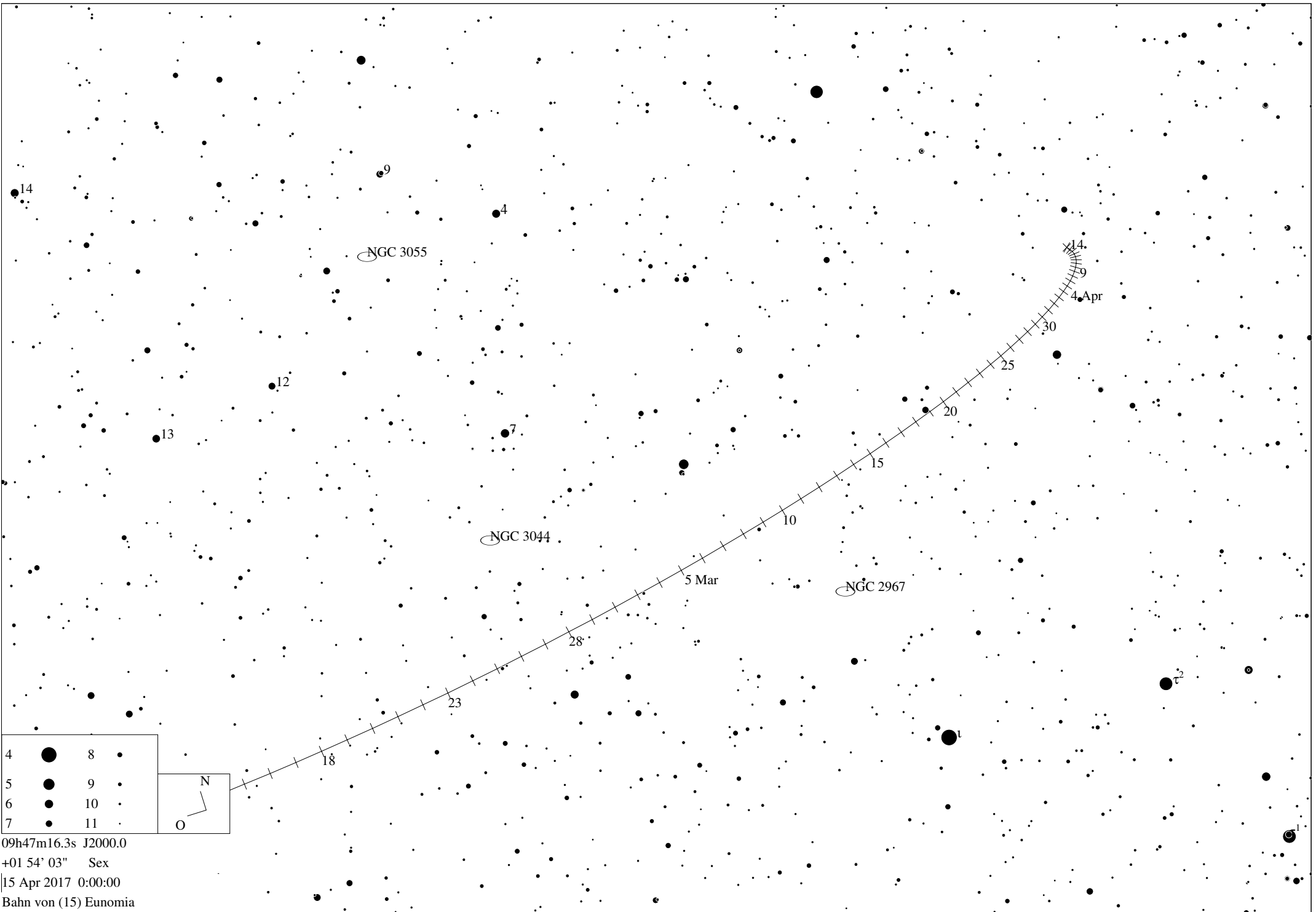


4	●	8	●
5	●	9	●
6	●	10	●
7	●	11	●



10h20m56.1s J2000.0  
 +00 49' 44" Sex  
 15 Dez 2016 0:00:00  
 Bahn von (15) Eunomia



## Ephemeride des Kleinplaneten (15) Eunomia

Datum	RA	Deklination	r	delta	mag	Elong	Phase	Höhe	Az.	Gesch.	PA	Stb
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15 Dez 2016	10h32m29.43s	+02 49' 29.7"	2.7050	2.2865	10.2	104.4	20.6	20.00	112.48	19.85	149.9	Sex
16 Dez 2016	10h32m45.31s	+02 42' 39.7"	2.7070	2.2751	10.1	105.3	20.5	20.43	113.35	19.21	151.8	Sex
17 Dez 2016	10h32m59.79s	+02 35' 55.7"	2.7089	2.2637	10.1	106.2	20.4	20.86	114.23	18.58	153.9	Sex
18 Dez 2016	10h33m12.85s	+02 29' 17.8"	2.7108	2.2524	10.1	107.1	20.3	21.29	115.13	17.97	156.1	Sex
19 Dez 2016	10h33m24.48s	+02 22' 46.1"	2.7127	2.2411	10.1	108.1	20.2	21.72	116.03	17.38	158.5	Sex
20 Dez 2016	10h33m34.66s	+02 16' 20.9"	2.7146	2.2299	10.1	109.0	20.0	22.15	116.94	16.81	161.0	Sex
21 Dez 2016	10h33m43.39s	+02 10' 02.1"	2.7165	2.2188	10.1	109.9	19.9	22.58	117.86	16.27	163.8	Sex
22 Dez 2016	10h33m50.64s	+02 03' 50.1"	2.7184	2.2078	10.1	110.9	19.8	23.01	118.79	15.76	166.8	Sex
23 Dez 2016	10h33m56.40s	+01 57' 44.8"	2.7203	2.1968	10.1	111.8	19.6	23.44	119.73	15.29	170.0	Sex
24 Dez 2016	10h34m00.66s	+01 51' 46.5"	2.7222	2.1859	10.0	112.8	19.5	23.87	120.68	14.86	173.4	Sex
25 Dez 2016	10h34m03.42s	+01 45' 55.3"	2.7241	2.1751	10.0	113.7	19.3	24.31	121.65	14.48	177.0	Sex
26 Dez 2016	10h34m04.65s	+01 40' 11.4"	2.7260	2.1644	10.0	114.7	19.1	24.74	122.62	14.16	180.8	Sex
27 Dez 2016	10h34m04.36s	+01 34' 34.8"	2.7279	2.1538	10.0	115.7	19.0	25.17	123.60	13.90	184.9	Sex
28 Dez 2016	10h34m02.52s	+01 29' 05.7"	2.7298	2.1433	10.0	116.7	18.8	25.59	124.60	13.71	189.0	Sex
29 Dez 2016	10h33m59.15s	+01 23' 44.2"	2.7317	2.1329	10.0	117.6	18.6	26.02	125.61	13.58	193.3	Sex
30 Dez 2016	10h33m54.22s	+01 18' 30.5"	2.7336	2.1226	10.0	118.6	18.4	26.45	126.63	13.53	197.7	Sex
31 Dez 2016	10h33m47.73s	+01 13' 24.7"	2.7354	2.1124	9.9	119.6	18.2	26.87	127.66	13.55	202.1	Sex
1 Jan 2017	10h33m39.69s	+01 08' 27.0"	2.7373	2.1023	9.9	120.6	18.0	27.29	128.71	13.65	206.4	Sex
2 Jan 2017	10h33m30.08s	+01 03' 37.4"	2.7392	2.0924	9.9	121.6	17.8	27.71	129.77	13.82	210.7	Sex
3 Jan 2017	10h33m18.92s	+00 58' 56.0"	2.7411	2.0826	9.9	122.6	17.6	28.13	130.84	14.07	214.9	Sex
4 Jan 2017	10h33m06.19s	+00 54' 23.1"	2.7429	2.0729	9.9	123.7	17.4	28.54	131.93	14.38	218.9	Sex
5 Jan 2017	10h32m51.90s	+00 49' 58.6"	2.7448	2.0634	9.9	124.7	17.1	28.95	133.03	14.75	222.8	Sex
6 Jan 2017	10h32m36.07s	+00 45' 42.8"	2.7467	2.0540	9.8	125.7	16.9	29.36	134.14	15.18	226.4	Sex
7 Jan 2017	10h32m18.68s	+00 41' 35.7"	2.7485	2.0447	9.8	126.8	16.7	29.76	135.27	15.67	229.8	Sex
8 Jan 2017	10h31m59.74s	+00 37' 37.3"	2.7504	2.0356	9.8	127.8	16.4	30.16	136.41	16.20	233.1	Sex
9 Jan 2017	10h31m39.27s	+00 33' 47.9"	2.7523	2.0267	9.8	128.8	16.2	30.55	137.57	16.77	236.1	Sex
10 Jan 2017	10h31m17.27s	+00 30' 07.5"	2.7541	2.0179	9.8	129.9	15.9	30.94	138.74	17.38	238.9	Sex
11 Jan 2017	10h30m53.74s	+00 26' 36.1"	2.7560	2.0093	9.8	131.0	15.6	31.32	139.93	18.02	241.5	Sex
12 Jan 2017	10h30m28.70s	+00 23' 14.0"	2.7578	2.0009	9.8	132.0	15.4	31.69	141.13	18.69	243.9	Sex
13 Jan 2017	10h30m02.16s	+00 20' 01.1"	2.7597	1.9926	9.7	133.1	15.1	32.06	142.34	19.38	246.2	Sex
14 Jan 2017	10h29m34.12s	+00 16' 57.6"	2.7615	1.9846	9.7	134.2	14.8	32.43	143.58	20.10	248.3	Sex
15 Jan 2017	10h29m04.60s	+00 14' 03.5"	2.7633	1.9767	9.7	135.2	14.5	32.78	144.83	20.83	250.2	Sex
16 Jan 2017	10h28m33.61s	+00 11' 19.0"	2.7652	1.9690	9.7	136.3	14.2	33.13	146.09	21.57	252.1	Sex
17 Jan 2017	10h28m01.17s	+00 08' 44.1"	2.7670	1.9615	9.7	137.4	13.9	33.47	147.37	22.32	253.8	Sex
18 Jan 2017	10h27m27.29s	+00 06' 18.9"	2.7688	1.9541	9.7	138.5	13.6	33.80	148.66	23.08	255.3	Sex
19 Jan 2017	10h26m52.00s	+00 04' 03.5"	2.7707	1.9470	9.6	139.6	13.3	34.12	149.97	23.84	256.8	Sex
20 Jan 2017	10h26m15.31s	+00 01' 57.8"	2.7725	1.9401	9.6	140.7	13.0	34.43	151.30	24.60	258.2	Sex
21 Jan 2017	10h25m37.25s	+00 00' 02.1"	2.7743	1.9334	9.6	141.8	12.7	34.73	152.64	25.36	259.5	Sex
22 Jan 2017	10h24m57.85s	-00 01' 43.7"	2.7761	1.9270	9.6	142.9	12.4	35.02	154.00	26.11	260.8	Sex
23 Jan 2017	10h24m17.13s	-00 03' 19.6"	2.7779	1.9207	9.6	144.0	12.0	35.30	155.37	26.86	261.9	Sex
24 Jan 2017	10h23m35.13s	-00 04' 45.6"	2.7797	1.9147	9.6	145.1	11.7	35.56	156.76	27.60	263.0	Sex
25 Jan 2017	10h22m51.87s	-00 06' 01.6"	2.7816	1.9089	9.5	146.2	11.4	35.82	158.16	28.32	264.0	Sex
26 Jan 2017	10h22m07.40s	-00 07' 07.6"	2.7834	1.9034	9.5	147.3	11.0	36.06	159.57	29.03	265.0	Sex
27 Jan 2017	10h21m21.76s	-00 08' 03.7"	2.7852	1.8981	9.5	148.4	10.7	36.29	161.00	29.72	265.9	Sex
28 Jan 2017	10h20m34.97s	-00 08' 49.9"	2.7870	1.8930	9.5	149.5	10.3	36.51	162.44	30.39	266.8	Sex
29 Jan 2017	10h19m47.10s	-00 09' 26.3"	2.7888	1.8882	9.5	150.6	10.0	36.71	163.90	31.04	267.6	Sex
30 Jan 2017	10h18m58.18s	-00 09' 52.8"	2.7905	1.8836	9.5	151.7	9.6	36.90	165.36	31.67	268.4	Sex
31 Jan 2017	10h18m08.25s	-00 10' 09.6"	2.7923	1.8793	9.4	152.8	9.3	37.07	166.84	32.27	269.1	Sex
1 Feb 2017	10h17m17.38s	-00 10' 16.7"	2.7941	1.8753	9.4	153.9	8.9	37.23	168.33	32.85	269.8	Sex
2 Feb 2017	10h16m25.61s	-00 10' 14.3"	2.7959	1.8715	9.4	155.0	8.6	37.37	169.83	33.40	270.5	Sex
3 Feb 2017	10h15m32.99s	-00 10' 02.5"	2.7977	1.8680	9.4	156.1	8.2	37.49	171.34	33.92	271.2	Sex
4 Feb 2017	10h14m39.58s	-00 09' 41.3"	2.7995	1.8647	9.4	157.1	7.9	37.60	172.86	34.41	271.8	Sex
5 Feb 2017	10h13m45.43s	-00 09' 10.9"	2.8012	1.8618	9.4	158.2	7.5	37.69	174.38	34.86	272.4	Sex
6 Feb 2017	10h12m50.59s	-00 08' 31.5"	2.8030	1.8591	9.3	159.2	7.2	37.77	175.92	35.29	273.0	Sex
7 Feb 2017	10h11m55.13s	-00 07' 43.3"	2.8048	1.8566	9.3	160.2	6.8	37.82	177.45	35.68	273.5	Sex
8 Feb 2017	10h10m59.10s	-00 06' 46.3"	2.8065	1.8545	9.3	161.2	6.5	37.86	179.00	36.04	274.1	Sex
9 Feb 2017	10h10m02.56s	-00 05' 40.7"	2.8083	1.8526	9.3	162.2	6.2	37.88	180.54	36.37	274.6	Sex
10 Feb 2017	10h09m05.56s	-00 04' 26.8"	2.8100	1.8511	9.3	163.1	5.8	37.89	182.09	36.66	275.1	Sex
11 Feb 2017	10h08m08.15s	-00 03' 04.7"	2.8118	1.8498	9.3	164.0	5.5	37.87	183.65	36.92	275.6	Sex
12 Feb 2017	10h07m10.41s	-00 01' 34.6"	2.8135	1.8488	9.3	164.9	5.3	37.84	185.20	37.15	276.1	Sex
13 Feb 2017	10h06m12.38s	+00 00' 03.2"	2.8153	1.8480	9.2	165.7	5.0	37.79	186.75	37.34	276.5	Sex
14 Feb 2017	10h05m14.13s	+00 01' 48.6"	2.8170	1.8476	9.2	166.4	4.7	37.72	188.30	37.49	277.0	Sex
15 Feb 2017	10h04m15.72s	+00 03' 41.4"	2.8188	1.8475	9.2	167.0	4.5	37.63	189.85	37.60	277.4	Sex
16 Feb 2017	10h03m17.20s	+00 05' 41.4"	2.8205	1.8476	9.2	167.6	4.3	37.52	191.40	37.68	277.9	Sex
17 Feb 2017	10h02m18.64s	+00 07' 48.2"	2.8222	1.8481	9.2	168.1	4.2	37.40	192.94	37.72	278.3	Sex
18 Feb 2017	10h01m20.11s	+00 10' 01.7"	2.8240	1.8488	9.2	168.4	4.0	37.26	194.48	37.72	278.7	Sex
19 Feb 2017	10h00m21.66s	+00 12' 21.6"	2.8257	1.8498	9.2	168.6	4.0	37.09	196.01	37.68	279.1	Sex
20 Feb 2017	09h59m23.35s	+00 14' 47.5"	2.8274	1.8511	9.2	168.7	3.9	36.92	197.53	37.61	279.5	Sex
21 Feb 2017	09h58m25.26s	+00 17' 19.3"	2.8291	1.8528	9.2	168.6	3.9	36.72	199.04	37.49	279.9	Sex
22 Feb 2017	09h57m27.44s	+00 19' 56.6"	2.8308	1.8547	9.2	168.5	4.0	36.51	200.55	37.33	280.3	Sex
23 Feb 2017	09h56m29.95s	+00 22' 39.2"	2.8325	1.8569	9.2	168.1	4.1	36.28	202.05	37.14	280.7	Sex
24 Feb 2017	09h55m32.86s	+00 25' 26.7"	2.8342	1.8594	9.2	167.7	4.3	36.03	203.53	36.90	281.1	Sex
25 Feb 2017	09h54m36.23s	+00 28' 18.9"	2.8359	1.8622	9.2	167.2	4.4	35.77	205.00	36.63	281.4	Sex
26 Feb 2017	09h53m40.13s	+00 31' 15.4"	2.8376	1.8653	9.3	166.6	4.7	35.49	206.47	36.32	281.8	Sex

## Ephemeride des Kleinplaneten (15) Eunomia

Datum	RA	Deklination	r	delta	mag	Elong	Phase	Höhe	Az.	Gesch.	PA	Stb
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27 Feb 2017	09h52m44.60s	+00 34' 15.8"	2.8393	1.8686	9.3	165.9	4.9	35.19	207.92	35.97	282.2	Sex
28 Feb 2017	09h51m49.71s	+00 37' 20.0"	2.8410	1.8723	9.3	165.1	5.1	34.88	209.35	35.58	282.6	Sex
1 Mar 2017	09h50m55.53s	+00 40' 27.5"	2.8427	1.8763	9.3	164.3	5.4	34.56	210.77	35.16	282.9	Sex
2 Mar 2017	09h50m02.09s	+00 43' 38.0"	2.8444	1.8805	9.3	163.4	5.7	34.22	212.18	34.70	283.3	Sex
3 Mar 2017	09h49m09.47s	+00 46' 51.2"	2.8461	1.8850	9.4	162.5	6.0	33.87	213.57	34.20	283.7	Sex
4 Mar 2017	09h48m17.71s	+00 50' 06.8"	2.8478	1.8898	9.4	161.5	6.3	33.50	214.95	33.68	284.1	Sex
5 Mar 2017	09h47m26.85s	+00 53' 24.4"	2.8494	1.8949	9.4	160.6	6.6	33.12	216.31	33.12	284.5	Sex
6 Mar 2017	09h46m36.95s	+00 56' 43.7"	2.8511	1.9002	9.4	159.6	7.0	32.73	217.65	32.53	284.8	Sex
7 Mar 2017	09h45m48.05s	+01 00' 04.4"	2.8528	1.9059	9.4	158.6	7.3	32.33	218.98	31.92	285.2	Sex
8 Mar 2017	09h45m00.20s	+01 03' 26.2"	2.8544	1.9118	9.5	157.6	7.6	31.92	220.29	31.27	285.6	Sex
9 Mar 2017	09h44m13.42s	+01 06' 48.7"	2.8561	1.9179	9.5	156.5	8.0	31.49	221.59	30.61	286.0	Sex
10 Mar 2017	09h43m27.76s	+01 10' 11.8"	2.8577	1.9243	9.5	155.5	8.3	31.05	222.87	29.92	286.4	Sex
11 Mar 2017	09h42m43.25s	+01 13' 35.2"	2.8594	1.9310	9.5	154.4	8.6	30.61	224.13	29.21	286.8	Sex
12 Mar 2017	09h41m59.94s	+01 16' 58.4"	2.8610	1.9379	9.5	153.4	9.0	30.15	225.38	28.48	287.3	Sex
13 Mar 2017	09h41m17.81s	+01 20' 21.4"	2.8627	1.9451	9.6	152.3	9.3	29.69	226.61	27.72	287.7	Hya
14 Mar 2017	09h40m36.95s	+01 23' 43.7"	2.8643	1.9525	9.6	151.2	9.6	29.22	227.82	26.95	288.2	Hya
15 Mar 2017	09h39m57.35s	+01 27' 05.2"	2.8659	1.9602	9.6	150.2	9.9	28.74	229.02	26.16	288.6	Hya
16 Mar 2017	09h39m19.06s	+01 30' 25.6"	2.8676	1.9681	9.6	149.1	10.3	28.25	230.19	25.36	289.1	Hya
17 Mar 2017	09h38m42.09s	+01 33' 44.6"	2.8692	1.9763	9.7	148.0	10.6	27.75	231.36	24.54	289.6	Hya
18 Mar 2017	09h38m06.46s	+01 37' 02.0"	2.8708	1.9847	9.7	147.0	10.9	27.25	232.51	23.70	290.2	Hya
19 Mar 2017	09h37m32.21s	+01 40' 17.6"	2.8724	1.9933	9.7	145.9	11.2	26.74	233.64	22.85	290.7	Hya
20 Mar 2017	09h36m59.34s	+01 43' 31.1"	2.8740	2.0021	9.7	144.8	11.5	26.23	234.75	21.99	291.3	Hya
21 Mar 2017	09h36m27.89s	+01 46' 42.4"	2.8756	2.0112	9.7	143.8	11.8	25.71	235.85	21.12	292.0	Hya
22 Mar 2017	09h35m57.86s	+01 49' 51.1"	2.8772	2.0205	9.8	142.7	12.1	25.18	236.94	20.23	292.6	Hya
23 Mar 2017	09h35m29.27s	+01 52' 57.0"	2.8788	2.0300	9.8	141.7	12.4	24.65	238.01	19.34	293.4	Hya
24 Mar 2017	09h35m02.13s	+01 56' 00.1"	2.8804	2.0397	9.8	140.6	12.7	24.12	239.06	18.44	294.1	Hya
25 Mar 2017	09h34m36.47s	+01 59' 00.0"	2.8820	2.0496	9.8	139.5	13.0	23.58	240.10	17.53	295.0	Hya
26 Mar 2017	09h34m12.28s	+02 01' 56.5"	2.8836	2.0597	9.8	138.5	13.3	23.04	241.13	16.62	295.9	Hya
27 Mar 2017	09h33m49.58s	+02 04' 49.5"	2.8852	2.0700	9.9	137.5	13.5	22.49	242.14	15.71	296.9	Hya
28 Mar 2017	09h33m28.39s	+02 07' 38.8"	2.8868	2.0805	9.9	136.4	13.8	21.94	243.14	14.79	298.0	Hya
29 Mar 2017	09h33m08.69s	+02 10' 24.1"	2.8884	2.0912	9.9	135.4	14.1	21.39	244.12	13.87	299.3	Hya
30 Mar 2017	09h32m50.51s	+02 13' 05.4"	2.8899	2.1021	9.9	134.4	14.3	20.84	245.09	12.95	300.7	Hya
31 Mar 2017	09h32m33.84s	+02 15' 42.5"	2.8915	2.1131	9.9	133.3	14.6	20.28	246.05	12.04	302.2	Hya
1 Apr 2017	09h32m18.69s	+02 18' 15.1"	2.8931	2.1244	10.0	132.3	14.8	19.72	246.99	11.14	304.1	Hya
2 Apr 2017	09h32m05.04s	+02 20' 43.2"	2.8946	2.1358	10.0	131.3	15.0	19.16	247.93	10.25	306.2	Hya
3 Apr 2017	09h31m52.90s	+02 23' 06.7"	2.8962	2.1473	10.0	130.3	15.3	18.60	248.85	9.37	308.6	Hya
4 Apr 2017	09h31m42.26s	+02 25' 25.3"	2.8977	2.1590	10.0	129.3	15.5	18.04	249.76	8.51	311.5	Hya
5 Apr 2017	09h31m33.12s	+02 27' 39.0"	2.8993	2.1709	10.0	128.3	15.7	17.48	250.65	7.68	315.1	Hya
6 Apr 2017	09h31m25.47s	+02 29' 47.8"	2.9008	2.1829	10.1	127.3	15.9	16.91	251.54	6.89	319.3	Hya
7 Apr 2017	09h31m19.29s	+02 31' 51.4"	2.9024	2.1951	10.1	126.3	16.1	16.35	252.41	6.15	324.6	Hya
8 Apr 2017	09h31m14.58s	+02 33' 49.8"	2.9039	2.2074	10.1	125.4	16.3	15.78	253.28	5.47	331.2	Hya
9 Apr 2017	09h31m11.32s	+02 35' 42.9"	2.9054	2.2198	10.1	124.4	16.5	15.21	254.13	4.88	339.4	Hya
10 Apr 2017	09h31m09.52s	+02 37' 30.7"	2.9069	2.2324	10.1	123.4	16.7	14.65	254.98	4.42	349.5	Hya
11 Apr 2017	09h31m09.14s	+02 39' 13.1"	2.9085	2.2451	10.2	122.5	16.9	14.08	255.81	4.12	1.3	Hya
12 Apr 2017	09h31m10.19s	+02 40' 50.0"	2.9100	2.2580	10.2	121.5	17.1	13.52	256.63	4.01	14.3	Hya
13 Apr 2017	09h31m12.64s	+02 42' 21.3"	2.9115	2.2709	10.2	120.5	17.3	12.95	257.45	4.11	27.2	Hya
14 Apr 2017	09h31m16.49s	+02 43' 47.1"	2.9130	2.2840	10.2	119.6	17.4	12.38	258.26	4.39	38.8	Hya
15 Apr 2017	09h31m21.73s	+02 45' 07.2"	2.9145	2.2972	10.2	118.7	17.6	11.82	259.05	4.83	48.7	Hya