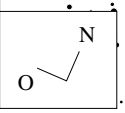
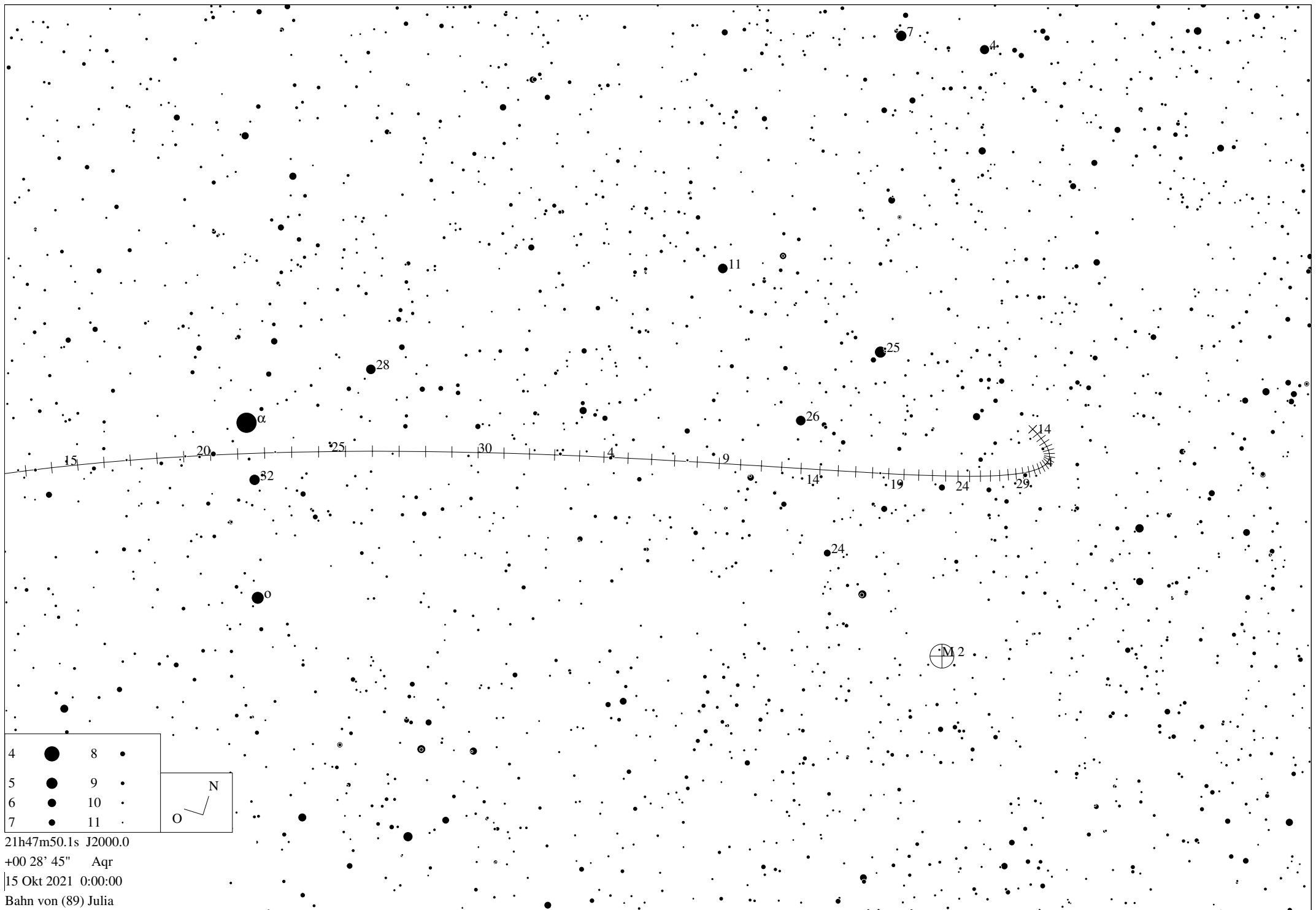


4		8	
5		9	
6		10	
7		11	



22h20m14.3s J2000.0
 -04 11' 16" Aqr
 1 Jul 2021 0:00:00
 Bahn von (89) Julia



Ephemeride des Kleinplaneten (89) Julia

Datum	RA	Deklination	r	delta	mag	Elong	Phase	Höhe	Az.	Gesch.	PA	Stb
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1 Jul 2021	22h35m24.26s	-07 45' 32.5"	2.1679	1.4554	10.4	121.5	23.6	18.65	131.22	26.51	13.2	Aqr
2 Jul 2021	22h35m34.43s	-07 35' 12.5"	2.1666	1.4446	10.3	122.4	23.3	19.24	132.01	26.17	10.9	Aqr
3 Jul 2021	22h35m42.81s	-07 24' 55.2"	2.1652	1.4339	10.3	123.2	23.1	19.83	132.81	25.87	8.5	Aqr
4 Jul 2021	22h35m49.36s	-07 14' 40.7"	2.1639	1.4233	10.3	124.1	22.9	20.41	133.63	25.61	6.0	Aqr
5 Jul 2021	22h35m54.08s	-07 04' 29.0"	2.1625	1.4128	10.3	125.0	22.7	20.99	134.47	25.40	3.4	Aqr
6 Jul 2021	22h35m56.94s	-06 54' 20.4"	2.1612	1.4024	10.2	125.9	22.4	21.57	135.32	25.23	0.7	Aqr
7 Jul 2021	22h35m57.92s	-06 44' 14.9"	2.1598	1.3921	10.2	126.7	22.2	22.14	136.19	25.11	358.0	Aqr
8 Jul 2021	22h35m57.01s	-06 34' 12.7"	2.1585	1.3820	10.2	127.6	21.9	22.71	137.08	25.05	355.3	Aqr
9 Jul 2021	22h35m54.20s	-06 24' 13.8"	2.1572	1.3720	10.2	128.5	21.6	23.28	137.98	25.03	352.5	Aqr
10 Jul 2021	22h35m49.47s	-06 14' 18.5"	2.1559	1.3621	10.1	129.4	21.4	23.84	138.90	25.08	349.7	Aqr
11 Jul 2021	22h35m42.81s	-06 04' 26.8"	2.1546	1.3524	10.1	130.3	21.1	24.39	139.83	25.17	346.9	Aqr
12 Jul 2021	22h35m34.21s	-05 54' 38.8"	2.1533	1.3428	10.1	131.3	20.8	24.95	140.79	25.33	344.2	Aqr
13 Jul 2021	22h35m23.67s	-05 44' 54.7"	2.1521	1.3333	10.1	132.2	20.5	25.49	141.77	25.54	341.4	Aqr
14 Jul 2021	22h35m11.18s	-05 35' 14.6"	2.1508	1.3240	10.0	133.1	20.2	26.03	142.76	25.80	338.7	Aqr
15 Jul 2021	22h34m56.73s	-05 25' 38.7"	2.1495	1.3148	10.0	134.0	19.9	26.57	143.77	26.12	336.0	Aqr
16 Jul 2021	22h34m40.33s	-05 16' 06.9"	2.1483	1.3058	10.0	135.0	19.5	27.10	144.80	26.48	333.5	Aqr
17 Jul 2021	22h34m21.98s	-05 06' 39.6"	2.1471	1.2970	9.9	135.9	19.2	27.62	145.86	26.90	330.9	Aqr
18 Jul 2021	22h34m01.68s	-04 57' 16.7"	2.1458	1.2883	9.9	136.9	18.9	28.13	146.93	27.36	328.5	Aqr
19 Jul 2021	22h33m39.43s	-04 47' 58.3"	2.1446	1.2797	9.9	137.9	18.5	28.63	148.02	27.86	326.1	Aqr
20 Jul 2021	22h33m15.24s	-04 38' 44.8"	2.1434	1.2714	9.9	138.8	18.2	29.13	149.14	28.40	323.9	Aqr
21 Jul 2021	22h32m49.12s	-04 29' 36.0"	2.1422	1.2631	9.8	139.8	17.8	29.61	150.27	28.98	321.7	Aqr
22 Jul 2021	22h32m21.07s	-04 20' 32.3"	2.1410	1.2551	9.8	140.8	17.5	30.09	151.43	29.59	319.6	Aqr
23 Jul 2021	22h31m51.09s	-04 11' 33.7"	2.1398	1.2473	9.8	141.8	17.1	30.55	152.61	30.23	317.6	Aqr
24 Jul 2021	22h31m19.21s	-04 02' 40.4"	2.1387	1.2396	9.8	142.8	16.7	31.00	153.81	30.89	315.6	Aqr
25 Jul 2021	22h30m45.43s	-03 53' 52.6"	2.1375	1.2321	9.7	143.8	16.3	31.45	155.03	31.58	313.8	Aqr
26 Jul 2021	22h30m09.76s	-03 45' 10.4"	2.1364	1.2248	9.7	144.8	15.9	31.87	156.27	32.29	312.0	Aqr
27 Jul 2021	22h29m32.23s	-03 36' 34.1"	2.1352	1.2176	9.7	145.8	15.5	32.29	157.53	33.01	310.3	Aqr
28 Jul 2021	22h28m52.84s	-03 28' 03.7"	2.1341	1.2107	9.6	146.8	15.1	32.69	158.82	33.75	308.7	Aqr
29 Jul 2021	22h28m11.63s	-03 19' 39.6"	2.1330	1.2039	9.6	147.8	14.7	33.08	160.13	34.49	307.2	Aqr
30 Jul 2021	22h27m28.62s	-03 11' 21.8"	2.1319	1.1974	9.6	148.8	14.3	33.45	161.45	35.24	305.8	Aqr
31 Jul 2021	22h26m43.84s	-03 03' 10.6"	2.1308	1.1910	9.6	149.9	13.8	33.80	162.80	35.99	304.4	Aqr
1 Aug 2021	22h25m57.31s	-02 55' 06.1"	2.1297	1.1849	9.5	150.9	13.4	34.14	164.17	36.73	303.1	Aqr
2 Aug 2021	22h25m09.09s	-02 47' 08.6"	2.1286	1.1790	9.5	151.9	13.0	34.47	165.56	37.47	301.8	Aqr
3 Aug 2021	22h24m19.21s	-02 39' 18.1"	2.1275	1.1732	9.5	152.9	12.5	34.77	166.97	38.20	300.6	Aqr
4 Aug 2021	22h23m27.72s	-02 31' 34.9"	2.1265	1.1677	9.5	153.9	12.1	35.05	168.40	38.91	299.5	Aqr
5 Aug 2021	22h22m34.67s	-02 23' 59.1"	2.1254	1.1624	9.4	155.0	11.7	35.32	169.85	39.61	298.4	Aqr
6 Aug 2021	22h21m40.11s	-02 16' 30.8"	2.1244	1.1573	9.4	156.0	11.2	35.57	171.32	40.28	297.4	Aqr
7 Aug 2021	22h20m44.09s	-02 09' 10.3"	2.1234	1.1525	9.4	157.0	10.8	35.79	172.80	40.94	296.4	Aqr
8 Aug 2021	22h19m46.69s	-02 01' 57.5"	2.1223	1.1479	9.3	158.0	10.3	36.00	174.29	41.56	295.5	Aqr
9 Aug 2021	22h18m47.97s	-01 54' 52.8"	2.1213	1.1435	9.3	159.0	9.9	36.18	175.81	42.15	294.6	Aqr
10 Aug 2021	22h17m47.99s	-01 47' 56.1"	2.1203	1.1393	9.3	160.0	9.4	36.34	177.33	42.71	293.7	Aqr
11 Aug 2021	22h16m46.84s	-01 41' 07.6"	2.1193	1.1354	9.3	160.9	9.0	36.48	178.87	43.23	292.9	Aqr
12 Aug 2021	22h15m44.59s	-01 34' 27.3"	2.1184	1.1317	9.2	161.9	8.6	36.60	180.42	43.71	292.2	Aqr
13 Aug 2021	22h14m41.31s	-01 27' 55.4"	2.1174	1.1282	9.2	162.8	8.1	36.69	181.98	44.15	291.5	Aqr
14 Aug 2021	22h13m37.10s	-01 21' 31.8"	2.1165	1.1250	9.2	163.7	7.7	36.76	183.54	44.55	290.8	Aqr
15 Aug 2021	22h12m32.03s	-01 15' 16.7"	2.1155	1.1220	9.2	164.5	7.3	36.80	185.12	44.90	290.1	Aqr
16 Aug 2021	22h11m26.19s	-01 09' 10.0"	2.1146	1.1193	9.1	165.3	7.0	36.82	186.69	45.20	289.5	Aqr
17 Aug 2021	22h10m19.68s	-01 03' 11.9"	2.1137	1.1168	9.1	166.1	6.6	36.82	188.28	45.46	288.9	Aqr
18 Aug 2021	22h09m12.56s	-00 57' 22.2"	2.1127	1.1145	9.1	166.8	6.3	36.79	189.86	45.67	288.4	Aqr
19 Aug 2021	22h08m04.95s	-00 51' 41.1"	2.1118	1.1125	9.1	167.4	6.0	36.74	191.45	45.82	287.8	Aqr
20 Aug 2021	22h06m56.91s	-00 46' 08.6"	2.1110	1.1108	9.1	168.0	5.7	36.67	193.03	45.93	287.3	Aqr
21 Aug 2021	22h05m48.55s	-00 40' 44.6"	2.1101	1.1093	9.0	168.4	5.5	36.57	194.61	45.99	286.8	Aqr
22 Aug 2021	22h04m39.95s	-00 35' 29.2"	2.1092	1.1080	9.0	168.7	5.4	36.45	196.19	45.99	286.4	Aqr
23 Aug 2021	22h03m31.20s	-00 30' 22.4"	2.1084	1.1070	9.0	168.9	5.3	36.30	197.76	45.95	285.9	Aqr
24 Aug 2021	22h02m22.39s	-00 25' 24.2"	2.1075	1.1062	9.0	169.0	5.3	36.13	199.33	45.85	285.5	Aqr
25 Aug 2021	22h01m13.62s	-00 20' 34.5"	2.1067	1.1057	9.0	168.9	5.3	35.94	200.89	45.69	285.1	Aqr
26 Aug 2021	22h00m04.97s	-00 15' 53.3"	2.1059	1.1054	9.0	168.8	5.4	35.73	202.44	45.48	284.7	Aqr
27 Aug 2021	21h58m56.55s	-00 11' 20.6"	2.1051	1.1053	9.0	168.5	5.5	35.49	203.98	45.22	284.3	Aqr
28 Aug 2021	21h57m48.44s	-00 06' 56.3"	2.1043	1.1055	9.0	168.0	5.7	35.24	205.50	44.90	284.0	Aqr
29 Aug 2021	21h56m40.75s	-00 02' 40.3"	2.1035	1.1060	9.1	167.5	6.0	34.96	207.02	44.53	283.6	Aqr
30 Aug 2021	21h55m33.55s	+00 01' 27.4"	2.1027	1.1067	9.1	166.9	6.2	34.66	208.52	44.10	283.3	Aqr
31 Aug 2021	21h54m26.96s	+00 05' 27.1"	2.1019	1.1076	9.1	166.2	6.6	34.34	210.00	43.61	283.0	Aqr
1 Sep 2021	21h53m21.06s	+00 09' 18.8"	2.1012	1.1088	9.1	165.5	6.9	34.01	211.47	43.07	282.7	Aqr
2 Sep 2021	21h52m15.95s	+00 13' 02.7"	2.1004	1.1102	9.1	164.7	7.3	33.65	212.93	42.47	282.5	Aqr
3 Sep 2021	21h51m11.71s	+00 16' 39.0"	2.0997	1.1119	9.1	163.8	7.7	33.28	214.37	41.82	282.2	Aqr
4 Sep 2021	21h50m08.45s	+00 20' 07.9"	2.0990	1.1138	9.2	162.9	8.1	32.89	215.78	41.12	282.0	Aqr
5 Sep 2021	21h49m06.24s	+00 23' 29.5"	2.0983	1.1160	9.2	162.0	8.5	32.49	217.18	40.37	281.8	Aqr
6 Sep 2021	21h48m05.17s	+00 26' 44.1"	2.0976	1.1183	9.2	161.1	9.0	32.07	218.57	39.56	281.6	Aqr
7 Sep 2021	21h47m05.33s	+00 29' 52.0"	2.0969	1.1210	9.2	160.1	9.4	31.63	219.93	38.71	281.4	Aqr
8 Sep 2021	21h46m06.80s	+00 32' 53.3"	2.0962	1.1238	9.3	159.1	9.9	31.19	221.27	37.81	281.3	Aqr
9 Sep 2021	21h45m09.67s	+00 35' 48.4"	2.0956	1.1269	9.3	158.1	10.3	30.73	222.60	36.86	281.2	Aqr
10 Sep 2021	21h44m13.99s	+00 38' 37.5"	2.0949	1.1302	9.3	157.1	10.8	30.26	223.90	35.87	281.1	Aqr
11 Sep 2021	21h43m19.85s	+00 41' 21.0"	2.0943	1.1337	9.3	156.1	11.2	29.77	225.18	34.84	281.1	Aqr
12 Sep 2021	21h42m27.32s	+00 43' 59.1"	2.0937	1.1374	9.3	155.1	11.7	29.28	226.45	33.78	281.0	Aqr

Ephemeride des Kleinplaneten (89) Julia

Datum	RA	Deklination	r	delta	mag	Elong	Phase	Höhe	Az.	Gesch.	PA	Stb
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13 Sep 2021	21h41m36.44s	+00 46' 32.2"	2.0931	1.1414	9.4	154.1	12.1	28.78	227.69	32.68	281.0	Aqr
14 Sep 2021	21h40m47.29s	+00 49' 00.5"	2.0925	1.1455	9.4	153.0	12.6	28.26	228.91	31.54	281.1	Aqr
15 Sep 2021	21h39m59.91s	+00 51' 24.3"	2.0919	1.1499	9.4	152.0	13.0	27.74	230.12	30.38	281.2	Aqr
16 Sep 2021	21h39m14.35s	+00 53' 44.0"	2.0913	1.1545	9.4	151.0	13.5	27.22	231.30	29.20	281.3	Aqr
17 Sep 2021	21h38m30.65s	+00 55' 59.8"	2.0907	1.1593	9.5	149.9	13.9	26.68	232.47	27.99	281.5	Aqr
18 Sep 2021	21h37m48.86s	+00 58' 12.0"	2.0902	1.1643	9.5	148.9	14.4	26.14	233.62	26.76	281.7	Aqr
19 Sep 2021	21h37m09.00s	+01 00' 20.9"	2.0896	1.1694	9.5	147.9	14.8	25.60	234.74	25.52	281.9	Aqr
20 Sep 2021	21h36m31.11s	+01 02' 26.7"	2.0891	1.1748	9.5	146.8	15.2	25.05	235.85	24.26	282.3	Aqr
21 Sep 2021	21h35m55.22s	+01 04' 29.7"	2.0886	1.1803	9.6	145.8	15.7	24.50	236.95	22.98	282.7	Aqr
22 Sep 2021	21h35m21.36s	+01 06' 30.2"	2.0881	1.1861	9.6	144.8	16.1	23.94	238.02	21.69	283.2	Aqr
23 Sep 2021	21h34m49.55s	+01 08' 28.4"	2.0876	1.1920	9.6	143.8	16.5	23.38	239.08	20.39	283.8	Aqr
24 Sep 2021	21h34m19.82s	+01 10' 24.7"	2.0871	1.1981	9.6	142.8	16.9	22.82	240.12	19.09	284.5	Aqr
25 Sep 2021	21h33m52.18s	+01 12' 19.2"	2.0867	1.2044	9.7	141.8	17.3	22.25	241.14	17.78	285.4	Aqr
26 Sep 2021	21h33m26.65s	+01 14' 12.3"	2.0862	1.2108	9.7	140.8	17.7	21.68	242.15	16.47	286.4	Aqr
27 Sep 2021	21h33m03.25s	+01 16' 04.2"	2.0858	1.2174	9.7	139.8	18.1	21.12	243.14	15.16	287.7	Aqr
28 Sep 2021	21h32m41.98s	+01 17' 55.2"	2.0853	1.2242	9.7	138.8	18.5	20.55	244.11	13.86	289.3	Aqr
29 Sep 2021	21h32m22.87s	+01 19' 45.5"	2.0849	1.2311	9.8	137.8	18.8	19.98	245.07	12.57	291.3	Aqr
30 Sep 2021	21h32m05.92s	+01 21' 35.5"	2.0845	1.2382	9.8	136.8	19.2	19.41	246.02	11.29	293.8	Aqr
1 Okt 2021	21h31m51.13s	+01 23' 25.4"	2.0841	1.2454	9.8	135.9	19.5	18.85	246.95	10.05	296.9	Aqr
2 Okt 2021	21h31m38.52s	+01 25' 15.4"	2.0837	1.2528	9.8	134.9	19.9	18.28	247.87	8.85	301.1	Aqr
3 Okt 2021	21h31m28.08s	+01 27' 05.8"	2.0834	1.2604	9.9	133.9	20.2	17.72	248.78	7.71	306.5	Aqr
4 Okt 2021	21h31m19.81s	+01 28' 57.0"	2.0830	1.2681	9.9	133.0	20.6	17.15	249.67	6.68	313.8	Aqr
5 Okt 2021	21h31m13.71s	+01 30' 49.1"	2.0827	1.2759	9.9	132.0	20.9	16.59	250.55	5.80	323.6	Aqr
6 Okt 2021	21h31m09.79s	+01 32' 42.5"	2.0823	1.2838	9.9	131.1	21.2	16.03	251.41	5.16	336.4	Aqr
7 Okt 2021	21h31m08.03s	+01 34' 37.3"	2.0820	1.2919	9.9	130.2	21.5	15.48	252.27	4.84	351.7	Aqr
8 Okt 2021	21h31m08.43s	+01 36' 33.9"	2.0817	1.3002	10.0	129.3	21.8	14.93	253.11	4.92	7.8	Aqr
9 Okt 2021	21h31m10.97s	+01 38' 32.5"	2.0814	1.3085	10.0	128.3	22.1	14.38	253.95	5.36	22.2	Aqr
10 Okt 2021	21h31m15.65s	+01 40' 33.4"	2.0811	1.3170	10.0	127.4	22.4	13.83	254.77	6.08	33.7	Aqr
11 Okt 2021	21h31m22.44s	+01 42' 36.8"	2.0809	1.3256	10.0	126.5	22.7	13.29	255.58	6.99	42.3	Aqr
12 Okt 2021	21h31m31.33s	+01 44' 42.9"	2.0806	1.3343	10.1	125.6	22.9	12.75	256.38	8.02	48.8	Aqr
13 Okt 2021	21h31m42.29s	+01 46' 51.8"	2.0804	1.3431	10.1	124.8	23.2	12.21	257.17	9.11	53.6	Aqr
14 Okt 2021	21h31m55.31s	+01 49' 03.9"	2.0801	1.3520	10.1	123.9	23.5	11.68	257.95	10.25	57.3	Aqr
15 Okt 2021	21h32m10.36s	+01 51' 19.2"	2.0799	1.3610	10.1	123.0	23.7	11.15	258.73	11.42	60.2	Aqr