







## Ephemeride des Kleinplaneten (4) Vesta

Datum	RA	Deklination	r	delta	mag	Elong	Phase	Höhe	Az.	Gesch.	PA	Stb
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1 Dez 2020	11h04m56.80s	+10 40' 05.8"	2.4351	2.3004	8.1	85.8	23.8	13.02	89.44	42.97	102.2	Leo
2 Dez 2020	11h06m05.06s	+10 36' 27.4"	2.4342	2.2865	8.1	86.5	23.8	13.41	90.04	42.45	102.0	Leo
3 Dez 2020	11h07m12.53s	+10 32' 55.5"	2.4333	2.2727	8.1	87.2	23.9	13.79	90.63	41.91	101.8	Leo
4 Dez 2020	11h08m19.19s	+10 29' 30.2"	2.4324	2.2589	8.1	88.0	23.9	14.19	91.23	41.36	101.6	Leo
5 Dez 2020	11h09m25.02s	+10 26' 11.7"	2.4315	2.2450	8.1	88.7	23.9	14.58	91.82	40.80	101.3	Leo
6 Dez 2020	11h10m30.02s	+10 23' 00.1"	2.4306	2.2312	8.1	89.5	23.9	14.98	92.43	40.23	101.1	Leo
7 Dez 2020	11h11m34.15s	+10 19' 55.6"	2.4297	2.2173	8.1	90.2	23.9	15.38	93.03	39.65	100.8	Leo
8 Dez 2020	11h12m37.42s	+10 16' 58.4"	2.4288	2.2035	8.0	91.0	23.9	15.79	93.64	39.05	100.5	Leo
9 Dez 2020	11h13m39.79s	+10 14' 08.7"	2.4279	2.1897	8.0	91.7	23.9	16.20	94.25	38.45	100.2	Leo
10 Dez 2020	11h14m41.25s	+10 11' 26.5"	2.4270	2.1758	8.0	92.5	23.9	16.61	94.86	37.83	99.9	Leo
11 Dez 2020	11h15m41.77s	+10 08' 52.1"	2.4260	2.1620	8.0	93.3	23.9	17.03	95.48	37.20	99.5	Leo
12 Dez 2020	11h16m41.35s	+10 06' 25.7"	2.4251	2.1482	8.0	94.0	23.9	17.45	96.10	36.56	99.2	Leo
13 Dez 2020	11h17m39.96s	+10 04' 07.3"	2.4242	2.1344	8.0	94.8	23.9	17.87	96.73	35.91	98.8	Leo
14 Dez 2020	11h18m37.59s	+10 01' 57.3"	2.4233	2.1206	8.0	95.6	23.8	18.30	97.36	35.24	98.4	Leo
15 Dez 2020	11h19m34.21s	+09 59' 55.6"	2.4223	2.1068	7.9	96.4	23.8	18.73	97.99	34.57	97.9	Leo
16 Dez 2020	11h20m29.81s	+09 58' 02.6"	2.4214	2.0931	7.9	97.2	23.8	19.17	98.63	33.88	97.5	Leo
17 Dez 2020	11h21m24.36s	+09 56' 18.3"	2.4205	2.0794	7.9	98.0	23.7	19.61	99.27	33.19	97.0	Leo
18 Dez 2020	11h22m10.29s	+09 54' 42.9"	2.4196	2.0657	7.9	98.8	23.7	20.05	99.92	32.49	96.5	Leo
19 Dez 2020	11h23m10.29s	+09 53' 16.5"	2.4186	2.0520	7.9	99.6	23.7	20.50	100.57	31.77	96.0	Leo
20 Dez 2020	11h24m01.62s	+09 51' 59.3"	2.4177	2.0384	7.9	100.4	23.6	20.95	101.22	31.05	95.4	Leo
21 Dez 2020	11h24m51.85s	+09 50' 51.4"	2.4168	2.0248	7.8	101.2	23.5	21.40	101.88	30.33	94.8	Leo
22 Dez 2020	11h25m40.95s	+09 49' 52.9"	2.4158	2.0113	7.8	102.0	23.5	21.86	102.55	29.59	94.1	Leo
23 Dez 2020	11h26m28.91s	+09 49' 04.0"	2.4149	1.9978	7.8	102.8	23.4	22.32	103.22	28.84	93.4	Leo
24 Dez 2020	11h27m15.70s	+09 48' 24.9"	2.4140	1.9843	7.8	103.7	23.3	22.79	103.90	28.09	92.7	Leo
25 Dez 2020	11h28m01.32s	+09 47' 55.6"	2.4130	1.9709	7.8	104.5	23.2	23.25	104.58	27.33	91.9	Leo
26 Dez 2020	11h28m45.74s	+09 47' 36.3"	2.4121	1.9576	7.7	105.3	23.2	23.73	105.27	26.57	91.0	Leo
27 Dez 2020	11h29m28.94s	+09 47' 27.1"	2.4111	1.9443	7.7	106.2	23.1	24.20	105.97	25.80	90.1	Leo
28 Dez 2020	11h30m10.90s	+09 47' 28.1"	2.4102	1.9310	7.7	107.0	23.0	24.68	106.67	25.02	89.2	Leo
29 Dez 2020	11h30m51.60s	+09 47' 39.6"	2.4092	1.9179	7.7	107.9	22.9	25.17	107.38	24.24	88.1	Leo
30 Dez 2020	11h31m31.03s	+09 48' 01.5"	2.4083	1.9047	7.7	108.8	22.7	25.65	108.09	23.45	87.0	Leo
31 Dez 2020	11h32m09.16s	+09 48' 34.2"	2.4074	1.8917	7.7	109.6	22.6	26.14	108.82	22.66	85.7	Leo
1 Jan 2021	11h32m45.97s	+09 49' 17.6"	2.4064	1.8787	7.6	110.5	22.5	26.64	109.55	21.87	84.4	Leo
2 Jan 2021	11h33m21.43s	+09 50' 11.9"	2.4054	1.8658	7.6	111.4	22.4	27.14	110.29	21.08	82.9	Leo
3 Jan 2021	11h33m55.53s	+09 51' 17.2"	2.4045	1.8529	7.6	112.3	22.2	27.64	111.03	20.29	81.3	Leo
4 Jan 2021	11h34m28.24s	+09 52' 33.7"	2.4035	1.8402	7.6	113.2	22.1	28.14	111.79	19.50	79.6	Leo
5 Jan 2021	11h34m59.54s	+09 54' 01.6"	2.4026	1.8275	7.6	114.1	21.9	28.65	112.55	18.72	77.7	Leo
6 Jan 2021	11h35m29.41s	+09 55' 40.8"	2.4016	1.8149	7.5	115.0	21.8	29.16	113.33	17.95	75.5	Leo
7 Jan 2021	11h35m57.81s	+09 57' 31.5"	2.4007	1.8024	7.5	115.9	21.6	29.68	114.11	17.20	73.2	Leo
8 Jan 2021	11h36m24.73s	+09 59' 33.9"	2.3997	1.7900	7.5	116.8	21.5	30.19	114.91	16.46	70.7	Leo
9 Jan 2021	11h36m50.14s	+10 01' 48.1"	2.3988	1.7777	7.5	117.7	21.3	30.72	115.71	15.75	67.8	Leo
10 Jan 2021	11h37m14.03s	+10 04' 14.0"	2.3978	1.7654	7.4	118.7	21.1	31.24	116.53	15.06	64.7	Leo
11 Jan 2021	11h37m36.37s	+10 06' 51.9"	2.3968	1.7533	7.4	119.6	20.9	31.77	117.35	14.42	61.3	Vir
12 Jan 2021	11h37m57.13s	+10 09' 41.7"	2.3959	1.7413	7.4	120.5	20.7	32.30	118.19	13.82	57.5	Vir
13 Jan 2021	11h38m16.31s	+10 12' 43.6"	2.3949	1.7294	7.4	121.5	20.5	32.83	119.04	13.29	53.3	Vir
14 Jan 2021	11h38m33.87s	+10 15' 57.4"	2.3939	1.7176	7.4	122.5	20.3	33.36	119.91	12.82	48.9	Vir
15 Jan 2021	11h38m49.82s	+10 19' 23.4"	2.3930	1.7060	7.3	123.4	20.1	33.90	120.78	12.42	44.0	Leo
16 Jan 2021	11h39m04.12s	+10 23' 01.3"	2.3920	1.6945	7.3	124.4	19.8	34.44	121.68	12.12	38.9	Leo
17 Jan 2021	11h39m16.77s	+10 26' 51.4"	2.3910	1.6831	7.3	125.4	19.6	34.98	122.58	11.91	33.5	Leo
18 Jan 2021	11h39m27.75s	+10 30' 53.4"	2.3901	1.6718	7.3	126.3	19.4	35.52	123.50	11.81	27.9	Leo
19 Jan 2021	11h39m37.05s	+10 35' 07.4"	2.3891	1.6607	7.2	127.3	19.1	36.07	124.44	11.81	22.2	Leo
20 Jan 2021	11h39m44.65s	+10 39' 33.4"	2.3881	1.6497	7.2	128.3	18.9	36.61	125.39	11.93	16.6	Leo
21 Jan 2021	11h39m50.55s	+10 44' 11.2"	2.3872	1.6388	7.2	129.3	18.6	37.16	126.36	12.15	11.1	Leo
22 Jan 2021	11h39m54.72s	+10 49' 00.9"	2.3862	1.6281	7.2	130.3	18.3	37.71	127.34	12.47	5.9	Leo
23 Jan 2021	11h39m57.17s	+10 54' 02.2"	2.3852	1.6176	7.1	131.4	18.0	38.26	128.34	12.90	0.9	Leo
24 Jan 2021	11h39m57.88s	+10 59' 15.1"	2.3842	1.6072	7.1	132.4	17.8	38.80	129.37	13.40	356.2	Leo
25 Jan 2021	11h39m56.85s	+11 04' 39.6"	2.3833	1.5970	7.1	133.4	17.5	39.35	130.41	13.99	351.9	Leo
26 Jan 2021	11h39m54.06s	+11 10' 15.4"	2.3823	1.5869	7.1	134.4	17.2	39.90	131.47	14.64	347.9	Leo
27 Jan 2021	11h39m49.51s	+11 16' 02.4"	2.3813	1.5770	7.1	135.5	16.9	40.44	132.55	15.35	344.3	Leo
28 Jan 2021	11h39m43.19s	+11 22' 00.4"	2.3803	1.5673	7.0	136.5	16.5	40.99	133.65	16.11	341.0	Leo
29 Jan 2021	11h39m35.10s	+11 28' 09.4"	2.3793	1.5577	7.0	137.6	16.2	41.53	134.78	16.92	338.0	Leo
30 Jan 2021	11h39m25.24s	+11 34' 29.0"	2.3784	1.5484	7.0	138.6	15.9	42.07	135.93	17.76	335.2	Leo
31 Jan 2021	11h39m13.59s	+11 40' 59.2"	2.3774	1.5392	6.9	139.7	15.6	42.60	137.10	18.63	332.7	Leo
1 Feb 2021	11h39m00.16s	+11 47' 39.6"	2.3764	1.5302	6.9	140.7	15.2	43.14	138.30	19.52	330.4	Leo
2 Feb 2021	11h38m44.95s	+11 54' 30.0"	2.3754	1.5214	6.9	141.8	14.9	43.67	139.52	20.43	328.3	Leo
3 Feb 2021	11h38m27.96s	+12 01' 30.2"	2.3744	1.5128	6.9	142.9	14.5	44.19	140.77	21.36	326.4	Leo
4 Feb 2021	11h38m09.19s	+12 08' 39.9"	2.3734	1.5044	6.8	144.0	14.1	44.71	142.04	22.30	324.6	Leo
5 Feb 2021	11h37m48.65s	+12 15' 58.8"	2.3725	1.4961	6.8	145.0	13.8	45.22	143.34	23.24	322.9	Leo
6 Feb 2021	11h37m26.35s	+12 23' 26.5"	2.3715	1.4881	6.8	146.1	13.4	45.73	144.67	24.18	321.4	Leo
7 Feb 2021	11h37m02.30s	+12 31' 02.7"	2.3705	1.4804	6.8	147.2	13.0	46.23	146.03	25.12	320.0	Leo
8 Feb 2021	11h36m36.51s	+12 38' 47.0"	2.3695	1.4728	6.7	148.3	12.6	46.72	147.42	26.06	318.7	Leo
9 Feb 2021	11h36m09.00s	+12 46' 39.0"	2.3685	1.4654	6.7	149.4	12.2	47.20	148.84	26.98	317.4	Leo
10 Feb 2021	11h35m39.81s	+12 54' 38.1"	2.3675	1.4583	6.7	150.5	11.8	47.67	150.29	27.89	316.3	Leo
11 Feb 2021	11h35m08.94s	+13 02' 44.0"	2.3665	1.4514	6.7	151.6	11.4	48.13	151.77	28.78	315.2	Leo
12 Feb 2021	11h34m36.44s	+13 10' 56.1"	2.3655	1.4447	6.6	152.7	11.0	48.58	153.28	29.65	314.2	Leo

## Ephemeride des Kleinplaneten (4) Vesta

Datum	RA	Deklination	r	delta	mag	Elong	Phase	Höhe	Az.	Gesch.	PA	Stb
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13 Feb 2021	11h34m02.33s	+13 19' 14.0"	2.3646	1.4383	6.6	153.8	10.6	49.02	154.83	30.50	313.2	Leo
14 Feb 2021	11h33m26.65s	+13 27' 37.0"	2.3636	1.4321	6.6	154.8	10.2	49.44	156.40	31.32	312.3	Leo
15 Feb 2021	11h32m49.44s	+13 36' 04.6"	2.3626	1.4262	6.6	155.9	9.8	49.85	158.01	32.12	311.5	Leo
16 Feb 2021	11h32m10.74s	+13 44' 36.2"	2.3616	1.4205	6.5	157.0	9.4	50.25	159.65	32.88	310.6	Leo
17 Feb 2021	11h31m30.60s	+13 53' 11.3"	2.3606	1.4150	6.5	158.0	9.0	50.62	161.32	33.62	309.9	Leo
18 Feb 2021	11h30m49.05s	+14 01' 49.2"	2.3596	1.4098	6.5	159.1	8.6	50.98	163.02	34.32	309.1	Leo
19 Feb 2021	11h30m06.15s	+14 10' 29.4"	2.3586	1.4049	6.5	160.1	8.2	51.32	164.75	34.98	308.4	Leo
20 Feb 2021	11h29m21.96s	+14 19' 11.1"	2.3576	1.4002	6.4	161.1	7.8	51.65	166.52	35.61	307.7	Leo
21 Feb 2021	11h28m36.51s	+14 27' 53.8"	2.3566	1.3957	6.4	162.1	7.4	51.95	168.31	36.19	307.0	Leo
22 Feb 2021	11h27m49.88s	+14 36' 36.8"	2.3556	1.3915	6.4	163.1	7.0	52.23	170.13	36.74	306.4	Leo
23 Feb 2021	11h27m02.11s	+14 45' 19.5"	2.3546	1.3876	6.4	164.0	6.6	52.49	171.97	37.25	305.7	Leo
24 Feb 2021	11h26m13.27s	+14 54' 01.3"	2.3536	1.3840	6.3	164.9	6.3	52.72	173.84	37.71	305.1	Leo
25 Feb 2021	11h25m23.41s	+15 02' 41.4"	2.3527	1.3806	6.3	165.8	5.9	52.93	175.73	38.13	304.5	Leo
26 Feb 2021	11h24m32.61s	+15 11' 19.2"	2.3517	1.3774	6.3	166.6	5.6	53.12	177.64	38.51	303.9	Leo
27 Feb 2021	11h23m04.92s	+15 19' 54.2"	2.3507	1.3746	6.3	167.3	5.3	53.28	179.57	38.84	303.4	Leo
28 Feb 2021	11h22m48.42s	+15 28' 25.6"	2.3497	1.3720	6.2	167.9	5.1	53.42	181.52	39.12	302.8	Leo
1 Mar 2021	11h21m55.16s	+15 36' 52.9"	2.3487	1.3696	6.2	168.4	4.9	53.52	183.48	39.36	302.2	Leo
2 Mar 2021	11h21m01.22s	+15 45' 15.4"	2.3477	1.3676	6.2	168.8	4.7	53.61	185.45	39.55	301.7	Leo
3 Mar 2021	11h20m06.67s	+15 53' 32.4"	2.3467	1.3658	6.2	169.1	4.6	53.66	187.43	39.70	301.1	Leo
4 Mar 2021	11h19m11.58s	+16 01' 43.4"	2.3457	1.3642	6.2	169.3	4.5	53.69	189.42	39.80	300.6	Leo
5 Mar 2021	11h18m16.03s	+16 09' 47.8"	2.3447	1.3630	6.2	169.3	4.5	53.68	191.41	39.84	300.1	Leo
6 Mar 2021	11h17m20.09s	+16 17' 44.8"	2.3437	1.3620	6.2	169.1	4.6	53.65	193.40	39.84	299.5	Leo
7 Mar 2021	11h16m23.84s	+16 25' 34.0"	2.3427	1.3613	6.2	168.8	4.7	53.60	195.38	39.78	299.0	Leo
8 Mar 2021	11h15m27.37s	+16 33' 14.7"	2.3417	1.3608	6.2	168.4	4.9	53.51	197.36	39.67	298.5	Leo
9 Mar 2021	11h14m30.76s	+16 40' 46.2"	2.3407	1.3606	6.2	167.9	5.1	53.39	199.33	39.51	297.9	Leo
10 Mar 2021	11h13m34.09s	+16 48' 08.2"	2.3397	1.3607	6.2	167.3	5.4	53.25	201.28	39.29	297.4	Leo
11 Mar 2021	11h12m37.45s	+16 55' 19.9"	2.3387	1.3611	6.2	166.6	5.7	53.08	203.22	39.02	296.9	Leo
12 Mar 2021	11h11m40.93s	+17 02' 20.8"	2.3377	1.3617	6.3	165.8	6.0	52.89	205.15	38.70	296.4	Leo
13 Mar 2021	11h10m44.60s	+17 09' 10.5"	2.3367	1.3626	6.3	165.0	6.3	52.67	207.05	38.33	295.8	Leo
14 Mar 2021	11h09m48.56s	+17 15' 48.4"	2.3357	1.3637	6.3	164.1	6.7	52.42	208.93	37.91	295.3	Leo
15 Mar 2021	11h08m52.89s	+17 22' 14.1"	2.3348	1.3651	6.3	163.1	7.1	52.15	210.79	37.44	294.7	Leo
16 Mar 2021	11h07m57.67s	+17 28' 27.2"	2.3338	1.3668	6.3	162.2	7.5	51.85	212.62	36.91	294.2	Leo
17 Mar 2021	11h07m02.99s	+17 34' 27.2"	2.3328	1.3687	6.4	161.2	7.9	51.53	214.42	36.35	293.6	Leo
18 Mar 2021	11h06m08.92s	+17 40' 13.7"	2.3318	1.3709	6.4	160.2	8.3	51.19	216.19	35.74	293.0	Leo
19 Mar 2021	11h05m15.54s	+17 45' 46.6"	2.3308	1.3733	6.4	159.1	8.7	50.83	217.94	35.08	292.5	Leo
20 Mar 2021	11h04m22.92s	+17 51' 05.3"	2.3298	1.3760	6.4	158.1	9.2	50.44	219.65	34.39	291.9	Leo
21 Mar 2021	11h03m31.14s	+17 56' 09.8"	2.3288	1.3789	6.4	157.0	9.6	50.04	221.33	33.65	291.2	Leo
22 Mar 2021	11h02m40.28s	+18 00' 59.6"	2.3278	1.3821	6.5	156.0	10.0	49.62	222.97	32.88	290.6	Leo
23 Mar 2021	11h01m50.39s	+18 05' 34.7"	2.3268	1.3855	6.5	154.9	10.5	49.17	224.58	32.07	290.0	Leo
24 Mar 2021	11h01m01.54s	+18 09' 54.8"	2.3258	1.3891	6.5	153.8	10.9	48.72	226.16	31.23	289.3	Leo
25 Mar 2021	11h00m13.80s	+18 13' 59.7"	2.3248	1.3930	6.5	152.8	11.3	48.24	227.71	30.37	288.6	Leo
26 Mar 2021	10h59m27.21s	+18 17' 49.4"	2.3238	1.3971	6.6	151.7	11.8	47.76	229.22	29.47	287.9	Leo
27 Mar 2021	10h58m41.85s	+18 21' 23.8"	2.3229	1.4014	6.6	150.6	12.2	47.25	230.69	28.55	287.1	Leo
28 Mar 2021	10h57m57.75s	+18 24' 42.8"	2.3219	1.4059	6.6	149.5	12.6	46.74	232.14	27.60	286.3	Leo
29 Mar 2021	10h57m14.97s	+18 27' 46.3"	2.3209	1.4106	6.6	148.4	13.0	46.21	233.55	26.64	285.4	Leo
30 Mar 2021	10h56m33.55s	+18 30' 34.3"	2.3199	1.4156	6.6	147.4	13.4	45.67	234.93	25.65	284.5	Leo
31 Mar 2021	10h55m53.54s	+18 33' 06.8"	2.3189	1.4208	6.7	146.3	13.8	45.12	236.27	24.65	283.6	Leo
1 Apr 2021	10h55m14.98s	+18 35' 23.9"	2.3179	1.4261	6.7	145.2	14.2	44.56	237.59	23.63	282.6	Leo
2 Apr 2021	10h54m37.91s	+18 37' 25.5"	2.3169	1.4317	6.7	144.1	14.6	43.99	238.87	22.60	281.5	Leo
3 Apr 2021	10h54m02.36s	+18 39' 11.7"	2.3159	1.4374	6.7	143.1	15.0	43.41	240.13	21.56	280.3	Leo
4 Apr 2021	10h53m28.39s	+18 40' 42.4"	2.3150	1.4434	6.7	142.0	15.4	42.83	241.35	20.51	279.0	Leo
5 Apr 2021	10h52m56.01s	+18 41' 57.9"	2.3140	1.4495	6.8	141.0	15.8	42.23	242.55	19.44	277.6	Leo
6 Apr 2021	10h52m25.27s	+18 42' 58.1"	2.3130	1.4559	6.8	139.9	16.2	41.63	243.72	18.38	276.0	Leo
7 Apr 2021	10h51m56.20s	+18 43' 43.0"	2.3120	1.4624	6.8	138.9	16.5	41.03	244.86	17.31	274.3	Leo
8 Apr 2021	10h51m28.82s	+18 44' 12.9"	2.3110	1.4691	6.8	137.8	16.9	40.42	245.97	16.25	272.4	Leo
9 Apr 2021	10h51m03.17s	+18 44' 27.8"	2.3100	1.4759	6.9	136.8	17.3	39.81	247.06	15.19	270.2	Leo
10 Apr 2021	10h50m39.25s	+18 44' 27.8"	2.3091	1.4829	6.9	135.8	17.6	39.19	248.13	14.15	267.7	Leo
11 Apr 2021	10h50m17.10s	+18 44' 13.1"	2.3081	1.4901	6.9	134.7	18.0	38.57	249.17	13.12	264.8	Leo
12 Apr 2021	10h49m56.73s	+18 43' 43.8"	2.3071	1.4975	6.9	133.7	18.3	37.94	250.19	12.12	261.5	Leo
13 Apr 2021	10h49m38.16s	+18 43' 00.1"	2.3061	1.5050	6.9	132.7	18.6	37.31	251.18	11.17	257.6	Leo
14 Apr 2021	10h49m21.39s	+18 42' 02.2"	2.3051	1.5126	7.0	131.7	18.9	36.68	252.15	10.26	253.1	Leo
15 Apr 2021	10h49m06.44s	+18 40' 50.1"	2.3042	1.5204	7.0	130.7	19.3	36.05	253.10	9.43	247.8	Leo
16 Apr 2021	10h48m53.31s	+18 39' 24.2"	2.3032	1.5283	7.0	129.8	19.6	35.42	254.04	8.68	241.5	Leo
17 Apr 2021	10h48m42.01s	+18 37' 44.6"	2.3022	1.5364	7.0	128.8	19.9	34.78	254.95	8.05	234.2	Leo
18 Apr 2021	10h48m32.54s	+18 35' 51.5"	2.3012	1.5446	7.0	127.8	20.2	34.14	255.84	7.57	225.9	Leo
19 Apr 2021	10h48m24.89s	+18 33' 45.2"	2.3003	1.5530	7.1	126.9	20.4	33.51	256.71	7.25	216.7	Leo
20 Apr 2021	10h48m19.06s	+18 31' 25.8"	2.2993	1.5614	7.1	125.9	20.7	32.87	257.57	7.13	207.0	Leo
21 Apr 2021	10h48m15.04s	+18 28' 53.5"	2.2983	1.5700	7.1	125.0	21.0	32.23	258.41	7.21	197.4	Leo
22 Apr 2021	10h48m12.84s	+18 26' 08.6"	2.2974	1.5787	7.1	124.0	21.3	31.60	259.23	7.48	188.2	Leo
23 Apr 2021	10h48m12.43s	+18 23' 11.3"	2.2964	1.5875	7.1	123.1	21.5	30.96	260.04	7.92	179.9	Leo
24 Apr 2021	10h48m13.81s	+18 20' 01.9"	2.2954	1.5964	7.2	122.2	21.8	30.32	260.83	8.49	172.7	Leo
25 Apr 2021	10h48m16.96s	+18 16' 40.5"	2.2945	1.6054	7.2	121.2	22.0	29.69	261.61	9.16	166.5	Leo
26 Apr 2021	10h48m21.87s	+18 13' 07.4"	2.2935	1.6145	7.2	120.3	22.3	29.05	262.37	9.92	161.2	Leo
27 Apr 2021	10h48m28.52s	+18 09' 22.8"	2.2925	1.6237	7.2	119.4	22.5	28.42	263.12	10.74	156.7	Leo
28 Apr 2021	10h48m36.90s	+18 05' 27.0"	2.2916	1.6330	7.2	118.5	22.7	27.79	263.86	11.60	152.9	Leo

## Ephemeride des Kleinplaneten (4) Vesta

Datum	RA	Deklination	r	delta	mag	Elong	Phase	Höhe	Az.	Gesch.	PA	Stb
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29 Apr 2021	10h48m46.98s	+18 01' 20.1"	2.2906	1.6424	7.2	117.7	22.9	27.16	264.58	12.50	149.7	Leo
30 Apr 2021	10h48m58.76s	+17 57' 02.3"	2.2896	1.6519	7.3	116.8	23.1	26.53	265.29	13.41	146.9	Leo
1 Mai 2021	10h49m12.22s	+17 52' 33.8"	2.2887	1.6615	7.3	115.9	23.3	25.90	265.99	14.35	144.4	Leo
2 Mai 2021	10h49m27.34s	+17 47' 54.9"	2.2877	1.6711	7.3	115.0	23.5	25.27	266.68	15.29	142.3	Leo
3 Mai 2021	10h49m44.10s	+17 43' 05.6"	2.2868	1.6808	7.3	114.2	23.7	24.65	267.36	16.24	140.5	Leo
4 Mai 2021	10h50m02.50s	+17 38' 06.2"	2.2858	1.6906	7.3	113.3	23.9	24.02	268.02	17.20	138.8	Leo
5 Mai 2021	10h50m22.52s	+17 32' 56.8"	2.2849	1.7005	7.4	112.5	24.1	23.40	268.68	18.16	137.3	Leo
6 Mai 2021	10h50m44.13s	+17 27' 37.7"	2.2839	1.7104	7.4	111.6	24.2	22.78	269.33	19.11	136.0	Leo
7 Mai 2021	10h51m07.33s	+17 22' 08.9"	2.2830	1.7204	7.4	110.8	24.4	22.16	269.97	20.07	134.8	Leo
8 Mai 2021	10h51m32.09s	+17 16' 30.6"	2.2820	1.7305	7.4	110.0	24.6	21.55	270.59	21.02	133.8	Leo
9 Mai 2021	10h51m58.40s	+17 10' 43.0"	2.2811	1.7406	7.4	109.2	24.7	20.93	271.21	21.96	132.8	Leo
10 Mai 2021	10h52m26.23s	+17 04' 46.3"	2.2801	1.7508	7.4	108.4	24.9	20.32	271.82	22.90	131.9	Leo
11 Mai 2021	10h52m55.57s	+16 58' 40.7"	2.2792	1.7610	7.5	107.6	25.0	19.71	272.43	23.83	131.1	Leo
12 Mai 2021	10h53m26.39s	+16 52' 26.2"	2.2782	1.7713	7.5	106.8	25.1	19.10	273.02	24.75	130.3	Leo
13 Mai 2021	10h53m58.68s	+16 46' 03.1"	2.2773	1.7817	7.5	106.0	25.3	18.50	273.61	25.66	129.7	Leo
14 Mai 2021	10h54m32.41s	+16 39' 31.5"	2.2764	1.7920	7.5	105.2	25.4	17.89	274.19	26.56	129.0	Leo
15 Mai 2021	10h55m07.57s	+16 32' 51.6"	2.2754	1.8024	7.5	104.4	25.5	17.29	274.76	27.45	128.4	Leo
16 Mai 2021	10h55m44.12s	+16 26' 03.6"	2.2745	1.8129	7.5	103.6	25.6	16.69	275.33	28.33	127.9	Leo
17 Mai 2021	10h56m22.05s	+16 19' 07.5"	2.2736	1.8234	7.5	102.9	25.7	16.10	275.89	29.20	127.4	Leo
18 Mai 2021	10h57m01.32s	+16 12' 03.6"	2.2726	1.8339	7.6	102.1	25.8	15.50	276.44	30.05	126.9	Leo
19 Mai 2021	10h57m41.93s	+16 04' 52.0"	2.2717	1.8445	7.6	101.4	25.9	14.91	276.99	30.89	126.5	Leo
20 Mai 2021	10h58m23.85s	+15 57' 32.8"	2.2708	1.8550	7.6	100.6	26.0	14.32	277.53	31.72	126.0	Leo
21 Mai 2021	10h59m07.04s	+15 50' 06.3"	2.2698	1.8656	7.6	99.9	26.1	13.73	278.07	32.54	125.7	Leo
22 Mai 2021	10h59m51.49s	+15 42' 32.5"	2.2689	1.8763	7.6	99.1	26.1	13.15	278.60	33.34	125.3	Leo
23 Mai 2021	11h00m37.18s	+15 34' 51.7"	2.2680	1.8869	7.6	98.4	26.2	12.56	279.13	34.13	125.0	Leo
24 Mai 2021	11h01m24.07s	+15 27' 03.9"	2.2671	1.8976	7.6	97.7	26.3	11.98	279.65	34.91	124.6	Leo
25 Mai 2021	11h02m12.15s	+15 19' 09.3"	2.2662	1.9083	7.7	97.0	26.3	11.40	280.16	35.67	124.3	Leo
26 Mai 2021	11h03m01.39s	+15 11' 08.0"	2.2652	1.9190	7.7	96.2	26.4	10.82	280.68	36.42	124.0	Leo
27 Mai 2021	11h03m51.77s	+15 03' 00.1"	2.2643	1.9297	7.7	95.5	26.4	10.25	281.18	37.16	123.8	Leo
28 Mai 2021	11h04m43.27s	+14 54' 45.9"	2.2634	1.9404	7.7	94.8	26.5	9.67	281.69	37.89	123.5	Leo
29 Mai 2021	11h05m35.87s	+14 46' 25.3"	2.2625	1.9511	7.7	94.1	26.5	9.10	282.19	38.60	123.3	Leo
30 Mai 2021	11h06m29.56s	+14 37' 58.5"	2.2616	1.9619	7.7	93.4	26.6	8.53	282.68	39.31	123.0	Leo
31 Mai 2021	11h07m24.31s	+14 29' 25.6"	2.2607	1.9726	7.7	92.7	26.6	7.97	283.17	40.01	122.8	Leo
1 Jun 2021	11h08m20.11s	+14 20' 46.6"	2.2598	1.9834	7.7	92.1	26.6	7.40	283.66	40.69	122.6	Leo