



**Ephemeriden für Sternfreunde
von Karl-Heinz Bücke**

www.buecke-info.de

Mars 2025

Datum	α	δ	b	Δ (AE)	E	mv	φ	$\varnothing$	k	q (")	l	r
1.01.	8:20	23.5	3.9	0.657	159 W	-1.2	12.9	14.25	0.987	0.18	109.2	1.613
4.01.	8:16	23.9	4.0	0.650	163 W	-1.2	10.5	14.39	0.992	0.12	110.6	1.615
7.01.	8:11	24.2	4.1	0.646	166 W	-1.3	8.2	14.50	0.995	0.07	112.0	1.618
10.01.	8:06	24.5	4.2	0.643	170 W	-1.3	5.8	14.56	0.997	0.04	113.4	1.621
13.01.	8:01	24.8	4.2	0.642	174 W	-1.4	3.7	14.57	0.999	0.02	114.8	1.624
16.01.	7:56	25.1	4.3	0.644	176 W	-1.4	2.6	14.54	0.999	0.01	116.2	1.626
19.01.	7:51	25.4	4.3	0.647	174 O	-1.3	3.6	14.47	0.999	0.01	117.5	1.629
22.01.	7:46	25.6	4.3	0.652	171 O	-1.3	5.6	14.35	0.998	0.03	118.9	1.631
25.01.	7:41	25.8	4.3	0.659	167 O	-1.2	7.9	14.19	0.995	0.07	120.3	1.633
28.01.	7:37	25.9	4.3	0.669	163 O	-1.2	10.2	14.00	0.992	0.11	121.6	1.636
31.01.	7:32	26.1	4.3	0.680	159 O	-1.1	12.4	13.77	0.988	0.16	123.0	1.638
3.02.	7:28	26.1	4.2	0.692	155 O	-1.0	14.6	13.52	0.984	0.22	124.3	1.640
6.02.	7:25	26.2	4.2	0.707	151 O	-0.9	16.7	13.24	0.979	0.28	125.7	1.642
9.02.	7:22	26.2	4.1	0.723	148 O	-0.8	18.7	12.95	0.974	0.34	127.0	1.644
12.02.	7:20	26.2	4.0	0.740	144 O	-0.8	20.5	12.64	0.968	0.40	128.4	1.646
15.02.	7:18	26.2	4.0	0.759	141 O	-0.7	22.2	12.33	0.963	0.46	129.7	1.648
18.02.	7:17	26.2	3.9	0.779	138 O	-0.6	23.9	12.01	0.957	0.51	131.1	1.650
21.02.	7:16	26.1	3.8	0.801	134 O	-0.5	25.4	11.69	0.952	0.56	132.4	1.651
24.02.	7:15	26.0	3.7	0.823	131 O	-0.4	26.7	11.37	0.947	0.61	133.7	1.653
27.02.	7:16	25.9	3.6	0.846	128 O	-0.3	28.0	11.06	0.941	0.65	135.1	1.654
2.03.	7:16	25.8	3.5	0.870	126 O	-0.3	29.2	10.76	0.937	0.68	136.4	1.656
5.03.	7:17	25.7	3.4	0.895	123 O	-0.2	30.2	10.46	0.932	0.71	137.7	1.657
8.03.	7:19	25.5	3.3	0.920	120 O	-0.1	31.2	10.17	0.928	0.73	139.0	1.658
11.03.	7:21	25.4	3.2	0.946	118 O	0.0	32.0	9.89	0.924	0.75	140.4	1.659
14.03.	7:23	25.2	3.2	0.973	115 O	0.0	32.8	9.62	0.920	0.77	141.7	1.660
17.03.	7:26	25.1	3.1	1.000	113 O	0.1	33.5	9.36	0.917	0.78	143.0	1.661
20.03.	7:29	24.9	3.0	1.027	111 O	0.2	34.1	9.11	0.914	0.78	144.3	1.662
23.03.	7:32	24.7	2.9	1.055	108 O	0.3	34.7	8.88	0.911	0.79	145.6	1.663
26.03.	7:36	24.5	2.8	1.082	106 O	0.3	35.2	8.65	0.909	0.79	146.9	1.664
29.03.	7:39	24.2	2.7	1.111	104 O	0.4	35.6	8.43	0.907	0.79	148.3	1.664
1.04.	7:43	24.0	2.7	1.139	102 O	0.4	35.9	8.22	0.905	0.78	149.6	1.665
4.04.	7:48	23.7	2.6	1.167	100 O	0.5	36.2	8.02	0.903	0.78	150.9	1.665
7.04.	7:52	23.5	2.5	1.196	98 O	0.6	36.5	7.83	0.902	0.77	152.2	1.666
10.04.	7:57	23.2	2.4	1.224	96 O	0.6	36.7	7.65	0.901	0.76	153.5	1.666
13.04.	8:02	22.9	2.4	1.252	95 O	0.7	36.9	7.47	0.900	0.75	154.8	1.666
16.04.	8:07	22.6	2.3	1.281	93 O	0.7	37.0	7.31	0.899	0.74	156.1	1.666
19.04.	8:12	22.3	2.2	1.309	91 O	0.8	37.1	7.15	0.899	0.72	157.4	1.666
22.04.	8:17	21.9	2.2	1.338	89 O	0.8	37.1	7.00	0.899	0.71	158.7	1.666
25.04.	8:22	21.6	2.1	1.366	88 O	0.9	37.1	6.85	0.899	0.69	160.0	1.666
28.04.	8:28	21.2	2.1	1.394	86 O	0.9	37.1	6.72	0.899	0.68	161.4	1.665



Datum	α	δ	b	Δ (AE)	E	mv	φ	$\varnothing$	k	q (")	l	r
1.05.	8:33	20.8	2.0	1.422	85 O	0.9	37.1	6.58	0.899	0.66	162.7	1.665
4.05.	8:39	20.4	1.9	1.449	83 O	1.0	37.0	6.46	0.899	0.65	164.0	1.665
7.05.	8:45	20.0	1.9	1.477	82 O	1.0	36.9	6.34	0.900	0.63	165.3	1.664
10.05.	8:51	19.5	1.8	1.504	80 O	1.1	36.7	6.22	0.901	0.62	166.6	1.663
13.05.	8:57	19.1	1.8	1.531	79 O	1.1	36.6	6.11	0.901	0.60	167.9	1.663
16.05.	9:03	18.6	1.7	1.558	77 O	1.1	36.4	6.01	0.902	0.59	169.2	1.662
19.05.	9:09	18.1	1.7	1.584	76 O	1.2	36.2	5.91	0.903	0.57	170.6	1.661
22.05.	9:15	17.6	1.6	1.610	75 O	1.2	36.0	5.81	0.904	0.56	171.9	1.660
25.05.	9:21	17.1	1.6	1.636	73 O	1.2	35.8	5.72	0.906	0.54	173.2	1.659
28.05.	9:27	16.6	1.5	1.661	72 O	1.2	35.6	5.63	0.907	0.52	174.5	1.658
31.05.	9:33	16.0	1.5	1.687	71 O	1.3	35.3	5.55	0.908	0.51	175.8	1.656
3.06.	9:39	15.5	1.4	1.711	69 O	1.3	35.0	5.47	0.909	0.50	177.2	1.655
6.06.	9:46	14.9	1.4	1.736	68 O	1.3	34.7	5.39	0.911	0.48	178.5	1.654
9.06.	9:52	14.3	1.3	1.760	67 O	1.3	34.4	5.32	0.912	0.47	179.8	1.652
12.06.	9:58	13.7	1.3	1.784	66 O	1.4	34.1	5.25	0.914	0.45	181.2	1.651
15.06.	10:05	13.1	1.2	1.807	65 O	1.4	33.8	5.18	0.916	0.44	182.5	1.649
18.06.	10:11	12.5	1.2	1.830	63 O	1.4	33.5	5.11	0.917	0.42	183.8	1.647
21.06.	10:17	11.8	1.2	1.853	62 O	1.4	33.1	5.05	0.919	0.41	185.2	1.645
24.06.	10:24	11.2	1.1	1.875	61 O	1.4	32.8	4.99	0.921	0.40	186.5	1.643
27.06.	10:30	10.5	1.1	1.897	60 O	1.5	32.4	4.94	0.922	0.38	187.9	1.641
30.06.	10:37	9.8	1.0	1.918	59 O	1.5	32.0	4.88	0.924	0.37	189.2	1.639
3.07.	10:43	9.1	1.0	1.939	58 O	1.5	31.6	4.83	0.926	0.36	190.6	1.637
6.07.	10:50	8.4	0.9	1.959	56 O	1.5	31.2	4.78	0.928	0.35	191.9	1.635
9.07.	10:56	7.7	0.9	1.979	55 O	1.5	30.8	4.73	0.929	0.33	193.3	1.633
12.07.	11:03	7.0	0.9	1.999	54 O	1.5	30.4	4.68	0.931	0.32	194.7	1.630
15.07.	11:09	6.3	0.8	2.018	53 O	1.5	30.0	4.64	0.933	0.31	196.0	1.628
18.07.	11:16	5.5	0.8	2.037	52 O	1.6	29.6	4.60	0.935	0.30	197.4	1.625
21.07.	11:22	4.8	0.8	2.055	51 O	1.6	29.2	4.55	0.937	0.29	198.8	1.623
24.07.	11:29	4.1	0.7	2.073	50 O	1.6	28.7	4.52	0.938	0.28	200.2	1.620
27.07.	11:36	3.3	0.7	2.090	49 O	1.6	28.3	4.48	0.940	0.27	201.5	1.617
30.07.	11:42	2.5	0.6	2.107	48 O	1.6	27.9	4.44	0.942	0.26	202.9	1.614
2.08.	11:49	1.8	0.6	2.123	47 O	1.6	27.4	4.41	0.944	0.25	204.3	1.612
5.08.	11:56	1.0	0.6	2.139	46 O	1.6	26.9	4.38	0.946	0.24	205.7	1.609
8.08.	12:03	0.2	0.5	2.155	45 O	1.6	26.5	4.34	0.948	0.23	207.1	1.606
11.08.	12:10	-0.6	0.5	2.170	44 O	1.6	26.0	4.31	0.949	0.22	208.6	1.603
14.08.	12:16	-1.3	0.5	2.185	43 O	1.6	25.6	4.28	0.951	0.21	210.0	1.599
17.08.	12:23	-2.1	0.4	2.199	42 O	1.6	25.1	4.26	0.953	0.20	211.4	1.596
20.08.	12:30	-2.9	0.4	2.212	41 O	1.6	24.6	4.23	0.955	0.19	212.8	1.593
23.08.	12:37	-3.7	0.4	2.226	40 O	1.6	24.1	4.21	0.956	0.18	214.3	1.590
26.08.	12:44	-4.5	0.3	2.238	39 O	1.6	23.6	4.18	0.958	0.18	215.7	1.586
29.08.	12:51	-5.3	0.3	2.251	38 O	1.6	23.2	4.16	0.960	0.17	217.1	1.583



Datum	α	δ	b	Δ (AE)	E	mv	φ	$\emptyset$	k	q (")	l	r
1.09.	12:59	-6.0	0.2	2.262	37 O	1.6	22.7	4.14	0.961	0.16	218.6	1.580
4.09.	13:06	-6.8	0.2	2.274	36 O	1.6	22.2	4.12	0.963	0.15	220.1	1.576
7.09.	13:13	-7.6	0.2	2.285	35 O	1.6	21.7	4.10	0.965	0.15	221.5	1.573
10.09.	13:20	-8.4	0.1	2.295	34 O	1.6	21.2	4.08	0.966	0.14	223.0	1.569
13.09.	13:28	-9.1	0.1	2.305	33 O	1.6	20.7	4.06	0.968	0.13	224.5	1.565
16.09.	13:35	-9.9	0.1	2.315	32 O	1.6	20.2	4.04	0.969	0.12	226.0	1.562
19.09.	13:43	-10.6	0.0	2.324	31 O	1.6	19.7	4.03	0.971	0.12	227.4	1.558
22.09.	13:50	-11.4	0.0	2.333	31 O	1.6	19.2	4.01	0.972	0.11	228.9	1.554
25.09.	13:58	-12.1	0.0	2.341	30 O	1.6	18.6	4.00	0.974	0.10	230.5	1.551
28.09.	14:06	-12.8	0.0	2.349	29 O	1.6	18.1	3.98	0.975	0.10	232.0	1.547
1.10.	14:14	-13.6	-0.1	2.356	28 O	1.6	17.6	3.97	0.977	0.09	233.5	1.543
4.10.	14:22	-14.3	-0.1	2.363	27 O	1.6	17.1	3.96	0.978	0.09	235.0	1.539
7.10.	14:30	-14.9	-0.1	2.370	26 O	1.5	16.6	3.95	0.979	0.08	236.6	1.535
10.10.	14:38	-15.6	-0.2	2.376	25 O	1.5	16.1	3.94	0.980	0.08	238.1	1.531
13.10.	14:46	-16.3	-0.2	2.382	24 O	1.5	15.5	3.93	0.982	0.07	239.7	1.528
16.10.	14:54	-16.9	-0.2	2.387	23 O	1.5	15.0	3.92	0.983	0.07	241.2	1.524
19.10.	15:03	-17.5	-0.3	2.392	22 O	1.5	14.5	3.91	0.984	0.06	242.8	1.520
22.10.	15:11	-18.1	-0.3	2.397	22 O	1.5	14.0	3.91	0.985	0.06	244.4	1.516
25.10.	15:20	-18.7	-0.3	2.401	21 O	1.5	13.4	3.90	0.986	0.05	245.9	1.512
28.10.	15:28	-19.3	-0.4	2.405	20 O	1.5	12.9	3.89	0.987	0.05	247.5	1.508
31.10.	15:37	-19.8	-0.4	2.408	19 O	1.5	12.4	3.89	0.988	0.05	249.1	1.504
3.11.	15:46	-20.3	-0.4	2.411	18 O	1.5	11.8	3.88	0.989	0.04	250.7	1.500
6.11.	15:55	-20.8	-0.4	2.414	17 O	1.4	11.3	3.88	0.990	0.04	252.4	1.496
9.11.	16:04	-21.3	-0.5	2.416	16 O	1.4	10.8	3.87	0.991	0.03	254.0	1.492
12.11.	16:13	-21.7	-0.5	2.418	16 O	1.4	10.3	3.87	0.992	0.03	255.6	1.488
15.11.	16:22	-22.1	-0.5	2.420	15 O	1.4	9.7	3.87	0.993	0.03	257.3	1.485
18.11.	16:31	-22.5	-0.6	2.421	14 O	1.4	9.2	3.87	0.994	0.02	258.9	1.481
21.11.	16:41	-22.8	-0.6	2.423	13 O	1.4	8.7	3.86	0.994	0.02	260.6	1.477
24.11.	16:50	-23.1	-0.6	2.423	12 O	1.4	8.1	3.86	0.995	0.02	262.3	1.473
27.11.	17:00	-23.4	-0.6	2.424	11 O	1.4	7.6	3.86	0.996	0.02	263.9	1.469
30.11.	17:09	-23.6	-0.7	2.424	11 O	1.3	7.1	3.86	0.996	0.01	265.6	1.466
3.12.	17:19	-23.8	-0.7	2.424	10 O	1.3	6.6	3.86	0.997	0.01	267.3	1.462
6.12.	17:29	-24.0	-0.7	2.424	9 O	1.3	6.0	3.86	0.997	0.01	269.0	1.458
9.12.	17:39	-24.1	-0.7	2.423	8 O	1.3	5.5	3.86	0.998	0.01	270.7	1.455
12.12.	17:49	-24.2	-0.8	2.422	7 O	1.3	5.0	3.86	0.998	0.01	272.5	1.451
15.12.	17:58	-24.2	-0.8	2.421	7 O	1.3	4.5	3.87	0.998	0.01	274.2	1.448
18.12.	18:08	-24.2	-0.8	2.420	6 O	1.3	3.9	3.87	0.999	0.00	275.9	1.444
21.12.	18:18	-24.2	-0.8	2.418	5 O	1.2	3.4	3.87	0.999	0.00	277.7	1.441
24.12.	18:28	-24.1	-0.8	2.416	4 O	1.2	2.9	3.87	0.999	0.00	279.4	1.437
27.12.	18:38	-24.0	-0.9	2.414	4 O	1.2	2.4	3.88	1.000	0.00	281.2	1.434
30.12.	18:48	-23.8	-0.9	2.412	3 O	1.2	1.9	3.88	1.000	0.00	283.0	1.431

Die Ephemeriden gelten für 0 Uhr Weltzeit.

Geozentrische Koordinaten:

α und δ : Rektaszension und Deklination zum Äquinoktium des Datums. b: ekliptikale Breite; Δ : Abstand von der Erde.

E: Elongation (Winkel zwischen Planet und Sonnenmitte); mv: visuelle Helligkeit; φ : Phasenwinkel

Physische Ephemeriden (für Beobachtungen am Teleskop):

$\emptyset$: scheinbarer Durchmesser;

k: beleuchteter Teil; q: Phasendefekt (Beleuchtungsdefekt)

Heliozentrische Koordinaten:

l: Länge zum Äquinoktium des Datums; r: Abstand von der Sonne.

2018-01-07