Ephemeriden für Sternfreunde
von Karl-Heinz Bücke

www.buecke-info.de

Merkur 2025

Datum	α	δ	b	Δ (AE)	E	mv	φ	∅	k	q (")	Δα(h:m)	Δδ(°)	l	r
1.01.	17:16	-21.9	1.1	1.147	21 W	-0.4	56.9	5.86	0.773	1.33	-1:31	1.1	202.9	0.421
4.01.	17:33	-22.6	0.7	1.196	20 W	-0.3	51.1	5.62	0.814	1.05	-1:27	0.1	212.7	0.434
7.01.	17:51	-23.1	0.3	1.239	19 W	-0.4	45.9	5.42	0.848	0.83	-1:22	-0.8	222.0	0.445
10.01.	18:09	-23.5	-0.1	1.277	18 W	-0.4	41.3	5.26	0.876	0.65	-1:17	-1.6	230.9	0.454
13.01.	18:29	-23.7	-0.5	1.311	16 W	-0.4	37.1	5.13	0.899	0.52	-1:10	-2.3	239.5	0.460
16.01.	18:48	-23.8	-0.8	1.339	15 W	-0.4	33.3	5.02	0.918	0.41	-1:04	-2.9	247.9	0.465
19.01.	19:08	-23.6	-1.1	1.362	14 W	-0.5	29.6	4.93	0.935	0.32	-0:57	-3.3	256.1	0.467
22.01.	19:28	-23.3	-1.4	1.381	12 W	-0.5	26.1	4.87	0.949	0.25	-0:49	-3.6	264.3	0.466
25.01.	19:48	-22.7	-1.6	1.395	10 W	-0.6	22.6	4.82	0.962	0.19	-0:42	-3.8	272.6	0.462
28.01.	20:09	-22.0	-1.8	1.405	9 W	-0.7	19.0	4.78	0.973	0.13	-0:33	-3.8	281.1	0.457
31.01.	20:30	-21.0	-2.0	1.411	7 W	-0.9	15.3	4.76	0.982	0.08	-0:25	-3.6	290.0	0.449
3.02.	20:51	-19.8	-2.0	1.411	5 W	-1.1	11.4	4.76	0.990	0.05	-0:16	-3.3	299.3	0.438
6.02.	21:12	-18.4	-2.1	1.407	3 W	-1.3	7.6	4.78	0.996	0.02	-0:07	-2.8	309.0	0.426
9.02.	21:32	-16.7	-2.1	1.396	2 W	-1.4	5.0	4.81	0.998	0.01	0:01	-2.1	319.3	0.412
12.02.	21:53	-14.9	-2.0	1.379	3 O	-1.5	6.9	4.87	0.996	0.02	0:10	-1.2	330.3	0.396
15.02.	22:14	-12.8	-1.8	1.354	5 O	-1.4	12.3	4.96	0.988	0.06	0:19	-0.2	342.4	0.379
18.02.	22:35	-10.6	-1.5	1.321	7 O	-1.4	19.5	5.09	0.971	0.15	0:28	1.0	355.6	0.361
21.02.	22:55	-8.1	-1.2	1.278	9 O	-1.3	28.3	5.26	0.940	0.31	0:37	2.4	10.1	0.344
24.02.	23:15	-5.6	-0.7	1.225	12 O	-1.2	38.6	5.49	0.891	0.60	0:46	3.9	26.1	0.329
27.02.	23:34	-3.0	-0.2	1.162	14 O	-1.1	50.4	5.79	0.818	1.05	0:53	5.4	43.4	0.317
2.03.	23:51	-0.4	0.4	1.089	16 O	-1.0	63.7	6.17	0.722	1.72	0:59	6.8	61.6	0.310
5.03.	0:06	1.9	1.1	1.009	18 O	-0.7	78.0	6.66	0.604	2.64	1:03	8.0	80.4	0.308
8.03.	0:18	4.0	1.8	0.926	18 O	-0.3	93.1	7.26	0.473	3.83	1:04	8.8	99.2	0.311
11.03.	0:26	5.5	2.5	0.844	18 O	0.2	108.6	7.96	0.340	5.25	1:01	9.3	117.3	0.320
14.03.	0:29	6.5	3.0	0.768	16 O	1.0	124.2	8.75	0.219	6.84	0:53	9.0	134.5	0.333
17.03.	0:28	6.8	3.4	0.703	13 O	2.0	139.6	9.55	0.119	8.41	0:41	8.2	150.2	0.349
20.03.	0:23	6.4	3.5	0.653	9 O	3.2	154.4	10.29	0.049	9.79	0:25	6.6	164.4	0.366
23.03.	0:16	5.5	3.4	0.619	5 O	4.6	167.6	10.86	0.012	10.73	0:07	4.4	177.3	0.384
26.03.	0:07	4.1	3.0	0.600	4 W	5.0	170.7	11.20	0.007	11.13	-0:13	1.9	188.9	0.400
29.03.	23:59	2.5	2.4	0.597	8 W	3.9	160.4	11.26	0.029	10.93	-0:32	-0.9	199.6	0.416
1.04.	23:53	1.0	1.6	0.606	13 W	2.9	149.0	11.09	0.071	10.30	-0:49	-3.5	209.6	0.430
4.04.	23:49	-0.3	0.8	0.626	17 W	2.1	138.3	10.73	0.127	9.37	-1:04	-6.0	219.1	0.441
7.04.	23:48	-1.2	0.0	0.655	21 W	1.6	128.8	10.26	0.187	8.34	-1:16	-8.1	228.1	0.451
10.04.	23:50	-1.8	-0.7	0.689	23 W	1.2	120.3	9.76	0.248	7.34	-1:25	-9.7	236.8	0.459
13.04.	23:55	-1.9	-1.3	0.727	25 W	0.9	112.9	9.25	0.306	6.42	-1:31	-11.0	245.2	0.464
16.04.	0:02	-1.7	-1.8	0.767	26 W	0.7	106.3	8.76	0.360	5.61	-1:35	-11.8	253.4	0.466
19.04.	0:11	-1.2	-2.2	0.810	27 W	0.5	100.3	8.30	0.411	4.89	-1:37	-12.4	261.6	0.466
22.04.	0:21	-0.4	-2.5	0.854	27 W	0.4	94.8	7.87	0.459	4.26	-1:38	-12.6	269.9	0.464
25.04.	0:33	0.7	-2.7	0.900	27 W	0.3	89.5	7.47	0.505	3.70	-1:37	-12.5	278.3	0.459
28.04.	0:47	2.0	-2.8	0.946	26 W	0.2	84.3	7.10	0.550	3.20	-1:35	-12.2	287.1	0.451

Merkur 2025

Datum	α	δ	b	Δ (AE)	E	mv	φ	∅	k	q (")	Δα(h:m)	Δδ(°)	l	r
1.05.	1:01	3.5	-2.9	0.993	26 W	0.1	79.1	6.77	0.595	2.74	-1:32	-11.6	296.2	0.442
4.05.	1:17	5.1	-2.8	1.040	24 W	0.0	73.8	6.46	0.640	2.33	-1:28	-10.9	305.8	0.430
7.05.	1:34	6.9	-2.7	1.086	23 W	-0.2	68.3	6.19	0.685	1.95	-1:23	-9.9	315.9	0.416
10.05.	1:51	8.9	-2.5	1.131	21 W	-0.3	62.4	5.94	0.732	1.59	-1:17	-8.8	326.7	0.401
13.05.	2:11	10.9	-2.2	1.174	18 W	-0.5	55.9	5.72	0.780	1.26	-1:09	-7.5	338.4	0.384
16.05.	2:31	13.0	-1.8	1.215	16 W	-0.7	48.6	5.53	0.831	0.94	-1:01	-6.1	351.2	0.367
19.05.	2:53	15.2	-1.3	1.253	13 W	-1.0	40.3	5.36	0.881	0.64	-0:51	-4.6	5.3	0.349
22.05.	3:17	17.3	-0.9	1.284	10 W	-1.3	30.8	5.23	0.930	0.37	-0:39	-3.1	20.8	0.333
25.05.	3:42	19.3	-0.3	1.307	6 W	-1.6	20.2	5.14	0.969	0.16	-0:26	-1.6	37.7	0.320
28.05.	4:09	21.2	0.2	1.320	3 W	-2.0	8.7	5.09	0.994	0.03	-0:11	-0.3	55.6	0.311
31.05.	4:36	22.8	0.7	1.320	1 O	-2.2	4.1	5.09	0.999	0.01	0:04	0.8	74.3	0.308
3.06.	5:04	24.0	1.2	1.308	5 O	-1.8	16.1	5.14	0.980	0.10	0:20	1.7	93.1	0.309
6.06.	5:32	24.8	1.5	1.283	8 O	-1.5	28.0	5.24	0.941	0.31	0:36	2.2	111.6	0.317
9.06.	6:00	25.3	1.8	1.248	12 O	-1.2	39.2	5.38	0.887	0.61	0:51	2.3	129.1	0.328
12.06.	6:26	25.3	2.0	1.205	15 O	-0.9	49.3	5.58	0.826	0.97	1:05	2.1	145.3	0.343
15.06.	6:51	25.0	2.0	1.157	18 O	-0.6	58.3	5.81	0.762	1.38	1:17	1.6	160.0	0.360
18.06.	7:14	24.3	2.0	1.107	20 O	-0.4	66.3	6.07	0.701	1.82	1:27	0.9	173.3	0.378
21.06.	7:35	23.5	1.8	1.056	22 O	-0.2	73.4	6.37	0.642	2.28	1:36	0.0	185.2	0.395
24.06.	7:53	22.4	1.5	1.004	23 O	0.0	80.0	6.69	0.587	2.76	1:42	-1.0	196.2	0.411
27.06.	8:10	21.3	1.2	0.953	25 O	0.1	86.1	7.05	0.534	3.29	1:46	-2.1	206.4	0.425
30.06.	8:25	20.0	0.7	0.902	25 O	0.3	92.1	7.45	0.482	3.86	1:49	-3.2	216.1	0.438
3.07.	8:38	18.7	0.2	0.852	26 O	0.5	98.0	7.88	0.430	4.49	1:49	-4.3	225.2	0.448
6.07.	8:49	17.4	-0.4	0.805	26 O	0.7	104.0	8.35	0.379	5.18	1:48	-5.3	234.0	0.456
9.07.	8:57	16.1	-1.0	0.760	25 O	0.9	110.2	8.84	0.328	5.94	1:44	-6.2	242.5	0.462
12.07.	9:03	15.0	-1.7	0.719	24 O	1.1	116.6	9.35	0.276	6.77	1:38	-7.0	250.8	0.466
15.07.	9:07	14.0	-2.4	0.681	23 O	1.4	123.5	9.86	0.224	7.65	1:29	-7.5	259.0	0.467
18.07.	9:08	13.2	-3.1	0.649	20 O	1.8	131.1	10.36	0.172	8.58	1:18	-7.8	267.2	0.465
21.07.	9:06	12.6	-3.8	0.621	17 O	2.3	139.3	10.82	0.121	9.51	1:04	-7.8	275.6	0.461
24.07.	9:01	12.4	-4.4	0.601	14 O	2.9	148.4	11.18	0.074	10.35	0:47	-7.5	284.2	0.454
27.07.	8:54	12.5	-4.8	0.589	10 O	3.7	157.8	11.40	0.037	10.98	0:28	-6.7	293.2	0.445
30.07.	8:45	12.9	-5.0	0.589	6 O	4.5	166.0	11.42	0.015	11.25	0:08	-5.6	302.7	0.434
2.08.	8:37	13.5	-4.9	0.600	5 W	4.7	167.4	11.20	0.012	11.06	-0:13	-4.2	312.6	0.421
5.08.	8:29	14.3	-4.5	0.624	8 W	3.8	159.6	10.77	0.031	10.43	-0:32	-2.6	323.1	0.406
8.08.	8:24	15.2	-4.0	0.661	12 W	2.8	148.5	10.17	0.074	9.42	-0:48	-0.9	334.5	0.390
11.08.	8:23	16.0	-3.2	0.711	15 W	1.9	136.4	9.46	0.138	8.16	-1:01	0.8	346.9	0.372
14.08.	8:25	16.8	-2.4	0.772	17 W	1.1	123.7	8.70	0.223	6.76	-1:10	2.4	0.6	0.355
17.08.	8:32	17.2	-1.5	0.844	18 W	0.4	110.4	7.96	0.326	5.37	-1:14	3.8	15.6	0.338
20.08.	8:43	17.4	-0.7	0.922	19 W	-0.1	96.6	7.29	0.442	4.06	-1:14	5.0	32.1	0.324
23.08.	8:58	17.2	0.0	1.003	18 W	-0.5	82.5	6.70	0.565	2.91	-1:10	5.8	49.7	0.314
26.08.	9:16	16.5	0.7	1.083	16 W	-0.8	68.4	6.21	0.684	1.96	-1:03	6.1	68.2	0.308
29.08.	9:37	15.4	1.2	1.157	14 W	-1.1	54.5	5.81	0.790	1.22	-0:53	6.1	87.1	0.308

Merkur 2025

Datum	α	δ	b	Δ (AE)	E	mv	φ	∅	k	q (")	Δα(h:m)	Δδ(°)	l	r
1.09.	9:59	13.9	1.5	1.223	12 W	-1.3	41.5	5.50	0.875	0.69	-0:43	5.7	105.7	0.314
4.09.	10:21	12.1	1.7	1.278	9 W	-1.4	29.6	5.26	0.935	0.34	-0:31	4.9	123.6	0.324
7.09.	10:43	10.0	1.8	1.321	6 W	-1.5	19.1	5.09	0.973	0.14	-0:20	4.0	140.2	0.338
10.09.	11:05	7.8	1.8	1.354	4 W	-1.6	10.3	4.96	0.992	0.04	-0:09	2.8	155.4	0.355
13.09.	11:26	5.4	1.6	1.377	2 W	-1.7	4.5	4.88	0.998	0.01	0:01	1.6	169.1	0.372
16.09.	11:46	3.1	1.4	1.391	3 O	-1.5	6.9	4.83	0.996	0.02	0:11	0.4	181.5	0.390
19.09.	12:05	0.7	1.2	1.398	5 O	-1.2	12.1	4.81	0.989	0.05	0:19	-0.8	192.8	0.406
22.09.	12:24	-1.7	0.9	1.399	7 O	-1.0	17.1	4.80	0.978	0.11	0:27	-1.9	203.2	0.421
25.09.	12:42	-4.0	0.6	1.393	9 O	-0.8	21.7	4.82	0.965	0.17	0:35	-3.1	213.0	0.434
28.09.	13:00	-6.2	0.2	1.383	11 O	-0.6	26.0	4.86	0.949	0.25	0:42	-4.2	222.3	0.445
1.10.	13:18	-8.4	-0.1	1.368	13 O	-0.5	30.0	4.91	0.933	0.33	0:48	-5.2	231.2	0.454
4.10.	13:35	-10.4	-0.5	1.349	15 O	-0.4	33.9	4.98	0.915	0.42	0:55	-6.1	239.8	0.461
7.10.	13:52	-12.4	-0.8	1.326	17 O	-0.3	37.7	5.07	0.896	0.53	1:01	-6.9	248.1	0.465
10.10.	14:08	-14.3	-1.2	1.300	18 O	-0.3	41.4	5.17	0.875	0.65	1:06	-7.6	256.3	0.467
13.10.	14:25	-16.0	-1.5	1.269	19 O	-0.2	45.3	5.30	0.852	0.79	1:12	-8.2	264.5	0.466
16.10.	14:41	-17.6	-1.8	1.234	21 O	-0.2	49.4	5.45	0.825	0.95	1:17	-8.7	272.8	0.462
19.10.	14:57	-19.1	-2.1	1.194	22 O	-0.2	53.9	5.63	0.795	1.16	1:22	-9.1	281.4	0.456
22.10.	15:13	-20.4	-2.4	1.150	23 O	-0.2	58.8	5.84	0.759	1.41	1:26	-9.4	290.3	0.448
25.10.	15:28	-21.6	-2.6	1.102	23 O	-0.2	64.4	6.10	0.716	1.73	1:30	-9.5	299.6	0.438
28.10.	15:42	-22.5	-2.8	1.050	24 O	-0.1	70.6	6.40	0.666	2.14	1:32	-9.4	309.3	0.425
31.10.	15:55	-23.3	-2.9	0.994	24 O	-0.1	77.8	6.76	0.605	2.67	1:33	-9.2	319.6	0.411
3.11.	16:05	-23.8	-2.9	0.936	23 O	0.0	86.3	7.18	0.532	3.36	1:32	-8.7	330.7	0.395
6.11.	16:14	-24.0	-2.8	0.875	22 O	0.1	96.5	7.68	0.444	4.27	1:29	-8.0	342.7	0.378
9.11.	16:18	-23.9	-2.5	0.814	20 O	0.4	108.8	8.26	0.339	5.46	1:21	-7.0	356.0	0.360
12.11.	16:17	-23.3	-2.0	0.757	17 O	1.0	123.8	8.88	0.222	6.91	1:07	-5.6	10.6	0.343
15.11.	16:09	-22.3	-1.2	0.710	12 O	2.0	141.8	9.46	0.107	8.45	0:48	-3.8	26.6	0.328
18.11.	15:56	-20.7	-0.3	0.682	6 O	3.8	162.5	9.85	0.023	9.62	0:23	-1.5	43.9	0.317
21.11.	15:41	-18.9	0.8	0.679	2 W	5.2	174.7	9.89	0.002	9.87	-0:05	1.1	62.2	0.309
24.11.	15:27	-17.1	1.6	0.705	8 W	2.8	152.3	9.54	0.057	8.99	-0:32	3.4	81.0	0.308
27.11.	15:18	-15.9	2.3	0.754	14 W	1.2	131.1	8.92	0.171	7.39	-0:54	5.2	99.7	0.311
30.11.	15:15	-15.5	2.6	0.819	17 W	0.3	112.3	8.20	0.310	5.66	-1:09	6.2	117.9	0.320
3.12.	15:19	-15.6	2.6	0.892	20 W	-0.1	96.2	7.53	0.446	4.17	-1:18	6.5	135.0	0.333
6.12.	15:27	-16.3	2.5	0.966	21 W	-0.4	82.8	6.95	0.563	3.04	-1:23	6.2	150.7	0.349
9.12.	15:39	-17.2	2.2	1.037	21 W	-0.5	71.6	6.48	0.658	2.22	-1:25	5.6	164.9	0.367
12.12.	15:53	-18.3	1.9	1.102	20 W	-0.5	62.4	6.10	0.732	1.64	-1:24	4.8	177.6	0.384
15.12.	16:08	-19.4	1.5	1.160	19 W	-0.5	54.7	5.79	0.789	1.22	-1:22	3.9	189.2	0.401
18.12.	16:25	-20.5	1.2	1.212	18 W	-0.5	48.1	5.54	0.834	0.92	-1:18	2.9	199.9	0.416
21.12.	16:43	-21.5	0.8	1.258	17 W	-0.5	42.4	5.34	0.869	0.70	-1:14	1.9	209.9	0.430
24.12.	17:02	-22.4	0.4	1.298	16 W	-0.5	37.3	5.18	0.898	0.53	-1:08	1.0	219.4	0.442
27.12.	17:21	-23.1	0.0	1.332	14 W	-0.5	32.7	5.04	0.921	0.40	-1:03	0.2	228.4	0.451
30.12.	17:40	-23.7	-0.3	1.361	13 W	-0.5	28.6	4.94	0.939	0.30	-0:56	-0.6	237.1	0.459

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):
∅: scheinbarer Durchmesser;
k: beleuchteter Teil; q: Phasendefekt (Beleuchtungsdefekt)

Koordinaten für Tagesbeobachtungen:
Δα und Δδ: Rektaszensions- und Deklinationsdifferenzen (Venus minus Sonne)

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

14.09.2015