



Merkur 2015

Datum	α	δ	b	Δ (AE)	E	mv	φ	\varnothing	k	q (")	$\Delta\alpha$ (h:m)	$\Delta\delta$ (')	l	r
1.01.	19:43	-23.5	-2.1	1.279	14 O	-0.8	35.6	5.26	0.907	0.49	0:59	-0.4	329.1	0.397
4.01.	20:03	-22.4	-2.0	1.228	15 O	-0.8	42.7	5.47	0.867	0.73	1:06	0.3	341.0	0.380
7.01.	20:22	-21.2	-1.8	1.169	17 O	-0.8	51.2	5.75	0.814	1.07	1:12	1.2	354.1	0.363
10.01.	20:40	-19.8	-1.4	1.102	18 O	-0.8	61.2	6.10	0.741	1.58	1:16	2.2	8.5	0.345
13.01.	20:55	-18.3	-0.9	1.027	19 O	-0.7	73.2	6.54	0.645	2.32	1:19	3.3	24.3	0.330
16.01.	21:07	-16.8	-0.3	0.947	19 O	-0.5	87.1	7.10	0.525	3.37	1:18	4.2	41.5	0.318
19.01.	21:14	-15.4	0.5	0.866	18 O	-0.1	103.2	7.76	0.386	4.77	1:12	5.0	59.7	0.310
22.01.	21:16	-14.4	1.4	0.789	16 O	0.7	121.2	8.52	0.241	6.46	1:01	5.4	78.4	0.308
25.01.	21:11	-13.9	2.3	0.725	12 O	1.8	140.5	9.27	0.114	8.21	0:43	5.2	97.2	0.311
28.01.	20:59	-13.9	3.0	0.679	6 O	3.5	159.8	9.89	0.031	9.58	0:19	4.4	115.5	0.319
31.01.	20:45	-14.4	3.5	0.658	4 W	4.6	169.1	10.22	0.009	10.13	-0:08	3.1	132.7	0.331
3.02.	20:30	-15.2	3.6	0.660	8 W	3.2	155.2	10.19	0.046	9.72	-0:35	1.4	148.6	0.347
6.02.	20:19	-16.1	3.4	0.681	14 W	1.9	139.2	9.87	0.121	8.67	-0:58	-0.3	163.0	0.364
9.02.	20:12	-16.9	3.0	0.716	18 W	1.2	125.2	9.39	0.212	7.40	-1:16	-2.0	175.9	0.382
12.02.	20:11	-17.5	2.4	0.759	22 W	0.7	113.3	8.86	0.302	6.18	-1:29	-3.6	187.7	0.399
15.02.	20:15	-18.0	1.8	0.806	24 W	0.4	103.3	8.34	0.385	5.13	-1:38	-5.1	198.4	0.415
18.02.	20:21	-18.2	1.2	0.855	26 W	0.3	94.9	7.86	0.458	4.26	-1:43	-6.4	208.5	0.428
21.02.	20:31	-18.3	0.6	0.904	26 W	0.2	87.6	7.43	0.521	3.56	-1:45	-7.5	218.0	0.440
24.02.	20:42	-18.1	0.1	0.952	27 W	0.1	81.2	7.06	0.576	2.99	-1:45	-8.4	227.1	0.450
27.02.	20:56	-17.7	-0.4	0.999	27 W	0.1	75.6	6.73	0.624	2.53	-1:43	-9.2	235.8	0.458
2.03.	21:10	-17.2	-0.8	1.043	26 W	0.0	70.7	6.44	0.666	2.15	-1:40	-9.8	244.2	0.463
5.03.	21:25	-16.4	-1.2	1.084	25 W	0.0	66.1	6.20	0.702	1.85	-1:35	-10.1	252.5	0.466
8.03.	21:42	-15.4	-1.6	1.123	25 W	0.0	61.9	5.99	0.735	1.59	-1:30	-10.3	260.7	0.467
11.03.	21:58	-14.3	-1.8	1.159	23 W	-0.1	57.9	5.80	0.766	1.36	-1:25	-10.3	268.9	0.464
14.03.	22:16	-12.9	-2.0	1.193	22 W	-0.2	53.9	5.63	0.795	1.16	-1:18	-10.2	277.4	0.459
17.03.	22:33	-11.4	-2.2	1.225	20 W	-0.2	49.8	5.49	0.823	0.97	-1:12	-9.8	286.1	0.452
20.03.	22:52	-9.7	-2.3	1.254	19 W	-0.3	45.6	5.36	0.850	0.80	-1:04	-9.3	295.2	0.443
23.03.	23:10	-7.8	-2.3	1.280	17 W	-0.5	41.1	5.25	0.877	0.65	-0:57	-8.6	304.7	0.431
26.03.	23:29	-5.7	-2.2	1.303	14 W	-0.6	36.3	5.16	0.903	0.50	-0:49	-7.7	314.7	0.418
29.03.	23:49	-3.5	-2.1	1.322	12 W	-0.8	31.0	5.09	0.929	0.36	-0:40	-6.6	325.5	0.403
1.04.	0:09	-1.1	-1.9	1.335	9 W	-1.0	25.1	5.03	0.953	0.24	-0:31	-5.4	337.0	0.386
4.04.	0:30	1.5	-1.6	1.343	7 W	-1.3	18.3	5.00	0.975	0.13	-0:21	-4.0	349.7	0.368
7.04.	0:51	4.1	-1.3	1.344	4 W	-1.7	10.4	5.00	0.992	0.04	-0:11	-2.5	3.7	0.351
10.04.	1:13	6.9	-0.9	1.336	1 W	-2.1	2.6	5.03	0.999	0.00	0:01	-0.9	19.1	0.335
13.04.	1:36	9.7	-0.4	1.317	3 O	-1.9	10.0	5.10	0.992	0.04	0:12	0.8	35.8	0.321
16.04.	1:59	12.4	0.2	1.287	7 O	-1.7	21.5	5.22	0.965	0.18	0:25	2.5	53.7	0.312
19.04.	2:23	15.0	0.7	1.245	10 O	-1.5	33.9	5.40	0.915	0.46	0:37	4.0	72.3	0.308
22.04.	2:46	17.3	1.2	1.191	13 O	-1.2	46.8	5.64	0.842	0.89	0:49	5.3	91.2	0.309
25.04.	3:08	19.4	1.7	1.128	16 O	-0.9	59.6	5.96	0.753	1.47	0:60	6.4	109.7	0.316
28.04.	3:29	21.1	2.1	1.059	18 O	-0.7	71.9	6.35	0.655	2.19	1:09	7.2	127.3	0.327



Datum	α	δ	b	Δ (AE)	E	mv	φ	\emptyset	k	q (")	$\Delta\alpha$ (h:m)	$\Delta\delta$ (')	l	r
1.05.	3:48	22.5	2.4	0.987	20 O	-0.3	83.5	6.81	0.556	3.02	1:17	7.6	143.6	0.342
4.05.	4:05	23.4	2.6	0.916	21 O	0.0	94.3	7.34	0.462	3.95	1:22	7.6	158.5	0.359
7.05.	4:19	24.1	2.6	0.847	21 O	0.4	104.4	7.93	0.376	4.95	1:25	7.4	171.9	0.376
10.05.	4:30	24.4	2.5	0.784	21 O	0.8	113.9	8.57	0.298	6.02	1:25	6.9	184.0	0.394
13.05.	4:39	24.3	2.2	0.727	20 O	1.2	123.1	9.25	0.227	7.15	1:21	6.1	195.1	0.410
16.05.	4:44	24.1	1.7	0.676	18 O	1.7	132.3	9.95	0.164	8.32	1:15	5.1	205.3	0.424
19.05.	4:46	23.5	1.1	0.632	16 O	2.4	141.7	10.63	0.108	9.49	1:05	3.9	215.0	0.437
22.05.	4:45	22.7	0.4	0.597	12 O	3.1	151.4	11.26	0.061	10.57	0:52	2.5	224.2	0.447
25.05.	4:41	21.8	-0.4	0.571	8 O	4.1	161.2	11.78	0.027	11.46	0:36	0.9	233.0	0.456
28.05.	4:35	20.7	-1.3	0.555	4 O	5.1	170.7	12.11	0.007	12.03	0:18	-0.7	241.5	0.462
31.05.	4:29	19.6	-2.2	0.549	2 W	5.6	175.1	12.24	0.002	12.22	-0:01	-2.2	249.8	0.466
3.06.	4:23	18.6	-2.9	0.554	6 W	4.7	167.4	12.14	0.012	11.99	-0:19	-3.6	258.0	0.467
6.06.	4:18	17.8	-3.5	0.568	10 W	3.8	158.2	11.83	0.036	11.41	-0:37	-4.8	266.2	0.465
9.06.	4:14	17.2	-3.9	0.591	14 W	3.0	149.0	11.36	0.071	10.55	-0:52	-5.7	274.6	0.461
12.06.	4:13	16.9	-4.2	0.624	17 W	2.3	140.2	10.78	0.116	9.53	-1:06	-6.2	283.2	0.455
15.06.	4:14	17.0	-4.2	0.663	19 W	1.8	131.6	10.13	0.168	8.43	-1:17	-6.3	292.2	0.446
18.06.	4:19	17.2	-4.1	0.709	21 W	1.3	123.4	9.47	0.225	7.34	-1:26	-6.2	301.6	0.435
21.06.	4:25	17.8	-3.9	0.761	22 W	0.9	115.4	8.83	0.286	6.31	-1:31	-5.7	311.4	0.422
24.06.	4:35	18.5	-3.5	0.817	23 W	0.6	107.4	8.23	0.350	5.35	-1:34	-4.9	321.9	0.408
27.06.	4:47	19.3	-3.0	0.877	22 W	0.3	99.3	7.66	0.419	4.45	-1:34	-4.0	333.2	0.391
30.06.	5:02	20.3	-2.5	0.941	22 W	0.0	90.7	7.14	0.494	3.61	-1:32	-2.9	345.5	0.374
3.07.	5:19	21.2	-1.9	1.007	20 W	-0.3	81.4	6.67	0.575	2.84	-1:27	-1.8	359.0	0.356
6.07.	5:39	22.1	-1.3	1.074	18 W	-0.6	71.2	6.26	0.661	2.12	-1:20	-0.7	14.0	0.340
9.07.	6:01	22.8	-0.6	1.139	16 W	-0.8	60.1	5.90	0.749	1.48	-1:10	0.4	30.3	0.325
12.07.	6:26	23.3	0.0	1.199	13 W	-1.1	48.2	5.61	0.833	0.94	-0:58	1.2	47.8	0.315
15.07.	6:52	23.4	0.5	1.251	10 W	-1.4	35.8	5.37	0.906	0.51	-0:44	1.8	66.3	0.308
18.07.	7:19	23.2	1.0	1.292	7 W	-1.7	23.4	5.20	0.959	0.21	-0:28	2.1	85.1	0.308
21.07.	7:47	22.5	1.4	1.321	4 W	-1.9	11.7	5.09	0.990	0.05	-0:13	2.0	103.8	0.313
24.07.	8:14	21.5	1.6	1.337	2 O	-2.1	5.1	5.03	0.998	0.01	0:02	1.5	121.7	0.323
27.07.	8:40	20.1	1.8	1.342	4 O	-1.7	12.3	5.01	0.988	0.06	0:17	0.8	138.5	0.337
30.07.	9:05	18.5	1.8	1.337	7 O	-1.4	20.9	5.03	0.967	0.17	0:30	-0.1	153.9	0.353
2.08.	9:29	16.6	1.7	1.325	10 O	-1.1	28.6	5.07	0.939	0.31	0:42	-1.3	167.7	0.371
5.08.	9:51	14.7	1.6	1.306	13 O	-0.8	35.4	5.15	0.908	0.47	0:52	-2.5	180.2	0.388
8.08.	10:11	12.6	1.3	1.282	15 O	-0.6	41.3	5.24	0.876	0.65	1:01	-3.7	191.6	0.405
11.08.	10:30	10.5	1.0	1.255	18 O	-0.4	46.6	5.35	0.844	0.84	1:09	-5.0	202.1	0.420
14.08.	10:48	8.3	0.7	1.224	20 O	-0.3	51.5	5.49	0.811	1.04	1:16	-6.2	211.9	0.433
17.08.	11:05	6.2	0.3	1.191	21 O	-0.2	56.1	5.64	0.779	1.25	1:21	-7.4	221.3	0.444
20.08.	11:21	4.0	-0.1	1.154	23 O	-0.1	60.6	5.82	0.746	1.48	1:26	-8.6	230.2	0.453
23.08.	11:36	1.9	-0.5	1.117	24 O	0.0	64.9	6.02	0.712	1.73	1:30	-9.7	238.8	0.460
26.08.	11:50	-0.1	-1.0	1.077	25 O	0.1	69.3	6.24	0.677	2.01	1:33	-10.7	247.2	0.465
29.08.	12:03	-2.0	-1.4	1.036	26 O	0.1	73.7	6.48	0.640	2.33	1:35	-11.5	255.4	0.467



Datum	α	δ	b	Δ (AE)	E	mv	φ	\emptyset	k	q (")	$\Delta\alpha$ (h:m)	$\Delta\delta$ (°)	l	r
1.09.	12:15	-3.8	-1.9	0.994	27 O	0.2	78.4	6.76	0.601	2.70	1:36	-12.2	263.6	0.466
4.09.	12:26	-5.4	-2.3	0.950	27 O	0.2	83.5	7.07	0.556	3.10	1:36	-12.8	271.9	0.463
7.09.	12:35	-6.9	-2.8	0.904	27 O	0.3	89.2	7.43	0.507	3.70	1:34	-13.2	280.4	0.457
10.09.	12:43	-8.1	-3.2	0.858	26 O	0.4	95.7	7.83	0.450	4.30	1:31	-13.3	289.3	0.449
13.09.	12:48	-9.1	-3.6	0.811	25 O	0.5	103.2	8.28	0.386	5.10	1:26	-13.1	298.5	0.439
16.09.	12:52	-9.7	-3.8	0.766	23 O	0.8	111.7	8.77	0.315	6.00	1:18	-12.6	308.2	0.427
19.09.	12:52	-9.9	-4.0	0.725	20 O	1.1	121.7	9.27	0.237	7.10	1:08	-11.6	318.5	0.413
22.09.	12:48	-9.5	-4.0	0.689	17 O	1.7	133.3	9.75	0.157	8.20	0:54	-10.1	329.4	0.397
25.09.	12:41	-8.5	-3.7	0.663	12 O	2.6	146.9	10.13	0.081	9.30	0:36	-7.9	341.4	0.380
28.09.	12:32	-6.9	-3.2	0.651	6 O	3.9	162.1	10.31	0.024	10.10	0:15	-5.1	354.5	0.362
1.10.	12:20	-4.8	-2.3	0.658	2 W	5.1	172.8	10.21	0.004	10.20	-0:07	-1.8	9.0	0.345
4.10.	12:11	-2.7	-1.4	0.687	7 W	3.5	158.3	9.78	0.035	9.40	-0:27	1.5	24.9	0.330
7.10.	12:04	-0.9	-0.3	0.737	12 W	1.8	139.4	9.12	0.120	8.00	-0:44	4.4	42.0	0.318
10.10.	12:04	0.1	0.6	0.805	15 W	0.7	120.6	8.35	0.245	6.30	-0:56	6.6	60.2	0.310
13.10.	12:08	0.4	1.2	0.884	17 W	-0.1	102.8	7.60	0.389	4.60	-1:02	8.0	79.0	0.308
16.10.	12:18	-0.1	1.7	0.968	18 W	-0.5	86.3	6.95	0.532	3.30	-1:04	8.6	97.8	0.311
19.10.	12:31	-1.2	2.0	1.050	18 W	-0.7	71.6	6.40	0.658	2.20	-1:02	8.5	116.0	0.319
22.10.	12:46	-2.8	2.0	1.127	17 W	-0.9	58.6	5.96	0.761	1.40	-0:58	8.1	133.3	0.332
25.10.	13:03	-4.6	2.0	1.196	15 W	-0.9	47.5	5.62	0.838	0.90	-0:53	7.3	149.1	0.348
28.10.	13:21	-6.6	1.8	1.255	13 W	-1.0	38.1	5.35	0.894	0.60	-0:46	6.3	163.4	0.365
31.10.	13:39	-8.6	1.6	1.305	11 W	-1.0	30.1	5.15	0.933	0.30	-0:40	5.3	176.3	0.382
3.11.	13:58	-10.6	1.4	1.346	9 W	-1.0	23.3	4.99	0.959	0.20	-0:33	4.3	188.0	0.399
6.11.	14:16	-12.6	1.0	1.379	7 W	-1.0	17.5	4.87	0.977	0.10	-0:27	3.3	198.8	0.415
9.11.	14:35	-14.4	0.7	1.405	5 W	-1.1	12.3	4.78	0.989	0.10	-0:20	2.3	208.8	0.429
12.11.	14:54	-16.2	0.4	1.425	3 W	-1.2	7.6	4.72	0.996	0.00	-0:13	1.3	218.3	0.441
15.11.	15:13	-17.9	0.0	1.439	2 W	-1.2	3.4	4.67	0.999	0.00	-0:06	0.4	227.4	0.451
18.11.	15:32	-19.4	-0.3	1.447	0 O	-1.3	0.8	4.64	1.000	0.00	0:01	-0.3	236.1	0.458
21.11.	15:52	-20.8	-0.6	1.449	2 O	-1.1	4.4	4.64	0.999	0.00	0:08	-1.0	244.5	0.463
24.11.	16:11	-22.0	-0.9	1.447	4 O	-1.0	8.0	4.64	0.995	0.00	0:15	-1.6	252.8	0.466
27.11.	16:31	-23.1	-1.2	1.440	5 O	-0.9	11.5	4.67	0.990	0.00	0:22	-2.1	260.9	0.466
30.11.	16:51	-24.0	-1.5	1.427	7 O	-0.8	15.1	4.71	0.983	0.10	0:29	-2.5	269.2	0.464
3.12.	17:11	-24.7	-1.7	1.409	9 O	-0.7	18.9	4.77	0.973	0.10	0:36	-2.7	277.6	0.459
6.12.	17:31	-25.2	-1.9	1.386	10 O	-0.7	23.0	4.85	0.960	0.20	0:43	-2.8	286.4	0.452
9.12.	17:52	-25.5	-2.1	1.357	12 O	-0.7	27.4	4.95	0.944	0.30	0:51	-2.8	295.5	0.442
12.12.	18:13	-25.6	-2.2	1.322	14 O	-0.6	32.3	5.08	0.923	0.40	0:58	-2.6	305.0	0.431
15.12.	18:33	-25.5	-2.3	1.281	15 O	-0.6	37.7	5.25	0.896	0.50	1:05	-2.3	315.1	0.417
18.12.	18:53	-25.1	-2.3	1.234	16 O	-0.6	43.9	5.45	0.860	0.80	1:12	-1.8	325.8	0.402
21.12.	19:12	-24.6	-2.2	1.179	18 O	-0.6	51.1	5.70	0.814	1.10	1:18	-1.1	337.4	0.385
24.12.	19:30	-23.8	-2.0	1.117	19 O	-0.6	59.6	6.01	0.753	1.50	1:22	-0.4	350.1	0.368
27.12.	19:46	-22.9	-1.6	1.048	20 O	-0.6	69.7	6.41	0.673	2.10	1:25	0.5	4.2	0.350
30.12.	19:59	-21.8	-1.2	0.973	20 O	-0.5	82.0	6.91	0.570	3.00	1:25	1.4	19.6	0.334

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)

Koordinaten für Tagesbeobachtungen:

$\Delta\alpha$ und $\Delta\delta$: Rektaszensions- und Deklinationsdifferenzen (Venus minus Sonne)

Heliozentrische Koordinaten:

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