



Merkur 2023

| Datum | α | δ | b | Δ (AE) | E | mv | φ | \varnothing | k | q (") | $\Delta\alpha$ (h:m) | $\Delta\delta$ (°) | l | r |
|--------|----------|----------|------|---------------|------|------|-----------|---------------|-------|-------|----------------------|--------------------|-------|-------|
| 1.01. | 19:41 | -20.5 | 0.9 | 0.749 | 13 O | 1.3 | 132.3 | 8.97 | 0.164 | 7.50 | 0:57 | 2.5 | 66.1 | 0.309 |
| 4.01. | 19:31 | -19.9 | 1.8 | 0.699 | 8 O | 2.8 | 152.9 | 9.61 | 0.055 | 9.08 | 0:33 | 2.8 | 84.9 | 0.308 |
| 7.01. | 19:15 | -19.6 | 2.7 | 0.673 | 3 O | 4.7 | 170.6 | 9.98 | 0.007 | 9.91 | 0:04 | 2.8 | 103.6 | 0.313 |
| 10.01. | 18:58 | -19.5 | 3.2 | 0.674 | 7 W | 3.5 | 159.6 | 9.96 | 0.031 | 9.65 | -0:26 | 2.5 | 121.6 | 0.323 |
| 13.01. | 18:44 | -19.7 | 3.4 | 0.700 | 12 W | 2.0 | 140.8 | 9.61 | 0.113 | 8.53 | -0:53 | 1.9 | 138.4 | 0.336 |
| 16.01. | 18:36 | -20.0 | 3.2 | 0.742 | 17 W | 1.0 | 124.1 | 9.06 | 0.220 | 7.07 | -1:14 | 1.1 | 153.7 | 0.353 |
| 19.01. | 18:34 | -20.3 | 2.9 | 0.793 | 21 W | 0.5 | 110.0 | 8.47 | 0.329 | 5.69 | -1:28 | 0.1 | 167.6 | 0.370 |
| 22.01. | 18:37 | -20.7 | 2.4 | 0.849 | 23 W | 0.2 | 98.5 | 7.91 | 0.426 | 4.54 | -1:38 | -1.0 | 180.1 | 0.388 |
| 25.01. | 18:45 | -21.1 | 1.9 | 0.905 | 24 W | 0.0 | 88.9 | 7.42 | 0.510 | 3.64 | -1:43 | -2.0 | 191.5 | 0.404 |
| 28.01. | 18:55 | -21.4 | 1.4 | 0.960 | 25 W | -0.1 | 80.9 | 7.00 | 0.579 | 2.94 | -1:45 | -3.1 | 202.0 | 0.419 |
| 31.01. | 19:08 | -21.6 | 0.9 | 1.013 | 25 W | -0.1 | 74.0 | 6.64 | 0.638 | 2.40 | -1:45 | -4.1 | 211.9 | 0.433 |
| 3.02. | 19:22 | -21.7 | 0.4 | 1.062 | 25 W | -0.1 | 68.0 | 6.33 | 0.688 | 1.98 | -1:42 | -5.0 | 221.2 | 0.444 |
| 6.02. | 19:38 | -21.6 | -0.1 | 1.108 | 24 W | -0.1 | 62.6 | 6.06 | 0.730 | 1.64 | -1:39 | -5.8 | 230.2 | 0.453 |
| 9.02. | 19:55 | -21.3 | -0.5 | 1.151 | 23 W | -0.1 | 57.9 | 5.84 | 0.766 | 1.37 | -1:34 | -6.5 | 238.8 | 0.460 |
| 12.02. | 20:12 | -20.8 | -0.9 | 1.189 | 22 W | -0.1 | 53.6 | 5.65 | 0.797 | 1.15 | -1:29 | -7.0 | 247.2 | 0.465 |
| 15.02. | 20:30 | -20.2 | -1.2 | 1.224 | 21 W | -0.2 | 49.6 | 5.49 | 0.824 | 0.97 | -1:23 | -7.3 | 255.4 | 0.467 |
| 18.02. | 20:48 | -19.4 | -1.5 | 1.255 | 20 W | -0.2 | 45.8 | 5.36 | 0.849 | 0.81 | -1:16 | -7.5 | 263.6 | 0.466 |
| 21.02. | 21:07 | -18.3 | -1.7 | 1.283 | 18 W | -0.3 | 42.1 | 5.24 | 0.871 | 0.68 | -1:09 | -7.6 | 271.9 | 0.463 |
| 24.02. | 21:26 | -17.1 | -1.9 | 1.307 | 17 W | -0.4 | 38.3 | 5.14 | 0.892 | 0.55 | -1:01 | -7.5 | 280.4 | 0.457 |
| 27.02. | 21:45 | -15.7 | -2.1 | 1.328 | 15 W | -0.5 | 34.4 | 5.06 | 0.913 | 0.44 | -0:53 | -7.1 | 289.2 | 0.449 |
| 2.03. | 22:05 | -14.0 | -2.1 | 1.345 | 13 W | -0.6 | 30.2 | 4.99 | 0.932 | 0.34 | -0:45 | -6.6 | 298.5 | 0.439 |
| 5.03. | 22:25 | -12.2 | -2.2 | 1.359 | 11 W | -0.8 | 25.8 | 4.95 | 0.950 | 0.25 | -0:36 | -6.0 | 308.1 | 0.427 |
| 8.03. | 22:45 | -10.2 | -2.1 | 1.367 | 9 W | -1.0 | 21.0 | 4.92 | 0.967 | 0.16 | -0:28 | -5.1 | 318.4 | 0.413 |
| 11.03. | 23:05 | -8.0 | -2.0 | 1.370 | 6 W | -1.2 | 15.6 | 4.91 | 0.981 | 0.09 | -0:19 | -4.1 | 329.4 | 0.397 |
| 14.03. | 23:25 | -5.7 | -1.8 | 1.366 | 4 W | -1.5 | 9.8 | 4.92 | 0.993 | 0.04 | -0:09 | -2.9 | 341.3 | 0.380 |
| 17.03. | 23:46 | -3.1 | -1.5 | 1.356 | 2 W | -1.8 | 4.4 | 4.96 | 0.999 | 0.01 | 0:01 | -1.6 | 354.4 | 0.362 |
| 20.03. | 0:07 | -0.4 | -1.2 | 1.336 | 3 O | -1.8 | 8.0 | 5.03 | 0.995 | 0.02 | 0:11 | -0.1 | 8.8 | 0.345 |
| 23.03. | 0:29 | 2.4 | -0.7 | 1.307 | 6 O | -1.7 | 17.2 | 5.14 | 0.978 | 0.11 | 0:22 | 1.5 | 24.7 | 0.330 |
| 26.03. | 0:50 | 5.2 | -0.2 | 1.266 | 9 O | -1.5 | 28.2 | 5.31 | 0.941 | 0.31 | 0:32 | 3.2 | 41.9 | 0.318 |
| 29.03. | 1:12 | 8.0 | 0.4 | 1.214 | 12 O | -1.3 | 40.4 | 5.54 | 0.881 | 0.66 | 0:42 | 4.8 | 60.0 | 0.310 |
| 1.04. | 1:32 | 10.7 | 0.9 | 1.151 | 14 O | -1.1 | 53.5 | 5.84 | 0.797 | 1.18 | 0:52 | 6.3 | 78.8 | 0.308 |
| 4.04. | 1:51 | 13.1 | 1.5 | 1.079 | 17 O | -0.9 | 67.0 | 6.23 | 0.695 | 1.90 | 1:00 | 7.6 | 97.6 | 0.311 |
| 7.04. | 2:08 | 15.2 | 2.1 | 1.002 | 18 O | -0.6 | 80.6 | 6.70 | 0.582 | 2.80 | 1:06 | 8.5 | 115.9 | 0.319 |
| 10.04. | 2:23 | 16.9 | 2.5 | 0.924 | 19 O | -0.2 | 93.7 | 7.27 | 0.467 | 3.87 | 1:10 | 9.1 | 133.1 | 0.332 |
| 13.04. | 2:34 | 18.1 | 2.8 | 0.847 | 19 O | 0.3 | 106.4 | 7.93 | 0.359 | 5.09 | 1:10 | 9.3 | 148.9 | 0.347 |
| 16.04. | 2:42 | 18.9 | 3.0 | 0.777 | 19 O | 0.8 | 118.5 | 8.65 | 0.261 | 6.39 | 1:07 | 9.0 | 163.3 | 0.365 |
| 19.04. | 2:47 | 19.3 | 3.0 | 0.714 | 17 O | 1.5 | 130.2 | 9.41 | 0.177 | 7.74 | 1:01 | 8.3 | 176.2 | 0.382 |
| 22.04. | 2:49 | 19.2 | 2.8 | 0.661 | 14 O | 2.3 | 141.6 | 10.17 | 0.108 | 9.07 | 0:51 | 7.1 | 187.9 | 0.399 |
| 25.04. | 2:47 | 18.6 | 2.3 | 0.618 | 11 O | 3.2 | 153.0 | 10.87 | 0.054 | 10.28 | 0:38 | 5.6 | 198.7 | 0.415 |
| 28.04. | 2:43 | 17.6 | 1.7 | 0.587 | 7 O | 4.3 | 164.4 | 11.44 | 0.018 | 11.23 | 0:23 | 3.6 | 208.8 | 0.429 |



| Datum | α | δ | b | Δ (AE) | E | mv | φ | \varnothing | k | q (") | $\Delta\alpha$ (h:m) | $\Delta\delta$ (°) | l | r |
|--------|----------|----------|------|---------------|------|------|-----------|---------------|-------|-------|----------------------|--------------------|-------|-------|
| 1.05. | 2:37 | 16.4 | 1.0 | 0.568 | 2 O | 5.7 | 175.6 | 11.84 | 0.001 | 11.82 | 0:05 | 1.4 | 218.3 | 0.441 |
| 4.05. | 2:30 | 14.9 | 0.1 | 0.560 | 3 W | 5.3 | 172.7 | 12.00 | 0.004 | 11.95 | -0:13 | -0.9 | 227.3 | 0.450 |
| 7.05. | 2:24 | 13.5 | -0.7 | 0.563 | 8 W | 4.1 | 162.1 | 11.93 | 0.024 | 11.64 | -0:31 | -3.1 | 236.1 | 0.458 |
| 10.05. | 2:19 | 12.3 | -1.5 | 0.577 | 12 W | 3.2 | 152.1 | 11.66 | 0.058 | 10.98 | -0:47 | -5.2 | 244.5 | 0.463 |
| 13.05. | 2:17 | 11.4 | -2.2 | 0.598 | 16 W | 2.5 | 142.9 | 11.23 | 0.101 | 10.10 | -1:01 | -6.9 | 252.7 | 0.466 |
| 16.05. | 2:18 | 10.8 | -2.8 | 0.628 | 19 W | 2.0 | 134.5 | 10.71 | 0.149 | 9.11 | -1:12 | -8.1 | 260.9 | 0.466 |
| 19.05. | 2:20 | 10.6 | -3.2 | 0.663 | 22 W | 1.5 | 126.8 | 10.14 | 0.201 | 8.10 | -1:21 | -9.0 | 269.2 | 0.464 |
| 22.05. | 2:25 | 10.8 | -3.5 | 0.704 | 23 W | 1.2 | 119.5 | 9.55 | 0.254 | 7.13 | -1:28 | -9.5 | 277.6 | 0.459 |
| 25.05. | 2:32 | 11.3 | -3.6 | 0.749 | 24 W | 0.9 | 112.6 | 8.97 | 0.308 | 6.21 | -1:33 | -9.6 | 286.3 | 0.452 |
| 28.05. | 2:42 | 12.0 | -3.6 | 0.799 | 25 W | 0.7 | 105.8 | 8.42 | 0.363 | 5.36 | -1:36 | -9.4 | 295.4 | 0.443 |
| 31.05. | 2:53 | 13.0 | -3.4 | 0.851 | 25 W | 0.4 | 99.3 | 7.90 | 0.419 | 4.59 | -1:37 | -8.9 | 305.0 | 0.431 |
| 3.06. | 3:06 | 14.1 | -3.2 | 0.905 | 24 W | 0.2 | 92.7 | 7.43 | 0.477 | 3.89 | -1:37 | -8.1 | 315.0 | 0.418 |
| 6.06. | 3:21 | 15.4 | -2.9 | 0.961 | 23 W | 0.0 | 85.9 | 6.99 | 0.536 | 3.24 | -1:34 | -7.2 | 325.7 | 0.402 |
| 9.06. | 3:38 | 16.9 | -2.5 | 1.018 | 22 W | -0.2 | 78.7 | 6.60 | 0.598 | 2.65 | -1:30 | -6.0 | 337.3 | 0.386 |
| 12.06. | 3:56 | 18.3 | -2.0 | 1.075 | 20 W | -0.4 | 70.8 | 6.25 | 0.665 | 2.10 | -1:23 | -4.8 | 350.0 | 0.368 |
| 15.06. | 4:17 | 19.8 | -1.5 | 1.132 | 18 W | -0.6 | 61.9 | 5.93 | 0.735 | 1.57 | -1:15 | -3.5 | 4.0 | 0.351 |
| 18.06. | 4:40 | 21.2 | -1.0 | 1.187 | 15 W | -0.9 | 52.1 | 5.66 | 0.807 | 1.09 | -1:04 | -2.2 | 19.4 | 0.335 |
| 21.06. | 5:05 | 22.4 | -0.4 | 1.236 | 12 W | -1.2 | 41.2 | 5.44 | 0.876 | 0.67 | -0:52 | -1.0 | 36.2 | 0.321 |
| 24.06. | 5:31 | 23.4 | 0.2 | 1.276 | 9 W | -1.5 | 29.5 | 5.27 | 0.935 | 0.34 | -0:38 | 0.0 | 54.1 | 0.312 |
| 27.06. | 5:59 | 24.1 | 0.7 | 1.306 | 5 W | -1.8 | 17.4 | 5.15 | 0.977 | 0.12 | -0:22 | 0.8 | 72.7 | 0.308 |
| 30.06. | 6:28 | 24.4 | 1.1 | 1.323 | 2 W | -2.1 | 6.1 | 5.08 | 0.997 | 0.01 | -0:06 | 1.2 | 91.6 | 0.309 |
| 3.07. | 6:57 | 24.3 | 1.5 | 1.328 | 3 O | -2.0 | 8.4 | 5.06 | 0.995 | 0.03 | 0:10 | 1.3 | 110.1 | 0.316 |
| 6.07. | 7:25 | 23.7 | 1.7 | 1.321 | 6 O | -1.6 | 18.9 | 5.09 | 0.973 | 0.14 | 0:26 | 1.0 | 127.7 | 0.327 |
| 9.07. | 7:52 | 22.8 | 1.8 | 1.303 | 9 O | -1.3 | 28.7 | 5.16 | 0.939 | 0.32 | 0:40 | 0.4 | 144.0 | 0.342 |
| 12.07. | 8:17 | 21.6 | 1.8 | 1.278 | 12 O | -1.0 | 37.3 | 5.26 | 0.897 | 0.54 | 0:53 | -0.5 | 158.8 | 0.359 |
| 15.07. | 8:40 | 20.1 | 1.8 | 1.248 | 15 O | -0.7 | 44.9 | 5.39 | 0.854 | 0.79 | 1:05 | -1.5 | 172.2 | 0.377 |
| 18.07. | 9:02 | 18.5 | 1.6 | 1.213 | 18 O | -0.5 | 51.5 | 5.54 | 0.811 | 1.05 | 1:14 | -2.6 | 184.3 | 0.394 |
| 21.07. | 9:22 | 16.8 | 1.3 | 1.176 | 20 O | -0.3 | 57.5 | 5.71 | 0.769 | 1.32 | 1:22 | -3.8 | 195.3 | 0.410 |
| 24.07. | 9:41 | 14.9 | 1.0 | 1.136 | 22 O | -0.2 | 62.9 | 5.91 | 0.728 | 1.61 | 1:29 | -5.0 | 205.6 | 0.424 |
| 27.07. | 9:58 | 13.0 | 0.6 | 1.095 | 24 O | -0.1 | 68.0 | 6.14 | 0.687 | 1.92 | 1:34 | -6.3 | 215.3 | 0.437 |
| 30.07. | 10:14 | 11.1 | 0.2 | 1.052 | 25 O | 0.0 | 72.9 | 6.39 | 0.647 | 2.26 | 1:38 | -7.5 | 224.5 | 0.447 |
| 2.08. | 10:28 | 9.2 | -0.3 | 1.009 | 26 O | 0.1 | 77.8 | 6.66 | 0.606 | 2.62 | 1:41 | -8.6 | 233.3 | 0.456 |
| 5.08. | 10:41 | 7.4 | -0.8 | 0.965 | 27 O | 0.2 | 82.6 | 6.97 | 0.564 | 3.04 | 1:43 | -9.7 | 241.8 | 0.462 |
| 8.08. | 10:53 | 5.7 | -1.3 | 0.921 | 27 O | 0.3 | 87.5 | 7.29 | 0.522 | 3.49 | 1:43 | -10.6 | 250.1 | 0.466 |
| 11.08. | 11:03 | 4.0 | -1.8 | 0.878 | 27 O | 0.4 | 92.7 | 7.65 | 0.476 | 4.01 | 1:41 | -11.4 | 258.3 | 0.467 |
| 14.08. | 11:11 | 2.6 | -2.4 | 0.835 | 27 O | 0.5 | 98.4 | 8.05 | 0.427 | 4.61 | 1:38 | -11.9 | 266.5 | 0.465 |
| 17.08. | 11:18 | 1.3 | -2.9 | 0.792 | 26 O | 0.7 | 104.6 | 8.48 | 0.374 | 5.31 | 1:33 | -12.3 | 274.8 | 0.461 |
| 20.08. | 11:22 | 0.3 | -3.5 | 0.751 | 25 O | 0.9 | 111.8 | 8.95 | 0.315 | 6.13 | 1:26 | -12.3 | 283.5 | 0.455 |
| 23.08. | 11:23 | -0.4 | -3.9 | 0.712 | 22 O | 1.2 | 119.9 | 9.43 | 0.251 | 7.06 | 1:17 | -12.0 | 292.5 | 0.446 |
| 26.08. | 11:22 | -0.6 | -4.3 | 0.678 | 19 O | 1.6 | 129.2 | 9.91 | 0.184 | 8.08 | 1:04 | -11.2 | 301.8 | 0.435 |
| 29.08. | 11:17 | -0.4 | -4.5 | 0.651 | 16 O | 2.2 | 139.6 | 10.33 | 0.119 | 9.10 | 0:49 | -9.9 | 311.7 | 0.422 |



| Datum | α | δ | b | Δ (AE) | E | mv | φ | \emptyset | k | q (") | $\Delta\alpha$ (h:m) | $\Delta\delta$ (°) | l | r |
|--------|----------|----------|------|---------------|------|------|-----------|-------------|-------|-------|----------------------|--------------------|-------|-------|
| 1.09. | 11:10 | 0.4 | -4.5 | 0.633 | 11 O | 3.1 | 151.3 | 10.62 | 0.062 | 9.97 | 0:31 | -8.1 | 322.2 | 0.407 |
| 4.09. | 11:02 | 1.6 | -4.2 | 0.628 | 6 O | 4.2 | 163.3 | 10.71 | 0.021 | 10.49 | 0:11 | -5.7 | 333.5 | 0.391 |
| 7.09. | 10:52 | 3.2 | -3.7 | 0.638 | 4 W | 4.8 | 169.8 | 10.53 | 0.008 | 10.45 | -0:09 | -3.0 | 345.8 | 0.374 |
| 10.09. | 10:43 | 5.0 | -2.8 | 0.666 | 7 W | 3.7 | 159.5 | 10.09 | 0.032 | 9.77 | -0:29 | -0.1 | 359.4 | 0.356 |
| 13.09. | 10:38 | 6.6 | -1.9 | 0.712 | 11 W | 2.3 | 143.9 | 9.44 | 0.096 | 8.53 | -0:45 | 2.6 | 14.3 | 0.339 |
| 16.09. | 10:37 | 7.7 | -0.9 | 0.775 | 15 W | 1.1 | 127.3 | 8.67 | 0.197 | 6.96 | -0:57 | 4.9 | 30.6 | 0.325 |
| 19.09. | 10:41 | 8.3 | 0.0 | 0.850 | 17 W | 0.3 | 110.6 | 7.90 | 0.324 | 5.34 | -1:03 | 6.6 | 48.2 | 0.314 |
| 22.09. | 10:50 | 8.1 | 0.7 | 0.933 | 18 W | -0.3 | 94.2 | 7.20 | 0.463 | 3.87 | -1:05 | 7.6 | 66.6 | 0.308 |
| 25.09. | 11:03 | 7.4 | 1.3 | 1.017 | 18 W | -0.7 | 78.7 | 6.61 | 0.598 | 2.66 | -1:02 | 8.1 | 85.5 | 0.308 |
| 28.09. | 11:19 | 6.1 | 1.6 | 1.098 | 16 W | -0.9 | 64.2 | 6.12 | 0.718 | 1.73 | -0:57 | 8.0 | 104.2 | 0.313 |
| 1.10. | 11:37 | 4.4 | 1.8 | 1.172 | 15 W | -1.0 | 51.1 | 5.73 | 0.814 | 1.07 | -0:50 | 7.4 | 122.1 | 0.323 |
| 4.10. | 11:56 | 2.4 | 1.9 | 1.237 | 12 W | -1.1 | 39.6 | 5.43 | 0.885 | 0.62 | -0:42 | 6.6 | 138.9 | 0.337 |
| 7.10. | 12:16 | 0.3 | 1.8 | 1.291 | 10 W | -1.2 | 29.7 | 5.20 | 0.934 | 0.34 | -0:34 | 5.6 | 154.2 | 0.353 |
| 10.10. | 12:35 | -2.0 | 1.7 | 1.335 | 8 W | -1.2 | 21.3 | 5.03 | 0.966 | 0.17 | -0:25 | 4.5 | 168.0 | 0.371 |
| 13.10. | 12:54 | -4.2 | 1.5 | 1.370 | 5 W | -1.3 | 14.1 | 4.91 | 0.985 | 0.07 | -0:17 | 3.4 | 180.5 | 0.388 |
| 16.10. | 13:13 | -6.4 | 1.2 | 1.396 | 3 W | -1.4 | 8.1 | 4.81 | 0.995 | 0.02 | -0:09 | 2.3 | 191.9 | 0.405 |
| 19.10. | 13:31 | -8.6 | 0.9 | 1.415 | 1 W | -1.4 | 3.0 | 4.75 | 0.999 | 0.00 | -0:02 | 1.2 | 202.4 | 0.420 |
| 22.10. | 13:50 | -10.7 | 0.6 | 1.428 | 1 O | -1.4 | 3.0 | 4.71 | 0.999 | 0.00 | 0:05 | 0.1 | 212.2 | 0.433 |
| 25.10. | 14:09 | -12.8 | 0.3 | 1.434 | 3 O | -1.1 | 7.1 | 4.69 | 0.996 | 0.02 | 0:12 | -0.8 | 221.5 | 0.444 |
| 28.10. | 14:27 | -14.7 | -0.1 | 1.435 | 5 O | -1.0 | 11.1 | 4.68 | 0.991 | 0.04 | 0:20 | -1.7 | 230.5 | 0.453 |
| 31.10. | 14:46 | -16.5 | -0.4 | 1.431 | 7 O | -0.8 | 14.9 | 4.70 | 0.983 | 0.08 | 0:26 | -2.5 | 239.1 | 0.460 |
| 3.11. | 15:04 | -18.1 | -0.7 | 1.421 | 9 O | -0.7 | 18.6 | 4.73 | 0.974 | 0.12 | 0:33 | -3.2 | 247.4 | 0.465 |
| 6.11. | 15:23 | -19.7 | -1.1 | 1.408 | 10 O | -0.6 | 22.2 | 4.77 | 0.963 | 0.18 | 0:40 | -3.8 | 255.6 | 0.467 |
| 9.11. | 15:41 | -21.1 | -1.4 | 1.389 | 12 O | -0.5 | 25.9 | 4.84 | 0.950 | 0.24 | 0:47 | -4.3 | 263.8 | 0.466 |
| 12.11. | 16:00 | -22.3 | -1.6 | 1.365 | 13 O | -0.5 | 29.6 | 4.92 | 0.935 | 0.32 | 0:53 | -4.7 | 272.1 | 0.463 |
| 15.11. | 16:19 | -23.4 | -1.9 | 1.337 | 15 O | -0.4 | 33.7 | 5.03 | 0.916 | 0.42 | 0:60 | -5.0 | 280.7 | 0.457 |
| 18.11. | 16:38 | -24.3 | -2.1 | 1.302 | 16 O | -0.4 | 38.1 | 5.16 | 0.893 | 0.55 | 1:07 | -5.2 | 289.5 | 0.449 |
| 21.11. | 16:57 | -25.0 | -2.3 | 1.263 | 18 O | -0.4 | 43.0 | 5.32 | 0.866 | 0.71 | 1:13 | -5.2 | 298.8 | 0.439 |
| 24.11. | 17:16 | -25.5 | -2.4 | 1.218 | 19 O | -0.4 | 48.4 | 5.52 | 0.832 | 0.93 | 1:19 | -5.0 | 308.5 | 0.427 |
| 27.11. | 17:34 | -25.8 | -2.5 | 1.168 | 20 O | -0.4 | 54.5 | 5.76 | 0.790 | 1.21 | 1:24 | -4.7 | 318.7 | 0.412 |
| 30.11. | 17:51 | -25.9 | -2.4 | 1.111 | 21 O | -0.4 | 61.6 | 6.05 | 0.738 | 1.59 | 1:29 | -4.3 | 329.7 | 0.397 |
| 3.12. | 18:07 | -25.8 | -2.3 | 1.049 | 21 O | -0.4 | 69.9 | 6.40 | 0.671 | 2.10 | 1:31 | -3.7 | 341.7 | 0.379 |
| 6.12. | 18:20 | -25.4 | -2.1 | 0.982 | 21 O | -0.4 | 80.0 | 6.85 | 0.587 | 2.83 | 1:32 | -3.0 | 354.8 | 0.362 |
| 9.12. | 18:31 | -24.9 | -1.7 | 0.910 | 20 O | -0.2 | 92.2 | 7.39 | 0.481 | 3.83 | 1:29 | -2.2 | 9.3 | 0.345 |
| 12.12. | 18:36 | -24.3 | -1.1 | 0.837 | 19 O | 0.2 | 106.8 | 8.02 | 0.355 | 5.17 | 1:21 | -1.2 | 25.2 | 0.329 |
| 15.12. | 18:35 | -23.5 | -0.3 | 0.770 | 15 O | 0.9 | 124.2 | 8.72 | 0.219 | 6.81 | 1:07 | -0.3 | 42.4 | 0.317 |
| 18.12. | 18:27 | -22.7 | 0.6 | 0.716 | 11 O | 2.1 | 144.2 | 9.39 | 0.095 | 8.50 | 0:46 | 0.7 | 60.6 | 0.310 |
| 21.12. | 18:13 | -21.8 | 1.6 | 0.683 | 5 O | 4.1 | 165.4 | 9.84 | 0.016 | 9.68 | 0:18 | 1.6 | 79.4 | 0.308 |
| 24.12. | 17:55 | -21.0 | 2.4 | 0.677 | 4 W | 4.4 | 168.0 | 9.92 | 0.011 | 9.81 | -0:12 | 2.4 | 98.2 | 0.311 |
| 27.12. | 17:40 | -20.4 | 3.0 | 0.699 | 10 W | 2.4 | 147.6 | 9.61 | 0.078 | 8.86 | -0:41 | 3.0 | 116.4 | 0.319 |
| 30.12. | 17:30 | -20.1 | 3.1 | 0.742 | 15 W | 1.2 | 128.5 | 9.06 | 0.189 | 7.35 | -1:05 | 3.1 | 133.6 | 0.332 |

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.

14.09.2015