

# Sun

VTEZ

Location: E102°48'00.0", N16°39'00.0", 787m  
(Longitude referred to Greenwich meridian)

Time Zone: 7h 00m east of Greenwich

| Date<br>(Zone)    | Begin<br>Nautical<br>Twilight | Rise      | Az. | Transit Alt. | Set       | Az. | End<br>Nautical<br>Twilight |
|-------------------|-------------------------------|-----------|-----|--------------|-----------|-----|-----------------------------|
|                   | h m                           | h m °     |     | h m °        | h m °     |     | h m                         |
| 2024 Jan 01 (Mon) | 05:47                         | 06:37 114 |     | 12:12 51S    | 17:47 246 |     | 18:37                       |
| 2024 Jan 02 (Tue) | 05:47                         | 06:38 114 |     | 12:12 51S    | 17:47 246 |     | 18:38                       |
| 2024 Jan 03 (Wed) | 05:48                         | 06:38 114 |     | 12:13 51S    | 17:48 246 |     | 18:38                       |
| 2024 Jan 04 (Thu) | 05:48                         | 06:38 114 |     | 12:13 51S    | 17:48 246 |     | 18:39                       |
| 2024 Jan 05 (Fri) | 05:48                         | 06:39 113 |     | 12:14 51S    | 17:49 247 |     | 18:39                       |
| 2024 Jan 06 (Sat) | 05:49                         | 06:39 113 |     | 12:14 52S    | 17:50 247 |     | 18:40                       |
| 2024 Jan 07 (Sun) | 05:49                         | 06:39 113 |     | 12:15 52S    | 17:50 247 |     | 18:40                       |
| 2024 Jan 08 (Mon) | 05:49                         | 06:40 113 |     | 12:15 52S    | 17:51 247 |     | 18:41                       |
| 2024 Jan 09 (Tue) | 05:50                         | 06:40 113 |     | 12:16 52S    | 17:52 247 |     | 18:42                       |
| 2024 Jan 10 (Wed) | 05:50                         | 06:40 113 |     | 12:16 52S    | 17:52 247 |     | 18:42                       |
| 2024 Jan 11 (Thu) | 05:50                         | 06:40 113 |     | 12:16 52S    | 17:53 247 |     | 18:43                       |
| 2024 Jan 12 (Fri) | 05:50                         | 06:40 112 |     | 12:17 52S    | 17:53 248 |     | 18:43                       |
| 2024 Jan 13 (Sat) | 05:51                         | 06:41 112 |     | 12:17 52S    | 17:54 248 |     | 18:44                       |
| 2024 Jan 14 (Sun) | 05:51                         | 06:41 112 |     | 12:18 53S    | 17:55 248 |     | 18:44                       |
| 2024 Jan 15 (Mon) | 05:51                         | 06:41 112 |     | 12:18 53S    | 17:55 248 |     | 18:45                       |
| 2024 Jan 16 (Tue) | 05:51                         | 06:41 112 |     | 12:18 53S    | 17:56 248 |     | 18:45                       |
| 2024 Jan 17 (Wed) | 05:51                         | 06:41 112 |     | 12:19 53S    | 17:56 249 |     | 18:46                       |
| 2024 Jan 18 (Thu) | 05:52                         | 06:41 111 |     | 12:19 53S    | 17:57 249 |     | 18:46                       |
| 2024 Jan 19 (Fri) | 05:52                         | 06:41 111 |     | 12:19 54S    | 17:58 249 |     | 18:47                       |
| 2024 Jan 20 (Sat) | 05:52                         | 06:41 111 |     | 12:20 54S    | 17:58 249 |     | 18:48                       |
| 2024 Jan 21 (Sun) | 05:52                         | 06:41 111 |     | 12:20 54S    | 17:59 249 |     | 18:48                       |
| 2024 Jan 22 (Mon) | 05:52                         | 06:41 110 |     | 12:20 54S    | 17:59 250 |     | 18:49                       |
| 2024 Jan 23 (Tue) | 05:52                         | 06:41 110 |     | 12:20 54S    | 18:00 250 |     | 18:49                       |
| 2024 Jan 24 (Wed) | 05:52                         | 06:41 110 |     | 12:21 55S    | 18:00 250 |     | 18:50                       |
| 2024 Jan 25 (Thu) | 05:52                         | 06:41 110 |     | 12:21 55S    | 18:01 250 |     | 18:50                       |
| 2024 Jan 26 (Fri) | 05:52                         | 06:41 109 |     | 12:21 55S    | 18:02 251 |     | 18:51                       |
| 2024 Jan 27 (Sat) | 05:52                         | 06:41 109 |     | 12:21 55S    | 18:02 251 |     | 18:51                       |
| 2024 Jan 28 (Sun) | 05:52                         | 06:41 109 |     | 12:22 56S    | 18:03 251 |     | 18:51                       |
| 2024 Jan 29 (Mon) | 05:52                         | 06:41 109 |     | 12:22 56S    | 18:03 251 |     | 18:52                       |
| 2024 Jan 30 (Tue) | 05:52                         | 06:40 108 |     | 12:22 56S    | 18:04 252 |     | 18:52                       |
| 2024 Jan 31 (Wed) | 05:52                         | 06:40 108 |     | 12:22 57S    | 18:04 252 |     | 18:53                       |
| 2024 Feb 01 (Thu) | 05:51                         | 06:40 108 |     | 12:22 57S    | 18:05 252 |     | 18:53                       |
| 2024 Feb 02 (Fri) | 05:51                         | 06:40 108 |     | 12:22 57S    | 18:05 253 |     | 18:54                       |
| 2024 Feb 03 (Sat) | 05:51                         | 06:39 107 |     | 12:23 57S    | 18:06 253 |     | 18:54                       |
| 2024 Feb 04 (Sun) | 05:51                         | 06:39 107 |     | 12:23 58S    | 18:06 253 |     | 18:55                       |
| 2024 Feb 05 (Mon) | 05:51                         | 06:39 107 |     | 12:23 58S    | 18:07 254 |     | 18:55                       |
| 2024 Feb 06 (Tue) | 05:50                         | 06:39 106 |     | 12:23 58S    | 18:07 254 |     | 18:55                       |
| 2024 Feb 07 (Wed) | 05:50                         | 06:38 106 |     | 12:23 59S    | 18:08 254 |     | 18:56                       |
| 2024 Feb 08 (Thu) | 05:50                         | 06:38 106 |     | 12:23 59S    | 18:08 255 |     | 18:56                       |
| 2024 Feb 09 (Fri) | 05:50                         | 06:38 105 |     | 12:23 59S    | 18:08 255 |     | 18:56                       |
| 2024 Feb 10 (Sat) | 05:49                         | 06:37 105 |     | 12:23 60S    | 18:09 255 |     | 18:57                       |
| 2024 Feb 11 (Sun) | 05:49                         | 06:37 105 |     | 12:23 60S    | 18:09 256 |     | 18:57                       |
| 2024 Feb 12 (Mon) | 05:49                         | 06:36 104 |     | 12:23 60S    | 18:10 256 |     | 18:58                       |
| 2024 Feb 13 (Tue) | 05:48                         | 06:36 104 |     | 12:23 61S    | 18:10 256 |     | 18:58                       |
| 2024 Feb 14 (Wed) | 05:48                         | 06:36 104 |     | 12:23 61S    | 18:11 257 |     | 18:58                       |
| 2024 Feb 15 (Thu) | 05:48                         | 06:35 103 |     | 12:23 61S    | 18:11 257 |     | 18:59                       |
| 2024 Feb 16 (Fri) | 05:47                         | 06:35 103 |     | 12:23 62S    | 18:11 257 |     | 18:59                       |
| 2024 Feb 17 (Sat) | 05:47                         | 06:34 103 |     | 12:23 62S    | 18:12 258 |     | 18:59                       |
| 2024 Feb 18 (Sun) | 05:46                         | 06:34 102 |     | 12:23 62S    | 18:12 258 |     | 18:59                       |
| 2024 Feb 19 (Mon) | 05:46                         | 06:33 102 |     | 12:23 63S    | 18:12 258 |     | 19:00                       |
| 2024 Feb 20 (Tue) | 05:45                         | 06:33 101 |     | 12:23 63S    | 18:13 259 |     | 19:00                       |
| 2024 Feb 21 (Wed) | 05:45                         | 06:32 101 |     | 12:22 63S    | 18:13 259 |     | 19:00                       |
| 2024 Feb 22 (Thu) | 05:44                         | 06:32 101 |     | 12:22 64S    | 18:13 260 |     | 19:01                       |
| 2024 Feb 23 (Fri) | 05:44                         | 06:31 100 |     | 12:22 64S    | 18:14 260 |     | 19:01                       |
| 2024 Feb 24 (Sat) | 05:43                         | 06:30 100 |     | 12:22 64S    | 18:14 260 |     | 19:01                       |

|      |     |    |       |       |       |     |       |     |       |     |       |
|------|-----|----|-------|-------|-------|-----|-------|-----|-------|-----|-------|
| 2024 | Feb | 25 | (Sun) | 05:43 | 06:30 | 100 | 12:22 | 65S | 18:14 | 261 | 19:01 |
| 2024 | Feb | 26 | (Mon) | 05:42 | 06:29 | 99  | 12:22 | 65S | 18:15 | 261 | 19:02 |
| 2024 | Feb | 27 | (Tue) | 05:42 | 06:29 | 99  | 12:22 | 66S | 18:15 | 261 | 19:02 |
| 2024 | Feb | 28 | (Wed) | 05:41 | 06:28 | 98  | 12:21 | 66S | 18:15 | 262 | 19:02 |
| 2024 | Feb | 29 | (Thu) | 05:40 | 06:27 | 98  | 12:21 | 66S | 18:15 | 262 | 19:02 |
| 2024 | Mar | 01 | (Fri) | 05:40 | 06:27 | 98  | 12:21 | 67S | 18:16 | 263 | 19:03 |
| 2024 | Mar | 02 | (Sat) | 05:39 | 06:26 | 97  | 12:21 | 67S | 18:16 | 263 | 19:03 |
| 2024 | Mar | 03 | (Sun) | 05:39 | 06:25 | 97  | 12:21 | 67S | 18:16 | 263 | 19:03 |
| 2024 | Mar | 04 | (Mon) | 05:38 | 06:25 | 96  | 12:20 | 68S | 18:16 | 264 | 19:03 |
| 2024 | Mar | 05 | (Tue) | 05:37 | 06:24 | 96  | 12:20 | 68S | 18:17 | 264 | 19:03 |
| 2024 | Mar | 06 | (Wed) | 05:37 | 06:23 | 96  | 12:20 | 69S | 18:17 | 265 | 19:04 |
| 2024 | Mar | 07 | (Thu) | 05:36 | 06:23 | 95  | 12:20 | 69S | 18:17 | 265 | 19:04 |
| 2024 | Mar | 08 | (Fri) | 05:35 | 06:22 | 95  | 12:20 | 69S | 18:17 | 265 | 19:04 |
| 2024 | Mar | 09 | (Sat) | 05:34 | 06:21 | 94  | 12:19 | 70S | 18:18 | 266 | 19:04 |
| 2024 | Mar | 10 | (Sun) | 05:34 | 06:20 | 94  | 12:19 | 70S | 18:18 | 266 | 19:05 |
| 2024 | Mar | 11 | (Mon) | 05:33 | 06:20 | 94  | 12:19 | 71S | 18:18 | 267 | 19:05 |
| 2024 | Mar | 12 | (Tue) | 05:32 | 06:19 | 93  | 12:18 | 71S | 18:18 | 267 | 19:05 |
| 2024 | Mar | 13 | (Wed) | 05:32 | 06:18 | 93  | 12:18 | 71S | 18:18 | 268 | 19:05 |
| 2024 | Mar | 14 | (Thu) | 05:31 | 06:17 | 92  | 12:18 | 72S | 18:19 | 268 | 19:05 |
| 2024 | Mar | 15 | (Fri) | 05:30 | 06:17 | 92  | 12:18 | 72S | 18:19 | 268 | 19:05 |
| 2024 | Mar | 16 | (Sat) | 05:29 | 06:16 | 91  | 12:17 | 73S | 18:19 | 269 | 19:06 |
| 2024 | Mar | 17 | (Sun) | 05:29 | 06:15 | 91  | 12:17 | 73S | 18:19 | 269 | 19:06 |
| 2024 | Mar | 18 | (Mon) | 05:28 | 06:14 | 91  | 12:17 | 73S | 18:19 | 270 | 19:06 |
| 2024 | Mar | 19 | (Tue) | 05:27 | 06:14 | 90  | 12:16 | 74S | 18:20 | 270 | 19:06 |
| 2024 | Mar | 20 | (Wed) | 05:26 | 06:13 | 90  | 12:16 | 74S | 18:20 | 270 | 19:06 |
| 2024 | Mar | 21 | (Thu) | 05:25 | 06:12 | 89  | 12:16 | 74S | 18:20 | 271 | 19:07 |
| 2024 | Mar | 22 | (Fri) | 05:25 | 06:11 | 89  | 12:16 | 75S | 18:20 | 271 | 19:07 |
| 2024 | Mar | 23 | (Sat) | 05:24 | 06:11 | 89  | 12:15 | 75S | 18:20 | 272 | 19:07 |
| 2024 | Mar | 24 | (Sun) | 05:23 | 06:10 | 88  | 12:15 | 76S | 18:20 | 272 | 19:07 |
| 2024 | Mar | 25 | (Mon) | 05:22 | 06:09 | 88  | 12:15 | 76S | 18:21 | 272 | 19:07 |
| 2024 | Mar | 26 | (Tue) | 05:22 | 06:08 | 87  | 12:14 | 76S | 18:21 | 273 | 19:08 |
| 2024 | Mar | 27 | (Wed) | 05:21 | 06:07 | 87  | 12:14 | 77S | 18:21 | 273 | 19:08 |
| 2024 | Mar | 28 | (Thu) | 05:20 | 06:07 | 87  | 12:14 | 77S | 18:21 | 274 | 19:08 |
| 2024 | Mar | 29 | (Fri) | 05:19 | 06:06 | 86  | 12:13 | 78S | 18:21 | 274 | 19:08 |
| 2024 | Mar | 30 | (Sat) | 05:18 | 06:05 | 86  | 12:13 | 78S | 18:21 | 274 | 19:08 |
| 2024 | Mar | 31 | (Sun) | 05:17 | 06:04 | 85  | 12:13 | 78S | 18:22 | 275 | 19:09 |
| 2024 | Apr | 01 | (Mon) | 05:17 | 06:04 | 85  | 12:13 | 79S | 18:22 | 275 | 19:09 |
| 2024 | Apr | 02 | (Tue) | 05:16 | 06:03 | 85  | 12:12 | 79S | 18:22 | 276 | 19:09 |
| 2024 | Apr | 03 | (Wed) | 05:15 | 06:02 | 84  | 12:12 | 80S | 18:22 | 276 | 19:09 |
| 2024 | Apr | 04 | (Thu) | 05:14 | 06:01 | 84  | 12:12 | 80S | 18:22 | 276 | 19:09 |
| 2024 | Apr | 05 | (Fri) | 05:13 | 06:01 | 83  | 12:11 | 80S | 18:22 | 277 | 19:10 |
| 2024 | Apr | 06 | (Sat) | 05:13 | 06:00 | 83  | 12:11 | 81S | 18:23 | 277 | 19:10 |
| 2024 | Apr | 07 | (Sun) | 05:12 | 05:59 | 83  | 12:11 | 81S | 18:23 | 278 | 19:10 |
| 2024 | Apr | 08 | (Mon) | 05:11 | 05:58 | 82  | 12:11 | 81S | 18:23 | 278 | 19:10 |
| 2024 | Apr | 09 | (Tue) | 05:10 | 05:58 | 82  | 12:10 | 82S | 18:23 | 278 | 19:11 |
| 2024 | Apr | 10 | (Wed) | 05:10 | 05:57 | 81  | 12:10 | 82S | 18:23 | 279 | 19:11 |
| 2024 | Apr | 11 | (Thu) | 05:09 | 05:56 | 81  | 12:10 | 83S | 18:24 | 279 | 19:11 |
| 2024 | Apr | 12 | (Fri) | 05:08 | 05:56 | 81  | 12:10 | 83S | 18:24 | 280 | 19:11 |
| 2024 | Apr | 13 | (Sat) | 05:07 | 05:55 | 80  | 12:09 | 83S | 18:24 | 280 | 19:12 |
| 2024 | Apr | 14 | (Sun) | 05:06 | 05:54 | 80  | 12:09 | 84S | 18:24 | 280 | 19:12 |
| 2024 | Apr | 15 | (Mon) | 05:06 | 05:53 | 79  | 12:09 | 84S | 18:24 | 281 | 19:12 |
| 2024 | Apr | 16 | (Tue) | 05:05 | 05:53 | 79  | 12:09 | 84S | 18:25 | 281 | 19:12 |
| 2024 | Apr | 17 | (Wed) | 05:04 | 05:52 | 79  | 12:08 | 85S | 18:25 | 281 | 19:13 |
| 2024 | Apr | 18 | (Thu) | 05:03 | 05:51 | 78  | 12:08 | 85S | 18:25 | 282 | 19:13 |
| 2024 | Apr | 19 | (Fri) | 05:03 | 05:51 | 78  | 12:08 | 85S | 18:25 | 282 | 19:13 |
| 2024 | Apr | 20 | (Sat) | 05:02 | 05:50 | 78  | 12:08 | 86S | 18:25 | 283 | 19:14 |
| 2024 | Apr | 21 | (Sun) | 05:01 | 05:49 | 77  | 12:07 | 86S | 18:26 | 283 | 19:14 |
| 2024 | Apr | 22 | (Mon) | 05:01 | 05:49 | 77  | 12:07 | 86S | 18:26 | 283 | 19:14 |
| 2024 | Apr | 23 | (Tue) | 05:00 | 05:48 | 77  | 12:07 | 87S | 18:26 | 284 | 19:15 |
| 2024 | Apr | 24 | (Wed) | 04:59 | 05:48 | 76  | 12:07 | 87S | 18:26 | 284 | 19:15 |
| 2024 | Apr | 25 | (Thu) | 04:59 | 05:47 | 76  | 12:07 | 87S | 18:27 | 284 | 19:15 |
| 2024 | Apr | 26 | (Fri) | 04:58 | 05:46 | 76  | 12:07 | 88S | 18:27 | 285 | 19:16 |
| 2024 | Apr | 27 | (Sat) | 04:57 | 05:46 | 75  | 12:06 | 88S | 18:27 | 285 | 19:16 |
| 2024 | Apr | 28 | (Sun) | 04:57 | 05:45 | 75  | 12:06 | 88S | 18:27 | 285 | 19:16 |
| 2024 | Apr | 29 | (Mon) | 04:56 | 05:45 | 75  | 12:06 | 89S | 18:28 | 286 | 19:17 |
| 2024 | Apr | 30 | (Tue) | 04:55 | 05:44 | 74  | 12:06 | 89S | 18:28 | 286 | 19:17 |
| 2024 | May | 01 | (Wed) | 04:55 | 05:44 | 74  | 12:06 | 89S | 18:28 | 286 | 19:17 |

|      |     |    |       |       |       |    |       |     |       |     |       |
|------|-----|----|-------|-------|-------|----|-------|-----|-------|-----|-------|
| 2024 | May | 02 | (Thu) | 04:54 | 05:43 | 74 | 12:06 | 90S | 18:28 | 287 | 19:18 |
| 2024 | May | 03 | (Fri) | 04:54 | 05:43 | 73 | 12:06 | 90S | 18:29 | 287 | 19:18 |
| 2024 | May | 04 | (Sat) | 04:53 | 05:42 | 73 | 12:06 | 90S | 18:29 | 287 | 19:18 |
| 2024 | May | 05 | (Sun) | 04:52 | 05:42 | 73 | 12:05 | 90S | 18:29 | 287 | 19:19 |
| 2024 | May | 06 | (Mon) | 04:52 | 05:41 | 72 | 12:05 | 91N | 18:30 | 288 | 19:19 |
| 2024 | May | 07 | (Tue) | 04:51 | 05:41 | 72 | 12:05 | 90N | 18:30 | 288 | 19:20 |
| 2024 | May | 08 | (Wed) | 04:51 | 05:40 | 72 | 12:05 | 90N | 18:30 | 288 | 19:20 |
| 2024 | May | 09 | (Thu) | 04:50 | 05:40 | 72 | 12:05 | 90N | 18:31 | 289 | 19:20 |
| 2024 | May | 10 | (Fri) | 04:50 | 05:40 | 71 | 12:05 | 90N | 18:31 | 289 | 19:21 |
| 2024 | May | 11 | (Sat) | 04:49 | 05:39 | 71 | 12:05 | 89N | 18:31 | 289 | 19:21 |
| 2024 | May | 12 | (Sun) | 04:49 | 05:39 | 71 | 12:05 | 89N | 18:32 | 289 | 19:22 |
| 2024 | May | 13 | (Mon) | 04:48 | 05:39 | 70 | 12:05 | 89N | 18:32 | 290 | 19:22 |
| 2024 | May | 14 | (Tue) | 04:48 | 05:38 | 70 | 12:05 | 89N | 18:32 | 290 | 19:23 |
| 2024 | May | 15 | (Wed) | 04:48 | 05:38 | 70 | 12:05 | 88N | 18:33 | 290 | 19:23 |
| 2024 | May | 16 | (Thu) | 04:47 | 05:38 | 70 | 12:05 | 88N | 18:33 | 290 | 19:23 |
| 2024 | May | 17 | (Fri) | 04:47 | 05:37 | 69 | 12:05 | 88N | 18:33 | 291 | 19:24 |
| 2024 | May | 18 | (Sat) | 04:47 | 05:37 | 69 | 12:05 | 88N | 18:34 | 291 | 19:24 |
| 2024 | May | 19 | (Sun) | 04:46 | 05:37 | 69 | 12:05 | 87N | 18:34 | 291 | 19:25 |
| 2024 | May | 20 | (Mon) | 04:46 | 05:37 | 69 | 12:05 | 87N | 18:34 | 291 | 19:25 |
| 2024 | May | 21 | (Tue) | 04:46 | 05:36 | 69 | 12:05 | 87N | 18:35 | 292 | 19:26 |
| 2024 | May | 22 | (Wed) | 04:45 | 05:36 | 68 | 12:06 | 87N | 18:35 | 292 | 19:26 |
| 2024 | May | 23 | (Thu) | 04:45 | 05:36 | 68 | 12:06 | 87N | 18:35 | 292 | 19:26 |
| 2024 | May | 24 | (Fri) | 04:45 | 05:36 | 68 | 12:06 | 87N | 18:36 | 292 | 19:27 |
| 2024 | May | 25 | (Sat) | 04:45 | 05:36 | 68 | 12:06 | 86N | 18:36 | 292 | 19:27 |
| 2024 | May | 26 | (Sun) | 04:44 | 05:36 | 68 | 12:06 | 86N | 18:36 | 293 | 19:28 |
| 2024 | May | 27 | (Mon) | 04:44 | 05:35 | 67 | 12:06 | 86N | 18:37 | 293 | 19:28 |
| 2024 | May | 28 | (Tue) | 04:44 | 05:35 | 67 | 12:06 | 86N | 18:37 | 293 | 19:29 |
| 2024 | May | 29 | (Wed) | 04:44 | 05:35 | 67 | 12:06 | 86N | 18:37 | 293 | 19:29 |
| 2024 | May | 30 | (Thu) | 04:44 | 05:35 | 67 | 12:06 | 86N | 18:38 | 293 | 19:29 |
| 2024 | May | 31 | (Fri) | 04:43 | 05:35 | 67 | 12:07 | 85N | 18:38 | 293 | 19:30 |
| 2024 | Jun | 01 | (Sat) | 04:43 | 05:35 | 67 | 12:07 | 85N | 18:38 | 293 | 19:30 |
| 2024 | Jun | 02 | (Sun) | 04:43 | 05:35 | 66 | 12:07 | 85N | 18:39 | 294 | 19:31 |
| 2024 | Jun | 03 | (Mon) | 04:43 | 05:35 | 66 | 12:07 | 85N | 18:39 | 294 | 19:31 |
| 2024 | Jun | 04 | (Tue) | 04:43 | 05:35 | 66 | 12:07 | 85N | 18:39 | 294 | 19:31 |
| 2024 | Jun | 05 | (Wed) | 04:43 | 05:35 | 66 | 12:07 | 85N | 18:40 | 294 | 19:32 |
| 2024 | Jun | 06 | (Thu) | 04:43 | 05:35 | 66 | 12:08 | 85N | 18:40 | 294 | 19:32 |
| 2024 | Jun | 07 | (Fri) | 04:43 | 05:35 | 66 | 12:08 | 85N | 18:40 | 294 | 19:33 |
| 2024 | Jun | 08 | (Sat) | 04:43 | 05:35 | 66 | 12:08 | 84N | 18:41 | 294 | 19:33 |
| 2024 | Jun | 09 | (Sun) | 04:43 | 05:35 | 66 | 12:08 | 84N | 18:41 | 294 | 19:33 |
| 2024 | Jun | 10 | (Mon) | 04:43 | 05:35 | 66 | 12:08 | 84N | 18:41 | 294 | 19:34 |
| 2024 | Jun | 11 | (Tue) | 04:43 | 05:35 | 66 | 12:09 | 84N | 18:42 | 294 | 19:34 |
| 2024 | Jun | 12 | (Wed) | 04:43 | 05:35 | 65 | 12:09 | 84N | 18:42 | 295 | 19:34 |
| 2024 | Jun | 13 | (Thu) | 04:43 | 05:36 | 65 | 12:09 | 84N | 18:42 | 295 | 19:35 |
| 2024 | Jun | 14 | (Fri) | 04:44 | 05:36 | 65 | 12:09 | 84N | 18:43 | 295 | 19:35 |
| 2024 | Jun | 15 | (Sat) | 04:44 | 05:36 | 65 | 12:09 | 84N | 18:43 | 295 | 19:35 |
| 2024 | Jun | 16 | (Sun) | 04:44 | 05:36 | 65 | 12:10 | 84N | 18:43 | 295 | 19:35 |
| 2024 | Jun | 17 | (Mon) | 04:44 | 05:36 | 65 | 12:10 | 84N | 18:43 | 295 | 19:36 |
| 2024 | Jun | 18 | (Tue) | 04:44 | 05:36 | 65 | 12:10 | 84N | 18:44 | 295 | 19:36 |
| 2024 | Jun | 19 | (Wed) | 04:44 | 05:37 | 65 | 12:10 | 84N | 18:44 | 295 | 19:36 |
| 2024 | Jun | 20 | (Thu) | 04:44 | 05:37 | 65 | 12:10 | 84N | 18:44 | 295 | 19:36 |
| 2024 | Jun | 21 | (Fri) | 04:45 | 05:37 | 65 | 12:11 | 84N | 18:44 | 295 | 19:37 |
| 2024 | Jun | 22 | (Sat) | 04:45 | 05:37 | 65 | 12:11 | 84N | 18:45 | 295 | 19:37 |
| 2024 | Jun | 23 | (Sun) | 04:45 | 05:37 | 65 | 12:11 | 84N | 18:45 | 295 | 19:37 |
| 2024 | Jun | 24 | (Mon) | 04:45 | 05:38 | 65 | 12:11 | 84N | 18:45 | 295 | 19:37 |
| 2024 | Jun | 25 | (Tue) | 04:46 | 05:38 | 65 | 12:12 | 84N | 18:45 | 295 | 19:37 |
| 2024 | Jun | 26 | (Wed) | 04:46 | 05:38 | 65 | 12:12 | 84N | 18:45 | 295 | 19:37 |
| 2024 | Jun | 27 | (Thu) | 04:46 | 05:38 | 65 | 12:12 | 84N | 18:45 | 295 | 19:38 |
| 2024 | Jun | 28 | (Fri) | 04:47 | 05:39 | 65 | 12:12 | 84N | 18:46 | 295 | 19:38 |
| 2024 | Jun | 29 | (Sat) | 04:47 | 05:39 | 65 | 12:12 | 84N | 18:46 | 295 | 19:38 |
| 2024 | Jun | 30 | (Sun) | 04:47 | 05:39 | 65 | 12:13 | 84N | 18:46 | 294 | 19:38 |
| 2024 | Jul | 01 | (Mon) | 04:47 | 05:40 | 66 | 12:13 | 84N | 18:46 | 294 | 19:38 |
| 2024 | Jul | 02 | (Tue) | 04:48 | 05:40 | 66 | 12:13 | 84N | 18:46 | 294 | 19:38 |
| 2024 | Jul | 03 | (Wed) | 04:48 | 05:40 | 66 | 12:13 | 84N | 18:46 | 294 | 19:38 |
| 2024 | Jul | 04 | (Thu) | 04:48 | 05:41 | 66 | 12:13 | 85N | 18:46 | 294 | 19:38 |
| 2024 | Jul | 05 | (Fri) | 04:49 | 05:41 | 66 | 12:13 | 85N | 18:46 | 294 | 19:38 |
| 2024 | Jul | 06 | (Sat) | 04:49 | 05:41 | 66 | 12:14 | 85N | 18:46 | 294 | 19:38 |
| 2024 | Jul | 07 | (Sun) | 04:50 | 05:41 | 66 | 12:14 | 85N | 18:46 | 294 | 19:38 |

|      |     |    |       |       |       |    |       |     |       |     |       |
|------|-----|----|-------|-------|-------|----|-------|-----|-------|-----|-------|
| 2024 | Jul | 08 | (Mon) | 04:50 | 05:42 | 66 | 12:14 | 85N | 18:46 | 294 | 19:38 |
| 2024 | Jul | 09 | (Tue) | 04:50 | 05:42 | 66 | 12:14 | 85N | 18:46 | 294 | 19:38 |
| 2024 | Jul | 10 | (Wed) | 04:51 | 05:42 | 66 | 12:14 | 85N | 18:46 | 293 | 19:38 |
| 2024 | Jul | 11 | (Thu) | 04:51 | 05:43 | 67 | 12:14 | 85N | 18:46 | 293 | 19:38 |
| 2024 | Jul | 12 | (Fri) | 04:51 | 05:43 | 67 | 12:15 | 85N | 18:46 | 293 | 19:37 |
| 2024 | Jul | 13 | (Sat) | 04:52 | 05:43 | 67 | 12:15 | 86N | 18:46 | 293 | 19:37 |
| 2024 | Jul | 14 | (Sun) | 04:52 | 05:44 | 67 | 12:15 | 86N | 18:46 | 293 | 19:37 |
| 2024 | Jul | 15 | (Mon) | 04:53 | 05:44 | 67 | 12:15 | 86N | 18:46 | 293 | 19:37 |
| 2024 | Jul | 16 | (Tue) | 04:53 | 05:44 | 67 | 12:15 | 86N | 18:45 | 292 | 19:37 |
| 2024 | Jul | 17 | (Wed) | 04:53 | 05:45 | 68 | 12:15 | 86N | 18:45 | 292 | 19:36 |
| 2024 | Jul | 18 | (Thu) | 04:54 | 05:45 | 68 | 12:15 | 86N | 18:45 | 292 | 19:36 |
| 2024 | Jul | 19 | (Fri) | 04:54 | 05:45 | 68 | 12:15 | 87N | 18:45 | 292 | 19:36 |
| 2024 | Jul | 20 | (Sat) | 04:55 | 05:46 | 68 | 12:15 | 87N | 18:45 | 292 | 19:36 |
| 2024 | Jul | 21 | (Sun) | 04:55 | 05:46 | 68 | 12:15 | 87N | 18:44 | 292 | 19:35 |
| 2024 | Jul | 22 | (Mon) | 04:55 | 05:46 | 69 | 12:15 | 87N | 18:44 | 291 | 19:35 |
| 2024 | Jul | 23 | (Tue) | 04:56 | 05:47 | 69 | 12:15 | 87N | 18:44 | 291 | 19:35 |
| 2024 | Jul | 24 | (Wed) | 04:56 | 05:47 | 69 | 12:15 | 88N | 18:44 | 291 | 19:34 |
| 2024 | Jul | 25 | (Thu) | 04:57 | 05:47 | 69 | 12:15 | 88N | 18:43 | 291 | 19:34 |
| 2024 | Jul | 26 | (Fri) | 04:57 | 05:48 | 69 | 12:15 | 88N | 18:43 | 290 | 19:33 |
| 2024 | Jul | 27 | (Sat) | 04:57 | 05:48 | 70 | 12:15 | 88N | 18:43 | 290 | 19:33 |
| 2024 | Jul | 28 | (Sun) | 04:58 | 05:48 | 70 | 12:15 | 88N | 18:42 | 290 | 19:33 |
| 2024 | Jul | 29 | (Mon) | 04:58 | 05:48 | 70 | 12:15 | 89N | 18:42 | 290 | 19:32 |
| 2024 | Jul | 30 | (Tue) | 04:59 | 05:49 | 70 | 12:15 | 89N | 18:42 | 289 | 19:32 |
| 2024 | Jul | 31 | (Wed) | 04:59 | 05:49 | 71 | 12:15 | 89N | 18:41 | 289 | 19:31 |
| 2024 | Aug | 01 | (Thu) | 04:59 | 05:49 | 71 | 12:15 | 89N | 18:41 | 289 | 19:31 |
| 2024 | Aug | 02 | (Fri) | 05:00 | 05:50 | 71 | 12:15 | 90N | 18:40 | 289 | 19:30 |
| 2024 | Aug | 03 | (Sat) | 05:00 | 05:50 | 72 | 12:15 | 90N | 18:40 | 288 | 19:30 |
| 2024 | Aug | 04 | (Sun) | 05:00 | 05:50 | 72 | 12:15 | 90N | 18:40 | 288 | 19:29 |
| 2024 | Aug | 05 | (Mon) | 05:01 | 05:50 | 72 | 12:15 | 91N | 18:39 | 288 | 19:29 |
| 2024 | Aug | 06 | (Tue) | 05:01 | 05:51 | 72 | 12:15 | 91S | 18:39 | 287 | 19:28 |
| 2024 | Aug | 07 | (Wed) | 05:01 | 05:51 | 73 | 12:15 | 90S | 18:38 | 287 | 19:27 |
| 2024 | Aug | 08 | (Thu) | 05:02 | 05:51 | 73 | 12:14 | 90S | 18:38 | 287 | 19:27 |
| 2024 | Aug | 09 | (Fri) | 05:02 | 05:51 | 73 | 12:14 | 90S | 18:37 | 287 | 19:26 |
| 2024 | Aug | 10 | (Sat) | 05:02 | 05:52 | 74 | 12:14 | 89S | 18:37 | 286 | 19:26 |
| 2024 | Aug | 11 | (Sun) | 05:03 | 05:52 | 74 | 12:14 | 89S | 18:36 | 286 | 19:25 |
| 2024 | Aug | 12 | (Mon) | 05:03 | 05:52 | 74 | 12:14 | 89S | 18:35 | 286 | 19:24 |
| 2024 | Aug | 13 | (Tue) | 05:03 | 05:52 | 74 | 12:14 | 89S | 18:35 | 285 | 19:24 |
| 2024 | Aug | 14 | (Wed) | 05:04 | 05:52 | 75 | 12:13 | 88S | 18:34 | 285 | 19:23 |
| 2024 | Aug | 15 | (Thu) | 05:04 | 05:53 | 75 | 12:13 | 88S | 18:34 | 285 | 19:22 |
| 2024 | Aug | 16 | (Fri) | 05:04 | 05:53 | 75 | 12:13 | 88S | 18:33 | 284 | 19:22 |
| 2024 | Aug | 17 | (Sat) | 05:05 | 05:53 | 76 | 12:13 | 87S | 18:32 | 284 | 19:21 |
| 2024 | Aug | 18 | (Sun) | 05:05 | 05:53 | 76 | 12:13 | 87S | 18:32 | 284 | 19:20 |
| 2024 | Aug | 19 | (Mon) | 05:05 | 05:53 | 76 | 12:12 | 87S | 18:31 | 283 | 19:19 |
| 2024 | Aug | 20 | (Tue) | 05:05 | 05:54 | 77 | 12:12 | 86S | 18:30 | 283 | 19:19 |
| 2024 | Aug | 21 | (Wed) | 05:06 | 05:54 | 77 | 12:12 | 86S | 18:30 | 283 | 19:18 |
| 2024 | Aug | 22 | (Thu) | 05:06 | 05:54 | 78 | 12:12 | 86S | 18:29 | 282 | 19:17 |
| 2024 | Aug | 23 | (Fri) | 05:06 | 05:54 | 78 | 12:11 | 85S | 18:28 | 282 | 19:16 |
| 2024 | Aug | 24 | (Sat) | 05:06 | 05:54 | 78 | 12:11 | 85S | 18:28 | 282 | 19:16 |
| 2024 | Aug | 25 | (Sun) | 05:07 | 05:54 | 79 | 12:11 | 85S | 18:27 | 281 | 19:15 |
| 2024 | Aug | 26 | (Mon) | 05:07 | 05:55 | 79 | 12:11 | 84S | 18:26 | 281 | 19:14 |
| 2024 | Aug | 27 | (Tue) | 05:07 | 05:55 | 79 | 12:10 | 84S | 18:26 | 280 | 19:13 |
| 2024 | Aug | 28 | (Wed) | 05:07 | 05:55 | 80 | 12:10 | 84S | 18:25 | 280 | 19:12 |
| 2024 | Aug | 29 | (Thu) | 05:07 | 05:55 | 80 | 12:10 | 83S | 18:24 | 280 | 19:12 |
| 2024 | Aug | 30 | (Fri) | 05:08 | 05:55 | 80 | 12:09 | 83S | 18:23 | 279 | 19:11 |
| 2024 | Aug | 31 | (Sat) | 05:08 | 05:55 | 81 | 12:09 | 83S | 18:23 | 279 | 19:10 |
| 2024 | Sep | 01 | (Sun) | 05:08 | 05:55 | 81 | 12:09 | 82S | 18:22 | 279 | 19:09 |
| 2024 | Sep | 02 | (Mon) | 05:08 | 05:56 | 82 | 12:08 | 82S | 18:21 | 278 | 19:08 |
| 2024 | Sep | 03 | (Tue) | 05:08 | 05:56 | 82 | 12:08 | 81S | 18:20 | 278 | 19:08 |
| 2024 | Sep | 04 | (Wed) | 05:09 | 05:56 | 82 | 12:08 | 81S | 18:19 | 277 | 19:07 |
| 2024 | Sep | 05 | (Thu) | 05:09 | 05:56 | 83 | 12:07 | 81S | 18:19 | 277 | 19:06 |
| 2024 | Sep | 06 | (Fri) | 05:09 | 05:56 | 83 | 12:07 | 80S | 18:18 | 277 | 19:05 |
| 2024 | Sep | 07 | (Sat) | 05:09 | 05:56 | 84 | 12:07 | 80S | 18:17 | 276 | 19:04 |
| 2024 | Sep | 08 | (Sun) | 05:09 | 05:56 | 84 | 12:06 | 80S | 18:16 | 276 | 19:03 |
| 2024 | Sep | 09 | (Mon) | 05:09 | 05:56 | 84 | 12:06 | 79S | 18:15 | 275 | 19:02 |
| 2024 | Sep | 10 | (Tue) | 05:10 | 05:57 | 85 | 12:06 | 79S | 18:15 | 275 | 19:02 |
| 2024 | Sep | 11 | (Wed) | 05:10 | 05:57 | 85 | 12:05 | 78S | 18:14 | 275 | 19:01 |
| 2024 | Sep | 12 | (Thu) | 05:10 | 05:57 | 85 | 12:05 | 78S | 18:13 | 274 | 19:00 |

|      |     |    |       |       |       |     |       |     |       |     |       |
|------|-----|----|-------|-------|-------|-----|-------|-----|-------|-----|-------|
| 2024 | Sep | 13 | (Fri) | 05:10 | 05:57 | 86  | 12:05 | 78S | 18:12 | 274 | 18:59 |
| 2024 | Sep | 14 | (Sat) | 05:10 | 05:57 | 86  | 12:04 | 77S | 18:11 | 274 | 18:58 |
| 2024 | Sep | 15 | (Sun) | 05:10 | 05:57 | 87  | 12:04 | 77S | 18:11 | 273 | 18:57 |
| 2024 | Sep | 16 | (Mon) | 05:10 | 05:57 | 87  | 12:04 | 77S | 18:10 | 273 | 18:57 |
| 2024 | Sep | 17 | (Tue) | 05:10 | 05:57 | 87  | 12:03 | 76S | 18:09 | 272 | 18:56 |
| 2024 | Sep | 18 | (Wed) | 05:11 | 05:57 | 88  | 12:03 | 76S | 18:08 | 272 | 18:55 |
| 2024 | Sep | 19 | (Thu) | 05:11 | 05:57 | 88  | 12:03 | 75S | 18:07 | 271 | 18:54 |
| 2024 | Sep | 20 | (Fri) | 05:11 | 05:58 | 89  | 12:02 | 75S | 18:06 | 271 | 18:53 |
| 2024 | Sep | 21 | (Sat) | 05:11 | 05:58 | 89  | 12:02 | 75S | 18:06 | 271 | 18:52 |
| 2024 | Sep | 22 | (Sun) | 05:11 | 05:58 | 90  | 12:01 | 74S | 18:05 | 270 | 18:51 |
| 2024 | Sep | 23 | (Mon) | 05:11 | 05:58 | 90  | 12:01 | 74S | 18:04 | 270 | 18:51 |
| 2024 | Sep | 24 | (Tue) | 05:11 | 05:58 | 90  | 12:01 | 73S | 18:03 | 269 | 18:50 |
| 2024 | Sep | 25 | (Wed) | 05:11 | 05:58 | 91  | 12:00 | 73S | 18:02 | 269 | 18:49 |
| 2024 | Sep | 26 | (Thu) | 05:12 | 05:58 | 91  | 12:00 | 73S | 18:02 | 269 | 18:48 |
| 2024 | Sep | 27 | (Fri) | 05:12 | 05:58 | 92  | 12:00 | 72S | 18:01 | 268 | 18:47 |
| 2024 | Sep | 28 | (Sat) | 05:12 | 05:59 | 92  | 11:59 | 72S | 18:00 | 268 | 18:47 |
| 2024 | Sep | 29 | (Sun) | 05:12 | 05:59 | 92  | 11:59 | 71S | 17:59 | 267 | 18:46 |
| 2024 | Sep | 30 | (Mon) | 05:12 | 05:59 | 93  | 11:59 | 71S | 17:58 | 267 | 18:45 |
| 2024 | Oct | 01 | (Tue) | 05:12 | 05:59 | 93  | 11:58 | 71S | 17:58 | 267 | 18:44 |
| 2024 | Oct | 02 | (Wed) | 05:12 | 05:59 | 94  | 11:58 | 70S | 17:57 | 266 | 18:43 |
| 2024 | Oct | 03 | (Thu) | 05:13 | 05:59 | 94  | 11:58 | 70S | 17:56 | 266 | 18:43 |
| 2024 | Oct | 04 | (Fri) | 05:13 | 05:59 | 94  | 11:57 | 70S | 17:55 | 265 | 18:42 |
| 2024 | Oct | 05 | (Sat) | 05:13 | 06:00 | 95  | 11:57 | 69S | 17:55 | 265 | 18:41 |
| 2024 | Oct | 06 | (Sun) | 05:13 | 06:00 | 95  | 11:57 | 69S | 17:54 | 265 | 18:40 |
| 2024 | Oct | 07 | (Mon) | 05:13 | 06:00 | 96  | 11:57 | 68S | 17:53 | 264 | 18:40 |
| 2024 | Oct | 08 | (Tue) | 05:13 | 06:00 | 96  | 11:56 | 68S | 17:52 | 264 | 18:39 |
| 2024 | Oct | 09 | (Wed) | 05:13 | 06:00 | 96  | 11:56 | 68S | 17:52 | 263 | 18:38 |
| 2024 | Oct | 10 | (Thu) | 05:14 | 06:00 | 97  | 11:56 | 67S | 17:51 | 263 | 18:38 |
| 2024 | Oct | 11 | (Fri) | 05:14 | 06:01 | 97  | 11:55 | 67S | 17:50 | 263 | 18:37 |
| 2024 | Oct | 12 | (Sat) | 05:14 | 06:01 | 98  | 11:55 | 66S | 17:49 | 262 | 18:36 |
| 2024 | Oct | 13 | (Sun) | 05:14 | 06:01 | 98  | 11:55 | 66S | 17:49 | 262 | 18:36 |
| 2024 | Oct | 14 | (Mon) | 05:14 | 06:01 | 98  | 11:55 | 66S | 17:48 | 261 | 18:35 |
| 2024 | Oct | 15 | (Tue) | 05:14 | 06:01 | 99  | 11:55 | 65S | 17:47 | 261 | 18:34 |
| 2024 | Oct | 16 | (Wed) | 05:15 | 06:02 | 99  | 11:54 | 65S | 17:47 | 261 | 18:34 |
| 2024 | Oct | 17 | (Thu) | 05:15 | 06:02 | 99  | 11:54 | 65S | 17:46 | 260 | 18:33 |
| 2024 | Oct | 18 | (Fri) | 05:15 | 06:02 | 100 | 11:54 | 64S | 17:45 | 260 | 18:33 |
| 2024 | Oct | 19 | (Sat) | 05:15 | 06:02 | 100 | 11:54 | 64S | 17:45 | 260 | 18:32 |
| 2024 | Oct | 20 | (Sun) | 05:15 | 06:03 | 101 | 11:54 | 64S | 17:44 | 259 | 18:31 |
| 2024 | Oct | 21 | (Mon) | 05:16 | 06:03 | 101 | 11:53 | 63S | 17:44 | 259 | 18:31 |
| 2024 | Oct | 22 | (Tue) | 05:16 | 06:03 | 101 | 11:53 | 63S | 17:43 | 258 | 18:30 |
| 2024 | Oct | 23 | (Wed) | 05:16 | 06:04 | 102 | 11:53 | 62S | 17:42 | 258 | 18:30 |
| 2024 | Oct | 24 | (Thu) | 05:16 | 06:04 | 102 | 11:53 | 62S | 17:42 | 258 | 18:29 |
| 2024 | Oct | 25 | (Fri) | 05:17 | 06:04 | 102 | 11:53 | 62S | 17:41 | 257 | 18:29 |
| 2024 | Oct | 26 | (Sat) | 05:17 | 06:04 | 103 | 11:53 | 61S | 17:41 | 257 | 18:28 |
| 2024 | Oct | 27 | (Sun) | 05:17 | 06:05 | 103 | 11:53 | 61S | 17:40 | 257 | 18:28 |
| 2024 | Oct | 28 | (Mon) | 05:17 | 06:05 | 104 | 11:53 | 61S | 17:40 | 256 | 18:27 |
| 2024 | Oct | 29 | (Tue) | 05:18 | 06:05 | 104 | 11:52 | 60S | 17:39 | 256 | 18:27 |
| 2024 | Oct | 30 | (Wed) | 05:18 | 06:06 | 104 | 11:52 | 60S | 17:39 | 256 | 18:27 |
| 2024 | Oct | 31 | (Thu) | 05:18 | 06:06 | 105 | 11:52 | 60S | 17:38 | 255 | 18:26 |
| 2024 | Nov | 01 | (Fri) | 05:19 | 06:07 | 105 | 11:52 | 59S | 17:38 | 255 | 18:26 |
| 2024 | Nov | 02 | (Sat) | 05:19 | 06:07 | 105 | 11:52 | 59S | 17:38 | 255 | 18:26 |
| 2024 | Nov | 03 | (Sun) | 05:19 | 06:07 | 106 | 11:52 | 59S | 17:37 | 254 | 18:25 |
| 2024 | Nov | 04 | (Mon) | 05:20 | 06:08 | 106 | 11:52 | 59S | 17:37 | 254 | 18:25 |
| 2024 | Nov | 05 | (Tue) | 05:20 | 06:08 | 106 | 11:52 | 58S | 17:36 | 254 | 18:25 |
| 2024 | Nov | 06 | (Wed) | 05:20 | 06:09 | 107 | 11:52 | 58S | 17:36 | 253 | 18:24 |
| 2024 | Nov | 07 | (Thu) | 05:21 | 06:09 | 107 | 11:52 | 58S | 17:36 | 253 | 18:24 |
| 2024 | Nov | 08 | (Fri) | 05:21 | 06:09 | 107 | 11:53 | 57S | 17:36 | 253 | 18:24 |
| 2024 | Nov | 09 | (Sat) | 05:21 | 06:10 | 107 | 11:53 | 57S | 17:35 | 252 | 18:24 |
| 2024 | Nov | 10 | (Sun) | 05:22 | 06:10 | 108 | 11:53 | 57S | 17:35 | 252 | 18:24 |
| 2024 | Nov | 11 | (Mon) | 05:22 | 06:11 | 108 | 11:53 | 57S | 17:35 | 252 | 18:23 |
| 2024 | Nov | 12 | (Tue) | 05:23 | 06:11 | 108 | 11:53 | 56S | 17:35 | 252 | 18:23 |
| 2024 | Nov | 13 | (Wed) | 05:23 | 06:12 | 109 | 11:53 | 56S | 17:34 | 251 | 18:23 |
| 2024 | Nov | 14 | (Thu) | 05:23 | 06:12 | 109 | 11:53 | 56S | 17:34 | 251 | 18:23 |
| 2024 | Nov | 15 | (Fri) | 05:24 | 06:13 | 109 | 11:53 | 55S | 17:34 | 251 | 18:23 |
| 2024 | Nov | 16 | (Sat) | 05:24 | 06:13 | 109 | 11:54 | 55S | 17:34 | 250 | 18:23 |
| 2024 | Nov | 17 | (Sun) | 05:25 | 06:14 | 110 | 11:54 | 55S | 17:34 | 250 | 18:23 |
| 2024 | Nov | 18 | (Mon) | 05:25 | 06:14 | 110 | 11:54 | 55S | 17:34 | 250 | 18:23 |

|      |     |    |       |       |       |     |       |     |       |     |       |
|------|-----|----|-------|-------|-------|-----|-------|-----|-------|-----|-------|
| 2024 | Nov | 19 | (Tue) | 05:26 | 06:15 | 110 | 11:54 | 54S | 17:34 | 250 | 18:23 |
| 2024 | Nov | 20 | (Wed) | 05:26 | 06:15 | 110 | 11:54 | 54S | 17:33 | 250 | 18:23 |
| 2024 | Nov | 21 | (Thu) | 05:27 | 06:16 | 111 | 11:55 | 54S | 17:33 | 249 | 18:23 |
| 2024 | Nov | 22 | (Fri) | 05:27 | 06:16 | 111 | 11:55 | 54S | 17:33 | 249 | 18:23 |
| 2024 | Nov | 23 | (Sat) | 05:28 | 06:17 | 111 | 11:55 | 54S | 17:33 | 249 | 18:23 |
| 2024 | Nov | 24 | (Sun) | 05:28 | 06:18 | 111 | 11:56 | 53S | 17:33 | 249 | 18:23 |
| 2024 | Nov | 25 | (Mon) | 05:29 | 06:18 | 111 | 11:56 | 53S | 17:33 | 248 | 18:23 |
| 2024 | Nov | 26 | (Tue) | 05:29 | 06:19 | 112 | 11:56 | 53S | 17:34 | 248 | 18:23 |
| 2024 | Nov | 27 | (Wed) | 05:30 | 06:19 | 112 | 11:56 | 53S | 17:34 | 248 | 18:23 |
| 2024 | Nov | 28 | (Thu) | 05:30 | 06:20 | 112 | 11:57 | 53S | 17:34 | 248 | 18:23 |
| 2024 | Nov | 29 | (Fri) | 05:31 | 06:20 | 112 | 11:57 | 53S | 17:34 | 248 | 18:24 |
| 2024 | Nov | 30 | (Sat) | 05:31 | 06:21 | 112 | 11:58 | 52S | 17:34 | 248 | 18:24 |
| 2024 | Dec | 01 | (Sun) | 05:32 | 06:22 | 113 | 11:58 | 52S | 17:34 | 247 | 18:24 |
| 2024 | Dec | 02 | (Mon) | 05:32 | 06:22 | 113 | 11:58 | 52S | 17:34 | 247 | 18:24 |
| 2024 | Dec | 03 | (Tue) | 05:33 | 06:23 | 113 | 11:59 | 52S | 17:35 | 247 | 18:25 |
| 2024 | Dec | 04 | (Wed) | 05:33 | 06:23 | 113 | 11:59 | 52S | 17:35 | 247 | 18:25 |
| 2024 | Dec | 05 | (Thu) | 05:34 | 06:24 | 113 | 11:59 | 52S | 17:35 | 247 | 18:25 |
| 2024 | Dec | 06 | (Fri) | 05:34 | 06:24 | 113 | 12:00 | 52S | 17:35 | 247 | 18:25 |
| 2024 | Dec | 07 | (Sat) | 05:35 | 06:25 | 113 | 12:00 | 51S | 17:36 | 247 | 18:26 |
| 2024 | Dec | 08 | (Sun) | 05:35 | 06:26 | 114 | 12:01 | 51S | 17:36 | 246 | 18:26 |
| 2024 | Dec | 09 | (Mon) | 05:36 | 06:26 | 114 | 12:01 | 51S | 17:36 | 246 | 18:26 |
| 2024 | Dec | 10 | (Tue) | 05:37 | 06:27 | 114 | 12:02 | 51S | 17:36 | 246 | 18:27 |
| 2024 | Dec | 11 | (Wed) | 05:37 | 06:27 | 114 | 12:02 | 51S | 17:37 | 246 | 18:27 |
| 2024 | Dec | 12 | (Thu) | 05:38 | 06:28 | 114 | 12:03 | 51S | 17:37 | 246 | 18:28 |
| 2024 | Dec | 13 | (Fri) | 05:38 | 06:29 | 114 | 12:03 | 51S | 17:38 | 246 | 18:28 |
| 2024 | Dec | 14 | (Sat) | 05:39 | 06:29 | 114 | 12:04 | 51S | 17:38 | 246 | 18:28 |
| 2024 | Dec | 15 | (Sun) | 05:39 | 06:30 | 114 | 12:04 | 51S | 17:38 | 246 | 18:29 |
| 2024 | Dec | 16 | (Mon) | 05:40 | 06:30 | 114 | 12:04 | 51S | 17:39 | 246 | 18:29 |
| 2024 | Dec | 17 | (Tue) | 05:40 | 06:31 | 114 | 12:05 | 51S | 17:39 | 246 | 18:30 |
| 2024 | Dec | 18 | (Wed) | 05:41 | 06:31 | 114 | 12:05 | 51S | 17:40 | 246 | 18:30 |
| 2024 | Dec | 19 | (Thu) | 05:41 | 06:32 | 114 | 12:06 | 51S | 17:40 | 246 | 18:31 |
| 2024 | Dec | 20 | (Fri) | 05:42 | 06:32 | 114 | 12:06 | 51S | 17:41 | 246 | 18:31 |
| 2024 | Dec | 21 | (Sat) | 05:42 | 06:33 | 114 | 12:07 | 51S | 17:41 | 246 | 18:32 |
| 2024 | Dec | 22 | (Sun) | 05:43 | 06:33 | 114 | 12:07 | 51S | 17:42 | 246 | 18:32 |
| 2024 | Dec | 23 | (Mon) | 05:43 | 06:34 | 114 | 12:08 | 51S | 17:42 | 246 | 18:33 |
| 2024 | Dec | 24 | (Tue) | 05:44 | 06:34 | 114 | 12:08 | 51S | 17:43 | 246 | 18:33 |
| 2024 | Dec | 25 | (Wed) | 05:44 | 06:35 | 114 | 12:09 | 51S | 17:43 | 246 | 18:34 |
| 2024 | Dec | 26 | (Thu) | 05:45 | 06:35 | 114 | 12:09 | 51S | 17:44 | 246 | 18:34 |
| 2024 | Dec | 27 | (Fri) | 05:45 | 06:36 | 114 | 12:10 | 51S | 17:44 | 246 | 18:35 |
| 2024 | Dec | 28 | (Sat) | 05:46 | 06:36 | 114 | 12:10 | 51S | 17:45 | 246 | 18:35 |
| 2024 | Dec | 29 | (Sun) | 05:46 | 06:36 | 114 | 12:11 | 51S | 17:45 | 246 | 18:36 |
| 2024 | Dec | 30 | (Mon) | 05:46 | 06:37 | 114 | 12:11 | 51S | 17:46 | 246 | 18:36 |
| 2024 | Dec | 31 | (Tue) | 05:47 | 06:37 | 114 | 12:12 | 51S | 17:47 | 246 | 18:37 |

Sun

VTEZ

Location: E102°48'00.0", N16°39'00.0", 787m  
(Longitude referred to Greenwich meridian)

Time Zone: 7h 00m east of Greenwich

| Date<br>(Zone) | Begin<br>Civil<br>Twilight | Rise  | Az.   | Transit Alt. | Set   | Az. | End<br>Civil<br>Twilight |     |       |     |       |
|----------------|----------------------------|-------|-------|--------------|-------|-----|--------------------------|-----|-------|-----|-------|
|                | h m                        | h m ° |       | h m °        | h m ° |     | h m                      |     |       |     |       |
| 2024           | Jan                        | 01    | (Mon) | 06:14        | 06:37 | 114 | 12:12                    | 51S | 17:47 | 246 | 18:10 |
| 2024           | Jan                        | 02    | (Tue) | 06:14        | 06:38 | 114 | 12:12                    | 51S | 17:47 | 246 | 18:11 |
| 2024           | Jan                        | 03    | (Wed) | 06:15        | 06:38 | 114 | 12:13                    | 51S | 17:48 | 246 | 18:11 |
| 2024           | Jan                        | 04    | (Thu) | 06:15        | 06:38 | 114 | 12:13                    | 51S | 17:48 | 246 | 18:12 |
| 2024           | Jan                        | 05    | (Fri) | 06:15        | 06:39 | 113 | 12:14                    | 51S | 17:49 | 247 | 18:12 |
| 2024           | Jan                        | 06    | (Sat) | 06:16        | 06:39 | 113 | 12:14                    | 52S | 17:50 | 247 | 18:13 |
| 2024           | Jan                        | 07    | (Sun) | 06:16        | 06:39 | 113 | 12:15                    | 52S | 17:50 | 247 | 18:14 |
| 2024           | Jan                        | 08    | (Mon) | 06:16        | 06:40 | 113 | 12:15                    | 52S | 17:51 | 247 | 18:14 |
| 2024           | Jan                        | 09    | (Tue) | 06:16        | 06:40 | 113 | 12:16                    | 52S | 17:52 | 247 | 18:15 |
| 2024           | Jan                        | 10    | (Wed) | 06:17        | 06:40 | 113 | 12:16                    | 52S | 17:52 | 247 | 18:15 |
| 2024           | Jan                        | 11    | (Thu) | 06:17        | 06:40 | 113 | 12:16                    | 52S | 17:53 | 247 | 18:16 |

|      |     |    |       |       |       |     |       |     |       |     |       |
|------|-----|----|-------|-------|-------|-----|-------|-----|-------|-----|-------|
| 2024 | Jan | 12 | (Fri) | 06:17 | 06:40 | 112 | 12:17 | 52S | 17:53 | 248 | 18:17 |
| 2024 | Jan | 13 | (Sat) | 06:17 | 06:41 | 112 | 12:17 | 52S | 17:54 | 248 | 18:17 |
| 2024 | Jan | 14 | (Sun) | 06:18 | 06:41 | 112 | 12:18 | 53S | 17:55 | 248 | 18:18 |
| 2024 | Jan | 15 | (Mon) | 06:18 | 06:41 | 112 | 12:18 | 53S | 17:55 | 248 | 18:18 |
| 2024 | Jan | 16 | (Tue) | 06:18 | 06:41 | 112 | 12:18 | 53S | 17:56 | 248 | 18:19 |
| 2024 | Jan | 17 | (Wed) | 06:18 | 06:41 | 112 | 12:19 | 53S | 17:56 | 249 | 18:19 |
| 2024 | Jan | 18 | (Thu) | 06:18 | 06:41 | 111 | 12:19 | 53S | 17:57 | 249 | 18:20 |
| 2024 | Jan | 19 | (Fri) | 06:18 | 06:41 | 111 | 12:19 | 54S | 17:58 | 249 | 18:21 |
| 2024 | Jan | 20 | (Sat) | 06:18 | 06:41 | 111 | 12:20 | 54S | 17:58 | 249 | 18:21 |
| 2024 | Jan | 21 | (Sun) | 06:18 | 06:41 | 111 | 12:20 | 54S | 17:59 | 249 | 18:22 |
| 2024 | Jan | 22 | (Mon) | 06:18 | 06:41 | 110 | 12:20 | 54S | 17:59 | 250 | 18:22 |
| 2024 | Jan | 23 | (Tue) | 06:18 | 06:41 | 110 | 12:20 | 54S | 18:00 | 250 | 18:23 |
| 2024 | Jan | 24 | (Wed) | 06:18 | 06:41 | 110 | 12:21 | 55S | 18:00 | 250 | 18:23 |
| 2024 | Jan | 25 | (Thu) | 06:18 | 06:41 | 110 | 12:21 | 55S | 18:01 | 250 | 18:24 |
| 2024 | Jan | 26 | (Fri) | 06:18 | 06:41 | 109 | 12:21 | 55S | 18:02 | 251 | 18:24 |
| 2024 | Jan | 27 | (Sat) | 06:18 | 06:41 | 109 | 12:21 | 55S | 18:02 | 251 | 18:25 |
| 2024 | Jan | 28 | (Sun) | 06:18 | 06:41 | 109 | 12:22 | 56S | 18:03 | 251 | 18:25 |
| 2024 | Jan | 29 | (Mon) | 06:18 | 06:41 | 109 | 12:22 | 56S | 18:03 | 251 | 18:26 |
| 2024 | Jan | 30 | (Tue) | 06:18 | 06:40 | 108 | 12:22 | 56S | 18:04 | 252 | 18:26 |
| 2024 | Jan | 31 | (Wed) | 06:18 | 06:40 | 108 | 12:22 | 57S | 18:04 | 252 | 18:27 |
| 2024 | Feb | 01 | (Thu) | 06:17 | 06:40 | 108 | 12:22 | 57S | 18:05 | 252 | 18:27 |
| 2024 | Feb | 02 | (Fri) | 06:17 | 06:40 | 108 | 12:22 | 57S | 18:05 | 253 | 18:28 |
| 2024 | Feb | 03 | (Sat) | 06:17 | 06:39 | 107 | 12:23 | 57S | 18:06 | 253 | 18:28 |
| 2024 | Feb | 04 | (Sun) | 06:17 | 06:39 | 107 | 12:23 | 58S | 18:06 | 253 | 18:29 |
| 2024 | Feb | 05 | (Mon) | 06:17 | 06:39 | 107 | 12:23 | 58S | 18:07 | 254 | 18:29 |
| 2024 | Feb | 06 | (Tue) | 06:16 | 06:39 | 106 | 12:23 | 58S | 18:07 | 254 | 18:30 |
| 2024 | Feb | 07 | (Wed) | 06:16 | 06:38 | 106 | 12:23 | 59S | 18:08 | 254 | 18:30 |
| 2024 | Feb | 08 | (Thu) | 06:16 | 06:38 | 106 | 12:23 | 59S | 18:08 | 255 | 18:30 |
| 2024 | Feb | 09 | (Fri) | 06:15 | 06:38 | 105 | 12:23 | 59S | 18:08 | 255 | 18:31 |
| 2024 | Feb | 10 | (Sat) | 06:15 | 06:37 | 105 | 12:23 | 60S | 18:09 | 255 | 18:31 |
| 2024 | Feb | 11 | (Sun) | 06:15 | 06:37 | 105 | 12:23 | 60S | 18:09 | 256 | 18:32 |
| 2024 | Feb | 12 | (Mon) | 06:14 | 06:36 | 104 | 12:23 | 60S | 18:10 | 256 | 18:32 |
| 2024 | Feb | 13 | (Tue) | 06:14 | 06:36 | 104 | 12:23 | 61S | 18:10 | 256 | 18:32 |
| 2024 | Feb | 14 | (Wed) | 06:13 | 06:36 | 104 | 12:23 | 61S | 18:11 | 257 | 18:33 |
| 2024 | Feb | 15 | (Thu) | 06:13 | 06:35 | 103 | 12:23 | 61S | 18:11 | 257 | 18:33 |
| 2024 | Feb | 16 | (Fri) | 06:13 | 06:35 | 103 | 12:23 | 62S | 18:11 | 257 | 18:33 |
| 2024 | Feb | 17 | (Sat) | 06:12 | 06:34 | 103 | 12:23 | 62S | 18:12 | 258 | 18:34 |
| 2024 | Feb | 18 | (Sun) | 06:12 | 06:34 | 102 | 12:23 | 62S | 18:12 | 258 | 18:34 |
| 2024 | Feb | 19 | (Mon) | 06:11 | 06:33 | 102 | 12:23 | 63S | 18:12 | 258 | 18:34 |
| 2024 | Feb | 20 | (Tue) | 06:11 | 06:33 | 101 | 12:23 | 63S | 18:13 | 259 | 18:35 |
| 2024 | Feb | 21 | (Wed) | 06:10 | 06:32 | 101 | 12:22 | 63S | 18:13 | 259 | 18:35 |
| 2024 | Feb | 22 | (Thu) | 06:10 | 06:32 | 101 | 12:22 | 64S | 18:13 | 260 | 18:35 |
| 2024 | Feb | 23 | (Fri) | 06:09 | 06:31 | 100 | 12:22 | 64S | 18:14 | 260 | 18:36 |
| 2024 | Feb | 24 | (Sat) | 06:09 | 06:30 | 100 | 12:22 | 64S | 18:14 | 260 | 18:36 |
| 2024 | Feb | 25 | (Sun) | 06:08 | 06:30 | 100 | 12:22 | 65S | 18:14 | 261 | 18:36 |
| 2024 | Feb | 26 | (Mon) | 06:07 | 06:29 | 99  | 12:22 | 65S | 18:15 | 261 | 18:36 |
| 2024 | Feb | 27 | (Tue) | 06:07 | 06:29 | 99  | 12:22 | 66S | 18:15 | 261 | 18:37 |
| 2024 | Feb | 28 | (Wed) | 06:06 | 06:28 | 98  | 12:21 | 66S | 18:15 | 262 | 18:37 |
| 2024 | Feb | 29 | (Thu) | 06:06 | 06:27 | 98  | 12:21 | 66S | 18:15 | 262 | 18:37 |
| 2024 | Mar | 01 | (Fri) | 06:05 | 06:27 | 98  | 12:21 | 67S | 18:16 | 263 | 18:37 |
| 2024 | Mar | 02 | (Sat) | 06:04 | 06:26 | 97  | 12:21 | 67S | 18:16 | 263 | 18:38 |
| 2024 | Mar | 03 | (Sun) | 06:04 | 06:25 | 97  | 12:21 | 67S | 18:16 | 263 | 18:38 |
| 2024 | Mar | 04 | (Mon) | 06:03 | 06:25 | 96  | 12:20 | 68S | 18:16 | 264 | 18:38 |
| 2024 | Mar | 05 | (Tue) | 06:02 | 06:24 | 96  | 12:20 | 68S | 18:17 | 264 | 18:38 |
| 2024 | Mar | 06 | (Wed) | 06:02 | 06:23 | 96  | 12:20 | 69S | 18:17 | 265 | 18:39 |
| 2024 | Mar | 07 | (Thu) | 06:01 | 06:23 | 95  | 12:20 | 69S | 18:17 | 265 | 18:39 |
| 2024 | Mar | 08 | (Fri) | 06:00 | 06:22 | 95  | 12:20 | 69S | 18:17 | 265 | 18:39 |
| 2024 | Mar | 09 | (Sat) | 06:00 | 06:21 | 94  | 12:19 | 70S | 18:18 | 266 | 18:39 |
| 2024 | Mar | 10 | (Sun) | 05:59 | 06:20 | 94  | 12:19 | 70S | 18:18 | 266 | 18:39 |
| 2024 | Mar | 11 | (Mon) | 05:58 | 06:20 | 94  | 12:19 | 71S | 18:18 | 267 | 18:40 |
| 2024 | Mar | 12 | (Tue) | 05:57 | 06:19 | 93  | 12:18 | 71S | 18:18 | 267 | 18:40 |
| 2024 | Mar | 13 | (Wed) | 05:57 | 06:18 | 93  | 12:18 | 71S | 18:18 | 268 | 18:40 |
| 2024 | Mar | 14 | (Thu) | 05:56 | 06:17 | 92  | 12:18 | 72S | 18:19 | 268 | 18:40 |
| 2024 | Mar | 15 | (Fri) | 05:55 | 06:17 | 92  | 12:18 | 72S | 18:19 | 268 | 18:40 |
| 2024 | Mar | 16 | (Sat) | 05:54 | 06:16 | 91  | 12:17 | 73S | 18:19 | 269 | 18:41 |
| 2024 | Mar | 17 | (Sun) | 05:54 | 06:15 | 91  | 12:17 | 73S | 18:19 | 269 | 18:41 |
| 2024 | Mar | 18 | (Mon) | 05:53 | 06:14 | 91  | 12:17 | 73S | 18:19 | 270 | 18:41 |

|      |     |    |       |       |       |    |       |     |       |     |       |
|------|-----|----|-------|-------|-------|----|-------|-----|-------|-----|-------|
| 2024 | Mar | 19 | (Tue) | 05:52 | 06:14 | 90 | 12:16 | 74S | 18:20 | 270 | 18:41 |
| 2024 | Mar | 20 | (Wed) | 05:51 | 06:13 | 90 | 12:16 | 74S | 18:20 | 270 | 18:41 |
| 2024 | Mar | 21 | (Thu) | 05:51 | 06:12 | 89 | 12:16 | 74S | 18:20 | 271 | 18:42 |
| 2024 | Mar | 22 | (Fri) | 05:50 | 06:11 | 89 | 12:16 | 75S | 18:20 | 271 | 18:42 |
| 2024 | Mar | 23 | (Sat) | 05:49 | 06:11 | 89 | 12:15 | 75S | 18:20 | 272 | 18:42 |
| 2024 | Mar | 24 | (Sun) | 05:48 | 06:10 | 88 | 12:15 | 76S | 18:20 | 272 | 18:42 |
| 2024 | Mar | 25 | (Mon) | 05:47 | 06:09 | 88 | 12:15 | 76S | 18:21 | 272 | 18:42 |
| 2024 | Mar | 26 | (Tue) | 05:47 | 06:08 | 87 | 12:14 | 76S | 18:21 | 273 | 18:42 |
| 2024 | Mar | 27 | (Wed) | 05:46 | 06:07 | 87 | 12:14 | 77S | 18:21 | 273 | 18:43 |
| 2024 | Mar | 28 | (Thu) | 05:45 | 06:07 | 87 | 12:14 | 77S | 18:21 | 274 | 18:43 |
| 2024 | Mar | 29 | (Fri) | 05:44 | 06:06 | 86 | 12:13 | 78S | 18:21 | 274 | 18:43 |
| 2024 | Mar | 30 | (Sat) | 05:44 | 06:05 | 86 | 12:13 | 78S | 18:21 | 274 | 18:43 |
| 2024 | Mar | 31 | (Sun) | 05:43 | 06:04 | 85 | 12:13 | 78S | 18:22 | 275 | 18:43 |
| 2024 | Apr | 01 | (Mon) | 05:42 | 06:04 | 85 | 12:13 | 79S | 18:22 | 275 | 18:43 |
| 2024 | Apr | 02 | (Tue) | 05:41 | 06:03 | 85 | 12:12 | 79S | 18:22 | 276 | 18:44 |
| 2024 | Apr | 03 | (Wed) | 05:40 | 06:02 | 84 | 12:12 | 80S | 18:22 | 276 | 18:44 |
| 2024 | Apr | 04 | (Thu) | 05:40 | 06:01 | 84 | 12:12 | 80S | 18:22 | 276 | 18:44 |
| 2024 | Apr | 05 | (Fri) | 05:39 | 06:01 | 83 | 12:11 | 80S | 18:22 | 277 | 18:44 |
| 2024 | Apr | 06 | (Sat) | 05:38 | 06:00 | 83 | 12:11 | 81S | 18:23 | 277 | 18:44 |
| 2024 | Apr | 07 | (Sun) | 05:37 | 05:59 | 83 | 12:11 | 81S | 18:23 | 278 | 18:45 |
| 2024 | Apr | 08 | (Mon) | 05:37 | 05:58 | 82 | 12:11 | 81S | 18:23 | 278 | 18:45 |
| 2024 | Apr | 09 | (Tue) | 05:36 | 05:58 | 82 | 12:10 | 82S | 18:23 | 278 | 18:45 |
| 2024 | Apr | 10 | (Wed) | 05:35 | 05:57 | 81 | 12:10 | 82S | 18:23 | 279 | 18:45 |
| 2024 | Apr | 11 | (Thu) | 05:34 | 05:56 | 81 | 12:10 | 83S | 18:24 | 279 | 18:46 |
| 2024 | Apr | 12 | (Fri) | 05:34 | 05:56 | 81 | 12:10 | 83S | 18:24 | 280 | 18:46 |
| 2024 | Apr | 13 | (Sat) | 05:33 | 05:55 | 80 | 12:09 | 83S | 18:24 | 280 | 18:46 |
| 2024 | Apr | 14 | (Sun) | 05:32 | 05:54 | 80 | 12:09 | 84S | 18:24 | 280 | 18:46 |
| 2024 | Apr | 15 | (Mon) | 05:31 | 05:53 | 79 | 12:09 | 84S | 18:24 | 281 | 18:46 |
| 2024 | Apr | 16 | (Tue) | 05:31 | 05:53 | 79 | 12:09 | 84S | 18:25 | 281 | 18:47 |
| 2024 | Apr | 17 | (Wed) | 05:30 | 05:52 | 79 | 12:08 | 85S | 18:25 | 281 | 18:47 |
| 2024 | Apr | 18 | (Thu) | 05:29 | 05:51 | 78 | 12:08 | 85S | 18:25 | 282 | 18:47 |
| 2024 | Apr | 19 | (Fri) | 05:29 | 05:51 | 78 | 12:08 | 85S | 18:25 | 282 | 18:47 |
| 2024 | Apr | 20 | (Sat) | 05:28 | 05:50 | 78 | 12:08 | 86S | 18:25 | 283 | 18:48 |
| 2024 | Apr | 21 | (Sun) | 05:27 | 05:49 | 77 | 12:07 | 86S | 18:26 | 283 | 18:48 |
| 2024 | Apr | 22 | (Mon) | 05:27 | 05:49 | 77 | 12:07 | 86S | 18:26 | 283 | 18:48 |
| 2024 | Apr | 23 | (Tue) | 05:26 | 05:48 | 77 | 12:07 | 87S | 18:26 | 284 | 18:48 |
| 2024 | Apr | 24 | (Wed) | 05:25 | 05:48 | 76 | 12:07 | 87S | 18:26 | 284 | 18:49 |
| 2024 | Apr | 25 | (Thu) | 05:25 | 05:47 | 76 | 12:07 | 87S | 18:27 | 284 | 18:49 |
| 2024 | Apr | 26 | (Fri) | 05:24 | 05:46 | 76 | 12:07 | 88S | 18:27 | 285 | 18:49 |
| 2024 | Apr | 27 | (Sat) | 05:23 | 05:46 | 75 | 12:06 | 88S | 18:27 | 285 | 18:50 |
| 2024 | Apr | 28 | (Sun) | 05:23 | 05:45 | 75 | 12:06 | 88S | 18:27 | 285 | 18:50 |
| 2024 | Apr | 29 | (Mon) | 05:22 | 05:45 | 75 | 12:06 | 89S | 18:28 | 286 | 18:50 |
| 2024 | Apr | 30 | (Tue) | 05:22 | 05:44 | 74 | 12:06 | 89S | 18:28 | 286 | 18:50 |
| 2024 | May | 01 | (Wed) | 05:21 | 05:44 | 74 | 12:06 | 89S | 18:28 | 286 | 18:51 |
| 2024 | May | 02 | (Thu) | 05:21 | 05:43 | 74 | 12:06 | 90S | 18:28 | 287 | 18:51 |
| 2024 | May | 03 | (Fri) | 05:20 | 05:43 | 73 | 12:06 | 90S | 18:29 | 287 | 18:51 |
| 2024 | May | 04 | (Sat) | 05:20 | 05:42 | 73 | 12:06 | 90S | 18:29 | 287 | 18:52 |
| 2024 | May | 05 | (Sun) | 05:19 | 05:42 | 73 | 12:05 | 90S | 18:29 | 287 | 18:52 |
| 2024 | May | 06 | (Mon) | 05:19 | 05:41 | 72 | 12:05 | 91N | 18:30 | 288 | 18:52 |
| 2024 | May | 07 | (Tue) | 05:18 | 05:41 | 72 | 12:05 | 90N | 18:30 | 288 | 18:53 |
| 2024 | May | 08 | (Wed) | 05:18 | 05:40 | 72 | 12:05 | 90N | 18:30 | 288 | 18:53 |
| 2024 | May | 09 | (Thu) | 05:17 | 05:40 | 72 | 12:05 | 90N | 18:31 | 289 | 18:54 |
| 2024 | May | 10 | (Fri) | 05:17 | 05:40 | 71 | 12:05 | 90N | 18:31 | 289 | 18:54 |
| 2024 | May | 11 | (Sat) | 05:16 | 05:39 | 71 | 12:05 | 89N | 18:31 | 289 | 18:54 |
| 2024 | May | 12 | (Sun) | 05:16 | 05:39 | 71 | 12:05 | 89N | 18:32 | 289 | 18:55 |
| 2024 | May | 13 | (Mon) | 05:16 | 05:39 | 70 | 12:05 | 89N | 18:32 | 290 | 18:55 |
| 2024 | May | 14 | (Tue) | 05:15 | 05:38 | 70 | 12:05 | 89N | 18:32 | 290 | 18:55 |
| 2024 | May | 15 | (Wed) | 05:15 | 05:38 | 70 | 12:05 | 88N | 18:33 | 290 | 18:56 |
| 2024 | May | 16 | (Thu) | 05:15 | 05:38 | 70 | 12:05 | 88N | 18:33 | 290 | 18:56 |
| 2024 | May | 17 | (Fri) | 05:14 | 05:37 | 69 | 12:05 | 88N | 18:33 | 291 | 18:56 |
| 2024 | May | 18 | (Sat) | 05:14 | 05:37 | 69 | 12:05 | 88N | 18:34 | 291 | 18:57 |
| 2024 | May | 19 | (Sun) | 05:14 | 05:37 | 69 | 12:05 | 87N | 18:34 | 291 | 18:57 |
| 2024 | May | 20 | (Mon) | 05:13 | 05:37 | 69 | 12:05 | 87N | 18:34 | 291 | 18:58 |
| 2024 | May | 21 | (Tue) | 05:13 | 05:36 | 69 | 12:05 | 87N | 18:35 | 292 | 18:58 |
| 2024 | May | 22 | (Wed) | 05:13 | 05:36 | 68 | 12:06 | 87N | 18:35 | 292 | 18:58 |
| 2024 | May | 23 | (Thu) | 05:13 | 05:36 | 68 | 12:06 | 87N | 18:35 | 292 | 18:59 |
| 2024 | May | 24 | (Fri) | 05:12 | 05:36 | 68 | 12:06 | 87N | 18:36 | 292 | 18:59 |

|      |     |    |       |       |       |    |       |     |       |     |       |
|------|-----|----|-------|-------|-------|----|-------|-----|-------|-----|-------|
| 2024 | May | 25 | (Sat) | 05:12 | 05:36 | 68 | 12:06 | 86N | 18:36 | 292 | 19:00 |
| 2024 | May | 26 | (Sun) | 05:12 | 05:36 | 68 | 12:06 | 86N | 18:36 | 293 | 19:00 |
| 2024 | May | 27 | (Mon) | 05:12 | 05:35 | 67 | 12:06 | 86N | 18:37 | 293 | 19:00 |
| 2024 | May | 28 | (Tue) | 05:12 | 05:35 | 67 | 12:06 | 86N | 18:37 | 293 | 19:01 |
| 2024 | May | 29 | (Wed) | 05:12 | 05:35 | 67 | 12:06 | 86N | 18:37 | 293 | 19:01 |
| 2024 | May | 30 | (Thu) | 05:11 | 05:35 | 67 | 12:06 | 86N | 18:38 | 293 | 19:01 |
| 2024 | May | 31 | (Fri) | 05:11 | 05:35 | 67 | 12:07 | 85N | 18:38 | 293 | 19:02 |
| 2024 | Jun | 01 | (Sat) | 05:11 | 05:35 | 67 | 12:07 | 85N | 18:38 | 293 | 19:02 |
| 2024 | Jun | 02 | (Sun) | 05:11 | 05:35 | 66 | 12:07 | 85N | 18:39 | 294 | 19:03 |
| 2024 | Jun | 03 | (Mon) | 05:11 | 05:35 | 66 | 12:07 | 85N | 18:39 | 294 | 19:03 |
| 2024 | Jun | 04 | (Tue) | 05:11 | 05:35 | 66 | 12:07 | 85N | 18:39 | 294 | 19:03 |
| 2024 | Jun | 05 | (Wed) | 05:11 | 05:35 | 66 | 12:07 | 85N | 18:40 | 294 | 19:04 |
| 2024 | Jun | 06 | (Thu) | 05:11 | 05:35 | 66 | 12:08 | 85N | 18:40 | 294 | 19:04 |
| 2024 | Jun | 07 | (Fri) | 05:11 | 05:35 | 66 | 12:08 | 85N | 18:40 | 294 | 19:04 |
| 2024 | Jun | 08 | (Sat) | 05:11 | 05:35 | 66 | 12:08 | 84N | 18:41 | 294 | 19:05 |
| 2024 | Jun | 09 | (Sun) | 05:11 | 05:35 | 66 | 12:08 | 84N | 18:41 | 294 | 19:05 |
| 2024 | Jun | 10 | (Mon) | 05:11 | 05:35 | 66 | 12:08 | 84N | 18:41 | 294 | 19:05 |
| 2024 | Jun | 11 | (Tue) | 05:11 | 05:35 | 66 | 12:09 | 84N | 18:42 | 294 | 19:06 |
| 2024 | Jun | 12 | (Wed) | 05:12 | 05:35 | 65 | 12:09 | 84N | 18:42 | 295 | 19:06 |
| 2024 | Jun | 13 | (Thu) | 05:12 | 05:36 | 65 | 12:09 | 84N | 18:42 | 295 | 19:06 |
| 2024 | Jun | 14 | (Fri) | 05:12 | 05:36 | 65 | 12:09 | 84N | 18:43 | 295 | 19:07 |
| 2024 | Jun | 15 | (Sat) | 05:12 | 05:36 | 65 | 12:09 | 84N | 18:43 | 295 | 19:07 |
| 2024 | Jun | 16 | (Sun) | 05:12 | 05:36 | 65 | 12:10 | 84N | 18:43 | 295 | 19:07 |
| 2024 | Jun | 17 | (Mon) | 05:12 | 05:36 | 65 | 12:10 | 84N | 18:43 | 295 | 19:07 |
| 2024 | Jun | 18 | (Tue) | 05:12 | 05:36 | 65 | 12:10 | 84N | 18:44 | 295 | 19:08 |
| 2024 | Jun | 19 | (Wed) | 05:13 | 05:37 | 65 | 12:10 | 84N | 18:44 | 295 | 19:08 |
| 2024 | Jun | 20 | (Thu) | 05:13 | 05:37 | 65 | 12:10 | 84N | 18:44 | 295 | 19:08 |
| 2024 | Jun | 21 | (Fri) | 05:13 | 05:37 | 65 | 12:11 | 84N | 18:44 | 295 | 19:08 |
| 2024 | Jun | 22 | (Sat) | 05:13 | 05:37 | 65 | 12:11 | 84N | 18:45 | 295 | 19:08 |
| 2024 | Jun | 23 | (Sun) | 05:13 | 05:37 | 65 | 12:11 | 84N | 18:45 | 295 | 19:09 |
| 2024 | Jun | 24 | (Mon) | 05:14 | 05:38 | 65 | 12:11 | 84N | 18:45 | 295 | 19:09 |
| 2024 | Jun | 25 | (Tue) | 05:14 | 05:38 | 65 | 12:12 | 84N | 18:45 | 295 | 19:09 |
| 2024 | Jun | 26 | (Wed) | 05:14 | 05:38 | 65 | 12:12 | 84N | 18:45 | 295 | 19:09 |
| 2024 | Jun | 27 | (Thu) | 05:15 | 05:38 | 65 | 12:12 | 84N | 18:45 | 295 | 19:09 |
| 2024 | Jun | 28 | (Fri) | 05:15 | 05:39 | 65 | 12:12 | 84N | 18:46 | 295 | 19:09 |
| 2024 | Jun | 29 | (Sat) | 05:15 | 05:39 | 65 | 12:12 | 84N | 18:46 | 295 | 19:10 |
| 2024 | Jun | 30 | (Sun) | 05:15 | 05:39 | 65 | 12:13 | 84N | 18:46 | 294 | 19:10 |
| 2024 | Jul | 01 | (Mon) | 05:16 | 05:40 | 66 | 12:13 | 84N | 18:46 | 294 | 19:10 |
| 2024 | Jul | 02 | (Tue) | 05:16 | 05:40 | 66 | 12:13 | 84N | 18:46 | 294 | 19:10 |
| 2024 | Jul | 03 | (Wed) | 05:16 | 05:40 | 66 | 12:13 | 84N | 18:46 | 294 | 19:10 |
| 2024 | Jul | 04 | (Thu) | 05:17 | 05:41 | 66 | 12:13 | 85N | 18:46 | 294 | 19:10 |
| 2024 | Jul | 05 | (Fri) | 05:17 | 05:41 | 66 | 12:13 | 85N | 18:46 | 294 | 19:10 |
| 2024 | Jul | 06 | (Sat) | 05:17 | 05:41 | 66 | 12:14 | 85N | 18:46 | 294 | 19:10 |
| 2024 | Jul | 07 | (Sun) | 05:18 | 05:41 | 66 | 12:14 | 85N | 18:46 | 294 | 19:10 |
| 2024 | Jul | 08 | (Mon) | 05:18 | 05:42 | 66 | 12:14 | 85N | 18:46 | 294 | 19:10 |
| 2024 | Jul | 09 | (Tue) | 05:18 | 05:42 | 66 | 12:14 | 85N | 18:46 | 294 | 19:10 |
| 2024 | Jul | 10 | (Wed) | 05:19 | 05:42 | 66 | 12:14 | 85N | 18:46 | 293 | 19:10 |
| 2024 | Jul | 11 | (Thu) | 05:19 | 05:43 | 67 | 12:14 | 85N | 18:46 | 293 | 19:10 |
| 2024 | Jul | 12 | (Fri) | 05:19 | 05:43 | 67 | 12:15 | 85N | 18:46 | 293 | 19:09 |
| 2024 | Jul | 13 | (Sat) | 05:20 | 05:43 | 67 | 12:15 | 86N | 18:46 | 293 | 19:09 |
| 2024 | Jul | 14 | (Sun) | 05:20 | 05:44 | 67 | 12:15 | 86N | 18:46 | 293 | 19:09 |
| 2024 | Jul | 15 | (Mon) | 05:20 | 05:44 | 67 | 12:15 | 86N | 18:46 | 293 | 19:09 |
| 2024 | Jul | 16 | (Tue) | 05:21 | 05:44 | 67 | 12:15 | 86N | 18:45 | 292 | 19:09 |
| 2024 | Jul | 17 | (Wed) | 05:21 | 05:45 | 68 | 12:15 | 86N | 18:45 | 292 | 19:09 |
| 2024 | Jul | 18 | (Thu) | 05:22 | 05:45 | 68 | 12:15 | 86N | 18:45 | 292 | 19:08 |
| 2024 | Jul | 19 | (Fri) | 05:22 | 05:45 | 68 | 12:15 | 87N | 18:45 | 292 | 19:08 |
| 2024 | Jul | 20 | (Sat) | 05:22 | 05:46 | 68 | 12:15 | 87N | 18:45 | 292 | 19:08 |
| 2024 | Jul | 21 | (Sun) | 05:23 | 05:46 | 68 | 12:15 | 87N | 18:44 | 292 | 19:08 |
| 2024 | Jul | 22 | (Mon) | 05:23 | 05:46 | 69 | 12:15 | 87N | 18:44 | 291 | 19:07 |
| 2024 | Jul | 23 | (Tue) | 05:23 | 05:47 | 69 | 12:15 | 87N | 18:44 | 291 | 19:07 |
| 2024 | Jul | 24 | (Wed) | 05:24 | 05:47 | 69 | 12:15 | 88N | 18:44 | 291 | 19:07 |
| 2024 | Jul | 25 | (Thu) | 05:24 | 05:47 | 69 | 12:15 | 88N | 18:43 | 291 | 19:07 |
| 2024 | Jul | 26 | (Fri) | 05:24 | 05:48 | 69 | 12:15 | 88N | 18:43 | 290 | 19:06 |
| 2024 | Jul | 27 | (Sat) | 05:25 | 05:48 | 70 | 12:15 | 88N | 18:43 | 290 | 19:06 |
| 2024 | Jul | 28 | (Sun) | 05:25 | 05:48 | 70 | 12:15 | 88N | 18:42 | 290 | 19:05 |
| 2024 | Jul | 29 | (Mon) | 05:25 | 05:48 | 70 | 12:15 | 89N | 18:42 | 290 | 19:05 |
| 2024 | Jul | 30 | (Tue) | 05:26 | 05:49 | 70 | 12:15 | 89N | 18:42 | 289 | 19:05 |

|      |     |    |       |       |       |    |       |     |       |     |       |
|------|-----|----|-------|-------|-------|----|-------|-----|-------|-----|-------|
| 2024 | Jul | 31 | (Wed) | 05:26 | 05:49 | 71 | 12:15 | 89N | 18:41 | 289 | 19:04 |
| 2024 | Aug | 01 | (Thu) | 05:26 | 05:49 | 71 | 12:15 | 89N | 18:41 | 289 | 19:04 |
| 2024 | Aug | 02 | (Fri) | 05:27 | 05:50 | 71 | 12:15 | 90N | 18:40 | 289 | 19:03 |
| 2024 | Aug | 03 | (Sat) | 05:27 | 05:50 | 72 | 12:15 | 90N | 18:40 | 288 | 19:03 |
| 2024 | Aug | 04 | (Sun) | 05:27 | 05:50 | 72 | 12:15 | 90N | 18:40 | 288 | 19:02 |
| 2024 | Aug | 05 | (Mon) | 05:28 | 05:50 | 72 | 12:15 | 91N | 18:39 | 288 | 19:02 |
| 2024 | Aug | 06 | (Tue) | 05:28 | 05:51 | 72 | 12:15 | 91S | 18:39 | 287 | 19:01 |
| 2024 | Aug | 07 | (Wed) | 05:28 | 05:51 | 73 | 12:15 | 90S | 18:38 | 287 | 19:01 |
| 2024 | Aug | 08 | (Thu) | 05:28 | 05:51 | 73 | 12:14 | 90S | 18:38 | 287 | 19:00 |
| 2024 | Aug | 09 | (Fri) | 05:29 | 05:51 | 73 | 12:14 | 90S | 18:37 | 287 | 19:00 |
| 2024 | Aug | 10 | (Sat) | 05:29 | 05:52 | 74 | 12:14 | 89S | 18:37 | 286 | 18:59 |
| 2024 | Aug | 11 | (Sun) | 05:29 | 05:52 | 74 | 12:14 | 89S | 18:36 | 286 | 18:59 |
| 2024 | Aug | 12 | (Mon) | 05:30 | 05:52 | 74 | 12:14 | 89S | 18:35 | 286 | 18:58 |
| 2024 | Aug | 13 | (Tue) | 05:30 | 05:52 | 74 | 12:14 | 89S | 18:35 | 285 | 18:57 |
| 2024 | Aug | 14 | (Wed) | 05:30 | 05:52 | 75 | 12:13 | 88S | 18:34 | 285 | 18:57 |
| 2024 | Aug | 15 | (Thu) | 05:30 | 05:53 | 75 | 12:13 | 88S | 18:34 | 285 | 18:56 |
| 2024 | Aug | 16 | (Fri) | 05:30 | 05:53 | 75 | 12:13 | 88S | 18:33 | 284 | 18:55 |
| 2024 | Aug | 17 | (Sat) | 05:31 | 05:53 | 76 | 12:13 | 87S | 18:32 | 284 | 18:55 |
| 2024 | Aug | 18 | (Sun) | 05:31 | 05:53 | 76 | 12:13 | 87S | 18:32 | 284 | 18:54 |
| 2024 | Aug | 19 | (Mon) | 05:31 | 05:53 | 76 | 12:12 | 87S | 18:31 | 283 | 18:53 |
| 2024 | Aug | 20 | (Tue) | 05:31 | 05:54 | 77 | 12:12 | 86S | 18:30 | 283 | 18:53 |
| 2024 | Aug | 21 | (Wed) | 05:32 | 05:54 | 77 | 12:12 | 86S | 18:30 | 283 | 18:52 |
| 2024 | Aug | 22 | (Thu) | 05:32 | 05:54 | 78 | 12:12 | 86S | 18:29 | 282 | 18:51 |
| 2024 | Aug | 23 | (Fri) | 05:32 | 05:54 | 78 | 12:11 | 85S | 18:28 | 282 | 18:51 |
| 2024 | Aug | 24 | (Sat) | 05:32 | 05:54 | 78 | 12:11 | 85S | 18:28 | 282 | 18:50 |
| 2024 | Aug | 25 | (Sun) | 05:32 | 05:54 | 79 | 12:11 | 85S | 18:27 | 281 | 18:49 |
| 2024 | Aug | 26 | (Mon) | 05:33 | 05:55 | 79 | 12:11 | 84S | 18:26 | 281 | 18:48 |
| 2024 | Aug | 27 | (Tue) | 05:33 | 05:55 | 79 | 12:10 | 84S | 18:26 | 280 | 18:48 |
| 2024 | Aug | 28 | (Wed) | 05:33 | 05:55 | 80 | 12:10 | 84S | 18:25 | 280 | 18:47 |
| 2024 | Aug | 29 | (Thu) | 05:33 | 05:55 | 80 | 12:10 | 83S | 18:24 | 280 | 18:46 |
| 2024 | Aug | 30 | (Fri) | 05:33 | 05:55 | 80 | 12:09 | 83S | 18:23 | 279 | 18:45 |
| 2024 | Aug | 31 | (Sat) | 05:33 | 05:55 | 81 | 12:09 | 83S | 18:23 | 279 | 18:44 |
| 2024 | Sep | 01 | (Sun) | 05:34 | 05:55 | 81 | 12:09 | 82S | 18:22 | 279 | 18:44 |
| 2024 | Sep | 02 | (Mon) | 05:34 | 05:56 | 82 | 12:08 | 82S | 18:21 | 278 | 18:43 |
| 2024 | Sep | 03 | (Tue) | 05:34 | 05:56 | 82 | 12:08 | 81S | 18:20 | 278 | 18:42 |
| 2024 | Sep | 04 | (Wed) | 05:34 | 05:56 | 82 | 12:08 | 81S | 18:19 | 277 | 18:41 |
| 2024 | Sep | 05 | (Thu) | 05:34 | 05:56 | 83 | 12:07 | 81S | 18:19 | 277 | 18:40 |
| 2024 | Sep | 06 | (Fri) | 05:34 | 05:56 | 83 | 12:07 | 80S | 18:18 | 277 | 18:40 |
| 2024 | Sep | 07 | (Sat) | 05:34 | 05:56 | 84 | 12:07 | 80S | 18:17 | 276 | 18:39 |
| 2024 | Sep | 08 | (Sun) | 05:35 | 05:56 | 84 | 12:06 | 80S | 18:16 | 276 | 18:38 |
| 2024 | Sep | 09 | (Mon) | 05:35 | 05:56 | 84 | 12:06 | 79S | 18:15 | 275 | 18:37 |
| 2024 | Sep | 10 | (Tue) | 05:35 | 05:57 | 85 | 12:06 | 79S | 18:15 | 275 | 18:36 |
| 2024 | Sep | 11 | (Wed) | 05:35 | 05:57 | 85 | 12:05 | 78S | 18:14 | 275 | 18:36 |
| 2024 | Sep | 12 | (Thu) | 05:35 | 05:57 | 85 | 12:05 | 78S | 18:13 | 274 | 18:35 |
| 2024 | Sep | 13 | (Fri) | 05:35 | 05:57 | 86 | 12:05 | 78S | 18:12 | 274 | 18:34 |
| 2024 | Sep | 14 | (Sat) | 05:35 | 05:57 | 86 | 12:04 | 77S | 18:11 | 274 | 18:33 |
| 2024 | Sep | 15 | (Sun) | 05:35 | 05:57 | 87 | 12:04 | 77S | 18:11 | 273 | 18:32 |
| 2024 | Sep | 16 | (Mon) | 05:36 | 05:57 | 87 | 12:04 | 77S | 18:10 | 273 | 18:31 |
| 2024 | Sep | 17 | (Tue) | 05:36 | 05:57 | 87 | 12:03 | 76S | 18:09 | 272 | 18:31 |
| 2024 | Sep | 18 | (Wed) | 05:36 | 05:57 | 88 | 12:03 | 76S | 18:08 | 272 | 18:30 |
| 2024 | Sep | 19 | (Thu) | 05:36 | 05:57 | 88 | 12:03 | 75S | 18:07 | 271 | 18:29 |
| 2024 | Sep | 20 | (Fri) | 05:36 | 05:58 | 89 | 12:02 | 75S | 18:06 | 271 | 18:28 |
| 2024 | Sep | 21 | (Sat) | 05:36 | 05:58 | 89 | 12:02 | 75S | 18:06 | 271 | 18:27 |
| 2024 | Sep | 22 | (Sun) | 05:36 | 05:58 | 90 | 12:01 | 74S | 18:05 | 270 | 18:26 |
| 2024 | Sep | 23 | (Mon) | 05:36 | 05:58 | 90 | 12:01 | 74S | 18:04 | 270 | 18:26 |
| 2024 | Sep | 24 | (Tue) | 05:36 | 05:58 | 90 | 12:01 | 73S | 18:03 | 269 | 18:25 |
| 2024 | Sep | 25 | (Wed) | 05:37 | 05:58 | 91 | 12:00 | 73S | 18:02 | 269 | 18:24 |
| 2024 | Sep | 26 | (Thu) | 05:37 | 05:58 | 91 | 12:00 | 73S | 18:02 | 269 | 18:23 |
| 2024 | Sep | 27 | (Fri) | 05:37 | 05:58 | 92 | 12:00 | 72S | 18:01 | 268 | 18:22 |
| 2024 | Sep | 28 | (Sat) | 05:37 | 05:59 | 92 | 11:59 | 72S | 18:00 | 268 | 18:22 |
| 2024 | Sep | 29 | (Sun) | 05:37 | 05:59 | 92 | 11:59 | 71S | 17:59 | 267 | 18:21 |
| 2024 | Sep | 30 | (Mon) | 05:37 | 05:59 | 93 | 11:59 | 71S | 17:58 | 267 | 18:20 |
| 2024 | Oct | 01 | (Tue) | 05:37 | 05:59 | 93 | 11:58 | 71S | 17:58 | 267 | 18:19 |
| 2024 | Oct | 02 | (Wed) | 05:37 | 05:59 | 94 | 11:58 | 70S | 17:57 | 266 | 18:18 |
| 2024 | Oct | 03 | (Thu) | 05:38 | 05:59 | 94 | 11:58 | 70S | 17:56 | 266 | 18:18 |
| 2024 | Oct | 04 | (Fri) | 05:38 | 05:59 | 94 | 11:57 | 70S | 17:55 | 265 | 18:17 |
| 2024 | Oct | 05 | (Sat) | 05:38 | 06:00 | 95 | 11:57 | 69S | 17:55 | 265 | 18:16 |

|      |     |    |       |       |       |     |       |     |       |     |       |
|------|-----|----|-------|-------|-------|-----|-------|-----|-------|-----|-------|
| 2024 | Oct | 06 | (Sun) | 05:38 | 06:00 | 95  | 11:57 | 69S | 17:54 | 265 | 18:15 |
| 2024 | Oct | 07 | (Mon) | 05:38 | 06:00 | 96  | 11:57 | 68S | 17:53 | 264 | 18:15 |
| 2024 | Oct | 08 | (Tue) | 05:38 | 06:00 | 96  | 11:56 | 68S | 17:52 | 264 | 18:14 |
| 2024 | Oct | 09 | (Wed) | 05:39 | 06:00 | 96  | 11:56 | 68S | 17:52 | 263 | 18:13 |
| 2024 | Oct | 10 | (Thu) | 05:39 | 06:00 | 97  | 11:56 | 67S | 17:51 | 263 | 18:13 |
| 2024 | Oct | 11 | (Fri) | 05:39 | 06:01 | 97  | 11:55 | 67S | 17:50 | 263 | 18:12 |
| 2024 | Oct | 12 | (Sat) | 05:39 | 06:01 | 98  | 11:55 | 66S | 17:49 | 262 | 18:11 |
| 2024 | Oct | 13 | (Sun) | 05:39 | 06:01 | 98  | 11:55 | 66S | 17:49 | 262 | 18:10 |
| 2024 | Oct | 14 | (Mon) | 05:39 | 06:01 | 98  | 11:55 | 66S | 17:48 | 261 | 18:10 |
| 2024 | Oct | 15 | (Tue) | 05:40 | 06:01 | 99  | 11:55 | 65S | 17:47 | 261 | 18:09 |
| 2024 | Oct | 16 | (Wed) | 05:40 | 06:02 | 99  | 11:54 | 65S | 17:47 | 261 | 18:09 |
| 2024 | Oct | 17 | (Thu) | 05:40 | 06:02 | 99  | 11:54 | 65S | 17:46 | 260 | 18:08 |
| 2024 | Oct | 18 | (Fri) | 05:40 | 06:02 | 100 | 11:54 | 64S | 17:45 | 260 | 18:07 |
| 2024 | Oct | 19 | (Sat) | 05:41 | 06:02 | 100 | 11:54 | 64S | 17:45 | 260 | 18:07 |
| 2024 | Oct | 20 | (Sun) | 05:41 | 06:03 | 101 | 11:54 | 64S | 17:44 | 259 | 18:06 |
| 2024 | Oct | 21 | (Mon) | 05:41 | 06:03 | 101 | 11:53 | 63S | 17:44 | 259 | 18:06 |
| 2024 | Oct | 22 | (Tue) | 05:41 | 06:03 | 101 | 11:53 | 63S | 17:43 | 258 | 18:05 |
| 2024 | Oct | 23 | (Wed) | 05:42 | 06:04 | 102 | 11:53 | 62S | 17:42 | 258 | 18:04 |
| 2024 | Oct | 24 | (Thu) | 05:42 | 06:04 | 102 | 11:53 | 62S | 17:42 | 258 | 18:04 |
| 2024 | Oct | 25 | (Fri) | 05:42 | 06:04 | 102 | 11:53 | 62S | 17:41 | 257 | 18:03 |
| 2024 | Oct | 26 | (Sat) | 05:42 | 06:04 | 103 | 11:53 | 61S | 17:41 | 257 | 18:03 |
| 2024 | Oct | 27 | (Sun) | 05:43 | 06:05 | 103 | 11:53 | 61S | 17:40 | 257 | 18:02 |
| 2024 | Oct | 28 | (Mon) | 05:43 | 06:05 | 104 | 11:53 | 61S | 17:40 | 256 | 18:02 |
| 2024 | Oct | 29 | (Tue) | 05:43 | 06:05 | 104 | 11:52 | 60S | 17:39 | 256 | 18:02 |
| 2024 | Oct | 30 | (Wed) | 05:44 | 06:06 | 104 | 11:52 | 60S | 17:39 | 256 | 18:01 |
| 2024 | Oct | 31 | (Thu) | 05:44 | 06:06 | 105 | 11:52 | 60S | 17:38 | 255 | 18:01 |
| 2024 | Nov | 01 | (Fri) | 05:44 | 06:07 | 105 | 11:52 | 59S | 17:38 | 255 | 18:00 |
| 2024 | Nov | 02 | (Sat) | 05:45 | 06:07 | 105 | 11:52 | 59S | 17:38 | 255 | 18:00 |
| 2024 | Nov | 03 | (Sun) | 05:45 | 06:07 | 106 | 11:52 | 59S | 17:37 | 254 | 18:00 |
| 2024 | Nov | 04 | (Mon) | 05:45 | 06:08 | 106 | 11:52 | 59S | 17:37 | 254 | 17:59 |
| 2024 | Nov | 05 | (Tue) | 05:46 | 06:08 | 106 | 11:52 | 58S | 17:36 | 254 | 17:59 |
| 2024 | Nov | 06 | (Wed) | 05:46 | 06:09 | 107 | 11:52 | 58S | 17:36 | 253 | 17:59 |
| 2024 | Nov | 07 | (Thu) | 05:47 | 06:09 | 107 | 11:52 | 58S | 17:36 | 253 | 17:58 |
| 2024 | Nov | 08 | (Fri) | 05:47 | 06:09 | 107 | 11:53 | 57S | 17:36 | 253 | 17:58 |
| 2024 | Nov | 09 | (Sat) | 05:47 | 06:10 | 107 | 11:53 | 57S | 17:35 | 252 | 17:58 |
| 2024 | Nov | 10 | (Sun) | 05:48 | 06:10 | 108 | 11:53 | 57S | 17:35 | 252 | 17:58 |
| 2024 | Nov | 11 | (Mon) | 05:48 | 06:11 | 108 | 11:53 | 57S | 17:35 | 252 | 17:57 |
| 2024 | Nov | 12 | (Tue) | 05:49 | 06:11 | 108 | 11:53 | 56S | 17:35 | 252 | 17:57 |
| 2024 | Nov | 13 | (Wed) | 05:49 | 06:12 | 109 | 11:53 | 56S | 17:34 | 251 | 17:57 |
| 2024 | Nov | 14 | (Thu) | 05:50 | 06:12 | 109 | 11:53 | 56S | 17:34 | 251 | 17:57 |
| 2024 | Nov | 15 | (Fri) | 05:50 | 06:13 | 109 | 11:53 | 55S | 17:34 | 251 | 17:57 |
| 2024 | Nov | 16 | (Sat) | 05:50 | 06:13 | 109 | 11:54 | 55S | 17:34 | 250 | 17:57 |
| 2024 | Nov | 17 | (Sun) | 05:51 | 06:14 | 110 | 11:54 | 55S | 17:34 | 250 | 17:56 |
| 2024 | Nov | 18 | (Mon) | 05:51 | 06:14 | 110 | 11:54 | 55S | 17:34 | 250 | 17:56 |
| 2024 | Nov | 19 | (Tue) | 05:52 | 06:15 | 110 | 11:54 | 54S | 17:34 | 250 | 17:56 |
| 2024 | Nov | 20 | (Wed) | 05:52 | 06:15 | 110 | 11:54 | 54S | 17:33 | 250 | 17:56 |
| 2024 | Nov | 21 | (Thu) | 05:53 | 06:16 | 111 | 11:55 | 54S | 17:33 | 249 | 17:56 |
| 2024 | Nov | 22 | (Fri) | 05:53 | 06:16 | 111 | 11:55 | 54S | 17:33 | 249 | 17:56 |
| 2024 | Nov | 23 | (Sat) | 05:54 | 06:17 | 111 | 11:55 | 54S | 17:33 | 249 | 17:56 |
| 2024 | Nov | 24 | (Sun) | 05:55 | 06:18 | 111 | 11:56 | 53S | 17:33 | 249 | 17:56 |
| 2024 | Nov | 25 | (Mon) | 05:55 | 06:18 | 111 | 11:56 | 53S | 17:33 | 248 | 17:57 |
| 2024 | Nov | 26 | (Tue) | 05:56 | 06:19 | 112 | 11:56 | 53S | 17:34 | 248 | 17:57 |
| 2024 | Nov | 27 | (Wed) | 05:56 | 06:19 | 112 | 11:56 | 53S | 17:34 | 248 | 17:57 |
| 2024 | Nov | 28 | (Thu) | 05:57 | 06:20 | 112 | 11:57 | 53S | 17:34 | 248 | 17:57 |
| 2024 | Nov | 29 | (Fri) | 05:57 | 06:20 | 112 | 11:57 | 53S | 17:34 | 248 | 17:57 |
| 2024 | Nov | 30 | (Sat) | 05:58 | 06:21 | 112 | 11:58 | 52S | 17:34 | 248 | 17:57 |
| 2024 | Dec | 01 | (Sun) | 05:58 | 06:22 | 113 | 11:58 | 52S | 17:34 | 247 | 17:57 |
| 2024 | Dec | 02 | (Mon) | 05:59 | 06:22 | 113 | 11:58 | 52S | 17:34 | 247 | 17:58 |
| 2024 | Dec | 03 | (Tue) | 05:59 | 06:23 | 113 | 11:59 | 52S | 17:35 | 247 | 17:58 |
| 2024 | Dec | 04 | (Wed) | 06:00 | 06:23 | 113 | 11:59 | 52S | 17:35 | 247 | 17:58 |
| 2024 | Dec | 05 | (Thu) | 06:01 | 06:24 | 113 | 11:59 | 52S | 17:35 | 247 | 17:58 |
| 2024 | Dec | 06 | (Fri) | 06:01 | 06:24 | 113 | 12:00 | 52S | 17:35 | 247 | 17:59 |
| 2024 | Dec | 07 | (Sat) | 06:02 | 06:25 | 113 | 12:00 | 51S | 17:36 | 247 | 17:59 |
| 2024 | Dec | 08 | (Sun) | 06:02 | 06:26 | 114 | 12:01 | 51S | 17:36 | 246 | 17:59 |
| 2024 | Dec | 09 | (Mon) | 06:03 | 06:26 | 114 | 12:01 | 51S | 17:36 | 246 | 18:00 |
| 2024 | Dec | 10 | (Tue) | 06:03 | 06:27 | 114 | 12:02 | 51S | 17:36 | 246 | 18:00 |
| 2024 | Dec | 11 | (Wed) | 06:04 | 06:27 | 114 | 12:02 | 51S | 17:37 | 246 | 18:00 |

|      |        |       |       |       |     |       |     |       |     |       |
|------|--------|-------|-------|-------|-----|-------|-----|-------|-----|-------|
| 2024 | Dec 12 | (Thu) | 06:05 | 06:28 | 114 | 12:03 | 51S | 17:37 | 246 | 18:01 |
| 2024 | Dec 13 | (Fri) | 06:05 | 06:29 | 114 | 12:03 | 51S | 17:38 | 246 | 18:01 |
| 2024 | Dec 14 | (Sat) | 06:06 | 06:29 | 114 | 12:04 | 51S | 17:38 | 246 | 18:01 |
| 2024 | Dec 15 | (Sun) | 06:06 | 06:30 | 114 | 12:04 | 51S | 17:38 | 246 | 18:02 |
| 2024 | Dec 16 | (Mon) | 06:07 | 06:30 | 114 | 12:04 | 51S | 17:39 | 246 | 18:02 |
| 2024 | Dec 17 | (Tue) | 06:07 | 06:31 | 114 | 12:05 | 51S | 17:39 | 246 | 18:03 |
| 2024 | Dec 18 | (Wed) | 06:08 | 06:31 | 114 | 12:05 | 51S | 17:40 | 246 | 18:03 |
| 2024 | Dec 19 | (Thu) | 06:08 | 06:32 | 114 | 12:06 | 51S | 17:40 | 246 | 18:04 |
| 2024 | Dec 20 | (Fri) | 06:09 | 06:32 | 114 | 12:06 | 51S | 17:41 | 246 | 18:04 |
| 2024 | Dec 21 | (Sat) | 06:09 | 06:33 | 114 | 12:07 | 51S | 17:41 | 246 | 18:05 |
| 2024 | Dec 22 | (Sun) | 06:10 | 06:33 | 114 | 12:07 | 51S | 17:42 | 246 | 18:05 |
| 2024 | Dec 23 | (Mon) | 06:10 | 06:34 | 114 | 12:08 | 51S | 17:42 | 246 | 18:06 |
| 2024 | Dec 24 | (Tue) | 06:11 | 06:34 | 114 | 12:08 | 51S | 17:43 | 246 | 18:06 |
| 2024 | Dec 25 | (Wed) | 06:11 | 06:35 | 114 | 12:09 | 51S | 17:43 | 246 | 18:07 |
| 2024 | Dec 26 | (Thu) | 06:12 | 06:35 | 114 | 12:09 | 51S | 17:44 | 246 | 18:07 |
| 2024 | Dec 27 | (Fri) | 06:12 | 06:36 | 114 | 12:10 | 51S | 17:44 | 246 | 18:08 |
| 2024 | Dec 28 | (Sat) | 06:13 | 06:36 | 114 | 12:10 | 51S | 17:45 | 246 | 18:08 |
| 2024 | Dec 29 | (Sun) | 06:13 | 06:36 | 114 | 12:11 | 51S | 17:45 | 246 | 18:09 |
| 2024 | Dec 30 | (Mon) | 06:13 | 06:37 | 114 | 12:11 | 51S | 17:46 | 246 | 18:09 |
| 2024 | Dec 31 | (Tue) | 06:14 | 06:37 | 114 | 12:12 | 51S | 17:47 | 246 | 18:10 |

# Moon

## VTEZ

Location: E102°48'00.0", N16°39'00.0", 787m  
(Longitude referred to Greenwich meridian)

Time Zone: 7h 00m east of Greenwich

| Date<br>(Zone) |        |       | Rise  | Az. | Transit | Alt. | Set   | Az. |
|----------------|--------|-------|-------|-----|---------|------|-------|-----|
|                |        |       | h     | m   | °       | h    | m     | °   |
| 2024           | Jan 01 | (Mon) | 22:19 | 80  | 04:00   | 87S  | 10:24 | 282 |
| 2024           | Jan 02 | (Tue) | 23:05 | 86  | 04:40   | 82S  | 10:57 | 277 |
| 2024           | Jan 03 | (Wed) | 23:51 | 92  | 05:19   | 76S  | 11:29 | 271 |
| 2024           | Jan 04 | (Thu) |       |     | 05:58   | 70S  | 12:02 | 265 |
| 2024           | Jan 05 | (Fri) | 00:39 | 98  | 06:39   | 64S  | 12:35 | 259 |
| 2024           | Jan 06 | (Sat) | 01:28 | 104 | 07:22   | 59S  | 13:12 | 253 |
| 2024           | Jan 07 | (Sun) | 02:21 | 110 | 08:08   | 54S  | 13:53 | 248 |
| 2024           | Jan 08 | (Mon) | 03:18 | 114 | 09:00   | 49S  | 14:40 | 244 |
| 2024           | Jan 09 | (Tue) | 04:18 | 118 | 09:57   | 46S  | 15:34 | 241 |
| 2024           | Jan 10 | (Wed) | 05:22 | 119 | 10:59   | 45S  | 16:35 | 240 |
| 2024           | Jan 11 | (Thu) | 06:25 | 119 | 12:02   | 46S  | 17:41 | 242 |
| 2024           | Jan 12 | (Fri) | 07:24 | 117 | 13:05   | 49S  | 18:48 | 245 |
| 2024           | Jan 13 | (Sat) | 08:19 | 112 | 14:05   | 54S  | 19:54 | 251 |
| 2024           | Jan 14 | (Sun) | 09:07 | 106 | 15:00   | 60S  | 20:57 | 257 |
| 2024           | Jan 15 | (Mon) | 09:51 | 99  | 15:52   | 66S  | 21:56 | 264 |
| 2024           | Jan 16 | (Tue) | 10:31 | 92  | 16:40   | 74S  | 22:54 | 272 |
| 2024           | Jan 17 | (Wed) | 11:11 | 85  | 17:28   | 81S  | 23:50 | 279 |
| 2024           | Jan 18 | (Thu) | 11:50 | 78  | 18:16   | 87S  |       |     |
| 2024           | Jan 19 | (Fri) | 12:32 | 72  | 19:06   | 89N  | 00:46 | 285 |
| 2024           | Jan 20 | (Sat) | 13:16 | 67  | 19:57   | 84N  | 01:44 | 291 |
| 2024           | Jan 21 | (Sun) | 14:04 | 63  | 20:51   | 81N  | 02:42 | 295 |
| 2024           | Jan 22 | (Mon) | 14:55 | 61  | 21:46   | 79N  | 03:40 | 298 |
| 2024           | Jan 23 | (Tue) | 15:50 | 61  | 22:41   | 79N  | 04:38 | 299 |
| 2024           | Jan 24 | (Wed) | 16:46 | 62  | 23:35   | 81N  | 05:32 | 299 |
| 2024           | Jan 25 | (Thu) | 17:41 | 64  |         |      | 06:22 | 297 |
| 2024           | Jan 26 | (Fri) | 18:34 | 68  | 00:25   | 84N  | 07:07 | 294 |
| 2024           | Jan 27 | (Sat) | 19:25 | 73  | 01:12   | 88N  | 07:47 | 289 |
| 2024           | Jan 28 | (Sun) | 20:13 | 78  | 01:56   | 89S  | 08:23 | 284 |
| 2024           | Jan 29 | (Mon) | 21:00 | 84  | 02:37   | 84S  | 08:57 | 279 |
| 2024           | Jan 30 | (Tue) | 21:46 | 90  | 03:16   | 78S  | 09:29 | 273 |
| 2024           | Jan 31 | (Wed) | 22:32 | 96  | 03:55   | 72S  | 10:01 | 267 |
| 2024           | Feb 01 | (Thu) | 23:20 | 102 | 04:35   | 66S  | 10:33 | 261 |
| 2024           | Feb 02 | (Fri) |       |     | 05:16   | 61S  | 11:08 | 255 |
| 2024           | Feb 03 | (Sat) | 00:10 | 108 | 05:59   | 56S  | 11:46 | 250 |
| 2024           | Feb 04 | (Sun) | 01:04 | 113 | 06:47   | 51S  | 12:29 | 246 |

|                   |           |           |           |
|-------------------|-----------|-----------|-----------|
| 2024 Feb 05 (Mon) | 02:01 116 | 07:41 47S | 13:18 242 |
| 2024 Feb 06 (Tue) | 03:02 119 | 08:39 45S | 14:15 240 |
| 2024 Feb 07 (Wed) | 04:04 120 | 09:41 45S | 15:17 241 |
| 2024 Feb 08 (Thu) | 05:05 118 | 10:44 47S | 16:24 243 |
| 2024 Feb 09 (Fri) | 06:02 115 | 11:46 51S | 17:32 248 |
| 2024 Feb 10 (Sat) | 06:54 109 | 12:44 56S | 18:38 254 |
| 2024 Feb 11 (Sun) | 07:41 103 | 13:39 63S | 19:41 261 |
| 2024 Feb 12 (Mon) | 08:25 95  | 14:31 71S | 20:41 269 |
| 2024 Feb 13 (Tue) | 09:06 88  | 15:21 78S | 21:40 276 |
| 2024 Feb 14 (Wed) | 09:47 80  | 16:10 85S | 22:38 283 |
| 2024 Feb 15 (Thu) | 10:29 74  | 17:01 90N | 23:37 289 |
| 2024 Feb 16 (Fri) | 11:13 68  | 17:53 85N |           |
| 2024 Feb 17 (Sat) | 12:01 64  | 18:47 81N | 00:36 294 |
| 2024 Feb 18 (Sun) | 12:51 61  | 19:42 79N | 01:35 298 |
| 2024 Feb 19 (Mon) | 13:45 60  | 20:37 79N | 02:33 299 |
| 2024 Feb 20 (Tue) | 14:40 61  | 21:31 80N | 03:28 300 |
| 2024 Feb 21 (Wed) | 15:36 63  | 22:22 82N | 04:19 298 |
| 2024 Feb 22 (Thu) | 16:29 67  | 23:09 86N | 05:05 295 |
| 2024 Feb 23 (Fri) | 17:20 71  | 23:54 91N | 05:46 291 |
| 2024 Feb 24 (Sat) | 18:09 76  |           | 06:24 286 |
| 2024 Feb 25 (Sun) | 18:57 82  | 00:36 86S | 06:58 281 |
| 2024 Feb 26 (Mon) | 19:43 88  | 01:15 80S | 07:30 275 |
| 2024 Feb 27 (Tue) | 20:29 94  | 01:54 74S | 08:02 269 |
| 2024 Feb 28 (Wed) | 21:16 100 | 02:33 68S | 08:34 263 |
| 2024 Feb 29 (Thu) | 22:04 106 | 03:13 62S | 09:08 257 |
| 2024 Mar 01 (Fri) | 22:56 111 | 03:56 57S | 09:44 252 |
| 2024 Mar 02 (Sat) | 23:51 115 | 04:41 52S | 10:24 247 |
| 2024 Mar 03 (Sun) |           | 05:31 49S | 11:09 243 |
| 2024 Mar 04 (Mon) | 00:48 118 | 06:25 46S | 12:01 241 |
| 2024 Mar 05 (Tue) | 01:48 120 | 07:24 45S | 12:59 240 |
| 2024 Mar 06 (Wed) | 02:48 119 | 08:25 46S | 14:02 241 |
| 2024 Mar 07 (Thu) | 03:46 117 | 09:26 49S | 15:08 245 |
| 2024 Mar 08 (Fri) | 04:39 112 | 10:25 53S | 16:14 250 |
| 2024 Mar 09 (Sat) | 05:28 106 | 11:21 59S | 17:18 257 |
| 2024 Mar 10 (Sun) | 06:13 99  | 12:15 67S | 18:20 264 |
| 2024 Mar 11 (Mon) | 06:56 92  | 13:06 74S | 19:21 272 |
| 2024 Mar 12 (Tue) | 07:38 84  | 13:58 82S | 20:22 280 |
| 2024 Mar 13 (Wed) | 08:21 77  | 14:49 89S | 21:23 287 |
| 2024 Mar 14 (Thu) | 09:06 70  | 15:43 87N | 22:24 293 |
| 2024 Mar 15 (Fri) | 09:53 65  | 16:38 83N | 23:26 297 |
| 2024 Mar 16 (Sat) | 10:45 62  | 17:35 80N |           |
| 2024 Mar 17 (Sun) | 11:39 60  | 18:31 79N | 00:26 299 |
| 2024 Mar 18 (Mon) | 12:35 60  | 19:26 79N | 01:23 300 |
| 2024 Mar 19 (Tue) | 13:31 62  | 20:18 81N | 02:16 299 |
| 2024 Mar 20 (Wed) | 14:25 65  | 21:07 85N | 03:04 296 |
| 2024 Mar 21 (Thu) | 15:17 70  | 21:52 89N | 03:46 292 |
| 2024 Mar 22 (Fri) | 16:06 75  | 22:35 87S | 04:24 288 |
| 2024 Mar 23 (Sat) | 16:54 80  | 23:15 82S | 04:59 282 |
| 2024 Mar 24 (Sun) | 17:40 86  | 23:54 76S | 05:32 277 |
| 2024 Mar 25 (Mon) | 18:26 92  |           | 06:04 271 |
| 2024 Mar 26 (Tue) | 19:13 98  | 00:33 70S | 06:36 265 |
| 2024 Mar 27 (Wed) | 20:01 104 | 01:13 64S | 07:09 259 |
| 2024 Mar 28 (Thu) | 20:52 110 | 01:54 59S | 07:44 253 |
| 2024 Mar 29 (Fri) | 21:45 114 | 02:39 54S | 08:23 248 |
| 2024 Mar 30 (Sat) | 22:42 118 | 03:27 50S | 09:07 244 |
| 2024 Mar 31 (Sun) | 23:40 120 | 04:19 47S | 09:55 241 |
| 2024 Apr 01 (Mon) |           | 05:15 45S | 10:50 240 |
| 2024 Apr 02 (Tue) | 00:38 120 | 06:14 45S | 11:50 241 |
| 2024 Apr 03 (Wed) | 01:35 118 | 07:13 47S | 12:52 243 |
| 2024 Apr 04 (Thu) | 02:28 115 | 08:10 51S | 13:56 248 |
| 2024 Apr 05 (Fri) | 03:17 110 | 09:06 56S | 14:59 253 |
| 2024 Apr 06 (Sat) | 04:02 103 | 09:59 63S | 16:00 260 |
| 2024 Apr 07 (Sun) | 04:45 96  | 10:51 70S | 17:00 268 |
| 2024 Apr 08 (Mon) | 05:27 88  | 11:42 78S | 18:01 276 |
| 2024 Apr 09 (Tue) | 06:09 80  | 12:33 85S | 19:02 283 |
| 2024 Apr 10 (Wed) | 06:54 73  | 13:27 90N | 20:05 290 |
| 2024 Apr 11 (Thu) | 07:41 68  | 14:23 84N | 21:08 295 |

|                   |           |           |           |
|-------------------|-----------|-----------|-----------|
| 2024 Apr 12 (Fri) | 08:33 63  | 15:21 81N | 22:12 298 |
| 2024 Apr 13 (Sat) | 09:27 61  | 16:20 79N | 23:12 300 |
| 2024 Apr 14 (Sun) | 10:25 60  | 17:17 79N |           |
| 2024 Apr 15 (Mon) | 11:22 61  | 18:12 80N | 00:09 299 |
| 2024 Apr 16 (Tue) | 12:18 64  | 19:03 83N | 00:59 297 |
| 2024 Apr 17 (Wed) | 13:11 68  | 19:49 87N | 01:44 294 |
| 2024 Apr 18 (Thu) | 14:02 73  | 20:33 89S | 02:24 290 |
| 2024 Apr 19 (Fri) | 14:50 78  | 21:14 84S | 03:00 284 |
| 2024 Apr 20 (Sat) | 15:37 84  | 21:53 78S | 03:34 279 |
| 2024 Apr 21 (Sun) | 16:23 90  | 22:32 72S | 04:06 273 |
| 2024 Apr 22 (Mon) | 17:09 96  | 23:11 66S | 04:37 267 |
| 2024 Apr 23 (Tue) | 17:57 102 | 23:53 61S | 05:10 261 |
| 2024 Apr 24 (Wed) | 18:47 108 |           | 05:45 255 |
| 2024 Apr 25 (Thu) | 19:40 113 | 00:36 55S | 06:23 250 |
| 2024 Apr 26 (Fri) | 20:36 117 | 01:24 51S | 07:05 245 |
| 2024 Apr 27 (Sat) | 21:35 119 | 02:15 47S | 07:53 242 |
| 2024 Apr 28 (Sun) | 22:33 120 | 03:11 45S | 08:46 240 |
| 2024 Apr 29 (Mon) | 23:30 119 | 04:08 45S | 09:44 240 |
| 2024 Apr 30 (Tue) |           | 05:06 46S | 10:45 242 |
| 2024 May 01 (Wed) | 00:23 116 | 06:04 49S | 11:46 246 |
| 2024 May 02 (Thu) | 01:12 112 | 06:58 54S | 12:48 251 |
| 2024 May 03 (Fri) | 01:57 106 | 07:50 60S | 13:47 258 |
| 2024 May 04 (Sat) | 02:39 99  | 08:40 67S | 14:46 265 |
| 2024 May 05 (Sun) | 03:20 91  | 09:30 74S | 15:44 272 |
| 2024 May 06 (Mon) | 04:01 84  | 10:20 82S | 16:43 280 |
| 2024 May 07 (Tue) | 04:43 77  | 11:11 88S | 17:44 287 |
| 2024 May 08 (Wed) | 05:28 70  | 12:06 87N | 18:48 293 |
| 2024 May 09 (Thu) | 06:18 65  | 13:03 82N | 19:52 297 |
| 2024 May 10 (Fri) | 07:12 62  | 14:03 80N | 20:55 299 |
| 2024 May 11 (Sat) | 08:10 60  | 15:03 79N | 21:55 300 |
| 2024 May 12 (Sun) | 09:09 61  | 16:00 80N | 22:50 298 |
| 2024 May 13 (Mon) | 10:07 63  | 16:54 82N | 23:38 295 |
| 2024 May 14 (Tue) | 11:02 66  | 17:43 86N |           |
| 2024 May 15 (Wed) | 11:55 71  | 18:29 90N | 00:21 291 |
| 2024 May 16 (Thu) | 12:44 76  | 19:11 86S | 00:59 286 |
| 2024 May 17 (Fri) | 13:32 82  | 19:51 80S | 01:33 281 |
| 2024 May 18 (Sat) | 14:18 88  | 20:29 74S | 02:06 275 |
| 2024 May 19 (Sun) | 15:04 94  | 21:09 68S | 02:38 269 |
| 2024 May 20 (Mon) | 15:51 100 | 21:49 63S | 03:10 263 |
| 2024 May 21 (Tue) | 16:41 106 | 22:32 57S | 03:44 257 |
| 2024 May 22 (Wed) | 17:33 111 | 23:19 52S | 04:20 252 |
| 2024 May 23 (Thu) | 18:29 115 |           | 05:01 247 |
| 2024 May 24 (Fri) | 19:27 118 | 00:09 49S | 05:48 243 |
| 2024 May 25 (Sat) | 20:27 120 | 01:04 46S | 06:40 241 |
| 2024 May 26 (Sun) | 21:25 119 | 02:02 45S | 07:37 240 |
| 2024 May 27 (Mon) | 22:20 117 | 03:01 46S | 08:38 242 |
| 2024 May 28 (Tue) | 23:10 113 | 03:59 48S | 09:41 245 |
| 2024 May 29 (Wed) | 23:56 107 | 04:54 53S | 10:42 250 |
| 2024 May 30 (Thu) |           | 05:47 58S | 11:41 256 |
| 2024 May 31 (Fri) | 00:38 101 | 06:36 65S | 12:39 262 |
| 2024 Jun 01 (Sat) | 01:18 94  | 07:24 72S | 13:35 270 |
| 2024 Jun 02 (Sun) | 01:57 87  | 08:12 79S | 14:32 277 |
| 2024 Jun 03 (Mon) | 02:37 80  | 09:02 86S | 15:31 284 |
| 2024 Jun 04 (Tue) | 03:20 73  | 09:54 89N | 16:31 290 |
| 2024 Jun 05 (Wed) | 04:07 67  | 10:49 84N | 17:34 295 |
| 2024 Jun 06 (Thu) | 04:58 63  | 11:47 81N | 18:38 298 |
| 2024 Jun 07 (Fri) | 05:54 61  | 12:47 79N | 19:40 300 |
| 2024 Jun 08 (Sat) | 06:53 60  | 13:46 79N | 20:37 299 |
| 2024 Jun 09 (Sun) | 07:53 62  | 14:42 81N | 21:29 297 |
| 2024 Jun 10 (Mon) | 08:51 65  | 15:34 84N | 22:15 293 |
| 2024 Jun 11 (Tue) | 09:45 69  | 16:22 89N | 22:55 288 |
| 2024 Jun 12 (Wed) | 10:36 74  | 17:06 88S | 23:31 283 |
| 2024 Jun 13 (Thu) | 11:25 80  | 17:47 82S |           |
| 2024 Jun 14 (Fri) | 12:11 86  | 18:26 76S | 00:05 277 |
| 2024 Jun 15 (Sat) | 12:57 92  | 19:05 71S | 00:37 271 |
| 2024 Jun 16 (Sun) | 13:44 98  | 19:44 65S | 01:08 265 |
| 2024 Jun 17 (Mon) | 14:32 104 | 20:26 59S | 01:41 259 |

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|-------------------|-----------|-----------|-----------|
| 2024 Jun 18 (Tue) | 15:23 109 | 21:11 54S | 02:17 254 |
| 2024 Jun 19 (Wed) | 16:17 114 | 22:00 50S | 02:56 249 |
| 2024 Jun 20 (Thu) | 17:15 117 | 22:54 47S | 03:40 244 |
| 2024 Jun 21 (Fri) | 18:15 119 | 23:51 45S | 04:30 242 |
| 2024 Jun 22 (Sat) | 19:15 120 |           | 05:27 240 |
| 2024 Jun 23 (Sun) | 20:13 118 | 00:51 45S | 06:28 241 |
| 2024 Jun 24 (Mon) | 21:06 114 | 01:51 47S | 07:32 244 |
| 2024 Jun 25 (Tue) | 21:54 109 | 02:49 51S | 08:35 248 |
| 2024 Jun 26 (Wed) | 22:37 103 | 03:43 57S | 09:36 254 |
| 2024 Jun 27 (Thu) | 23:18 96  | 04:34 63S | 10:34 261 |
| 2024 Jun 28 (Fri) | 23:57 89  | 05:22 70S | 11:31 268 |
| 2024 Jun 29 (Sat) |           | 06:10 77S | 12:27 275 |
| 2024 Jun 30 (Sun) | 00:36 82  | 06:58 84S | 13:24 282 |
| 2024 Jul 01 (Mon) | 01:17 75  | 07:48 90S | 14:23 288 |
| 2024 Jul 02 (Tue) | 02:02 69  | 08:41 86N | 15:23 294 |
| 2024 Jul 03 (Wed) | 02:50 64  | 09:36 82N | 16:25 297 |
| 2024 Jul 04 (Thu) | 03:44 61  | 10:35 79N | 17:27 299 |
| 2024 Jul 05 (Fri) | 04:41 60  | 11:33 79N | 18:26 299 |
| 2024 Jul 06 (Sat) | 05:40 61  | 12:31 80N | 19:20 298 |
| 2024 Jul 07 (Sun) | 06:38 64  | 13:25 83N | 20:08 295 |
| 2024 Jul 08 (Mon) | 07:35 67  | 14:14 87N | 20:50 290 |
| 2024 Jul 09 (Tue) | 08:27 72  | 15:00 90S | 21:28 285 |
| 2024 Jul 10 (Wed) | 09:17 78  | 15:42 84S | 22:03 279 |
| 2024 Jul 11 (Thu) | 10:05 84  | 16:22 79S | 22:35 273 |
| 2024 Jul 12 (Fri) | 10:51 90  | 17:01 73S | 23:07 267 |
| 2024 Jul 13 (Sat) | 11:37 96  | 17:40 67S | 23:39 261 |
| 2024 Jul 14 (Sun) | 12:24 102 | 18:20 61S |           |
| 2024 Jul 15 (Mon) | 13:13 107 | 19:03 56S | 00:13 256 |
| 2024 Jul 16 (Tue) | 14:05 112 | 19:50 51S | 00:50 251 |
| 2024 Jul 17 (Wed) | 15:01 116 | 20:41 48S | 01:31 246 |
| 2024 Jul 18 (Thu) | 16:00 119 | 21:37 46S | 02:19 243 |
| 2024 Jul 19 (Fri) | 17:01 120 | 22:36 45S | 03:12 241 |
| 2024 Jul 20 (Sat) | 18:00 119 | 23:37 46S | 04:12 240 |
| 2024 Jul 21 (Sun) | 18:56 116 |           | 05:16 242 |
| 2024 Jul 22 (Mon) | 19:47 111 | 00:37 50S | 06:21 246 |
| 2024 Jul 23 (Tue) | 20:33 105 | 01:34 55S | 07:24 252 |
| 2024 Jul 24 (Wed) | 21:16 98  | 02:27 61S | 08:25 258 |
| 2024 Jul 25 (Thu) | 21:56 91  | 03:18 68S | 09:24 265 |
| 2024 Jul 26 (Fri) | 22:36 83  | 04:07 75S | 10:22 273 |
| 2024 Jul 27 (Sat) | 23:17 77  | 04:56 82S | 11:19 280 |
| 2024 Jul 28 (Sun) |           | 05:45 89S | 12:18 287 |
| 2024 Jul 29 (Mon) | 00:00 70  | 06:37 87N | 13:17 292 |
| 2024 Jul 30 (Tue) | 00:47 66  | 07:31 83N | 14:18 297 |
| 2024 Jul 31 (Wed) | 01:38 62  | 08:28 80N | 15:19 299 |
| 2024 Aug 01 (Thu) | 02:33 60  | 09:26 79N | 16:18 300 |
| 2024 Aug 02 (Fri) | 03:31 61  | 10:23 79N | 17:13 299 |
| 2024 Aug 03 (Sat) | 04:29 62  | 11:17 82N | 18:03 296 |
| 2024 Aug 04 (Sun) | 05:26 66  | 12:08 85N | 18:47 292 |
| 2024 Aug 05 (Mon) | 06:20 70  | 12:55 90N | 19:26 287 |
| 2024 Aug 06 (Tue) | 07:11 76  | 13:38 86S | 20:02 281 |
| 2024 Aug 07 (Wed) | 07:59 81  | 14:19 81S | 20:35 276 |
| 2024 Aug 08 (Thu) | 08:46 87  | 14:58 75S | 21:07 270 |
| 2024 Aug 09 (Fri) | 09:31 94  | 15:37 69S | 21:38 264 |
| 2024 Aug 10 (Sat) | 10:18 100 | 16:16 63S | 22:11 258 |
| 2024 Aug 11 (Sun) | 11:05 105 | 16:57 58S | 22:46 252 |
| 2024 Aug 12 (Mon) | 11:56 110 | 17:42 53S | 23:25 248 |
| 2024 Aug 13 (Tue) | 12:49 115 | 18:30 49S |           |
| 2024 Aug 14 (Wed) | 13:45 118 | 19:23 46S | 00:09 244 |
| 2024 Aug 15 (Thu) | 14:44 120 | 20:20 45S | 00:59 241 |
| 2024 Aug 16 (Fri) | 15:44 120 | 21:19 45S | 01:55 240 |
| 2024 Aug 17 (Sat) | 16:41 118 | 22:20 48S | 02:56 241 |
| 2024 Aug 18 (Sun) | 17:35 114 | 23:18 52S | 04:01 244 |
| 2024 Aug 19 (Mon) | 18:24 108 |           | 05:05 249 |
| 2024 Aug 20 (Tue) | 19:09 101 | 00:14 58S | 06:09 255 |
| 2024 Aug 21 (Wed) | 19:51 94  | 01:08 65S | 07:11 262 |
| 2024 Aug 22 (Thu) | 20:32 86  | 01:59 72S | 08:11 270 |
| 2024 Aug 23 (Fri) | 21:14 79  | 02:49 79S | 09:10 278 |

|                   |       |     |       |     |       |     |
|-------------------|-------|-----|-------|-----|-------|-----|
| 2024 Aug 24 (Sat) | 21:57 | 72  | 03:40 | 86S | 10:10 | 285 |
| 2024 Aug 25 (Sun) | 22:44 | 67  | 04:32 | 89N | 11:11 | 291 |
| 2024 Aug 26 (Mon) | 23:34 | 63  | 05:26 | 84N | 12:12 | 296 |
| 2024 Aug 27 (Tue) |       |     | 06:23 | 80N | 13:14 | 299 |
| 2024 Aug 28 (Wed) | 00:29 | 61  | 07:21 | 79N | 14:14 | 300 |
| 2024 Aug 29 (Thu) | 01:26 | 60  | 08:18 | 79N | 15:10 | 299 |
| 2024 Aug 30 (Fri) | 02:24 | 62  | 09:13 | 81N | 16:00 | 297 |
| 2024 Aug 31 (Sat) | 03:20 | 64  | 10:05 | 84N | 16:46 | 293 |
| 2024 Sep 01 (Sun) | 04:15 | 69  | 10:52 | 88N | 17:26 | 289 |
| 2024 Sep 02 (Mon) | 05:06 | 74  | 11:36 | 88S | 18:02 | 283 |
| 2024 Sep 03 (Tue) | 05:55 | 79  | 12:17 | 83S | 18:36 | 278 |
| 2024 Sep 04 (Wed) | 06:42 | 85  | 12:57 | 77S | 19:08 | 272 |
| 2024 Sep 05 (Thu) | 07:28 | 91  | 13:35 | 71S | 19:39 | 266 |
| 2024 Sep 06 (Fri) | 08:14 | 98  | 14:14 | 65S | 20:12 | 260 |
| 2024 Sep 07 (Sat) | 09:01 | 103 | 14:55 | 60S | 20:45 | 254 |
| 2024 Sep 08 (Sun) | 09:50 | 109 | 15:37 | 55S | 21:22 | 249 |
| 2024 Sep 09 (Mon) | 10:41 | 113 | 16:23 | 50S | 22:03 | 245 |
| 2024 Sep 10 (Tue) | 11:35 | 117 | 17:13 | 47S | 22:50 | 242 |
| 2024 Sep 11 (Wed) | 12:32 | 119 | 18:07 | 45S | 23:42 | 240 |
| 2024 Sep 12 (Thu) | 13:30 | 120 | 19:04 | 45S |       |     |
| 2024 Sep 13 (Fri) | 14:26 | 119 | 20:03 | 46S | 00:39 | 240 |
| 2024 Sep 14 (Sat) | 15:20 | 116 | 21:01 | 49S | 01:41 | 242 |
| 2024 Sep 15 (Sun) | 16:11 | 111 | 21:58 | 54S | 02:44 | 246 |
| 2024 Sep 16 (Mon) | 16:57 | 105 | 22:52 | 61S | 03:48 | 251 |
| 2024 Sep 17 (Tue) | 17:41 | 98  | 23:44 | 68S | 04:50 | 258 |
| 2024 Sep 18 (Wed) | 18:23 | 90  |       |     | 05:52 | 266 |
| 2024 Sep 19 (Thu) | 19:06 | 82  | 00:36 | 76S | 06:52 | 274 |
| 2024 Sep 20 (Fri) | 19:50 | 75  | 01:27 | 83S | 07:54 | 282 |
| 2024 Sep 21 (Sat) | 20:36 | 69  | 02:21 | 90S | 08:56 | 289 |
| 2024 Sep 22 (Sun) | 21:27 | 64  | 03:16 | 85N | 10:00 | 294 |
| 2024 Sep 23 (Mon) | 22:22 | 61  | 04:14 | 81N | 11:05 | 298 |
| 2024 Sep 24 (Tue) | 23:20 | 60  | 05:14 | 79N | 12:07 | 300 |
| 2024 Sep 25 (Wed) |       |     | 06:13 | 79N | 13:05 | 300 |
| 2024 Sep 26 (Thu) | 00:18 | 61  | 07:09 | 80N | 13:58 | 298 |
| 2024 Sep 27 (Fri) | 01:16 | 63  | 08:02 | 83N | 14:45 | 295 |
| 2024 Sep 28 (Sat) | 02:11 | 67  | 08:50 | 87N | 15:26 | 290 |
| 2024 Sep 29 (Sun) | 03:03 | 72  | 09:35 | 90S | 16:04 | 285 |
| 2024 Sep 30 (Mon) | 03:52 | 77  | 10:17 | 85S | 16:38 | 280 |
| 2024 Oct 01 (Tue) | 04:39 | 83  | 10:56 | 79S | 17:10 | 274 |
| 2024 Oct 02 (Wed) | 05:25 | 89  | 11:35 | 73S | 17:41 | 268 |
| 2024 Oct 03 (Thu) | 06:11 | 96  | 12:14 | 67S | 18:13 | 262 |
| 2024 Oct 04 (Fri) | 06:58 | 101 | 12:54 | 61S | 18:47 | 256 |
| 2024 Oct 05 (Sat) | 07:46 | 107 | 13:36 | 56S | 19:22 | 251 |
| 2024 Oct 06 (Sun) | 08:36 | 112 | 14:20 | 52S | 20:02 | 246 |
| 2024 Oct 07 (Mon) | 09:30 | 116 | 15:09 | 48S | 20:46 | 243 |
| 2024 Oct 08 (Tue) | 10:25 | 119 | 16:01 | 46S | 21:35 | 241 |
| 2024 Oct 09 (Wed) | 11:21 | 120 | 16:55 | 45S | 22:30 | 240 |
| 2024 Oct 10 (Thu) | 12:17 | 120 | 17:52 | 45S | 23:28 | 241 |
| 2024 Oct 11 (Fri) | 13:10 | 118 | 18:48 | 48S |       |     |
| 2024 Oct 12 (Sat) | 14:00 | 114 | 19:44 | 52S | 00:29 | 244 |
| 2024 Oct 13 (Sun) | 14:47 | 108 | 20:37 | 58S | 01:30 | 249 |
| 2024 Oct 14 (Mon) | 15:31 | 102 | 21:29 | 64S | 02:31 | 255 |
| 2024 Oct 15 (Tue) | 16:13 | 94  | 22:20 | 72S | 03:31 | 262 |
| 2024 Oct 16 (Wed) | 16:54 | 86  | 23:11 | 79S | 04:31 | 270 |
| 2024 Oct 17 (Thu) | 17:38 | 79  |       |     | 05:32 | 278 |
| 2024 Oct 18 (Fri) | 18:24 | 72  | 00:04 | 87S | 06:35 | 285 |
| 2024 Oct 19 (Sat) | 19:14 | 66  | 00:59 | 88N | 07:40 | 291 |
| 2024 Oct 20 (Sun) | 20:09 | 62  | 01:58 | 83N | 08:46 | 296 |
| 2024 Oct 21 (Mon) | 21:07 | 60  | 02:59 | 80N | 09:52 | 299 |
| 2024 Oct 22 (Tue) | 22:08 | 60  | 04:01 | 79N | 10:55 | 300 |
| 2024 Oct 23 (Wed) | 23:08 | 62  | 05:00 | 79N | 11:51 | 299 |
| 2024 Oct 24 (Thu) |       |     | 05:56 | 82N | 12:41 | 296 |
| 2024 Oct 25 (Fri) | 00:05 | 66  | 06:47 | 85N | 13:25 | 292 |
| 2024 Oct 26 (Sat) | 00:58 | 70  | 07:33 | 90N | 14:04 | 287 |
| 2024 Oct 27 (Sun) | 01:48 | 76  | 08:16 | 86S | 14:39 | 281 |
| 2024 Oct 28 (Mon) | 02:36 | 81  | 08:56 | 81S | 15:12 | 276 |
| 2024 Oct 29 (Tue) | 03:22 | 87  | 09:35 | 75S | 15:43 | 270 |

|                   |           |           |           |
|-------------------|-----------|-----------|-----------|
| 2024 Oct 30 (Wed) | 04:08 94  | 10:13 69S | 16:15 263 |
| 2024 Oct 31 (Thu) | 04:55 100 | 10:53 63S | 16:48 258 |
| 2024 Nov 01 (Fri) | 05:42 105 | 11:34 58S | 17:23 252 |
| 2024 Nov 02 (Sat) | 06:32 110 | 12:18 53S | 18:02 248 |
| 2024 Nov 03 (Sun) | 07:25 115 | 13:06 49S | 18:45 244 |
| 2024 Nov 04 (Mon) | 08:20 118 | 13:57 46S | 19:32 241 |
| 2024 Nov 05 (Tue) | 09:16 120 | 14:51 45S | 20:25 240 |
| 2024 Nov 06 (Wed) | 10:12 120 | 15:47 45S | 21:22 241 |
| 2024 Nov 07 (Thu) | 11:05 118 | 16:42 47S | 22:21 243 |
| 2024 Nov 08 (Fri) | 11:55 115 | 17:37 50S | 23:20 247 |
| 2024 Nov 09 (Sat) | 12:42 110 | 18:29 55S |           |
| 2024 Nov 10 (Sun) | 13:25 104 | 19:19 61S | 00:19 252 |
| 2024 Nov 11 (Mon) | 14:05 98  | 20:08 68S | 01:17 259 |
| 2024 Nov 12 (Tue) | 14:46 90  | 20:57 76S | 02:15 266 |
| 2024 Nov 13 (Wed) | 15:27 83  | 21:48 83S | 03:13 274 |
| 2024 Nov 14 (Thu) | 16:10 75  | 22:41 90S | 04:13 281 |
| 2024 Nov 15 (Fri) | 16:58 69  | 23:38 86N | 05:16 288 |
| 2024 Nov 16 (Sat) | 17:51 64  |           | 06:22 294 |
| 2024 Nov 17 (Sun) | 18:49 61  | 00:39 81N | 07:30 298 |
| 2024 Nov 18 (Mon) | 19:51 60  | 01:42 79N | 08:36 300 |
| 2024 Nov 19 (Tue) | 20:53 61  | 02:44 79N | 09:37 299 |
| 2024 Nov 20 (Wed) | 21:53 64  | 03:44 80N | 10:32 297 |
| 2024 Nov 21 (Thu) | 22:49 69  | 04:38 84N | 11:20 293 |
| 2024 Nov 22 (Fri) | 23:42 74  | 05:27 88N | 12:01 289 |
| 2024 Nov 23 (Sat) |           | 06:12 88S | 12:38 283 |
| 2024 Nov 24 (Sun) | 00:31 79  | 06:54 83S | 13:12 278 |
| 2024 Nov 25 (Mon) | 01:18 85  | 07:33 77S | 13:44 272 |
| 2024 Nov 26 (Tue) | 02:04 91  | 08:12 71S | 14:16 266 |
| 2024 Nov 27 (Wed) | 02:50 98  | 08:51 65S | 14:48 260 |
| 2024 Nov 28 (Thu) | 03:37 103 | 09:31 60S | 15:22 254 |
| 2024 Nov 29 (Fri) | 04:27 109 | 10:15 55S | 16:00 249 |
| 2024 Nov 30 (Sat) | 05:19 113 | 11:01 50S | 16:42 245 |
| 2024 Dec 01 (Sun) | 06:13 117 | 11:52 47S | 17:28 242 |
| 2024 Dec 02 (Mon) | 07:10 119 | 12:46 45S | 18:20 240 |
| 2024 Dec 03 (Tue) | 08:07 120 | 13:42 45S | 19:17 240 |
| 2024 Dec 04 (Wed) | 09:02 119 | 14:38 46S | 20:16 242 |
| 2024 Dec 05 (Thu) | 09:53 116 | 15:33 49S | 21:15 246 |
| 2024 Dec 06 (Fri) | 10:40 112 | 16:26 54S | 22:14 251 |
| 2024 Dec 07 (Sat) | 11:23 106 | 17:15 60S | 23:11 257 |
| 2024 Dec 08 (Sun) | 12:04 100 | 18:03 66S |           |
| 2024 Dec 09 (Mon) | 12:43 93  | 18:51 73S | 00:07 264 |
| 2024 Dec 10 (Tue) | 13:22 85  | 19:39 80S | 01:03 271 |
| 2024 Dec 11 (Wed) | 14:03 78  | 20:29 87S | 02:00 278 |
| 2024 Dec 12 (Thu) | 14:47 72  | 21:22 88N | 03:00 285 |
| 2024 Dec 13 (Fri) | 15:36 66  | 22:20 83N | 04:02 291 |
| 2024 Dec 14 (Sat) | 16:31 62  | 23:21 80N | 05:07 296 |
| 2024 Dec 15 (Sun) | 17:30 60  |           | 06:14 299 |
| 2024 Dec 16 (Mon) | 18:33 61  | 00:24 79N | 07:18 300 |
| 2024 Dec 17 (Tue) | 19:36 63  | 01:26 80N | 08:17 298 |
| 2024 Dec 18 (Wed) | 20:35 67  | 02:24 82N | 09:09 295 |
| 2024 Dec 19 (Thu) | 21:31 72  | 03:17 86N | 09:54 291 |
| 2024 Dec 20 (Fri) | 22:23 77  | 04:05 90S | 10:34 286 |
| 2024 Dec 21 (Sat) | 23:11 83  | 04:48 85S | 11:10 280 |
| 2024 Dec 22 (Sun) | 23:58 89  | 05:29 79S | 11:43 274 |
| 2024 Dec 23 (Mon) |           | 06:08 73S | 12:15 268 |
| 2024 Dec 24 (Tue) | 00:44 95  | 06:47 67S | 12:47 262 |
| 2024 Dec 25 (Wed) | 01:31 101 | 07:27 62S | 13:20 256 |
| 2024 Dec 26 (Thu) | 02:19 107 | 08:09 56S | 13:56 251 |
| 2024 Dec 27 (Fri) | 03:10 112 | 08:54 52S | 14:36 246 |
| 2024 Dec 28 (Sat) | 04:03 116 | 09:43 48S | 15:21 243 |
| 2024 Dec 29 (Sun) | 05:00 118 | 10:36 46S | 16:11 241 |
| 2024 Dec 30 (Mon) | 05:57 120 | 11:32 45S | 17:07 240 |
| 2024 Dec 31 (Tue) | 06:54 119 | 12:30 46S | 18:07 241 |