

## Sun

VTMK

Location: E 99°55'00.0", N14°06'00.0", 33m  
(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) | 05:54                         | 06:44 114 |     | 12:24 54S    | 18:03 246 |     | 18:53                       |
| 2024 Jan 02 (Tue) | 05:55                         | 06:45 114 |     | 12:24 54S    | 18:03 247 |     | 18:53                       |
| 2024 Jan 03 (Wed) | 05:55                         | 06:45 113 |     | 12:24 54S    | 18:04 247 |     | 18:54                       |
| 2024 Jan 04 (Thu) | 05:56                         | 06:45 113 |     | 12:25 54S    | 18:05 247 |     | 18:54                       |
| 2024 Jan 05 (Fri) | 05:56                         | 06:46 113 |     | 12:25 54S    | 18:05 247 |     | 18:55                       |
| 2024 Jan 06 (Sat) | 05:56                         | 06:46 113 |     | 12:26 54S    | 18:06 247 |     | 18:55                       |
| 2024 Jan 07 (Sun) | 05:57                         | 06:46 113 |     | 12:26 54S    | 18:06 247 |     | 18:56                       |
| 2024 Jan 08 (Mon) | 05:57                         | 06:47 113 |     | 12:27 54S    | 18:07 247 |     | 18:56                       |
| 2024 Jan 09 (Tue) | 05:57                         | 06:47 113 |     | 12:27 54S    | 18:07 247 |     | 18:57                       |
| 2024 Jan 10 (Wed) | 05:58                         | 06:47 113 |     | 12:28 55S    | 18:08 248 |     | 18:57                       |
| 2024 Jan 11 (Thu) | 05:58                         | 06:47 112 |     | 12:28 55S    | 18:09 248 |     | 18:58                       |
| 2024 Jan 12 (Fri) | 05:58                         | 06:48 112 |     | 12:28 55S    | 18:09 248 |     | 18:59                       |
| 2024 Jan 13 (Sat) | 05:59                         | 06:48 112 |     | 12:29 55S    | 18:10 248 |     | 18:59                       |
| 2024 Jan 14 (Sun) | 05:59                         | 06:48 112 |     | 12:29 55S    | 18:10 248 |     | 19:00                       |
| 2024 Jan 15 (Mon) | 05:59                         | 06:48 112 |     | 12:29 55S    | 18:11 248 |     | 19:00                       |
| 2024 Jan 16 (Tue) | 05:59                         | 06:48 112 |     | 12:30 56S    | 18:11 249 |     | 19:01                       |
| 2024 Jan 17 (Wed) | 05:59                         | 06:48 111 |     | 12:30 56S    | 18:12 249 |     | 19:01                       |
| 2024 Jan 18 (Thu) | 06:00                         | 06:49 111 |     | 12:31 56S    | 18:13 249 |     | 19:02                       |
| 2024 Jan 19 (Fri) | 06:00                         | 06:49 111 |     | 12:31 56S    | 18:13 249 |     | 19:02                       |
| 2024 Jan 20 (Sat) | 06:00                         | 06:49 111 |     | 12:31 56S    | 18:14 249 |     | 19:02                       |
| 2024 Jan 21 (Sun) | 06:00                         | 06:49 110 |     | 12:31 57S    | 18:14 250 |     | 19:03                       |
| 2024 Jan 22 (Mon) | 06:00                         | 06:49 110 |     | 12:32 57S    | 18:15 250 |     | 19:03                       |
| 2024 Jan 23 (Tue) | 06:00                         | 06:49 110 |     | 12:32 57S    | 18:15 250 |     | 19:04                       |
| 2024 Jan 24 (Wed) | 06:00                         | 06:49 110 |     | 12:32 57S    | 18:16 250 |     | 19:04                       |
| 2024 Jan 25 (Thu) | 06:00                         | 06:49 110 |     | 12:32 58S    | 18:16 251 |     | 19:05                       |
| 2024 Jan 26 (Fri) | 06:00                         | 06:49 109 |     | 12:33 58S    | 18:17 251 |     | 19:05                       |
| 2024 Jan 27 (Sat) | 06:00                         | 06:49 109 |     | 12:33 58S    | 18:17 251 |     | 19:06                       |
| 2024 Jan 28 (Sun) | 06:00                         | 06:49 109 |     | 12:33 58S    | 18:18 251 |     | 19:06                       |
| 2024 Jan 29 (Mon) | 06:00                         | 06:48 108 |     | 12:33 59S    | 18:18 252 |     | 19:06                       |
| 2024 Jan 30 (Tue) | 06:00                         | 06:48 108 |     | 12:33 59S    | 18:19 252 |     | 19:07                       |
| 2024 Jan 31 (Wed) | 06:00                         | 06:48 108 |     | 12:34 59S    | 18:19 252 |     | 19:07                       |
| 2024 Feb 01 (Thu) | 06:00                         | 06:48 108 |     | 12:34 59S    | 18:20 252 |     | 19:08                       |
| 2024 Feb 02 (Fri) | 06:00                         | 06:48 107 |     | 12:34 60S    | 18:20 253 |     | 19:08                       |
| 2024 Feb 03 (Sat) | 06:00                         | 06:48 107 |     | 12:34 60S    | 18:20 253 |     | 19:08                       |
| 2024 Feb 04 (Sun) | 06:00                         | 06:48 107 |     | 12:34 60S    | 18:21 253 |     | 19:09                       |
| 2024 Feb 05 (Mon) | 06:00                         | 06:47 106 |     | 12:34 61S    | 18:21 254 |     | 19:09                       |
| 2024 Feb 06 (Tue) | 05:59                         | 06:47 106 |     | 12:34 61S    | 18:22 254 |     | 19:09                       |
| 2024 Feb 07 (Wed) | 05:59                         | 06:47 106 |     | 12:34 61S    | 18:22 254 |     | 19:10                       |
| 2024 Feb 08 (Thu) | 05:59                         | 06:47 105 |     | 12:34 61S    | 18:23 255 |     | 19:10                       |
| 2024 Feb 09 (Fri) | 05:59                         | 06:46 105 |     | 12:34 62S    | 18:23 255 |     | 19:10                       |
| 2024 Feb 10 (Sat) | 05:59                         | 06:46 105 |     | 12:35 62S    | 18:23 255 |     | 19:11                       |
| 2024 Feb 11 (Sun) | 05:58                         | 06:46 105 |     | 12:35 62S    | 18:24 256 |     | 19:11                       |
| 2024 Feb 12 (Mon) | 05:58                         | 06:45 104 |     | 12:35 63S    | 18:24 256 |     | 19:11                       |
| 2024 Feb 13 (Tue) | 05:58                         | 06:45 104 |     | 12:35 63S    | 18:24 256 |     | 19:11                       |
| 2024 Feb 14 (Wed) | 05:57                         | 06:45 103 |     | 12:35 63S    | 18:25 257 |     | 19:12                       |
| 2024 Feb 15 (Thu) | 05:57                         | 06:44 103 |     | 12:34 64S    | 18:25 257 |     | 19:12                       |
| 2024 Feb 16 (Fri) | 05:57                         | 06:44 103 |     | 12:34 64S    | 18:25 257 |     | 19:12                       |
| 2024 Feb 17 (Sat) | 05:56                         | 06:43 102 |     | 12:34 64S    | 18:26 258 |     | 19:12                       |
| 2024 Feb 18 (Sun) | 05:56                         | 06:43 102 |     | 12:34 65S    | 18:26 258 |     | 19:13                       |
| 2024 Feb 19 (Mon) | 05:56                         | 06:42 102 |     | 12:34 65S    | 18:26 258 |     | 19:13                       |
| 2024 Feb 20 (Tue) | 05:55                         | 06:42 101 |     | 12:34 66S    | 18:26 259 |     | 19:13                       |
| 2024 Feb 21 (Wed) | 05:55                         | 06:42 101 |     | 12:34 66S    | 18:27 259 |     | 19:13                       |
| 2024 Feb 22 (Thu) | 05:54                         | 06:41 101 |     | 12:34 66S    | 18:27 260 |     | 19:14                       |
| 2024 Feb 23 (Fri) | 05:54                         | 06:41 100 |     | 12:34 67S    | 18:27 260 |     | 19:14                       |
| 2024 Feb 24 (Sat) | 05:54                         | 06:40 100 |     | 12:34 67S    | 18:27 260 |     | 19:14                       |

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

|      |     |    |       |       |       |    |       |     |       |     |       |
|------|-----|----|-------|-------|-------|----|-------|-----|-------|-----|-------|
| 2024 | May | 02 | (Thu) | 05:09 | 05:58 | 74 | 12:17 | 89N | 18:37 | 286 | 19:25 |
| 2024 | May | 03 | (Fri) | 05:09 | 05:57 | 74 | 12:17 | 89N | 18:37 | 287 | 19:26 |
| 2024 | May | 04 | (Sat) | 05:08 | 05:57 | 73 | 12:17 | 89N | 18:37 | 287 | 19:26 |
| 2024 | May | 05 | (Sun) | 05:08 | 05:57 | 73 | 12:17 | 88N | 18:38 | 287 | 19:26 |
| 2024 | May | 06 | (Mon) | 05:07 | 05:56 | 73 | 12:17 | 88N | 18:38 | 288 | 19:27 |
| 2024 | May | 07 | (Tue) | 05:07 | 05:56 | 72 | 12:17 | 88N | 18:38 | 288 | 19:27 |
| 2024 | May | 08 | (Wed) | 05:07 | 05:55 | 72 | 12:17 | 88N | 18:38 | 288 | 19:27 |
| 2024 | May | 09 | (Thu) | 05:06 | 05:55 | 72 | 12:17 | 87N | 18:39 | 288 | 19:28 |
| 2024 | May | 10 | (Fri) | 05:06 | 05:55 | 72 | 12:17 | 87N | 18:39 | 289 | 19:28 |
| 2024 | May | 11 | (Sat) | 05:05 | 05:54 | 71 | 12:17 | 87N | 18:39 | 289 | 19:28 |
| 2024 | May | 12 | (Sun) | 05:05 | 05:54 | 71 | 12:17 | 87N | 18:39 | 289 | 19:29 |
| 2024 | May | 13 | (Mon) | 05:05 | 05:54 | 71 | 12:17 | 86N | 18:40 | 289 | 19:29 |
| 2024 | May | 14 | (Tue) | 05:04 | 05:54 | 70 | 12:17 | 86N | 18:40 | 290 | 19:29 |
| 2024 | May | 15 | (Wed) | 05:04 | 05:53 | 70 | 12:17 | 86N | 18:40 | 290 | 19:30 |
| 2024 | May | 16 | (Thu) | 05:03 | 05:53 | 70 | 12:17 | 86N | 18:41 | 290 | 19:30 |
| 2024 | May | 17 | (Fri) | 05:03 | 05:53 | 70 | 12:17 | 85N | 18:41 | 290 | 19:31 |
| 2024 | May | 18 | (Sat) | 05:03 | 05:53 | 70 | 12:17 | 85N | 18:41 | 291 | 19:31 |
| 2024 | May | 19 | (Sun) | 05:03 | 05:52 | 69 | 12:17 | 85N | 18:41 | 291 | 19:31 |
| 2024 | May | 20 | (Mon) | 05:02 | 05:52 | 69 | 12:17 | 85N | 18:42 | 291 | 19:32 |
| 2024 | May | 21 | (Tue) | 05:02 | 05:52 | 69 | 12:17 | 85N | 18:42 | 291 | 19:32 |
| 2024 | May | 22 | (Wed) | 05:02 | 05:52 | 69 | 12:17 | 84N | 18:42 | 291 | 19:32 |
| 2024 | May | 23 | (Thu) | 05:02 | 05:52 | 68 | 12:17 | 84N | 18:43 | 292 | 19:33 |
| 2024 | May | 24 | (Fri) | 05:01 | 05:52 | 68 | 12:17 | 84N | 18:43 | 292 | 19:33 |
| 2024 | May | 25 | (Sat) | 05:01 | 05:51 | 68 | 12:17 | 84N | 18:43 | 292 | 19:34 |
| 2024 | May | 26 | (Sun) | 05:01 | 05:51 | 68 | 12:17 | 84N | 18:44 | 292 | 19:34 |
| 2024 | May | 27 | (Mon) | 05:01 | 05:51 | 68 | 12:18 | 83N | 18:44 | 292 | 19:34 |
| 2024 | May | 28 | (Tue) | 05:01 | 05:51 | 68 | 12:18 | 83N | 18:44 | 293 | 19:35 |
| 2024 | May | 29 | (Wed) | 05:01 | 05:51 | 67 | 12:18 | 83N | 18:45 | 293 | 19:35 |
| 2024 | May | 30 | (Thu) | 05:00 | 05:51 | 67 | 12:18 | 83N | 18:45 | 293 | 19:36 |
| 2024 | May | 31 | (Fri) | 05:00 | 05:51 | 67 | 12:18 | 83N | 18:45 | 293 | 19:36 |
| 2024 | Jun | 01 | (Sat) | 05:00 | 05:51 | 67 | 12:18 | 83N | 18:45 | 293 | 19:36 |
| 2024 | Jun | 02 | (Sun) | 05:00 | 05:51 | 67 | 12:18 | 83N | 18:46 | 293 | 19:37 |
| 2024 | Jun | 03 | (Mon) | 05:00 | 05:51 | 67 | 12:19 | 82N | 18:46 | 293 | 19:37 |
| 2024 | Jun | 04 | (Tue) | 05:00 | 05:51 | 67 | 12:19 | 82N | 18:46 | 293 | 19:37 |
| 2024 | Jun | 05 | (Wed) | 05:00 | 05:51 | 66 | 12:19 | 82N | 18:47 | 294 | 19:38 |
| 2024 | Jun | 06 | (Thu) | 05:00 | 05:51 | 66 | 12:19 | 82N | 18:47 | 294 | 19:38 |
| 2024 | Jun | 07 | (Fri) | 05:00 | 05:51 | 66 | 12:19 | 82N | 18:47 | 294 | 19:38 |
| 2024 | Jun | 08 | (Sat) | 05:00 | 05:51 | 66 | 12:19 | 82N | 18:48 | 294 | 19:39 |
| 2024 | Jun | 09 | (Sun) | 05:00 | 05:51 | 66 | 12:20 | 82N | 18:48 | 294 | 19:39 |
| 2024 | Jun | 10 | (Mon) | 05:00 | 05:52 | 66 | 12:20 | 82N | 18:48 | 294 | 19:39 |
| 2024 | Jun | 11 | (Tue) | 05:00 | 05:52 | 66 | 12:20 | 82N | 18:49 | 294 | 19:40 |
| 2024 | Jun | 12 | (Wed) | 05:01 | 05:52 | 66 | 12:20 | 82N | 18:49 | 294 | 19:40 |
| 2024 | Jun | 13 | (Thu) | 05:01 | 05:52 | 66 | 12:20 | 82N | 18:49 | 294 | 19:40 |
| 2024 | Jun | 14 | (Fri) | 05:01 | 05:52 | 66 | 12:21 | 82N | 18:49 | 294 | 19:41 |
| 2024 | Jun | 15 | (Sat) | 05:01 | 05:52 | 66 | 12:21 | 81N | 18:50 | 294 | 19:41 |
| 2024 | Jun | 16 | (Sun) | 05:01 | 05:52 | 66 | 12:21 | 81N | 18:50 | 294 | 19:41 |
| 2024 | Jun | 17 | (Mon) | 05:01 | 05:53 | 66 | 12:21 | 81N | 18:50 | 294 | 19:41 |
| 2024 | Jun | 18 | (Tue) | 05:01 | 05:53 | 66 | 12:22 | 81N | 18:50 | 294 | 19:42 |
| 2024 | Jun | 19 | (Wed) | 05:02 | 05:53 | 66 | 12:22 | 81N | 18:51 | 294 | 19:42 |
| 2024 | Jun | 20 | (Thu) | 05:02 | 05:53 | 66 | 12:22 | 81N | 18:51 | 294 | 19:42 |
| 2024 | Jun | 21 | (Fri) | 05:02 | 05:53 | 66 | 12:22 | 81N | 18:51 | 294 | 19:42 |
| 2024 | Jun | 22 | (Sat) | 05:02 | 05:54 | 66 | 12:22 | 81N | 18:51 | 294 | 19:43 |
| 2024 | Jun | 23 | (Sun) | 05:02 | 05:54 | 66 | 12:23 | 81N | 18:51 | 294 | 19:43 |
| 2024 | Jun | 24 | (Mon) | 05:03 | 05:54 | 66 | 12:23 | 81N | 18:52 | 294 | 19:43 |
| 2024 | Jun | 25 | (Tue) | 05:03 | 05:54 | 66 | 12:23 | 81N | 18:52 | 294 | 19:43 |
| 2024 | Jun | 26 | (Wed) | 05:03 | 05:55 | 66 | 12:23 | 81N | 18:52 | 294 | 19:43 |
| 2024 | Jun | 27 | (Thu) | 05:04 | 05:55 | 66 | 12:23 | 82N | 18:52 | 294 | 19:43 |
| 2024 | Jun | 28 | (Fri) | 05:04 | 05:55 | 66 | 12:24 | 82N | 18:52 | 294 | 19:44 |
| 2024 | Jun | 29 | (Sat) | 05:04 | 05:55 | 66 | 12:24 | 82N | 18:52 | 294 | 19:44 |
| 2024 | Jun | 30 | (Sun) | 05:04 | 05:56 | 66 | 12:24 | 82N | 18:52 | 294 | 19:44 |
| 2024 | Jul | 01 | (Mon) | 05:05 | 05:56 | 66 | 12:24 | 82N | 18:53 | 294 | 19:44 |
| 2024 | Jul | 02 | (Tue) | 05:05 | 05:56 | 66 | 12:24 | 82N | 18:53 | 294 | 19:44 |
| 2024 | Jul | 03 | (Wed) | 05:05 | 05:56 | 66 | 12:25 | 82N | 18:53 | 294 | 19:44 |
| 2024 | Jul | 04 | (Thu) | 05:06 | 05:57 | 66 | 12:25 | 82N | 18:53 | 294 | 19:44 |
| 2024 | Jul | 05 | (Fri) | 05:06 | 05:57 | 66 | 12:25 | 82N | 18:53 | 294 | 19:44 |
| 2024 | Jul | 06 | (Sat) | 05:06 | 05:57 | 66 | 12:25 | 82N | 18:53 | 294 | 19:44 |
| 2024 | Jul | 07 | (Sun) | 05:07 | 05:58 | 66 | 12:25 | 82N | 18:53 | 293 | 19:44 |

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

|                   |       |       |     |       |     |       |     |       |
|-------------------|-------|-------|-----|-------|-----|-------|-----|-------|
| 2024 Sep 13 (Fri) | 05:23 | 06:09 | 86  | 12:16 | 80S | 18:23 | 274 | 19:09 |
| 2024 Sep 14 (Sat) | 05:23 | 06:09 | 86  | 12:16 | 80S | 18:22 | 273 | 19:09 |
| 2024 Sep 15 (Sun) | 05:23 | 06:09 | 87  | 12:15 | 79S | 18:22 | 273 | 19:08 |
| 2024 Sep 16 (Mon) | 05:23 | 06:09 | 87  | 12:15 | 79S | 18:21 | 273 | 19:07 |
| 2024 Sep 17 (Tue) | 05:23 | 06:09 | 88  | 12:15 | 79S | 18:20 | 272 | 19:06 |
| 2024 Sep 18 (Wed) | 05:23 | 06:09 | 88  | 12:14 | 78S | 18:19 | 272 | 19:05 |
| 2024 Sep 19 (Thu) | 05:23 | 06:09 | 88  | 12:14 | 78S | 18:19 | 271 | 19:05 |
| 2024 Sep 20 (Fri) | 05:23 | 06:09 | 89  | 12:14 | 78S | 18:18 | 271 | 19:04 |
| 2024 Sep 21 (Sat) | 05:23 | 06:09 | 89  | 12:13 | 77S | 18:17 | 271 | 19:03 |
| 2024 Sep 22 (Sun) | 05:23 | 06:09 | 90  | 12:13 | 77S | 18:16 | 270 | 19:02 |
| 2024 Sep 23 (Mon) | 05:23 | 06:09 | 90  | 12:13 | 76S | 18:16 | 270 | 19:02 |
| 2024 Sep 24 (Tue) | 05:23 | 06:09 | 90  | 12:12 | 76S | 18:15 | 269 | 19:01 |
| 2024 Sep 25 (Wed) | 05:23 | 06:10 | 91  | 12:12 | 76S | 18:14 | 269 | 19:00 |
| 2024 Sep 26 (Thu) | 05:24 | 06:10 | 91  | 12:12 | 75S | 18:13 | 269 | 18:59 |
| 2024 Sep 27 (Fri) | 05:24 | 06:10 | 92  | 12:11 | 75S | 18:13 | 268 | 18:59 |
| 2024 Sep 28 (Sat) | 05:24 | 06:10 | 92  | 12:11 | 74S | 18:12 | 268 | 18:58 |
| 2024 Sep 29 (Sun) | 05:24 | 06:10 | 92  | 12:11 | 74S | 18:11 | 267 | 18:57 |
| 2024 Sep 30 (Mon) | 05:24 | 06:10 | 93  | 12:10 | 74S | 18:10 | 267 | 18:57 |
| 2024 Oct 01 (Tue) | 05:24 | 06:10 | 93  | 12:10 | 73S | 18:10 | 267 | 18:56 |
| 2024 Oct 02 (Wed) | 05:24 | 06:10 | 94  | 12:10 | 73S | 18:09 | 266 | 18:55 |
| 2024 Oct 03 (Thu) | 05:24 | 06:10 | 94  | 12:09 | 72S | 18:08 | 266 | 18:54 |
| 2024 Oct 04 (Fri) | 05:24 | 06:10 | 94  | 12:09 | 72S | 18:08 | 265 | 18:54 |
| 2024 Oct 05 (Sat) | 05:24 | 06:10 | 95  | 12:09 | 72S | 18:07 | 265 | 18:53 |
| 2024 Oct 06 (Sun) | 05:24 | 06:10 | 95  | 12:08 | 71S | 18:06 | 265 | 18:52 |
| 2024 Oct 07 (Mon) | 05:24 | 06:10 | 96  | 12:08 | 71S | 18:06 | 264 | 18:52 |
| 2024 Oct 08 (Tue) | 05:24 | 06:10 | 96  | 12:08 | 71S | 18:05 | 264 | 18:51 |
| 2024 Oct 09 (Wed) | 05:24 | 06:11 | 96  | 12:08 | 70S | 18:04 | 263 | 18:51 |
| 2024 Oct 10 (Thu) | 05:24 | 06:11 | 97  | 12:07 | 70S | 18:04 | 263 | 18:50 |
| 2024 Oct 11 (Fri) | 05:25 | 06:11 | 97  | 12:07 | 69S | 18:03 | 263 | 18:49 |
| 2024 Oct 12 (Sat) | 05:25 | 06:11 | 98  | 12:07 | 69S | 18:02 | 262 | 18:49 |
| 2024 Oct 13 (Sun) | 05:25 | 06:11 | 98  | 12:07 | 69S | 18:02 | 262 | 18:48 |
| 2024 Oct 14 (Mon) | 05:25 | 06:11 | 98  | 12:06 | 68S | 18:01 | 262 | 18:48 |
| 2024 Oct 15 (Tue) | 05:25 | 06:11 | 99  | 12:06 | 68S | 18:01 | 261 | 18:47 |
| 2024 Oct 16 (Wed) | 05:25 | 06:12 | 99  | 12:06 | 68S | 18:00 | 261 | 18:46 |
| 2024 Oct 17 (Thu) | 05:25 | 06:12 | 99  | 12:06 | 67S | 17:59 | 260 | 18:46 |
| 2024 Oct 18 (Fri) | 05:25 | 06:12 | 100 | 12:05 | 67S | 17:59 | 260 | 18:45 |
| 2024 Oct 19 (Sat) | 05:25 | 06:12 | 100 | 12:05 | 66S | 17:58 | 260 | 18:45 |
| 2024 Oct 20 (Sun) | 05:26 | 06:12 | 101 | 12:05 | 66S | 17:58 | 259 | 18:44 |
| 2024 Oct 21 (Mon) | 05:26 | 06:12 | 101 | 12:05 | 66S | 17:57 | 259 | 18:44 |
| 2024 Oct 22 (Tue) | 05:26 | 06:13 | 101 | 12:05 | 65S | 17:57 | 259 | 18:43 |
| 2024 Oct 23 (Wed) | 05:26 | 06:13 | 102 | 12:05 | 65S | 17:56 | 258 | 18:43 |
| 2024 Oct 24 (Thu) | 05:26 | 06:13 | 102 | 12:04 | 65S | 17:56 | 258 | 18:43 |
| 2024 Oct 25 (Fri) | 05:26 | 06:13 | 102 | 12:04 | 64S | 17:55 | 257 | 18:42 |
| 2024 Oct 26 (Sat) | 05:27 | 06:14 | 103 | 12:04 | 64S | 17:55 | 257 | 18:42 |
| 2024 Oct 27 (Sun) | 05:27 | 06:14 | 103 | 12:04 | 64S | 17:54 | 257 | 18:41 |
| 2024 Oct 28 (Mon) | 05:27 | 06:14 | 103 | 12:04 | 63S | 17:54 | 256 | 18:41 |
| 2024 Oct 29 (Tue) | 05:27 | 06:14 | 104 | 12:04 | 63S | 17:54 | 256 | 18:41 |
| 2024 Oct 30 (Wed) | 05:27 | 06:15 | 104 | 12:04 | 63S | 17:53 | 256 | 18:40 |
| 2024 Oct 31 (Thu) | 05:28 | 06:15 | 104 | 12:04 | 62S | 17:53 | 255 | 18:40 |
| 2024 Nov 01 (Fri) | 05:28 | 06:15 | 105 | 12:04 | 62S | 17:52 | 255 | 18:40 |
| 2024 Nov 02 (Sat) | 05:28 | 06:16 | 105 | 12:04 | 62S | 17:52 | 255 | 18:39 |
| 2024 Nov 03 (Sun) | 05:28 | 06:16 | 105 | 12:04 | 61S | 17:52 | 254 | 18:39 |
| 2024 Nov 04 (Mon) | 05:29 | 06:16 | 106 | 12:04 | 61S | 17:51 | 254 | 18:39 |
| 2024 Nov 05 (Tue) | 05:29 | 06:17 | 106 | 12:04 | 61S | 17:51 | 254 | 18:39 |
| 2024 Nov 06 (Wed) | 05:29 | 06:17 | 106 | 12:04 | 60S | 17:51 | 254 | 18:39 |
| 2024 Nov 07 (Thu) | 05:30 | 06:17 | 107 | 12:04 | 60S | 17:51 | 253 | 18:38 |
| 2024 Nov 08 (Fri) | 05:30 | 06:18 | 107 | 12:04 | 60S | 17:50 | 253 | 18:38 |
| 2024 Nov 09 (Sat) | 05:30 | 06:18 | 107 | 12:04 | 60S | 17:50 | 253 | 18:38 |
| 2024 Nov 10 (Sun) | 05:31 | 06:18 | 108 | 12:04 | 59S | 17:50 | 252 | 18:38 |
| 2024 Nov 11 (Mon) | 05:31 | 06:19 | 108 | 12:04 | 59S | 17:50 | 252 | 18:38 |
| 2024 Nov 12 (Tue) | 05:31 | 06:19 | 108 | 12:04 | 59S | 17:50 | 252 | 18:38 |
| 2024 Nov 13 (Wed) | 05:32 | 06:20 | 108 | 12:05 | 59S | 17:49 | 251 | 18:38 |
| 2024 Nov 14 (Thu) | 05:32 | 06:20 | 109 | 12:05 | 58S | 17:49 | 251 | 18:38 |
| 2024 Nov 15 (Fri) | 05:32 | 06:21 | 109 | 12:05 | 58S | 17:49 | 251 | 18:38 |
| 2024 Nov 16 (Sat) | 05:33 | 06:21 | 109 | 12:05 | 58S | 17:49 | 251 | 18:37 |
| 2024 Nov 17 (Sun) | 05:33 | 06:22 | 109 | 12:05 | 58S | 17:49 | 250 | 18:37 |
| 2024 Nov 18 (Mon) | 05:33 | 06:22 | 110 | 12:06 | 57S | 17:49 | 250 | 18:37 |

|      |     |    |       |       |       |     |       |     |       |     |       |
|------|-----|----|-------|-------|-------|-----|-------|-----|-------|-----|-------|
| 2024 | Nov | 19 | (Tue) | 05:34 | 06:22 | 110 | 12:06 | 57S | 17:49 | 250 | 18:38 |
| 2024 | Nov | 20 | (Wed) | 05:34 | 06:23 | 110 | 12:06 | 57S | 17:49 | 250 | 18:38 |
| 2024 | Nov | 21 | (Thu) | 05:35 | 06:23 | 110 | 12:06 | 57S | 17:49 | 250 | 18:38 |
| 2024 | Nov | 22 | (Fri) | 05:35 | 06:24 | 111 | 12:06 | 56S | 17:49 | 249 | 18:38 |
| 2024 | Nov | 23 | (Sat) | 05:36 | 06:24 | 111 | 12:07 | 56S | 17:49 | 249 | 18:38 |
| 2024 | Nov | 24 | (Sun) | 05:36 | 06:25 | 111 | 12:07 | 56S | 17:49 | 249 | 18:38 |
| 2024 | Nov | 25 | (Mon) | 05:36 | 06:25 | 111 | 12:07 | 56S | 17:49 | 249 | 18:38 |
| 2024 | Nov | 26 | (Tue) | 05:37 | 06:26 | 111 | 12:08 | 56S | 17:49 | 248 | 18:38 |
| 2024 | Nov | 27 | (Wed) | 05:37 | 06:27 | 112 | 12:08 | 55S | 17:49 | 248 | 18:38 |
| 2024 | Nov | 28 | (Thu) | 05:38 | 06:27 | 112 | 12:08 | 55S | 17:50 | 248 | 18:39 |
| 2024 | Nov | 29 | (Fri) | 05:38 | 06:28 | 112 | 12:09 | 55S | 17:50 | 248 | 18:39 |
| 2024 | Nov | 30 | (Sat) | 05:39 | 06:28 | 112 | 12:09 | 55S | 17:50 | 248 | 18:39 |
| 2024 | Dec | 01 | (Sun) | 05:39 | 06:29 | 112 | 12:09 | 55S | 17:50 | 248 | 18:39 |
| 2024 | Dec | 02 | (Mon) | 05:40 | 06:29 | 112 | 12:10 | 55S | 17:50 | 247 | 18:40 |
| 2024 | Dec | 03 | (Tue) | 05:40 | 06:30 | 113 | 12:10 | 54S | 17:51 | 247 | 18:40 |
| 2024 | Dec | 04 | (Wed) | 05:41 | 06:30 | 113 | 12:11 | 54S | 17:51 | 247 | 18:40 |
| 2024 | Dec | 05 | (Thu) | 05:41 | 06:31 | 113 | 12:11 | 54S | 17:51 | 247 | 18:41 |
| 2024 | Dec | 06 | (Fri) | 05:42 | 06:32 | 113 | 12:11 | 54S | 17:51 | 247 | 18:41 |
| 2024 | Dec | 07 | (Sat) | 05:42 | 06:32 | 113 | 12:12 | 54S | 17:52 | 247 | 18:41 |
| 2024 | Dec | 08 | (Sun) | 05:43 | 06:33 | 113 | 12:12 | 54S | 17:52 | 247 | 18:42 |
| 2024 | Dec | 09 | (Mon) | 05:44 | 06:33 | 113 | 12:13 | 54S | 17:52 | 247 | 18:42 |
| 2024 | Dec | 10 | (Tue) | 05:44 | 06:34 | 113 | 12:13 | 54S | 17:53 | 246 | 18:42 |
| 2024 | Dec | 11 | (Wed) | 05:45 | 06:34 | 114 | 12:14 | 54S | 17:53 | 246 | 18:43 |
| 2024 | Dec | 12 | (Thu) | 05:45 | 06:35 | 114 | 12:14 | 53S | 17:53 | 246 | 18:43 |
| 2024 | Dec | 13 | (Fri) | 05:46 | 06:35 | 114 | 12:15 | 53S | 17:54 | 246 | 18:44 |
| 2024 | Dec | 14 | (Sat) | 05:46 | 06:36 | 114 | 12:15 | 53S | 17:54 | 246 | 18:44 |
| 2024 | Dec | 15 | (Sun) | 05:47 | 06:36 | 114 | 12:16 | 53S | 17:55 | 246 | 18:44 |
| 2024 | Dec | 16 | (Mon) | 05:47 | 06:37 | 114 | 12:16 | 53S | 17:55 | 246 | 18:45 |
| 2024 | Dec | 17 | (Tue) | 05:48 | 06:38 | 114 | 12:17 | 53S | 17:55 | 246 | 18:45 |
| 2024 | Dec | 18 | (Wed) | 05:48 | 06:38 | 114 | 12:17 | 53S | 17:56 | 246 | 18:46 |
| 2024 | Dec | 19 | (Thu) | 05:49 | 06:39 | 114 | 12:18 | 53S | 17:56 | 246 | 18:46 |
| 2024 | Dec | 20 | (Fri) | 05:49 | 06:39 | 114 | 12:18 | 53S | 17:57 | 246 | 18:47 |
| 2024 | Dec | 21 | (Sat) | 05:50 | 06:40 | 114 | 12:18 | 53S | 17:57 | 246 | 18:47 |
| 2024 | Dec | 22 | (Sun) | 05:50 | 06:40 | 114 | 12:19 | 53S | 17:58 | 246 | 18:48 |
| 2024 | Dec | 23 | (Mon) | 05:51 | 06:41 | 114 | 12:19 | 53S | 17:58 | 246 | 18:48 |
| 2024 | Dec | 24 | (Tue) | 05:51 | 06:41 | 114 | 12:20 | 53S | 17:59 | 246 | 18:49 |
| 2024 | Dec | 25 | (Wed) | 05:52 | 06:42 | 114 | 12:20 | 53S | 17:59 | 246 | 18:49 |
| 2024 | Dec | 26 | (Thu) | 05:52 | 06:42 | 114 | 12:21 | 53S | 18:00 | 246 | 18:50 |
| 2024 | Dec | 27 | (Fri) | 05:53 | 06:42 | 114 | 12:21 | 53S | 18:01 | 246 | 18:50 |
| 2024 | Dec | 28 | (Sat) | 05:53 | 06:43 | 114 | 12:22 | 53S | 18:01 | 246 | 18:51 |
| 2024 | Dec | 29 | (Sun) | 05:53 | 06:43 | 114 | 12:22 | 53S | 18:02 | 246 | 18:51 |
| 2024 | Dec | 30 | (Mon) | 05:54 | 06:44 | 114 | 12:23 | 53S | 18:02 | 246 | 18:52 |
| 2024 | Dec | 31 | (Tue) | 05:54 | 06:44 | 114 | 12:23 | 54S | 18:03 | 246 | 18:53 |

Sun

VTMK

Location: E 99°55'00.0", N14°06'00.0", 33m  
(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) | 06:21                      | 06:44 | 114 | 12:24   | 54S  | 18:03 | 246 | 18:26                    |
| 2024           | Jan | 02 | (Tue) | 06:21                      | 06:45 | 114 | 12:24   | 54S  | 18:03 | 247 | 18:27                    |
| 2024           | Jan | 03 | (Wed) | 06:22                      | 06:45 | 113 | 12:24   | 54S  | 18:04 | 247 | 18:27                    |
| 2024           | Jan | 04 | (Thu) | 06:22                      | 06:45 | 113 | 12:25   | 54S  | 18:05 | 247 | 18:28                    |
| 2024           | Jan | 05 | (Fri) | 06:23                      | 06:46 | 113 | 12:25   | 54S  | 18:05 | 247 | 18:28                    |
| 2024           | Jan | 06 | (Sat) | 06:23                      | 06:46 | 113 | 12:26   | 54S  | 18:06 | 247 | 18:29                    |
| 2024           | Jan | 07 | (Sun) | 06:23                      | 06:46 | 113 | 12:26   | 54S  | 18:06 | 247 | 18:29                    |
| 2024           | Jan | 08 | (Mon) | 06:24                      | 06:47 | 113 | 12:27   | 54S  | 18:07 | 247 | 18:30                    |
| 2024           | Jan | 09 | (Tue) | 06:24                      | 06:47 | 113 | 12:27   | 54S  | 18:07 | 247 | 18:30                    |
| 2024           | Jan | 10 | (Wed) | 06:24                      | 06:47 | 113 | 12:28   | 55S  | 18:08 | 248 | 18:31                    |
| 2024           | Jan | 11 | (Thu) | 06:24                      | 06:47 | 112 | 12:28   | 55S  | 18:09 | 248 | 18:32                    |

|      |     |    |       |       |       |     |       |     |       |     |       |
|------|-----|----|-------|-------|-------|-----|-------|-----|-------|-----|-------|
| 2024 | Jan | 12 | (Fri) | 06:25 | 06:48 | 112 | 12:28 | 55S | 18:09 | 248 | 18:32 |
| 2024 | Jan | 13 | (Sat) | 06:25 | 06:48 | 112 | 12:29 | 55S | 18:10 | 248 | 18:33 |
| 2024 | Jan | 14 | (Sun) | 06:25 | 06:48 | 112 | 12:29 | 55S | 18:10 | 248 | 18:33 |
| 2024 | Jan | 15 | (Mon) | 06:25 | 06:48 | 112 | 12:29 | 55S | 18:11 | 248 | 18:34 |
| 2024 | Jan | 16 | (Tue) | 06:25 | 06:48 | 112 | 12:30 | 56S | 18:11 | 249 | 18:34 |
| 2024 | Jan | 17 | (Wed) | 06:26 | 06:48 | 111 | 12:30 | 56S | 18:12 | 249 | 18:35 |
| 2024 | Jan | 18 | (Thu) | 06:26 | 06:49 | 111 | 12:31 | 56S | 18:13 | 249 | 18:35 |
| 2024 | Jan | 19 | (Fri) | 06:26 | 06:49 | 111 | 12:31 | 56S | 18:13 | 249 | 18:36 |
| 2024 | Jan | 20 | (Sat) | 06:26 | 06:49 | 111 | 12:31 | 56S | 18:14 | 249 | 18:36 |
| 2024 | Jan | 21 | (Sun) | 06:26 | 06:49 | 110 | 12:31 | 57S | 18:14 | 250 | 18:37 |
| 2024 | Jan | 22 | (Mon) | 06:26 | 06:49 | 110 | 12:32 | 57S | 18:15 | 250 | 18:37 |
| 2024 | Jan | 23 | (Tue) | 06:26 | 06:49 | 110 | 12:32 | 57S | 18:15 | 250 | 18:38 |
| 2024 | Jan | 24 | (Wed) | 06:26 | 06:49 | 110 | 12:32 | 57S | 18:16 | 250 | 18:38 |
| 2024 | Jan | 25 | (Thu) | 06:26 | 06:49 | 110 | 12:32 | 58S | 18:16 | 251 | 18:39 |
| 2024 | Jan | 26 | (Fri) | 06:26 | 06:49 | 109 | 12:33 | 58S | 18:17 | 251 | 18:39 |
| 2024 | Jan | 27 | (Sat) | 06:26 | 06:49 | 109 | 12:33 | 58S | 18:17 | 251 | 18:40 |
| 2024 | Jan | 28 | (Sun) | 06:26 | 06:49 | 109 | 12:33 | 58S | 18:18 | 251 | 18:40 |
| 2024 | Jan | 29 | (Mon) | 06:26 | 06:48 | 108 | 12:33 | 59S | 18:18 | 252 | 18:41 |
| 2024 | Jan | 30 | (Tue) | 06:26 | 06:48 | 108 | 12:33 | 59S | 18:19 | 252 | 18:41 |
| 2024 | Jan | 31 | (Wed) | 06:26 | 06:48 | 108 | 12:34 | 59S | 18:19 | 252 | 18:41 |
| 2024 | Feb | 01 | (Thu) | 06:26 | 06:48 | 108 | 12:34 | 59S | 18:20 | 252 | 18:42 |
| 2024 | Feb | 02 | (Fri) | 06:26 | 06:48 | 107 | 12:34 | 60S | 18:20 | 253 | 18:42 |
| 2024 | Feb | 03 | (Sat) | 06:26 | 06:48 | 107 | 12:34 | 60S | 18:20 | 253 | 18:43 |
| 2024 | Feb | 04 | (Sun) | 06:25 | 06:48 | 107 | 12:34 | 60S | 18:21 | 253 | 18:43 |
| 2024 | Feb | 05 | (Mon) | 06:25 | 06:47 | 106 | 12:34 | 61S | 18:21 | 254 | 18:43 |
| 2024 | Feb | 06 | (Tue) | 06:25 | 06:47 | 106 | 12:34 | 61S | 18:22 | 254 | 18:44 |
| 2024 | Feb | 07 | (Wed) | 06:25 | 06:47 | 106 | 12:34 | 61S | 18:22 | 254 | 18:44 |
| 2024 | Feb | 08 | (Thu) | 06:25 | 06:47 | 105 | 12:34 | 61S | 18:23 | 255 | 18:45 |
| 2024 | Feb | 09 | (Fri) | 06:24 | 06:46 | 105 | 12:34 | 62S | 18:23 | 255 | 18:45 |
| 2024 | Feb | 10 | (Sat) | 06:24 | 06:46 | 105 | 12:35 | 62S | 18:23 | 255 | 18:45 |
| 2024 | Feb | 11 | (Sun) | 06:24 | 06:46 | 105 | 12:35 | 62S | 18:24 | 256 | 18:46 |
| 2024 | Feb | 12 | (Mon) | 06:23 | 06:45 | 104 | 12:35 | 63S | 18:24 | 256 | 18:46 |
| 2024 | Feb | 13 | (Tue) | 06:23 | 06:45 | 104 | 12:35 | 63S | 18:24 | 256 | 18:46 |
| 2024 | Feb | 14 | (Wed) | 06:23 | 06:45 | 103 | 12:35 | 63S | 18:25 | 257 | 18:46 |
| 2024 | Feb | 15 | (Thu) | 06:22 | 06:44 | 103 | 12:34 | 64S | 18:25 | 257 | 18:47 |
| 2024 | Feb | 16 | (Fri) | 06:22 | 06:44 | 103 | 12:34 | 64S | 18:25 | 257 | 18:47 |
| 2024 | Feb | 17 | (Sat) | 06:22 | 06:43 | 102 | 12:34 | 64S | 18:26 | 258 | 18:47 |
| 2024 | Feb | 18 | (Sun) | 06:21 | 06:43 | 102 | 12:34 | 65S | 18:26 | 258 | 18:48 |
| 2024 | Feb | 19 | (Mon) | 06:21 | 06:42 | 102 | 12:34 | 65S | 18:26 | 258 | 18:48 |
| 2024 | Feb | 20 | (Tue) | 06:20 | 06:42 | 101 | 12:34 | 66S | 18:26 | 259 | 18:48 |
| 2024 | Feb | 21 | (Wed) | 06:20 | 06:42 | 101 | 12:34 | 66S | 18:27 | 259 | 18:48 |
| 2024 | Feb | 22 | (Thu) | 06:19 | 06:41 | 101 | 12:34 | 66S | 18:27 | 260 | 18:49 |
| 2024 | Feb | 23 | (Fri) | 06:19 | 06:41 | 100 | 12:34 | 67S | 18:27 | 260 | 18:49 |
| 2024 | Feb | 24 | (Sat) | 06:18 | 06:40 | 100 | 12:34 | 67S | 18:27 | 260 | 18:49 |
| 2024 | Feb | 25 | (Sun) | 06:18 | 06:40 | 99  | 12:33 | 67S | 18:28 | 261 | 18:49 |
| 2024 | Feb | 26 | (Mon) | 06:17 | 06:39 | 99  | 12:33 | 68S | 18:28 | 261 | 18:49 |
| 2024 | Feb | 27 | (Tue) | 06:17 | 06:38 | 99  | 12:33 | 68S | 18:28 | 262 | 18:50 |
| 2024 | Feb | 28 | (Wed) | 06:16 | 06:38 | 98  | 12:33 | 68S | 18:28 | 262 | 18:50 |
| 2024 | Feb | 29 | (Thu) | 06:16 | 06:37 | 98  | 12:33 | 69S | 18:28 | 262 | 18:50 |
| 2024 | Mar | 01 | (Fri) | 06:15 | 06:37 | 98  | 12:33 | 69S | 18:29 | 263 | 18:50 |
| 2024 | Mar | 02 | (Sat) | 06:15 | 06:36 | 97  | 12:32 | 70S | 18:29 | 263 | 18:50 |
| 2024 | Mar | 03 | (Sun) | 06:14 | 06:36 | 97  | 12:32 | 70S | 18:29 | 263 | 18:50 |
| 2024 | Mar | 04 | (Mon) | 06:14 | 06:35 | 96  | 12:32 | 70S | 18:29 | 264 | 18:51 |
| 2024 | Mar | 05 | (Tue) | 06:13 | 06:34 | 96  | 12:32 | 71S | 18:29 | 264 | 18:51 |
| 2024 | Mar | 06 | (Wed) | 06:12 | 06:34 | 96  | 12:32 | 71S | 18:29 | 265 | 18:51 |
| 2024 | Mar | 07 | (Thu) | 06:12 | 06:33 | 95  | 12:31 | 72S | 18:30 | 265 | 18:51 |
| 2024 | Mar | 08 | (Fri) | 06:11 | 06:32 | 95  | 12:31 | 72S | 18:30 | 265 | 18:51 |
| 2024 | Mar | 09 | (Sat) | 06:10 | 06:32 | 94  | 12:31 | 72S | 18:30 | 266 | 18:51 |
| 2024 | Mar | 10 | (Sun) | 06:10 | 06:31 | 94  | 12:31 | 73S | 18:30 | 266 | 18:51 |
| 2024 | Mar | 11 | (Mon) | 06:09 | 06:31 | 94  | 12:30 | 73S | 18:30 | 267 | 18:52 |
| 2024 | Mar | 12 | (Tue) | 06:09 | 06:30 | 93  | 12:30 | 73S | 18:30 | 267 | 18:52 |
| 2024 | Mar | 13 | (Wed) | 06:08 | 06:29 | 93  | 12:30 | 74S | 18:30 | 267 | 18:52 |
| 2024 | Mar | 14 | (Thu) | 06:07 | 06:29 | 92  | 12:29 | 74S | 18:31 | 268 | 18:52 |
| 2024 | Mar | 15 | (Fri) | 06:07 | 06:28 | 92  | 12:29 | 75S | 18:31 | 268 | 18:52 |
| 2024 | Mar | 16 | (Sat) | 06:06 | 06:27 | 91  | 12:29 | 75S | 18:31 | 269 | 18:52 |
| 2024 | Mar | 17 | (Sun) | 06:05 | 06:27 | 91  | 12:29 | 75S | 18:31 | 269 | 18:52 |
| 2024 | Mar | 18 | (Mon) | 06:05 | 06:26 | 91  | 12:28 | 76S | 18:31 | 270 | 18:52 |

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

|      |     |    |       |       |       |    |       |     |       |     |       |
|------|-----|----|-------|-------|-------|----|-------|-----|-------|-----|-------|
| 2024 | May | 25 | (Sat) | 05:28 | 05:51 | 68 | 12:17 | 84N | 18:43 | 292 | 19:06 |
| 2024 | May | 26 | (Sun) | 05:28 | 05:51 | 68 | 12:17 | 84N | 18:44 | 292 | 19:07 |
| 2024 | May | 27 | (Mon) | 05:28 | 05:51 | 68 | 12:18 | 83N | 18:44 | 292 | 19:07 |
| 2024 | May | 28 | (Tue) | 05:28 | 05:51 | 68 | 12:18 | 83N | 18:44 | 293 | 19:07 |
| 2024 | May | 29 | (Wed) | 05:28 | 05:51 | 67 | 12:18 | 83N | 18:45 | 293 | 19:08 |
| 2024 | May | 30 | (Thu) | 05:28 | 05:51 | 67 | 12:18 | 83N | 18:45 | 293 | 19:08 |
| 2024 | May | 31 | (Fri) | 05:28 | 05:51 | 67 | 12:18 | 83N | 18:45 | 293 | 19:08 |
| 2024 | Jun | 01 | (Sat) | 05:28 | 05:51 | 67 | 12:18 | 83N | 18:45 | 293 | 19:09 |
| 2024 | Jun | 02 | (Sun) | 05:28 | 05:51 | 67 | 12:18 | 83N | 18:46 | 293 | 19:09 |
| 2024 | Jun | 03 | (Mon) | 05:28 | 05:51 | 67 | 12:19 | 82N | 18:46 | 293 | 19:09 |
| 2024 | Jun | 04 | (Tue) | 05:28 | 05:51 | 67 | 12:19 | 82N | 18:46 | 293 | 19:10 |
| 2024 | Jun | 05 | (Wed) | 05:28 | 05:51 | 66 | 12:19 | 82N | 18:47 | 294 | 19:10 |
| 2024 | Jun | 06 | (Thu) | 05:28 | 05:51 | 66 | 12:19 | 82N | 18:47 | 294 | 19:10 |
| 2024 | Jun | 07 | (Fri) | 05:28 | 05:51 | 66 | 12:19 | 82N | 18:47 | 294 | 19:11 |
| 2024 | Jun | 08 | (Sat) | 05:28 | 05:51 | 66 | 12:19 | 82N | 18:48 | 294 | 19:11 |
| 2024 | Jun | 09 | (Sun) | 05:28 | 05:51 | 66 | 12:20 | 82N | 18:48 | 294 | 19:11 |
| 2024 | Jun | 10 | (Mon) | 05:28 | 05:52 | 66 | 12:20 | 82N | 18:48 | 294 | 19:12 |
| 2024 | Jun | 11 | (Tue) | 05:28 | 05:52 | 66 | 12:20 | 82N | 18:49 | 294 | 19:12 |
| 2024 | Jun | 12 | (Wed) | 05:28 | 05:52 | 66 | 12:20 | 82N | 18:49 | 294 | 19:12 |
| 2024 | Jun | 13 | (Thu) | 05:28 | 05:52 | 66 | 12:20 | 82N | 18:49 | 294 | 19:13 |
| 2024 | Jun | 14 | (Fri) | 05:29 | 05:52 | 66 | 12:21 | 82N | 18:49 | 294 | 19:13 |
| 2024 | Jun | 15 | (Sat) | 05:29 | 05:52 | 66 | 12:21 | 81N | 18:50 | 294 | 19:13 |
| 2024 | Jun | 16 | (Sun) | 05:29 | 05:52 | 66 | 12:21 | 81N | 18:50 | 294 | 19:13 |
| 2024 | Jun | 17 | (Mon) | 05:29 | 05:53 | 66 | 12:21 | 81N | 18:50 | 294 | 19:14 |
| 2024 | Jun | 18 | (Tue) | 05:29 | 05:53 | 66 | 12:22 | 81N | 18:50 | 294 | 19:14 |
| 2024 | Jun | 19 | (Wed) | 05:29 | 05:53 | 66 | 12:22 | 81N | 18:51 | 294 | 19:14 |
| 2024 | Jun | 20 | (Thu) | 05:30 | 05:53 | 66 | 12:22 | 81N | 18:51 | 294 | 19:14 |
| 2024 | Jun | 21 | (Fri) | 05:30 | 05:53 | 66 | 12:22 | 81N | 18:51 | 294 | 19:15 |
| 2024 | Jun | 22 | (Sat) | 05:30 | 05:54 | 66 | 12:22 | 81N | 18:51 | 294 | 19:15 |
| 2024 | Jun | 23 | (Sun) | 05:30 | 05:54 | 66 | 12:23 | 81N | 18:51 | 294 | 19:15 |
| 2024 | Jun | 24 | (Mon) | 05:31 | 05:54 | 66 | 12:23 | 81N | 18:52 | 294 | 19:15 |
| 2024 | Jun | 25 | (Tue) | 05:31 | 05:54 | 66 | 12:23 | 81N | 18:52 | 294 | 19:15 |
| 2024 | Jun | 26 | (Wed) | 05:31 | 05:55 | 66 | 12:23 | 81N | 18:52 | 294 | 19:15 |
| 2024 | Jun | 27 | (Thu) | 05:31 | 05:55 | 66 | 12:23 | 82N | 18:52 | 294 | 19:16 |
| 2024 | Jun | 28 | (Fri) | 05:32 | 05:55 | 66 | 12:24 | 82N | 18:52 | 294 | 19:16 |
| 2024 | Jun | 29 | (Sat) | 05:32 | 05:55 | 66 | 12:24 | 82N | 18:52 | 294 | 19:16 |
| 2024 | Jun | 30 | (Sun) | 05:32 | 05:56 | 66 | 12:24 | 82N | 18:52 | 294 | 19:16 |
| 2024 | Jul | 01 | (Mon) | 05:32 | 05:56 | 66 | 12:24 | 82N | 18:53 | 294 | 19:16 |
| 2024 | Jul | 02 | (Tue) | 05:33 | 05:56 | 66 | 12:24 | 82N | 18:53 | 294 | 19:16 |
| 2024 | Jul | 03 | (Wed) | 05:33 | 05:56 | 66 | 12:25 | 82N | 18:53 | 294 | 19:16 |
| 2024 | Jul | 04 | (Thu) | 05:33 | 05:57 | 66 | 12:25 | 82N | 18:53 | 294 | 19:16 |
| 2024 | Jul | 05 | (Fri) | 05:34 | 05:57 | 66 | 12:25 | 82N | 18:53 | 294 | 19:16 |
| 2024 | Jul | 06 | (Sat) | 05:34 | 05:57 | 66 | 12:25 | 82N | 18:53 | 294 | 19:16 |
| 2024 | Jul | 07 | (Sun) | 05:34 | 05:58 | 66 | 12:25 | 82N | 18:53 | 293 | 19:16 |
| 2024 | Jul | 08 | (Mon) | 05:35 | 05:58 | 67 | 12:25 | 82N | 18:53 | 293 | 19:16 |
| 2024 | Jul | 09 | (Tue) | 05:35 | 05:58 | 67 | 12:26 | 83N | 18:53 | 293 | 19:16 |
| 2024 | Jul | 10 | (Wed) | 05:35 | 05:59 | 67 | 12:26 | 83N | 18:53 | 293 | 19:16 |
| 2024 | Jul | 11 | (Thu) | 05:35 | 05:59 | 67 | 12:26 | 83N | 18:53 | 293 | 19:16 |
| 2024 | Jul | 12 | (Fri) | 05:36 | 05:59 | 67 | 12:26 | 83N | 18:53 | 293 | 19:16 |
| 2024 | Jul | 13 | (Sat) | 05:36 | 05:59 | 67 | 12:26 | 83N | 18:53 | 293 | 19:16 |
| 2024 | Jul | 14 | (Sun) | 05:36 | 06:00 | 67 | 12:26 | 83N | 18:53 | 292 | 19:16 |
| 2024 | Jul | 15 | (Mon) | 05:37 | 06:00 | 68 | 12:26 | 83N | 18:53 | 292 | 19:16 |
| 2024 | Jul | 16 | (Tue) | 05:37 | 06:00 | 68 | 12:26 | 84N | 18:53 | 292 | 19:16 |
| 2024 | Jul | 17 | (Wed) | 05:37 | 06:01 | 68 | 12:27 | 84N | 18:52 | 292 | 19:16 |
| 2024 | Jul | 18 | (Thu) | 05:38 | 06:01 | 68 | 12:27 | 84N | 18:52 | 292 | 19:15 |
| 2024 | Jul | 19 | (Fri) | 05:38 | 06:01 | 68 | 12:27 | 84N | 18:52 | 292 | 19:15 |
| 2024 | Jul | 20 | (Sat) | 05:38 | 06:01 | 68 | 12:27 | 84N | 18:52 | 291 | 19:15 |
| 2024 | Jul | 21 | (Sun) | 05:39 | 06:02 | 69 | 12:27 | 84N | 18:52 | 291 | 19:15 |
| 2024 | Jul | 22 | (Mon) | 05:39 | 06:02 | 69 | 12:27 | 85N | 18:52 | 291 | 19:15 |
| 2024 | Jul | 23 | (Tue) | 05:39 | 06:02 | 69 | 12:27 | 85N | 18:51 | 291 | 19:14 |
| 2024 | Jul | 24 | (Wed) | 05:40 | 06:02 | 69 | 12:27 | 85N | 18:51 | 291 | 19:14 |
| 2024 | Jul | 25 | (Thu) | 05:40 | 06:03 | 70 | 12:27 | 85N | 18:51 | 290 | 19:14 |
| 2024 | Jul | 26 | (Fri) | 05:40 | 06:03 | 70 | 12:27 | 85N | 18:51 | 290 | 19:13 |
| 2024 | Jul | 27 | (Sat) | 05:40 | 06:03 | 70 | 12:27 | 86N | 18:50 | 290 | 19:13 |
| 2024 | Jul | 28 | (Sun) | 05:41 | 06:03 | 70 | 12:27 | 86N | 18:50 | 290 | 19:13 |
| 2024 | Jul | 29 | (Mon) | 05:41 | 06:04 | 70 | 12:27 | 86N | 18:50 | 289 | 19:12 |
| 2024 | Jul | 30 | (Tue) | 05:41 | 06:04 | 71 | 12:27 | 86N | 18:49 | 289 | 19:12 |

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

|      |     |    |       |       |       |     |       |     |       |     |       |
|------|-----|----|-------|-------|-------|-----|-------|-----|-------|-----|-------|
| 2024 | Oct | 06 | (Sun) | 05:49 | 06:10 | 95  | 12:08 | 71S | 18:06 | 265 | 18:28 |
| 2024 | Oct | 07 | (Mon) | 05:49 | 06:10 | 96  | 12:08 | 71S | 18:06 | 264 | 18:27 |
| 2024 | Oct | 08 | (Tue) | 05:49 | 06:10 | 96  | 12:08 | 71S | 18:05 | 264 | 18:26 |
| 2024 | Oct | 09 | (Wed) | 05:49 | 06:11 | 96  | 12:08 | 70S | 18:04 | 263 | 18:26 |
| 2024 | Oct | 10 | (Thu) | 05:49 | 06:11 | 97  | 12:07 | 70S | 18:04 | 263 | 18:25 |
| 2024 | Oct | 11 | (Fri) | 05:49 | 06:11 | 97  | 12:07 | 69S | 18:03 | 263 | 18:24 |
| 2024 | Oct | 12 | (Sat) | 05:49 | 06:11 | 98  | 12:07 | 69S | 18:02 | 262 | 18:24 |
| 2024 | Oct | 13 | (Sun) | 05:50 | 06:11 | 98  | 12:07 | 69S | 18:02 | 262 | 18:23 |
| 2024 | Oct | 14 | (Mon) | 05:50 | 06:11 | 98  | 12:06 | 68S | 18:01 | 262 | 18:23 |
| 2024 | Oct | 15 | (Tue) | 05:50 | 06:11 | 99  | 12:06 | 68S | 18:01 | 261 | 18:22 |
| 2024 | Oct | 16 | (Wed) | 05:50 | 06:12 | 99  | 12:06 | 68S | 18:00 | 261 | 18:22 |
| 2024 | Oct | 17 | (Thu) | 05:50 | 06:12 | 99  | 12:06 | 67S | 17:59 | 260 | 18:21 |
| 2024 | Oct | 18 | (Fri) | 05:50 | 06:12 | 100 | 12:05 | 67S | 17:59 | 260 | 18:20 |
| 2024 | Oct | 19 | (Sat) | 05:50 | 06:12 | 100 | 12:05 | 66S | 17:58 | 260 | 18:20 |
| 2024 | Oct | 20 | (Sun) | 05:51 | 06:12 | 101 | 12:05 | 66S | 17:58 | 259 | 18:19 |
| 2024 | Oct | 21 | (Mon) | 05:51 | 06:12 | 101 | 12:05 | 66S | 17:57 | 259 | 18:19 |
| 2024 | Oct | 22 | (Tue) | 05:51 | 06:13 | 101 | 12:05 | 65S | 17:57 | 259 | 18:18 |
| 2024 | Oct | 23 | (Wed) | 05:51 | 06:13 | 102 | 12:05 | 65S | 17:56 | 258 | 18:18 |
| 2024 | Oct | 24 | (Thu) | 05:51 | 06:13 | 102 | 12:04 | 65S | 17:56 | 258 | 18:17 |
| 2024 | Oct | 25 | (Fri) | 05:52 | 06:13 | 102 | 12:04 | 64S | 17:55 | 257 | 18:17 |
| 2024 | Oct | 26 | (Sat) | 05:52 | 06:14 | 103 | 12:04 | 64S | 17:55 | 257 | 18:17 |
| 2024 | Oct | 27 | (Sun) | 05:52 | 06:14 | 103 | 12:04 | 64S | 17:54 | 257 | 18:16 |
| 2024 | Oct | 28 | (Mon) | 05:52 | 06:14 | 103 | 12:04 | 63S | 17:54 | 256 | 18:16 |
| 2024 | Oct | 29 | (Tue) | 05:52 | 06:14 | 104 | 12:04 | 63S | 17:54 | 256 | 18:15 |
| 2024 | Oct | 30 | (Wed) | 05:53 | 06:15 | 104 | 12:04 | 63S | 17:53 | 256 | 18:15 |
| 2024 | Oct | 31 | (Thu) | 05:53 | 06:15 | 104 | 12:04 | 62S | 17:53 | 255 | 18:15 |
| 2024 | Nov | 01 | (Fri) | 05:53 | 06:15 | 105 | 12:04 | 62S | 17:52 | 255 | 18:14 |
| 2024 | Nov | 02 | (Sat) | 05:54 | 06:16 | 105 | 12:04 | 62S | 17:52 | 255 | 18:14 |
| 2024 | Nov | 03 | (Sun) | 05:54 | 06:16 | 105 | 12:04 | 61S | 17:52 | 254 | 18:14 |
| 2024 | Nov | 04 | (Mon) | 05:54 | 06:16 | 106 | 12:04 | 61S | 17:51 | 254 | 18:13 |
| 2024 | Nov | 05 | (Tue) | 05:54 | 06:17 | 106 | 12:04 | 61S | 17:51 | 254 | 18:13 |
| 2024 | Nov | 06 | (Wed) | 05:55 | 06:17 | 106 | 12:04 | 60S | 17:51 | 254 | 18:13 |
| 2024 | Nov | 07 | (Thu) | 05:55 | 06:17 | 107 | 12:04 | 60S | 17:51 | 253 | 18:13 |
| 2024 | Nov | 08 | (Fri) | 05:56 | 06:18 | 107 | 12:04 | 60S | 17:50 | 253 | 18:13 |
| 2024 | Nov | 09 | (Sat) | 05:56 | 06:18 | 107 | 12:04 | 60S | 17:50 | 253 | 18:12 |
| 2024 | Nov | 10 | (Sun) | 05:56 | 06:18 | 108 | 12:04 | 59S | 17:50 | 252 | 18:12 |
| 2024 | Nov | 11 | (Mon) | 05:57 | 06:19 | 108 | 12:04 | 59S | 17:50 | 252 | 18:12 |
| 2024 | Nov | 12 | (Tue) | 05:57 | 06:19 | 108 | 12:04 | 59S | 17:50 | 252 | 18:12 |
| 2024 | Nov | 13 | (Wed) | 05:57 | 06:20 | 108 | 12:05 | 59S | 17:49 | 251 | 18:12 |
| 2024 | Nov | 14 | (Thu) | 05:58 | 06:20 | 109 | 12:05 | 58S | 17:49 | 251 | 18:12 |
| 2024 | Nov | 15 | (Fri) | 05:58 | 06:21 | 109 | 12:05 | 58S | 17:49 | 251 | 18:12 |
| 2024 | Nov | 16 | (Sat) | 05:59 | 06:21 | 109 | 12:05 | 58S | 17:49 | 251 | 18:12 |
| 2024 | Nov | 17 | (Sun) | 05:59 | 06:22 | 109 | 12:05 | 58S | 17:49 | 250 | 18:12 |
| 2024 | Nov | 18 | (Mon) | 05:59 | 06:22 | 110 | 12:06 | 57S | 17:49 | 250 | 18:11 |
| 2024 | Nov | 19 | (Tue) | 06:00 | 06:22 | 110 | 12:06 | 57S | 17:49 | 250 | 18:11 |
| 2024 | Nov | 20 | (Wed) | 06:00 | 06:23 | 110 | 12:06 | 57S | 17:49 | 250 | 18:12 |
| 2024 | Nov | 21 | (Thu) | 06:01 | 06:23 | 110 | 12:06 | 57S | 17:49 | 250 | 18:12 |
| 2024 | Nov | 22 | (Fri) | 06:01 | 06:24 | 111 | 12:06 | 56S | 17:49 | 249 | 18:12 |
| 2024 | Nov | 23 | (Sat) | 06:02 | 06:24 | 111 | 12:07 | 56S | 17:49 | 249 | 18:12 |
| 2024 | Nov | 24 | (Sun) | 06:02 | 06:25 | 111 | 12:07 | 56S | 17:49 | 249 | 18:12 |
| 2024 | Nov | 25 | (Mon) | 06:03 | 06:25 | 111 | 12:07 | 56S | 17:49 | 249 | 18:12 |
| 2024 | Nov | 26 | (Tue) | 06:03 | 06:26 | 111 | 12:08 | 56S | 17:49 | 248 | 18:12 |
| 2024 | Nov | 27 | (Wed) | 06:04 | 06:27 | 112 | 12:08 | 55S | 17:49 | 248 | 18:12 |
| 2024 | Nov | 28 | (Thu) | 06:04 | 06:27 | 112 | 12:08 | 55S | 17:50 | 248 | 18:12 |
| 2024 | Nov | 29 | (Fri) | 06:05 | 06:28 | 112 | 12:09 | 55S | 17:50 | 248 | 18:13 |
| 2024 | Nov | 30 | (Sat) | 06:05 | 06:28 | 112 | 12:09 | 55S | 17:50 | 248 | 18:13 |
| 2024 | Dec | 01 | (Sun) | 06:06 | 06:29 | 112 | 12:09 | 55S | 17:50 | 248 | 18:13 |
| 2024 | Dec | 02 | (Mon) | 06:06 | 06:29 | 112 | 12:10 | 55S | 17:50 | 247 | 18:13 |
| 2024 | Dec | 03 | (Tue) | 06:07 | 06:30 | 113 | 12:10 | 54S | 17:51 | 247 | 18:13 |
| 2024 | Dec | 04 | (Wed) | 06:07 | 06:30 | 113 | 12:11 | 54S | 17:51 | 247 | 18:14 |
| 2024 | Dec | 05 | (Thu) | 06:08 | 06:31 | 113 | 12:11 | 54S | 17:51 | 247 | 18:14 |
| 2024 | Dec | 06 | (Fri) | 06:08 | 06:32 | 113 | 12:11 | 54S | 17:51 | 247 | 18:14 |
| 2024 | Dec | 07 | (Sat) | 06:09 | 06:32 | 113 | 12:12 | 54S | 17:52 | 247 | 18:15 |
| 2024 | Dec | 08 | (Sun) | 06:10 | 06:33 | 113 | 12:12 | 54S | 17:52 | 247 | 18:15 |
| 2024 | Dec | 09 | (Mon) | 06:10 | 06:33 | 113 | 12:13 | 54S | 17:52 | 247 | 18:15 |
| 2024 | Dec | 10 | (Tue) | 06:11 | 06:34 | 113 | 12:13 | 54S | 17:53 | 246 | 18:16 |
| 2024 | Dec | 11 | (Wed) | 06:11 | 06:34 | 114 | 12:14 | 54S | 17:53 | 246 | 18:16 |

|      |     |    |       |       |       |     |       |     |       |     |       |
|------|-----|----|-------|-------|-------|-----|-------|-----|-------|-----|-------|
| 2024 | Dec | 12 | (Thu) | 06:12 | 06:35 | 114 | 12:14 | 53S | 17:53 | 246 | 18:17 |
| 2024 | Dec | 13 | (Fri) | 06:12 | 06:35 | 114 | 12:15 | 53S | 17:54 | 246 | 18:17 |
| 2024 | Dec | 14 | (Sat) | 06:13 | 06:36 | 114 | 12:15 | 53S | 17:54 | 246 | 18:17 |
| 2024 | Dec | 15 | (Sun) | 06:13 | 06:36 | 114 | 12:16 | 53S | 17:55 | 246 | 18:18 |
| 2024 | Dec | 16 | (Mon) | 06:14 | 06:37 | 114 | 12:16 | 53S | 17:55 | 246 | 18:18 |
| 2024 | Dec | 17 | (Tue) | 06:14 | 06:38 | 114 | 12:17 | 53S | 17:55 | 246 | 18:19 |
| 2024 | Dec | 18 | (Wed) | 06:15 | 06:38 | 114 | 12:17 | 53S | 17:56 | 246 | 18:19 |
| 2024 | Dec | 19 | (Thu) | 06:15 | 06:39 | 114 | 12:18 | 53S | 17:56 | 246 | 18:20 |
| 2024 | Dec | 20 | (Fri) | 06:16 | 06:39 | 114 | 12:18 | 53S | 17:57 | 246 | 18:20 |
| 2024 | Dec | 21 | (Sat) | 06:16 | 06:40 | 114 | 12:18 | 53S | 17:57 | 246 | 18:21 |
| 2024 | Dec | 22 | (Sun) | 06:17 | 06:40 | 114 | 12:19 | 53S | 17:58 | 246 | 18:21 |
| 2024 | Dec | 23 | (Mon) | 06:17 | 06:41 | 114 | 12:19 | 53S | 17:58 | 246 | 18:22 |
| 2024 | Dec | 24 | (Tue) | 06:18 | 06:41 | 114 | 12:20 | 53S | 17:59 | 246 | 18:22 |
| 2024 | Dec | 25 | (Wed) | 06:18 | 06:42 | 114 | 12:20 | 53S | 17:59 | 246 | 18:23 |
| 2024 | Dec | 26 | (Thu) | 06:19 | 06:42 | 114 | 12:21 | 53S | 18:00 | 246 | 18:23 |
| 2024 | Dec | 27 | (Fri) | 06:19 | 06:42 | 114 | 12:21 | 53S | 18:01 | 246 | 18:24 |
| 2024 | Dec | 28 | (Sat) | 06:20 | 06:43 | 114 | 12:22 | 53S | 18:01 | 246 | 18:24 |
| 2024 | Dec | 29 | (Sun) | 06:20 | 06:43 | 114 | 12:22 | 53S | 18:02 | 246 | 18:25 |
| 2024 | Dec | 30 | (Mon) | 06:21 | 06:44 | 114 | 12:23 | 53S | 18:02 | 246 | 18:25 |
| 2024 | Dec | 31 | (Tue) | 06:21 | 06:44 | 114 | 12:23 | 54S | 18:03 | 246 | 18:26 |

# Moon

VTMK

Location: E 99°55'00.0", N14°06'00.0", 33m  
(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 °        | h m ° |     |
| 2024 Jan 01 (Mon) | 22:33 | 80  | 04:12 90S    | 10:34 | 282 |
| 2024 Jan 02 (Tue) | 23:18 | 86  | 04:52 84S    | 11:08 | 277 |
| 2024 Jan 03 (Wed) |       |     | 05:31 79S    | 11:41 | 271 |
| 2024 Jan 04 (Thu) | 00:03 | 92  | 06:10 73S    | 12:14 | 265 |
| 2024 Jan 05 (Fri) | 00:49 | 98  | 06:51 67S    | 12:49 | 259 |
| 2024 Jan 06 (Sat) | 01:37 | 104 | 07:33 61S    | 13:27 | 253 |
| 2024 Jan 07 (Sun) | 02:29 | 109 | 08:20 56S    | 14:09 | 248 |
| 2024 Jan 08 (Mon) | 03:25 | 114 | 09:12 52S    | 14:57 | 244 |
| 2024 Jan 09 (Tue) | 04:25 | 117 | 10:09 49S    | 15:52 | 242 |
| 2024 Jan 10 (Wed) | 05:28 | 119 | 11:11 48S    | 16:53 | 241 |
| 2024 Jan 11 (Thu) | 06:31 | 119 | 12:14 49S    | 17:59 | 242 |
| 2024 Jan 12 (Fri) | 07:31 | 116 | 13:17 52S    | 19:06 | 246 |
| 2024 Jan 13 (Sat) | 08:26 | 112 | 14:17 56S    | 20:10 | 251 |
| 2024 Jan 14 (Sun) | 09:16 | 106 | 15:12 62S    | 21:11 | 257 |
| 2024 Jan 15 (Mon) | 10:01 | 99  | 16:03 69S    | 22:10 | 264 |
| 2024 Jan 16 (Tue) | 10:43 | 92  | 16:52 76S    | 23:05 | 272 |
| 2024 Jan 17 (Wed) | 11:24 | 85  | 17:40 83S    |       |     |
| 2024 Jan 18 (Thu) | 12:04 | 78  | 18:28 90S    | 00:00 | 279 |
| 2024 Jan 19 (Fri) | 12:47 | 72  | 19:17 86N    | 00:55 | 285 |
| 2024 Jan 20 (Sat) | 13:32 | 67  | 20:09 81N    | 01:51 | 291 |
| 2024 Jan 21 (Sun) | 14:21 | 63  | 21:03 78N    | 02:49 | 295 |
| 2024 Jan 22 (Mon) | 15:13 | 61  | 21:58 77N    | 03:47 | 298 |
| 2024 Jan 23 (Tue) | 16:08 | 61  | 22:53 77N    | 04:43 | 299 |
| 2024 Jan 24 (Wed) | 17:03 | 62  | 23:47 78N    | 05:38 | 299 |
| 2024 Jan 25 (Thu) | 17:58 | 65  |              | 06:28 | 297 |
| 2024 Jan 26 (Fri) | 18:50 | 68  | 00:37 81N    | 07:14 | 293 |
| 2024 Jan 27 (Sat) | 19:40 | 73  | 01:24 85N    | 07:55 | 289 |
| 2024 Jan 28 (Sun) | 20:28 | 79  | 02:08 90N    | 08:32 | 284 |
| 2024 Jan 29 (Mon) | 21:13 | 84  | 02:49 86S    | 09:07 | 279 |
| 2024 Jan 30 (Tue) | 21:58 | 90  | 03:28 81S    | 09:40 | 273 |
| 2024 Jan 31 (Wed) | 22:43 | 96  | 04:07 75S    | 10:13 | 267 |
| 2024 Feb 01 (Thu) | 23:29 | 102 | 04:46 69S    | 10:47 | 261 |
| 2024 Feb 02 (Fri) |       |     | 05:27 63S    | 11:23 | 255 |
| 2024 Feb 03 (Sat) | 00:18 | 107 | 06:11 58S    | 12:02 | 250 |
| 2024 Feb 04 (Sun) | 01:11 | 112 | 06:59 54S    | 12:46 | 246 |

|                   |           |           |           |
|-------------------|-----------|-----------|-----------|
| 2024 Feb 05 (Mon) | 02:08 116 | 07:53 50S | 13:36 243 |
| 2024 Feb 06 (Tue) | 03:08 119 | 08:51 48S | 14:33 241 |
| 2024 Feb 07 (Wed) | 04:10 119 | 09:53 48S | 15:36 241 |
| 2024 Feb 08 (Thu) | 05:11 118 | 10:56 50S | 16:42 244 |
| 2024 Feb 09 (Fri) | 06:09 114 | 11:58 54S | 17:48 248 |
| 2024 Feb 10 (Sat) | 07:03 109 | 12:56 59S | 18:53 254 |
| 2024 Feb 11 (Sun) | 07:51 102 | 13:51 66S | 19:54 261 |
| 2024 Feb 12 (Mon) | 08:36 95  | 14:43 73S | 20:53 269 |
| 2024 Feb 13 (Tue) | 09:19 88  | 15:33 81S | 21:51 276 |
| 2024 Feb 14 (Wed) | 10:01 80  | 16:22 88S | 22:48 283 |
| 2024 Feb 15 (Thu) | 10:44 74  | 17:13 88N | 23:45 289 |
| 2024 Feb 16 (Fri) | 11:29 68  | 18:05 83N |           |
| 2024 Feb 17 (Sat) | 12:18 64  | 18:59 79N | 00:43 294 |
| 2024 Feb 18 (Sun) | 13:09 62  | 19:54 77N | 01:42 297 |
| 2024 Feb 19 (Mon) | 14:03 61  | 20:49 76N | 02:39 299 |
| 2024 Feb 20 (Tue) | 14:58 61  | 21:43 77N | 03:34 299 |
| 2024 Feb 21 (Wed) | 15:53 64  | 22:34 80N | 04:25 298 |
| 2024 Feb 22 (Thu) | 16:46 67  | 23:21 84N | 05:12 295 |
| 2024 Feb 23 (Fri) | 17:36 72  |           | 05:54 291 |
| 2024 Feb 24 (Sat) | 18:24 77  | 00:06 88N | 06:32 286 |
| 2024 Feb 25 (Sun) | 19:10 82  | 00:47 88S | 07:08 280 |
| 2024 Feb 26 (Mon) | 19:55 88  | 01:27 82S | 07:41 275 |
| 2024 Feb 27 (Tue) | 20:40 94  | 02:06 77S | 08:14 269 |
| 2024 Feb 28 (Wed) | 21:26 100 | 02:45 71S | 08:47 263 |
| 2024 Feb 29 (Thu) | 22:13 106 | 03:25 65S | 09:22 257 |
| 2024 Mar 01 (Fri) | 23:04 111 | 04:07 60S | 09:59 252 |
| 2024 Mar 02 (Sat) | 23:57 115 | 04:53 55S | 10:40 247 |
| 2024 Mar 03 (Sun) |           | 05:43 51S | 11:27 243 |
| 2024 Mar 04 (Mon) | 00:55 118 | 06:37 48S | 12:19 241 |
| 2024 Mar 05 (Tue) | 01:54 119 | 07:36 47S | 13:18 241 |
| 2024 Mar 06 (Wed) | 02:54 119 | 08:37 48S | 14:20 242 |
| 2024 Mar 07 (Thu) | 03:52 117 | 09:38 51S | 15:25 245 |
| 2024 Mar 08 (Fri) | 04:47 112 | 10:37 56S | 16:30 251 |
| 2024 Mar 09 (Sat) | 05:37 106 | 11:33 62S | 17:33 257 |
| 2024 Mar 10 (Sun) | 06:23 99  | 12:27 69S | 18:33 265 |
| 2024 Mar 11 (Mon) | 07:08 91  | 13:18 77S | 19:33 272 |
| 2024 Mar 12 (Tue) | 07:51 84  | 14:10 84S | 20:32 280 |
| 2024 Mar 13 (Wed) | 08:35 77  | 15:01 90N | 21:31 287 |
| 2024 Mar 14 (Thu) | 09:21 70  | 15:55 84N | 22:32 292 |
| 2024 Mar 15 (Fri) | 10:10 66  | 16:50 80N | 23:32 296 |
| 2024 Mar 16 (Sat) | 11:03 62  | 17:47 77N |           |
| 2024 Mar 17 (Sun) | 11:57 61  | 18:43 76N | 00:32 299 |
| 2024 Mar 18 (Mon) | 12:53 61  | 19:38 77N | 01:29 299 |
| 2024 Mar 19 (Tue) | 13:48 63  | 20:30 79N | 02:22 298 |
| 2024 Mar 20 (Wed) | 14:42 66  | 21:19 82N | 03:10 296 |
| 2024 Mar 21 (Thu) | 15:33 70  | 22:04 86N | 03:54 292 |
| 2024 Mar 22 (Fri) | 16:21 75  | 22:47 90S | 04:33 288 |
| 2024 Mar 23 (Sat) | 17:08 80  | 23:27 84S | 05:09 282 |
| 2024 Mar 24 (Sun) | 17:53 86  |           | 05:43 277 |
| 2024 Mar 25 (Mon) | 18:38 92  | 00:06 79S | 06:16 271 |
| 2024 Mar 26 (Tue) | 19:23 98  | 00:45 73S | 06:49 265 |
| 2024 Mar 27 (Wed) | 20:10 104 | 01:25 67S | 07:23 259 |
| 2024 Mar 28 (Thu) | 21:00 109 | 02:06 61S | 07:59 253 |
| 2024 Mar 29 (Fri) | 21:52 114 | 02:51 56S | 08:39 248 |
| 2024 Mar 30 (Sat) | 22:48 117 | 03:39 52S | 09:24 244 |
| 2024 Mar 31 (Sun) | 23:46 119 | 04:31 49S | 10:13 242 |
| 2024 Apr 01 (Mon) |           | 05:27 48S | 11:08 240 |
| 2024 Apr 02 (Tue) | 00:44 119 | 06:26 48S | 12:08 241 |
| 2024 Apr 03 (Wed) | 01:41 118 | 07:25 50S | 13:10 244 |
| 2024 Apr 04 (Thu) | 02:35 114 | 08:22 53S | 14:12 248 |
| 2024 Apr 05 (Fri) | 03:25 109 | 09:18 59S | 15:14 254 |
| 2024 Apr 06 (Sat) | 04:12 103 | 10:11 65S | 16:14 261 |
| 2024 Apr 07 (Sun) | 04:56 96  | 11:03 73S | 17:13 268 |
| 2024 Apr 08 (Mon) | 05:39 88  | 11:54 80S | 18:12 276 |
| 2024 Apr 09 (Tue) | 06:23 80  | 12:45 88S | 19:12 283 |
| 2024 Apr 10 (Wed) | 07:09 74  | 13:39 87N | 20:13 290 |
| 2024 Apr 11 (Thu) | 07:58 68  | 14:35 82N | 21:15 295 |

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|-------------------|-----------|-----------|-----------|
| 2024 Apr 12 (Fri) | 08:50 64  | 15:33 78N | 22:18 298 |
| 2024 Apr 13 (Sat) | 09:46 61  | 16:32 76N | 23:18 299 |
| 2024 Apr 14 (Sun) | 10:43 61  | 17:29 76N |           |
| 2024 Apr 15 (Mon) | 11:40 62  | 18:24 78N | 00:15 299 |
| 2024 Apr 16 (Tue) | 12:35 64  | 19:15 81N | 01:06 297 |
| 2024 Apr 17 (Wed) | 13:28 68  | 20:01 85N | 01:51 294 |
| 2024 Apr 18 (Thu) | 14:17 73  | 20:45 90N | 02:32 289 |
| 2024 Apr 19 (Fri) | 15:04 78  | 21:26 86S | 03:09 284 |
| 2024 Apr 20 (Sat) | 15:50 84  | 22:05 81S | 03:44 279 |
| 2024 Apr 21 (Sun) | 16:35 90  | 22:44 75S | 04:17 273 |
| 2024 Apr 22 (Mon) | 17:20 96  | 23:23 69S | 04:50 267 |
| 2024 Apr 23 (Tue) | 18:07 102 |           | 05:24 261 |
| 2024 Apr 24 (Wed) | 18:56 108 | 00:04 63S | 06:00 255 |
| 2024 Apr 25 (Thu) | 19:48 112 | 00:48 58S | 06:39 250 |
| 2024 Apr 26 (Fri) | 20:43 116 | 01:36 53S | 07:22 246 |
| 2024 Apr 27 (Sat) | 21:41 119 | 02:27 50S | 08:10 242 |
| 2024 Apr 28 (Sun) | 22:39 120 | 03:23 48S | 09:04 241 |
| 2024 Apr 29 (Mon) | 23:36 119 | 04:20 48S | 10:02 241 |
| 2024 Apr 30 (Tue) |           | 05:18 49S | 11:02 243 |
| 2024 May 01 (Wed) | 00:30 116 | 06:15 52S | 12:03 246 |
| 2024 May 02 (Thu) | 01:20 111 | 07:10 57S | 13:03 251 |
| 2024 May 03 (Fri) | 02:06 105 | 08:02 63S | 14:02 258 |
| 2024 May 04 (Sat) | 02:49 99  | 08:52 70S | 14:59 265 |
| 2024 May 05 (Sun) | 03:31 91  | 09:42 77S | 15:56 272 |
| 2024 May 06 (Mon) | 04:14 84  | 10:32 84S | 16:54 280 |
| 2024 May 07 (Tue) | 04:57 77  | 11:23 90N | 17:53 287 |
| 2024 May 08 (Wed) | 05:44 71  | 12:18 84N | 18:55 292 |
| 2024 May 09 (Thu) | 06:35 65  | 13:15 80N | 19:58 297 |
| 2024 May 10 (Fri) | 07:30 62  | 14:15 77N | 21:01 299 |
| 2024 May 11 (Sat) | 08:28 61  | 15:15 76N | 22:01 299 |
| 2024 May 12 (Sun) | 09:27 61  | 16:12 77N | 22:56 298 |
| 2024 May 13 (Mon) | 10:24 63  | 17:06 80N | 23:45 295 |
| 2024 May 14 (Tue) | 11:19 67  | 17:55 83N |           |
| 2024 May 15 (Wed) | 12:11 71  | 18:41 88N | 00:29 291 |
| 2024 May 16 (Thu) | 12:59 76  | 19:23 88S | 01:07 286 |
| 2024 May 17 (Fri) | 13:45 82  | 20:02 83S | 01:43 281 |
| 2024 May 18 (Sat) | 14:30 88  | 20:41 77S | 02:17 275 |
| 2024 May 19 (Sun) | 15:15 94  | 21:20 71S | 02:50 269 |
| 2024 May 20 (Mon) | 16:01 100 | 22:01 65S | 03:23 263 |
| 2024 May 21 (Tue) | 16:49 106 | 22:44 60S | 03:58 257 |
| 2024 May 22 (Wed) | 17:41 111 | 23:31 55S | 04:36 252 |
| 2024 May 23 (Thu) | 18:36 115 |           | 05:18 247 |
| 2024 May 24 (Fri) | 19:33 118 | 00:21 51S | 06:05 243 |
| 2024 May 25 (Sat) | 20:32 119 | 01:16 48S | 06:58 241 |
| 2024 May 26 (Sun) | 21:31 119 | 02:14 48S | 07:56 241 |
| 2024 May 27 (Mon) | 22:26 117 | 03:13 48S | 08:56 242 |
| 2024 May 28 (Tue) | 23:17 113 | 04:11 51S | 09:58 245 |
| 2024 May 29 (Wed) |           | 05:06 55S | 10:58 250 |
| 2024 May 30 (Thu) | 00:04 107 | 05:59 61S | 11:56 256 |
| 2024 May 31 (Fri) | 00:48 101 | 06:48 67S | 12:52 263 |
| 2024 Jun 01 (Sat) | 01:29 94  | 07:36 74S | 13:47 270 |
| 2024 Jun 02 (Sun) | 02:10 87  | 08:24 82S | 14:43 277 |
| 2024 Jun 03 (Mon) | 02:51 80  | 09:14 88S | 15:40 284 |
| 2024 Jun 04 (Tue) | 03:35 73  | 10:06 87N | 16:39 290 |
| 2024 Jun 05 (Wed) | 04:23 68  | 11:01 82N | 17:41 295 |
| 2024 Jun 06 (Thu) | 05:16 63  | 11:59 78N | 18:44 298 |
| 2024 Jun 07 (Fri) | 06:12 61  | 12:59 76N | 19:45 299 |
| 2024 Jun 08 (Sat) | 07:12 61  | 13:58 76N | 20:43 299 |
| 2024 Jun 09 (Sun) | 08:11 62  | 14:54 78N | 21:36 296 |
| 2024 Jun 10 (Mon) | 09:08 65  | 15:46 82N | 22:22 293 |
| 2024 Jun 11 (Tue) | 10:01 69  | 16:34 86N | 23:03 288 |
| 2024 Jun 12 (Wed) | 10:51 74  | 17:18 90S | 23:41 283 |
| 2024 Jun 13 (Thu) | 11:39 80  | 17:58 85S |           |
| 2024 Jun 14 (Fri) | 12:24 86  | 18:38 79S | 00:15 277 |
| 2024 Jun 15 (Sat) | 13:09 92  | 19:17 73S | 00:48 271 |
| 2024 Jun 16 (Sun) | 13:54 98  | 19:56 67S | 01:21 265 |
| 2024 Jun 17 (Mon) | 14:41 104 | 20:38 62S | 01:55 259 |

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|-------------------|-----------|-----------|-----------|
| 2024 Jun 18 (Tue) | 15:31 109 | 21:23 57S | 02:32 254 |
| 2024 Jun 19 (Wed) | 16:25 113 | 22:12 52S | 03:12 249 |
| 2024 Jun 20 (Thu) | 17:22 117 | 23:06 49S | 03:57 245 |
| 2024 Jun 21 (Fri) | 18:21 119 |           | 04:48 242 |
| 2024 Jun 22 (Sat) | 19:21 119 | 00:03 48S | 05:45 241 |
| 2024 Jun 23 (Sun) | 20:19 117 | 01:03 48S | 06:46 241 |
| 2024 Jun 24 (Mon) | 21:13 114 | 02:03 50S | 07:49 244 |
| 2024 Jun 25 (Tue) | 22:02 109 | 03:01 54S | 08:51 248 |
| 2024 Jun 26 (Wed) | 22:47 103 | 03:55 59S | 09:51 254 |
| 2024 Jun 27 (Thu) | 23:29 96  | 04:46 66S | 10:48 261 |
| 2024 Jun 28 (Fri) |           | 05:34 72S | 11:43 268 |
| 2024 Jun 29 (Sat) | 00:09 89  | 06:22 80S | 12:38 275 |
| 2024 Jun 30 (Sun) | 00:50 82  | 07:10 86S | 13:34 282 |
| 2024 Jul 01 (Mon) | 01:32 75  | 08:00 89N | 14:31 288 |
| 2024 Jul 02 (Tue) | 02:18 69  | 08:53 83N | 15:30 293 |
| 2024 Jul 03 (Wed) | 03:07 65  | 09:48 79N | 16:32 297 |
| 2024 Jul 04 (Thu) | 04:02 62  | 10:47 77N | 17:33 299 |
| 2024 Jul 05 (Fri) | 04:59 61  | 11:46 76N | 18:32 299 |
| 2024 Jul 06 (Sat) | 05:58 61  | 12:43 77N | 19:26 297 |
| 2024 Jul 07 (Sun) | 06:56 64  | 13:37 80N | 20:15 294 |
| 2024 Jul 08 (Mon) | 07:51 68  | 14:26 84N | 20:58 290 |
| 2024 Jul 09 (Tue) | 08:43 72  | 15:12 89N | 21:37 285 |
| 2024 Jul 10 (Wed) | 09:32 78  | 15:54 87S | 22:13 279 |
| 2024 Jul 11 (Thu) | 10:18 84  | 16:34 81S | 22:46 273 |
| 2024 Jul 12 (Fri) | 11:03 90  | 17:13 75S | 23:19 267 |
| 2024 Jul 13 (Sat) | 11:48 96  | 17:52 69S | 23:53 262 |
| 2024 Jul 14 (Sun) | 12:34 101 | 18:32 64S |           |
| 2024 Jul 15 (Mon) | 13:22 107 | 19:15 59S | 00:28 256 |
| 2024 Jul 16 (Tue) | 14:13 112 | 20:02 54S | 01:06 251 |
| 2024 Jul 17 (Wed) | 15:08 116 | 20:53 50S | 01:48 246 |
| 2024 Jul 18 (Thu) | 16:06 118 | 21:49 48S | 02:36 243 |
| 2024 Jul 19 (Fri) | 17:06 119 | 22:48 48S | 03:31 241 |
| 2024 Jul 20 (Sat) | 18:06 118 | 23:49 49S | 04:30 241 |
| 2024 Jul 21 (Sun) | 19:03 116 |           | 05:34 243 |
| 2024 Jul 22 (Mon) | 19:55 111 | 00:49 52S | 06:38 246 |
| 2024 Jul 23 (Tue) | 20:42 105 | 01:46 57S | 07:40 252 |
| 2024 Jul 24 (Wed) | 21:26 98  | 02:39 63S | 08:40 258 |
| 2024 Jul 25 (Thu) | 22:08 91  | 03:30 70S | 09:37 266 |
| 2024 Jul 26 (Fri) | 22:49 83  | 04:19 78S | 10:33 273 |
| 2024 Jul 27 (Sat) | 23:31 77  | 05:08 85S | 11:29 280 |
| 2024 Jul 28 (Sun) |           | 05:57 90N | 12:26 287 |
| 2024 Jul 29 (Mon) | 00:16 71  | 06:49 85N | 13:25 292 |
| 2024 Jul 30 (Tue) | 01:04 66  | 07:43 80N | 14:25 296 |
| 2024 Jul 31 (Wed) | 01:56 62  | 08:40 77N | 15:25 299 |
| 2024 Aug 01 (Thu) | 02:52 61  | 09:38 76N | 16:24 299 |
| 2024 Aug 02 (Fri) | 03:49 61  | 10:35 77N | 17:19 298 |
| 2024 Aug 03 (Sat) | 04:47 63  | 11:29 79N | 18:09 296 |
| 2024 Aug 04 (Sun) | 05:43 66  | 12:20 83N | 18:54 292 |
| 2024 Aug 05 (Mon) | 06:36 71  | 13:07 87N | 19:35 287 |
| 2024 Aug 06 (Tue) | 07:25 76  | 13:50 89S | 20:11 281 |
| 2024 Aug 07 (Wed) | 08:13 82  | 14:31 83S | 20:46 275 |
| 2024 Aug 08 (Thu) | 08:58 88  | 15:10 77S | 21:19 269 |
| 2024 Aug 09 (Fri) | 09:43 94  | 15:48 71S | 21:51 264 |
| 2024 Aug 10 (Sat) | 10:28 99  | 16:28 66S | 22:25 258 |
| 2024 Aug 11 (Sun) | 11:14 105 | 17:09 60S | 23:02 253 |
| 2024 Aug 12 (Mon) | 12:04 110 | 17:54 56S | 23:41 248 |
| 2024 Aug 13 (Tue) | 12:56 114 | 18:42 52S |           |
| 2024 Aug 14 (Wed) | 13:52 118 | 19:35 49S | 00:26 244 |
| 2024 Aug 15 (Thu) | 14:50 119 | 20:32 47S | 01:17 241 |
| 2024 Aug 16 (Fri) | 15:49 119 | 21:31 48S | 02:13 240 |
| 2024 Aug 17 (Sat) | 16:47 117 | 22:32 50S | 03:14 241 |
| 2024 Aug 18 (Sun) | 17:42 113 | 23:30 55S | 04:18 244 |
| 2024 Aug 19 (Mon) | 18:32 108 |           | 05:22 249 |
| 2024 Aug 20 (Tue) | 19:19 101 | 00:26 60S | 06:24 255 |
| 2024 Aug 21 (Wed) | 20:02 94  | 01:19 67S | 07:24 262 |
| 2024 Aug 22 (Thu) | 20:45 86  | 02:11 75S | 08:23 270 |
| 2024 Aug 23 (Fri) | 21:28 79  | 03:01 82S | 09:20 278 |

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|-------------------|-------|-----|-------|-----|-------|-----|
| 2024 Aug 24 (Sat) | 22:13 | 72  | 03:51 | 89S | 10:19 | 285 |
| 2024 Aug 25 (Sun) | 23:01 | 67  | 04:44 | 86N | 11:18 | 291 |
| 2024 Aug 26 (Mon) | 23:52 | 63  | 05:38 | 81N | 12:19 | 295 |
| 2024 Aug 27 (Tue) |       |     | 06:35 | 78N | 13:20 | 298 |
| 2024 Aug 28 (Wed) | 00:47 | 61  | 07:33 | 76N | 14:20 | 300 |
| 2024 Aug 29 (Thu) | 01:44 | 61  | 08:30 | 76N | 15:16 | 299 |
| 2024 Aug 30 (Fri) | 02:42 | 62  | 09:25 | 78N | 16:07 | 297 |
| 2024 Aug 31 (Sat) | 03:37 | 65  | 10:16 | 81N | 16:53 | 293 |
| 2024 Sep 01 (Sun) | 04:31 | 69  | 11:04 | 86N | 17:34 | 288 |
| 2024 Sep 02 (Mon) | 05:21 | 74  | 11:48 | 91N | 18:11 | 283 |
| 2024 Sep 03 (Tue) | 06:09 | 80  | 12:29 | 85S | 18:46 | 277 |
| 2024 Sep 04 (Wed) | 06:54 | 85  | 13:08 | 79S | 19:19 | 272 |
| 2024 Sep 05 (Thu) | 07:39 | 92  | 13:47 | 73S | 19:52 | 266 |
| 2024 Sep 06 (Fri) | 08:24 | 97  | 14:26 | 68S | 20:25 | 260 |
| 2024 Sep 07 (Sat) | 09:10 | 103 | 15:07 | 62S | 21:00 | 254 |
| 2024 Sep 08 (Sun) | 09:58 | 108 | 15:49 | 57S | 21:38 | 249 |
| 2024 Sep 09 (Mon) | 10:48 | 113 | 16:35 | 53S | 22:20 | 245 |
| 2024 Sep 10 (Tue) | 11:42 | 117 | 17:25 | 50S | 23:08 | 242 |
| 2024 Sep 11 (Wed) | 12:38 | 119 | 18:19 | 48S |       |     |
| 2024 Sep 12 (Thu) | 13:35 | 120 | 19:16 | 47S | 00:00 | 241 |
| 2024 Sep 13 (Fri) | 14:32 | 119 | 20:15 | 49S | 00:58 | 241 |
| 2024 Sep 14 (Sat) | 15:27 | 116 | 21:13 | 52S | 01:59 | 243 |
| 2024 Sep 15 (Sun) | 16:18 | 111 | 22:10 | 57S | 03:01 | 246 |
| 2024 Sep 16 (Mon) | 17:06 | 105 | 23:04 | 63S | 04:04 | 252 |
| 2024 Sep 17 (Tue) | 17:52 | 98  | 23:56 | 71S | 05:05 | 259 |
| 2024 Sep 18 (Wed) | 18:35 | 90  |       |     | 06:04 | 266 |
| 2024 Sep 19 (Thu) | 19:19 | 82  | 00:48 | 78S | 07:04 | 274 |
| 2024 Sep 20 (Fri) | 20:04 | 75  | 01:39 | 86S | 08:04 | 282 |
| 2024 Sep 21 (Sat) | 20:53 | 69  | 02:33 | 89N | 09:05 | 288 |
| 2024 Sep 22 (Sun) | 21:45 | 64  | 03:28 | 83N | 10:08 | 294 |
| 2024 Sep 23 (Mon) | 22:40 | 61  | 04:26 | 79N | 11:11 | 298 |
| 2024 Sep 24 (Tue) | 23:38 | 60  | 05:26 | 76N | 12:13 | 299 |
| 2024 Sep 25 (Wed) |       |     | 06:25 | 76N | 13:11 | 299 |
| 2024 Sep 26 (Thu) | 00:36 | 61  | 07:21 | 77N | 14:04 | 298 |
| 2024 Sep 27 (Fri) | 01:33 | 64  | 08:14 | 80N | 14:52 | 294 |
| 2024 Sep 28 (Sat) | 02:27 | 68  | 09:02 | 84N | 15:34 | 290 |
| 2024 Sep 29 (Sun) | 03:18 | 72  | 09:47 | 89N | 16:12 | 285 |
| 2024 Sep 30 (Mon) | 04:06 | 78  | 10:28 | 87S | 16:48 | 279 |
| 2024 Oct 01 (Tue) | 04:52 | 83  | 11:08 | 81S | 17:21 | 273 |
| 2024 Oct 02 (Wed) | 05:37 | 90  | 11:47 | 75S | 17:54 | 267 |
| 2024 Oct 03 (Thu) | 06:22 | 96  | 12:26 | 70S | 18:27 | 262 |
| 2024 Oct 04 (Fri) | 07:07 | 101 | 13:06 | 64S | 19:01 | 256 |
| 2024 Oct 05 (Sat) | 07:55 | 107 | 13:48 | 59S | 19:38 | 251 |
| 2024 Oct 06 (Sun) | 08:44 | 112 | 14:32 | 54S | 20:19 | 246 |
| 2024 Oct 07 (Mon) | 09:36 | 116 | 15:21 | 51S | 21:04 | 243 |
| 2024 Oct 08 (Tue) | 10:31 | 118 | 16:13 | 48S | 21:54 | 241 |
| 2024 Oct 09 (Wed) | 11:27 | 120 | 17:07 | 47S | 22:48 | 240 |
| 2024 Oct 10 (Thu) | 12:23 | 119 | 18:04 | 48S | 23:46 | 241 |
| 2024 Oct 11 (Fri) | 13:17 | 117 | 19:00 | 50S |       |     |
| 2024 Oct 12 (Sat) | 14:08 | 113 | 19:56 | 55S | 00:46 | 244 |
| 2024 Oct 13 (Sun) | 14:55 | 108 | 20:49 | 60S | 01:46 | 249 |
| 2024 Oct 14 (Mon) | 15:40 | 101 | 21:41 | 67S | 02:46 | 255 |
| 2024 Oct 15 (Tue) | 16:24 | 94  | 22:32 | 74S | 03:45 | 262 |
| 2024 Oct 16 (Wed) | 17:07 | 86  | 23:23 | 82S | 04:43 | 270 |
| 2024 Oct 17 (Thu) | 17:52 | 79  |       |     | 05:43 | 278 |
| 2024 Oct 18 (Fri) | 18:39 | 72  | 00:16 | 89S | 06:44 | 285 |
| 2024 Oct 19 (Sat) | 19:31 | 66  | 01:11 | 86N | 07:48 | 291 |
| 2024 Oct 20 (Sun) | 20:26 | 62  | 02:10 | 81N | 08:53 | 296 |
| 2024 Oct 21 (Mon) | 21:26 | 61  | 03:11 | 77N | 09:58 | 299 |
| 2024 Oct 22 (Tue) | 22:26 | 61  | 04:13 | 76N | 11:00 | 300 |
| 2024 Oct 23 (Wed) | 23:25 | 63  | 05:12 | 77N | 11:57 | 298 |
| 2024 Oct 24 (Thu) |       |     | 06:08 | 79N | 12:48 | 296 |
| 2024 Oct 25 (Fri) | 00:21 | 66  | 06:59 | 83N | 13:33 | 292 |
| 2024 Oct 26 (Sat) | 01:14 | 71  | 07:45 | 87N | 14:13 | 287 |
| 2024 Oct 27 (Sun) | 02:03 | 76  | 08:28 | 89S | 14:49 | 281 |
| 2024 Oct 28 (Mon) | 02:50 | 82  | 09:08 | 83S | 15:23 | 275 |
| 2024 Oct 29 (Tue) | 03:35 | 88  | 09:47 | 77S | 15:55 | 269 |

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|-------------------|-----------|-----------|-----------|
| 2024 Oct 30 (Wed) | 04:19 94  | 10:25 71S | 16:28 264 |
| 2024 Oct 31 (Thu) | 05:05 99  | 11:05 66S | 17:02 258 |
| 2024 Nov 01 (Fri) | 05:51 105 | 11:46 60S | 17:38 252 |
| 2024 Nov 02 (Sat) | 06:40 110 | 12:30 56S | 18:18 248 |
| 2024 Nov 03 (Sun) | 07:32 114 | 13:18 52S | 19:02 244 |
| 2024 Nov 04 (Mon) | 08:26 118 | 14:09 49S | 19:50 241 |
| 2024 Nov 05 (Tue) | 09:22 119 | 15:03 47S | 20:44 240 |
| 2024 Nov 06 (Wed) | 10:18 119 | 15:59 48S | 21:40 241 |
| 2024 Nov 07 (Thu) | 11:11 118 | 16:54 50S | 22:39 243 |
| 2024 Nov 08 (Fri) | 12:02 115 | 17:49 53S | 23:37 247 |
| 2024 Nov 09 (Sat) | 12:49 110 | 18:41 58S |           |
| 2024 Nov 10 (Sun) | 13:34 104 | 19:31 64S | 00:35 253 |
| 2024 Nov 11 (Mon) | 14:16 97  | 20:20 71S | 01:31 259 |
| 2024 Nov 12 (Tue) | 14:57 90  | 21:09 78S | 02:28 266 |
| 2024 Nov 13 (Wed) | 15:40 83  | 22:00 86S | 03:25 274 |
| 2024 Nov 14 (Thu) | 16:25 75  | 22:53 89N | 04:23 281 |
| 2024 Nov 15 (Fri) | 17:14 69  | 23:50 83N | 05:25 288 |
| 2024 Nov 16 (Sat) | 18:08 64  |           | 06:29 294 |
| 2024 Nov 17 (Sun) | 19:07 61  | 00:51 79N | 07:36 298 |
| 2024 Nov 18 (Mon) | 20:09 61  | 01:54 76N | 08:41 299 |
| 2024 Nov 19 (Tue) | 21:11 62  | 02:56 76N | 09:43 299 |
| 2024 Nov 20 (Wed) | 22:10 65  | 03:56 78N | 10:38 297 |
| 2024 Nov 21 (Thu) | 23:06 69  | 04:50 81N | 11:27 293 |
| 2024 Nov 22 (Fri) | 23:57 74  | 05:39 86N | 12:10 288 |
| 2024 Nov 23 (Sat) |           | 06:24 91N | 12:48 283 |
| 2024 Nov 24 (Sun) | 00:45 80  | 07:05 85S | 13:22 277 |
| 2024 Nov 25 (Mon) | 01:31 86  | 07:45 79S | 13:56 271 |
| 2024 Nov 26 (Tue) | 02:16 92  | 08:24 73S | 14:28 266 |
| 2024 Nov 27 (Wed) | 03:01 97  | 09:03 68S | 15:02 260 |
| 2024 Nov 28 (Thu) | 03:47 103 | 09:43 62S | 15:37 254 |
| 2024 Nov 29 (Fri) | 04:35 108 | 10:27 57S | 16:16 249 |
| 2024 Nov 30 (Sat) | 05:26 113 | 11:13 53S | 16:58 245 |
| 2024 Dec 01 (Sun) | 06:20 117 | 12:04 50S | 17:46 242 |
| 2024 Dec 02 (Mon) | 07:16 119 | 12:58 48S | 18:39 241 |
| 2024 Dec 03 (Tue) | 08:13 119 | 13:54 48S | 19:35 241 |
| 2024 Dec 04 (Wed) | 09:08 118 | 14:50 49S | 20:34 243 |
| 2024 Dec 05 (Thu) | 10:00 116 | 15:45 52S | 21:32 246 |
| 2024 Dec 06 (Fri) | 10:48 111 | 16:37 57S | 22:30 251 |
| 2024 Dec 07 (Sat) | 11:32 106 | 17:27 62S | 23:26 257 |
| 2024 Dec 08 (Sun) | 12:14 99  | 18:15 69S |           |
| 2024 Dec 09 (Mon) | 12:54 93  | 19:03 76S | 00:20 264 |
| 2024 Dec 10 (Tue) | 13:34 85  | 19:51 83S | 01:15 271 |
| 2024 Dec 11 (Wed) | 14:17 78  | 20:41 90S | 02:11 278 |
| 2024 Dec 12 (Thu) | 15:02 72  | 21:34 86N | 03:09 285 |
| 2024 Dec 13 (Fri) | 15:53 66  | 22:32 81N | 04:10 291 |
| 2024 Dec 14 (Sat) | 16:48 63  | 23:33 77N | 05:14 296 |
| 2024 Dec 15 (Sun) | 17:49 61  |           | 06:20 299 |
| 2024 Dec 16 (Mon) | 18:51 61  | 00:36 76N | 07:24 299 |
| 2024 Dec 17 (Tue) | 19:53 63  | 01:38 77N | 08:23 298 |
| 2024 Dec 18 (Wed) | 20:52 67  | 02:36 80N | 09:16 295 |
| 2024 Dec 19 (Thu) | 21:47 72  | 03:29 84N | 10:02 290 |
| 2024 Dec 20 (Fri) | 22:37 77  | 04:16 89N | 10:43 285 |
| 2024 Dec 21 (Sat) | 23:24 83  | 05:00 87S | 11:20 280 |
| 2024 Dec 22 (Sun) |           | 05:41 81S | 11:54 274 |
| 2024 Dec 23 (Mon) | 00:10 89  | 06:20 76S | 12:27 268 |
| 2024 Dec 24 (Tue) | 00:55 95  | 06:59 70S | 13:00 262 |
| 2024 Dec 25 (Wed) | 01:40 101 | 07:39 64S | 13:35 256 |
| 2024 Dec 26 (Thu) | 02:28 107 | 08:21 59S | 14:12 251 |
| 2024 Dec 27 (Fri) | 03:17 111 | 09:06 54S | 14:53 247 |
| 2024 Dec 28 (Sat) | 04:10 115 | 09:55 51S | 15:38 243 |
| 2024 Dec 29 (Sun) | 05:06 118 | 10:48 48S | 16:29 241 |
| 2024 Dec 30 (Mon) | 06:03 119 | 11:44 48S | 17:25 241 |
| 2024 Dec 31 (Tue) | 07:00 119 | 12:42 48S | 18:25 242 |