

with clock times in UT/GMT. The year -1700 astronomical counting style corresponds to year 1701 B.C.E historical counting style.

|              |              |             |              |              |             |              |              |              |             |             |             |
|--------------|--------------|-------------|--------------|--------------|-------------|--------------|--------------|--------------|-------------|-------------|-------------|
| Jan. -1700j  | July -1700j  | Jan. -1699j | Aug. -1699j  | Feb. -1698j  | Aug. -1698j | March -1697j | Sept. -1697j | March -1696j | Oct. -1696j | Apr. -1695j | Oct. -1695j |
| ♌ 2 21:34    | ♌ 14 11:14   | ♌ 24 01:46  | ♌ 3 02:50    | ♌ 12 17:28   | ♌ 25 07:16  | ♌ 1 21:02    | ♌ 11 11:23   | ♌ 23 02:48   | ♌ 2 17:35   | ♌ 14 08:31  | ♌ 24 22:43  |
| ♍ 5 09:59    | ♍ 16 23:00   | ♍ 26 12:49  | ♍ 5 15:03    | ♍ 15 05:21   | ♍ 27 18:59  | ♍ 4 09:39    | ♍ 14 00:16   | ♍ 25 15:49   | ♍ 5 06:19   | ♍ 16 21:11  | ♍ 27 11:31  |
| ♎ 7 20:06    | ♎ 19 07:58   | ♎ 28 21:05  | ♎ 8 01:16    | ♎ 17 15:31   | ♎ 30 05:12  | ♎ 6 22:27    | ♎ 16 13:02   | ♎ 28 04:18   | ♎ 7 18:27   | ♎ 19 08:56  | ♎ 29 22:37  |
| ♏ 10 02:53   | ♏ 21 14:01   | ♏ 31 03:03  | ♏ 10 09:22   | ♏ 19 23:45   | ♏ 11 20:07  | ♏ 9 10:16    | ♏ 19 00:29   | ♏ 10 04:32   | ♏ 10 04:32  | ♏ 21 17:57  | ♏ 29 22:37  |
| ♐ 12 06:53   | ♐ 23 18:07   | ♐ 25 21:18  | ♐ 12 15:39   | ♐ 22 05:58   | ♐ 1 13:14   | ♐ 11 20:07   | ♐ 21 09:32   | ♐ 12 11:14   | ♐ 12 11:14  | ♐ 23 23:02  | Nov. -1695j |
| ♑ 14 09:25   | ♑ 25 21:18   | Feb. -1699j | ♑ 14 20:18   | ♑ 24 09:57   | ♑ 3 18:33   | ♑ 14 03:15   | ♑ 23 15:21   | ♑ 16 07:19   | ♑ 14 14:09  | ♑ 26 00:29  | ♑ 1 05:59   |
| ♒ 16 11:50   | ♒ 28 00:17   | 2 07:32     | ♒ 16 23:20   | ♒ 26 11:58   | ♒ 5 21:08   | ♒ 18 08:49   | ♒ 25 17:57   | ♒ 16 14:12   | ♒ 16 14:12  | ♒ 27 23:51  | ♒ 3 09:10   |
| ♓ 18 14:58   | ♓ 13 03:25   | 4 11:06     | ♓ 19 01:09   | ♓ 28 12:57   | ♓ 7 21:51   | ♓ 20 08:59   | ♓ 27 18:16   | ♓ 4 03:40    | ♓ 18 13:14  | ♓ 29 23:17  | ♓ 5 09:22   |
| ♈ 20 19:10   | Aug. -1700j  | 6 13:59     | ♈ 21 02:50   | March -1698j | ♈ 9 22:15   | ♈ 22 09:29   | ♈ 29 17:54   | ♈ 6 05:08    | ♈ 20 13:28  | ♈ 22 16:50  | ♈ 7 08:44   |
| ♉ 23 00:41   | 1 07:08      | 8 16:35     | ♉ 23 06:00   | 2 14:30      | ♉ 12 00:12  | ♉ 24 12:06   | Oct. -1697j  | ♉ 8 04:46    | ♉ 25 00:16  | May -1695j  | ♉ 9 09:24   |
| ♊ 25 07:59   | 3 12:16      | ♊ 10 19:48  | ♊ 25 12:15   | 4 18:20      | ♊ 14 05:15  | ♊ 26 18:09   | ♊ 1 18:45    | ♊ 10 04:23   | ♊ 27 11:08  | 2 00:53     | ♊ 11 12:57  |
| ♋ 27 17:40   | 5 19:54      | ♋ 13 01:01  | ♋ 27 22:09   | ♋ 7 01:39    | ♋ 16 14:03  | ♋ 29 03:56   | ♋ 3 22:36    | ♋ 12 06:01   | ♋ 27 11:08  | 4 06:02     | ♋ 13 19:49  |
| ♌ 30 05:38   | 8 06:34      | ♌ 17 20:59  | ♌ 30 10:34   | 9 12:23      | ♌ 19 01:45  | ♌ 31 16:16   | ♌ 6 06:25    | ♌ 14 11:16   | ♌ 29 23:43  | 6 14:48     | ♌ 16 05:24  |
| Feb. -1700j  | ♌ 10 19:19   | ♌ 20 09:52  | Sept. -1699j | 12 00:53     | ♌ 21 14:22  | Apr. -1697j  | ♌ 8 17:44    | ♌ 16 20:35   | Nov. -1696j | 9 02:05     | ♌ 18 16:47  |
| ♍ 1 18:23    | ♍ 13 07:34   | 1 22:58     | 1 22:58      | ♍ 12 12:51   | ♍ 24 01:56  | ♍ 3 05:04    | ♍ 11 06:42   | ♍ 19 08:48   | 1 12:25     | 11 14:32    | ♍ 21 05:13  |
| ♎ 4 05:19    | ♎ 15 16:54   | 4 09:11     | 4 09:11      | ♎ 16 22:43   | ♎ 26 11:27  | ♎ 5 16:32    | ♎ 13 19:18   | ♎ 24 10:07   | 4 00:20     | 14 03:10    | ♎ 23 18:01  |
| ♏ 6 12:34    | ♏ 17 22:34   | 6 16:37     | 6 16:37      | ♏ 19 06:10   | ♏ 28 18:46  | ♏ 8 01:48    | ♏ 16 06:15   | ♏ 26 20:43   | 6 10:47     | 16 15:05    | ♏ 26 05:48  |
| ♐ 8 16:07    | ♐ 20 01:34   | 8 21:51     | 8 21:51      | ♐ 21 11:33   | Oct. -1698j | ♐ 10 08:43   | ♐ 18 15:07   | ♐ 29 05:10   | 8 18:49     | 19 01:02    | ♐ 28 14:43  |
| ♑ 10 17:24   | ♑ 22 03:28   | 11 01:43    | 11 01:43     | ♑ 23 15:23   | 1 00:05     | ♑ 12 13:29   | ♑ 20 21:43   | May -1696j   | 10 23:37    | 21 07:40    | ♑ 30 19:35  |
| ♒ 12 18:20   | ♒ 24 05:41   | 13 04:52    | 13 04:52     | ♒ 25 18:10   | 3 03:40     | ♒ 14 16:23   | ♒ 23 01:58   | ♒ 1 11:03    | ♒ 13 01:12  | 23 10:32    | Dec. -1695j |
| ♓ 14 20:28   | ♓ 26 08:59   | 15 07:43    | 15 07:43     | ♓ 27 20:32   | 5 05:59     | ♓ 16 18:04   | ♓ 25 04:04   | ♓ 11 00:46   | ♓ 15 00:46  | 27 09:40    | ♓ 2 20:47   |
| ♈ 17 00:38   | ♈ 28 13:38   | 17 10:46    | 17 10:46     | ♓ 29 23:20   | 7 07:52     | ♓ 18 19:32   | ♓ 27 04:50   | ♓ 3 14:09    | ♓ 17 00:19  | 29 10:03    | ♓ 4 19:59   |
| ♉ 19 06:53   | ♉ 30 19:46   | 7 22:48     | 7 22:48      | Apr. -1698j  | 9 10:28     | ♓ 20 22:07   | ♓ 31 08:32   | ♓ 5 15:01    | ♓ 19 02:07  | 31 13:35    | ♓ 6 19:23   |
| ♊ 21 15:03   | Sept. -1700j | 10 03:11    | 10 03:11     | 1 03:43      | ♓ 11 15:08  | ♓ 23 03:18   | Nov. -1697j  | ♓ 7 14:58    | ♓ 21 07:50  | ♓ 2 00:53   | ♓ 8 21:04   |
| ♋ 24 01:07   | 2 03:54      | 12 09:16    | 12 09:16     | 3 10:43      | ♓ 13 22:54  | ♓ 25 11:59   | ♓ 2 14:52    | ♓ 9 15:56    | ♓ 23 17:41  | 11 02:20    | ♓ 10 11:23  |
| ♌ 26 13:03   | 4 14:29      | 14 17:49    | 14 17:49     | 5 20:43      | ♓ 16 09:48  | ♓ 27 23:43   | ♓ 5 01:09    | ♓ 11 19:50   | ♓ 26 06:07  | 13 11:15    | ♓ 12 05:16  |
| ♍ 29 01:56   | ♍ 7 03:07    | 16 17:51    | 16 17:51     | 8 08:51      | ♓ 18 22:22  | ♓ 30 12:30   | ♓ 7 13:55    | ♓ 14 03:51   | ♓ 28 18:52  | 15 22:45    | ♓ 14 18:11  |
| March -1700j | 9 15:57      | 22 05:50    | Oct. -1699j  | 10 21:03     | ♓ 21 10:12  | May -1697j   | ♓ 9 10:23    | ♓ 16 15:26   | Dec. -1696j | 17 20:32    | ♓ 16 18:11  |
| 2 13:45      | 12 02:17     | 24 14:49    | 1 18:14      | ♓ 13 07:11   | ♓ 23 19:29  | 2 23:55      | ♓ 12 13:07   | ♓ 19 04:25   | 1 06:26     | 10 09:05    | ♓ 17 20:00  |
| 4 22:11      | 14 08:38     | 26 20:49    | 4 01:50      | ♓ 15 14:17   | ♓ 26 01:51  | 5 08:37      | ♓ 14 21:08   | ♓ 21 16:31   | 3 16:22     | 12 20:43    | ♓ 18 11:40  |
| 7 02:27      | 16 11:21     | 28 22:41    | 6 06:20      | ♓ 17 18:41   | ♓ 28 06:01  | 7 14:40      | ♓ 16 03:38   | ♓ 24 02:36   | 6 00:29     | 14 06:44    | ♓ 20 03:40  |
| 9 03:30      | 18 12:04     | 30 23:56    | 8 08:51      | ♓ 19 21:23   | ♓ 30 09:01  | 9 18:52      | ♓ 18 07:09   | ♓ 26 10:36   | 8 06:22     | 16 14:16    | ♓ 22 06:42  |
| 11 03:14     | 20 12:42     | Apr. -1699j | 10 10:43     | ♓ 21 23:34   | Nov. -1698j | 11 22:04     | ♓ 20 12:26   | ♓ 28 16:42   | 10 09:43    | 18 21:05    | ♓ 24 03:40  |
| 13 03:44     | 22 14:44     | 2 01:24     | 12 13:04     | ♓ 23 02:13   | ♓ 1 11:48   | 14 00:50     | ♓ 22 20:33   | ♓ 30 20:53   | 12 10:55    | 20 20:12    | Jan. -1694j |
| 15 06:33     | 24 19:01     | 4 04:11     | ♓ 14 16:39   | ♓ 26 06:02   | ♓ 3 14:58   | 16 03:38     | ♓ 24 00:25   | ♓ 31 08:32   | 14 11:19    | 22 20:27    | ♓ 1 07:11   |
| 17 12:20     | 27 01:41     | 6 08:53     | ♓ 16 21:58   | ♓ 28 11:29   | ♓ 5 18:57   | 18 07:09     | ♓ 26 00:25   | Dec. -1697j  | 16 12:48    | 24 05:03    | ♓ 3 06:47   |
| 19 20:50     | 29 10:35     | 8 15:49     | ♓ 19 05:19   | ♓ 30 19:00   | ♓ 8 00:22   | 20 12:26     | ♓ 28 00:25   | ♓ 1 00:25    | 18 17:17    | 26 05:03    | ♓ 5 07:29   |
| 22 07:27     | Oct. -1700j  | 11 01:02    | ♓ 21 14:56   | May -1698j   | 10 07:58    | 22 20:33     | ♓ 30 00:25   | ♓ 4 00:29    | 20 01:43    | 28 05:03    | ♓ 7 11:03   |
| 24 19:35     | 1 21:33      | 13 12:25    | ♓ 24 02:40   | 3 04:52      | 12 18:16    | 25 07:42     | Dec. -1697j  | ♓ 6 01:56    | 22 02:09    | 30 05:08    | ♓ 9 18:26   |
| 27 08:29     | 4 10:11      | 16 01:10    | ♓ 26 15:26   | 5 16:44      | 15 06:39    | 27 20:28     | ♓ 2 09:39    | ♓ 8 05:23    | 24 12:34    | 1 15:39     | ♓ 10 17:38  |
| 29 20:45     | 6 23:16      | 18 13:37    | ♓ 29 03:10   | 8 05:11      | 17 19:03    | 30 08:13     | ♓ 4 21:54    | ♓ 10 12:21   | 26 02:09    | 3 15:39     | ♓ 12 05:16  |
| Apr. -1700j  | 9 10:42      | 20 23:40    | Nov. -1699j  | 10 16:04     | ♓ 20 04:56  | June -1697j  | ♓ 7 10:44    | ♓ 12 23:02   | 28 13:41    | 5 15:39     | ♓ 14 17:54  |
| 1 06:24      | 11 18:34     | 23 06:02    | 1 18:14      | ♓ 22 23:40   | ♓ 22 11:10  | 1 16:55      | ♓ 9 21:28    | ♓ 15 11:47   | 30 23:01    | 7 15:39     | ♓ 16 06:27  |
| 3 12:08      | 13 22:20     | 25 08:51    | 4 18:40      | ♓ 24 14:15   | ♓ 24 14:15  | 3 22:16      | ♓ 12 04:59   | ♓ 17 23:55   | Jan. -1695j | 9 10:27     | ♓ 17 17:38  |
| 5 14:06      | 15 23:03     | 27 09:26    | 6 19:02      | ♓ 26 15:46   | ♓ 26 15:46  | 6 01:21      | ♓ 14 09:53   | ♓ 19 05:24   | 2 06:16     | 12 12:23    | ♓ 19 22:46  |
| 7 13:48      | 17 22:33     | 29 09:29    | 8 19:41      | ♓ 28 17:24   | ♓ 28 17:24  | 8 03:38      | ♓ 16 13:21   | ♓ 21 01:43   | 4 11:45     | 14 19:42    | ♓ 21 02:46  |
| 9 13:17      | 19 22:48     | May -1699j  | 10 22:12     | ♓ 30 20:21   | ♓ 30 20:21  | 10 06:15     | ♓ 18 16:25   | ♓ 23 02:01   | 6 15:41     | 16 03:46    | ♓ 23 13:54  |
| 11 14:28     | 22 01:24     | 1 10:44     | 12 13:04     | Dec. -1698j  | 1 11:48     | 12 09:44     | ♓ 20 19:35   | ♓ 25 05:24   | 8 18:19     | 18 03:46    | ♓ 25 05:15  |
| 13 18:46     | 24 07:16     | 3 14:30     | ♓ 14 16:39   | ♓ 25 17:33   | ♓ 3 01:07   | 14 14:20     | ♓ 22 23:04   | July -1696j  | 10 20:17    | 20 05:15    | ♓ 27 09:00  |
| 16 02:34     | 26 16:19     | 5 21:22     | ♓ 16 21:58   | ♓ 28 01:52   | ♓ 5 07:38   | 16 20:27     | ♓ 24 23:04   | ♓ 1 07:55    | 12 22:46    | 22 02:46    | Feb. -1694j |
| 18 13:15     | 29 03:46     | 8 07:06     | ♓ 17 21:52   | ♓ 30 12:07   | 7 15:56     | 19 04:44     | ♓ 26 20:27   | ♓ 3 10:34    | 14 11:19    | 24 05:03    | ♓ 1 18:18   |
| 21 01:37     | 31 16:33     | 10 18:53    | ♓ 20 09:47   | June -1698j  | 10 02:14    | 21 04:44     | ♓ 28 00:25   | ♓ 5 14:36    | 16 12:48    | 26 05:03    | ♓ 3 06:47   |
| 23 14:30     | Nov. -1700j  | 13 07:41    | ♓ 22 23:40   | 1 23:58      | 12 18:16    | 23 04:20     | ♓ 30 08:13   | ♓ 7 21:18    | 18 17:17    | 28 05:03    | ♓ 5 07:29   |
| 26 02:41     | 3 05:33      | 15 20:17    | ♓ 25 10:49   | 4 12:36      | 15 03:17    | 26 16:41     | ♓ 1 00:25    | ♓ 9 21:28    | 20 01:43    | 30 05:08    | ♓ 7 11:03   |
| 28 12:55     | 5 17:25      | 18 07:09    | ♓ 27 09:26   | 7 00:18      | 17 14:19    | 29 02:05     | ♓ 3 19:06    | ♓ 12 04:59   | 22 02:09    | 1 15:39     | ♓ 9 18:26   |
| 30 19:58     | 8 02:39      | 20 14:56    | ♓ 29 09:29   | 9 09:03      | 19 21:31    | Oct. -1697j  | 6 06:32      | ♓ 14 09:53   | 24 12:34    | 3 15:39     | ♓ 10 17:38  |
| May -1700j   | 10 08:15     | 22 19:02    | Dec. -1699j  | 11 13:49     | 22 00:41    | 1 07:34      | 7 10:44      | ♓ 16 13:21   | 26 02:09    | 5 15:39     | ♓ 12 05:16  |
| 2 23:32      | 12 10:21     | 24 20:04    | 1 05:55      | 13 15:12     | 24 01:14    | 3 09:55      | ♓ 9 21:28    | ♓ 18 16:25   | 28 13:41    | 7 15:39     | ♓ 14 17:54  |
| 5 00:21      | 14 10:10     | 26 19:34    | 6 05:07      | 15 14:55     | 26 01:12    | 5 10:54      | ♓ 12 04:59   | ♓ 20 19:35   | 30 23:01    | 9 10:27     | ♓ 16 06:27  |
| 6 23:59      | 16 09:31     | 28 19:26    | 8 05:44      | 17 15:03     | 28 02:33    | 7 12:14      | ♓ 14 09:53   | ♓ 22 23:04   | Jan. -1695j | 11 12:23    | ♓ 17 17:38  |
| 9 00:19      | 18 10:22     | 30 21:36    | 10 09:31     | 19 17:26     | 30 06:30    | 9 15:07      | ♓ 16 13:21   | ♓ 24 22:15   | 2 06:16     | 14 19:42    | ♓ 19 22:46  |
| 11 03:06     | 20 14:25     | June -1699j | 12 17:06     | 21 23:01     | Jan. -1697j | 11 20:01     | ♓ 18 16:25   | ♓ 26 10:46   | 4 11:45     | 16 03:46    | ♓ 21 02:46  |
| 13 09:29     | 22 22:25     | 2 03:22     | 15 13:45     | 23 07:37     | 1 13:15     | 14 02:55     | ♓ 20 19:35   | ♓ 28 13:41   | 6 15:41     | 18 03:46    | ♓ 23 13:54  |
| 15 19:29     | 25 09:46     | 4 12:50     | 17 16:02     | 26 18:23     | 3 22:17     | 16 11:51     | ♓ 22 23:04   | ♓ 30 08:13   | 8 18:19     | 20 05:15    | ♓ 25 05:15  |
| 18 07:48     | 27 22:44     | 7 00:50     | 20 04:45     | 29 06:25     | 6 09:06     | 18 22:53     | ♓ 24 02:36   | ♓ 31 08:32   | 10 20:17    | 22 02:46    | Feb. -1694j |
| 20 20:40     | 30 11:36     | 9 13:44     | 22 17:03     | July -1698j  | 8 21:22     | 21 11:36     | ♓ 26 16:41   | ♓ 3 10:34    | 12 22:46    | 24 05:03    | ♓ 3 06:47   |
| 23 08:32     | Dec. -1700j  | 12 02:12    | ♓ 25 03:55   | 1 19:04      | 10 10:19    | 24 00:25     | ♓ 28 17:24   | ♓ 5 14:36    | 14 11:19    | 26 05:03    | ♓ 5 07:29   |
| 25 18:30     | 2 23:10      | 14 13:16    | ♓ 27 12:01   | 4 07:14      | 13 22:13    | 26 10:57     | ♓ 30 08:13   | ♓ 7 21:18    | 16 12:48    | 28 05:03    | ♓ 7 11:03   |
| 28 01:59     | 5 08:43      | 16 22:01    | ♓ 29 16:23   | 6 17:12      | 16 06:57    | 28 17:30     | ♓ 1 00:25    | ♓ 9 21:28    | 18 17:17    | 30 05:08    | ♓ 9 18:26   |
| 30 06:50     | 7 15:39      | 19 03:41    | ♓            |              |             |              |              |              |             |             |             |

with clock times in UT/GMT. The year -1694 astronomical counting style corresponds to year 1695 B.C.E historical counting style.

|              |              |              |              |              |              |              |              |              |              |              |              |
|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| May -1694j   | Nov. -1694j  | May -1693j   | Dec. -1693j  | June -1692j  | Dec. -1692j  | July -1691j  | Jan. -1690j  | July -1690j  | Feb. -1689j  | Aug. -1689j  | Feb. -1688j  |
| 1 13:19      | II 11 02:52  | 23 16:41     | 3 06:34      | 13 20:08     | 24 10:03     | 1 00:07      | 10 13:26     | 23 03:07     | 1 17:58      | 14 08:12     | 23 23:15     |
| 4 00:36      | III 13 14:48 | 26 05:09     | 5 19:09      | 16 08:34     | 26 22:34     | 3 11:07      | 13 01:35     | 25 15:53     | 4 06:46      | 16 20:49     | 26 12:08     |
| 6 13:27      | IV 16 03:50  | 28 17:37     | 8 06:57      | 18 19:37     | 29 09:09     | 5 23:54      | 15 14:38     | 28 04:23     | 6 18:59      | 19 08:59     | 29 00:27     |
| 9 01:53      | V 18 15:21   | 31 03:39     | 10 16:01     | 21 03:52     | 31 16:47     | 8 12:00      | 18 02:12     | 30 15:17     | 9 05:51      | 21 19:55     |              |
| 11 11:29     | VI 20 23:15  | 23 15:19     | 12 21:52     | 23 09:18     |              | 10 21:44     | 20 11:21     |              | 11 14:57     | 24 04:34     | March -1688j |
| 13 16:58     | 23 03:19     | June -1693j  | 15 01:14     | 25 12:42     | Jan. -1691j  | 13 04:49     | 22 18:19     | Aug. -1690j  | 13 21:46     | 26 10:04     | 2 10:59      |
| 15 18:55     | 25 04:48     | 2 10:12      | 17 03:22     | 27 15:12     | 2 21:51      | 15 09:53     | 24 23:35     | 2 00:17      | 16 01:51     | 28 12:19     | 4 18:31      |
| 17 19:05     | 27 05:31     | 4 13:43      | 19 05:31     | 29 17:44     | 5 01:22      | 17 13:38     | 27 03:26     | 4 07:22      | 18 03:26     | 30 12:25     | 6 22:31      |
| 19 19:27     | 29 07:04     | 6 15:33      | 21 08:34     |              | 7 04:16      | 19 16:34     | 29 05:58     | 6 12:22      | 20 03:40     |              | 8 23:34      |
| 21 21:37     |              | 8 17:05      | 23 13:06     | July -1692j  | 9 07:13      | 21 19:05     | 31 07:46     | 8 15:12      | 22 04:24     | Sept. -1689j | 10 23:11     |
| 24 02:24     | Dec. -1694j  | 10 19:28     | 25 19:28     | 1 21:02      | 11 10:39     | 23 21:53     |              | 10 16:21     | 24 07:35     | 1 12:11      | 12 23:16     |
| 26 09:52     | 1 10:30      | 12 23:26     | 28 03:59     | 4 01:38      | 13 15:08     | 26 02:05     | Feb. -1690j  | 12 17:11     | 26 14:33     | 3 13:39      | 15 01:39     |
| 28 19:36     | 3 16:11      | 15 05:23     | 30 14:46     | 6 08:06      | 15 21:30     | 28 08:59     | 2 10:01      | 14 19:34     |              | 5 18:28      | 17 07:36     |
| 31 07:12     | 6 00:05      | 17 13:37     |              | 8 16:55      | 18 06:33     | 30 19:13     | 4 14:21      | 17 01:14     | March -1689j | 8 03:09      | 19 17:17     |
|              | 8 10:09      | 20 00:11     | Jan. -1692j  | 11 04:08     | 20 18:15     |              | 6 22:10      | 19 10:50     | 1 01:10      | 10 14:47     | 22 05:29     |
| June -1694j  | 10 22:08     | 22 12:36     | 2 03:09      | 13 16:41     | 23 06:59     | Aug. -1691j  | 9 09:30      | 21 23:11     | 3 13:44      | 12 03:25     | 24 18:23     |
| 2 20:04      | 13 11:10     | 25 01:21     | 4 15:29      | 16 04:21     | 25 18:07     | 2 07:49      | 11 22:25     | 24 11:45     | 6 01:57      | 15 15:22     | 27 06:24     |
| 5 08:53      | 15 23:24     | 27 12:21     | 7 01:35      | 18 13:08     | 28 01:51     | 4 20:12      | 14 10:10     | 26 22:28     | 8 12:25      | 18 01:43     | 29 16:33     |
| 7 19:33      | 18 08:43     | 29 19:55     | 9 08:05      | 20 18:18     | 30 06:10     | 7 05:59      | 16 19:03     | 29 06:44     | 10 20:47     | 20 10:03     |              |
| 10 02:26     | 20 14:01     |              | 11 11:08     | 22 20:40     |              | 9 12:28      | 19 01:08     | 31 12:59     | 13 03:10     | 22 16:06     | Apr. -1688j  |
| 12 05:21     | 22 15:50     | July -1693j  | 13 11:59     | 24 21:47     | Feb. -1691j  | 11 16:25     | 21 05:23     |              | 15 07:40     | 24 19:49     | 1 00:19      |
| 14 05:32     | 24 15:44     | 1 23:47      | 15 12:29     | 26 23:18     | 1 08:20      | 13 19:13     | 23 08:46     | Sept. -1690j | 17 10:29     | 26 21:38     | 3 05:27      |
| 16 04:56     | 26 15:38     | 4 00:59      | 17 14:17     | 29 02:27     | 3 10:02      | 15 21:58     | 25 11:49     | 2 17:46      | 19 12:15     | 28 22:38     | 5 08:08      |
| 18 05:31     | 28 17:17     | 6 01:09      | 19 18:31     | 31 07:44     | 5 12:34      | 18 01:13     | 27 14:50     | 4 21:19      | 21 14:05     |              | 7 09:10      |
| 20 08:49     | 30 21:52     | 8 02:01      | 22 01:29     |              | 7 16:34      | 20 05:13     |              | 6 23:52      | 23 17:29     | Oct. -1689j  | 9 09:50      |
| 22 15:31     |              | 10 05:00     | 24 10:50     | Aug. -1692j  | 9 22:08      | 22 10:23     | March -1690j | 9 02:07      | 25 23:45     | 1 00:18      | 11 11:46     |
| 25 01:17     | Jan. -1693j  | 12 10:54     | 26 21:58     | 2 15:07      | 12 05:23     | 24 17:33     | 1 18:22      | 11 05:14     | 28 09:23     | 3 04:17      | 13 16:30     |
| 27 13:12     | 2 05:42      | 14 19:41     | 29 10:19     | 5 00:26      | 14 14:38     | 27 03:28     | 3 23:23      | 13 10:42     | 30 21:26     | 5 11:40      | 16 00:54     |
| 30 02:08     | 4 16:17      | 17 06:46     | 31 22:52     | 7 11:38      | 17 02:06     | 29 15:50     | 6 07:02      | 15 19:29     |              | 7 22:25      | 18 12:31     |
|              | 7 04:37      | 19 19:16     |              | 10 00:12     | 19 14:56     |              | 8 17:46      | 18 07:15     | Apr. -1689j  | 10 10:57     | 21 01:21     |
| July -1694j  | 9 17:37      | 22 08:08     | Feb. -1692j  | 12 12:36     | 22 02:51     | Sept. -1691j | 11 06:28     | 20 19:55     | 2 09:46      | 12 22:59     | 23 13:13     |
| 2 14:54      | 12 05:59     | 24 19:52     | 3 09:59      | 14 22:32     | 24 11:31     | 3 15:13      | 13 18:38     | 23 06:59     | 4 20:17      | 15 08:55     | 25 22:46     |
| 5 02:05      | 14 16:18     | 27 04:49     | 5 17:56      | 17 04:31     | 26 16:07     | 5 21:56      | 16 03:57     | 25 15:06     | 7 04:08      | 17 16:19     | 28 05:52     |
| 7 10:17      | 16 23:16     | 29 10:02     | 7 21:54      | 19 06:45     | 28 17:37     | 8 01:15      | 18 09:49     | 27 20:26     | 9 09:31      | 19 21:35     | 30 10:55     |
| 9 14:49      | 19 02:37     | 31 11:47     | 9 22:41      | 21 06:48     |              | 10 02:43     | 20 13:05     | 29 23:57     | 11 13:11     | 22 01:22     |              |
| 11 16:10     | 21 03:10     |              | 11 22:02     | 23 06:44     | March -1691j | 12 04:05     | 22 15:10     |              | 13 15:57     | 24 04:15     | May -1688j   |
| 13 15:47     | 23 02:30     | Aug. -1693j  | 13 22:07     | 25 08:28     | 2 17:55      | 14 06:36     | 24 17:19     | Oct. -1690j  | 15 18:33     | 26 06:49     | 2 14:25      |
| 15 15:32     | 25 02:38     | 2 11:25      | 16 00:47     | 27 13:10     | 4 18:57      | 16 10:50     | 26 20:18     | 2 02:43      | 17 21:40     | 28 09:48     | 4 16:52      |
| 17 17:18     | 27 05:23     | 4 10:54      | 18 07:02     | 29 20:50     | 6 22:02      | 18 16:54     | 29 00:37     | 4 05:27      | 20 02:05     | 30 14:10     | 6 18:53      |
| 19 22:27     | 29 11:56     | 6 12:13      | 20 16:34     |              | 9 03:39      | 21 00:54     | 31 06:39     | 6 08:44      | 22 08:38     |              | 8 21:29      |
| 22 07:24     | 31 22:11     | 8 16:53      | 23 04:10     | Sept. -1692j | 11 11:35     | 23 11:05     | Apr. -1690j  | 8 13:08      | 24 17:52     | Nov. -1689j  | 10 11:58     |
| 24 19:14     |              | 11 01:19     | 25 16:39     | 1 06:46      | 13 21:28     | 15 23:20     | 2 14:54      | 10 19:23     | 27 05:28     | 1 21:01      | 13 09:30     |
| 27 08:14     | Feb. -1693j  | 13 12:40     | 28 05:10     | 3 18:18      | 16 09:07     | 18 21:56     | 5 01:37      | 13 04:09     | 29 17:55     | 4 06:54      | 15 20:20     |
| 3 20:45      | 3 10:44      | 16 01:23     |              | 6 06:52      | 18 21:56     | 21 10:25     | 7 14:11      | 15 15:29     |              | 6 19:08      | 18 09:02     |
|              | 5 23:45      | 18 14:10     | March -1692j | 8 19:35      | 23 20:18     | 24 10:25     | 10 02:44     | 18 04:10     | May -1689j   | 9 07:33      | 21 01:03     |
| Aug. -1694j  | 8 11:52      | 21 02:01     | 1 16:44      | 11 06:41     | 26 02:08     | 28 04:09     | 12 12:59     | 20 15:59     | 2 04:57      | 11 17:46     | 23 06:24     |
| 1 07:42      | 10 22:14     | 23 11:56     | 4 01:56      | 13 14:15     | 28 03:58     | 30 03:58     | 14 19:33     | 23 00:51     | 4 12:58      | 14 00:41     | 25 12:41     |
| 3 16:21      | 13 06:11     | 25 18:48     | 6 07:32      | 15 17:38     |              |              | 16 22:43     | 25 06:09     | 6 17:45      | 16 04:45     | 27 16:45     |
| 5 22:12      | 15 11:13     | 27 22:09     | 8 09:28      | 17 17:47     | Apr. -1691j  | 1 03:38      | 18 23:48     | 27 08:40     | 8 20:14      | 18 07:16     | 29 19:47     |
| 8 01:17      | 17 13:23     | 29 22:36     | 10 08:58     | 19 16:46     | 1 03:38      | 3 05:05      | 20 00:27     | 29 09:52     | 10 21:50     | 20 09:36     | 31 22:38     |
| 10 02:15     | 19 13:35     | 31 21:46     | 12 08:09     | 21 16:50     | 3 05:05      | 5 09:30      | 22 02:11     | 31 11:16     | 12 23:56     | 22 12:39     |              |
| 12 02:25     | 21 13:27     |              | 14 09:13     | 23 19:50     | 5 09:30      | 7 17:07      | 23 02:11     |              | 15 03:26     | 24 16:51     | June -1688j  |
| 14 03:31     | 23 14:57     | Sept. -1693j | 16 13:52     | 26 02:33     | 7 17:07      | 10 03:21     | 25 06:02     | Nov. -1690j  | 17 08:49     | 26 22:25     | 3 01:45      |
| 16 07:17     | 25 19:54     | 2 21:47      | 18 22:31     | 28 12:29     | 10 03:21     | 13 15:19     | 27 12:27     | 2 14:06      | 19 16:12     | 29 05:44     | 5 05:33      |
| 18 14:52     | 28 04:59     | 5 00:43      | 21 10:03     |              | 13 15:19     | 15 04:10     | 29 21:25     | 4 19:04      | 22 01:42     |              | 7 10:40      |
| 21 02:02     |              | 7 07:50      | 23 22:40     | Oct. -1692j  | 15 04:10     | 17 16:45     |              | 7 02:19      | 24 13:09     | Dec. -1689j  | 9 18:06      |
| 23 14:59     | March -1693j | 9 18:44      | 26 11:04     | 1 00:20      | 17 16:45     | 20 03:25     | May -1690j   | 9 11:46      | 27 01:41     | 1 15:22      | 12 04:27     |
| 26 03:22     | 2 17:12      | 12 07:31     | 28 22:28     | 3 12:58      | 22 10:43     | 22 10:43     | 2 08:33      | 11 23:08     | 29 13:28     | 4 03:17      | 14 16:59     |
| 28 13:45     | 5 06:14      | 14 20:13     | 31 08:05     | 6 01:34      | 24 14:10     | 26 14:41     | 4 21:08      | 14 11:45     | 31 22:22     | 6 16:04      | 17 05:25     |
| 30 21:49     | 7 18:05      | 17 07:43     |              | 8 13:04      | 26 14:41     | 28 14:04     | 7 09:53      | 17 00:10     |              | 9 03:11      | 19 15:11     |
|              | 10 03:56     | 19 17:34     | Apr. -1692j  | 10 21:59     | 28 14:04     | 30 14:17     | 9 20:59      | 19 10:20     | June -1689j  | 11 10:41     | 21 21:16     |
| Sept. -1694j | 12 11:43     | 22 01:18     | 2 14:58      | 13 03:12     | 30 14:17     |              | 12 04:52     | 21 16:49     | 3 03:28      | 13 14:22     | 24 00:24     |
| 1 2 03:49    | 14 17:27     | 24 06:20     | 4 18:32      | 15 04:50     | May -1691j   | 1 22:22      | 14 08:59     | 23 19:34     | 5 05:22      | 15 15:36     | 26 02:11     |
| 4 07:59      | 16 21:06     | 26 08:32     | 6 19:19      | 17 04:17     | 1 22:22      | 3 00:15      | 16 10:06     | 25 19:50     | 7 05:41      | 17 16:19     | 28 04:08     |
| 6 10:37      | 18 22:53     | 28 08:45     | 8 18:53      | 19 03:38     | 3 00:15      | 5 23:56      | 18 09:49     | 27 19:33     | 9 06:21      | 19 18:12     | 30 07:12     |
| 8 12:14      | 20 23:43     | 30 08:45     | 10 19:18     | 21 05:00     | 5 23:56      | 7 23:22      | 20 10:01     | 29 20:39     | 11 08:58     | 21 22:15     |              |
| 10 13:55     | 22 01:14     |              | 12 22:34     | 23 09:57     | 7 23:22      | 10 00:28     | 22 12:23     |              | 13 14:20     | 24 04:32     | July -1688j  |
| 12 17:15     | 24 05:14     | Oct. -1693j  | 15 05:47     | 25 18:48     | 10 00:28     | 12 04:42     | 24 18:04     | Dec. -1690j  | 15 15:20     | 26 12:48     | 2 11:44      |
| 14 23:43     | 27 13:05     | 2 10:37      | 17 16:33     | 28 06:29     | 12 04:42     | 14 12:36     | 27 03:06     | 2 00:36      | 18 08:25     | 28 22:52     | 4 17:49      |
| 17 09:55     | 30 00:30     | 4 16:11      | 20 05:04     | 30 19:13     | 14 12:36     | 16 23:35     | 29 14:38     | 4 07:54      | 20 20:02     | 31 10:42     | 7 01:50      |
| 19 22:35     |              | 7 01:53      | 22 17:24     |              | 16 23:35     | 19 12:17     |              | 6 17:59      | 23 08:37     |              | 9 12:12      |
| 22 11:07     | Apr. -1693j  | 9 14:20      | 25 04:24     | Nov. -1692j  | 19 12:17     | 22 01:18     | June -1690j  | 9 05:47      | 25 20:55     | Jan. -1688j  | 12 00:37     |
| 24 21:16     | 1 13:26      | 12 03:03     | 27 13:36     | 2 07:35      | 22 01:18     | 24 13:28     | 1 03:22      | 11 18:24     | 27 07:02     | 2 23:37      | 14 13:29     |
| 27 04:30     | 4 01:16      | 14 14:13     | 29 20:40     | 4 18:41      | 24 13:28     | 26 23:37     | 3 16:06      | 14 06:57     | 30 13:22     | 5 11:41      | 17 00:11     |
| 29 09:31     | 6 10:39      | 16 23:22     |              | 7 03:49      | 26 23:37     | 29 06:46     | 6 03:37      | 16 18:07     |              | 7 20:32      | 19 06:59     |
|              | 8 17:37      | 19 06:41     | May -1692j   | 9 10:15      | 29 06:46     |              | 8 12:40      | 19 02:15     | July -1689j  | 10 01:07     | 22 10:01     |
| Oct. -1694j  | 10 22:51     | 21 12:13     | 2 01:18      | 11 13:43     |              |              | 10 18:19     | 21 06:30     | 2 15:46      | 12 02:13     | 23 10:49     |
| 1 13:20      | 13 02:48     | 23 15:50     | 4 03:38      | 13 14:49     | Dec. -1691j  | 1 10:30      | 12 20:35     | 23 07:20     | 4 15:36      | 14 01:46     | 25 11:18     |
| 3 16:37      | 15 05:43     | 25 17:47     | 6 04:31      | 15 14:58     | 1 10:30      | 3 11:26      | 14 20:31     | 25 06:23     | 6 14:58      | 16 01:54     | 27 13:06     |
| 5 19:37      | 17 07:57     | 27 19:01     | 8 05:30      | 17 15:56     | 3 11:26      | 5 10:56      | 16 19:53     | 27 05:53     | 8 16:00      | 18 04:22     | 29 17:08     |
| 7 22:43      | 19 10:27     | 29 21:10     | 10 08:20     | 19           |              |              |              |              |              |              |              |

with clock times in UT/GMT. The year -1688 astronomical counting style corresponds to year 1689 B.C.E historical counting style.

|              |              |              |              |              |              |              |              |              |              |              |              |
|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Sept. -1688j | March -1687j | Sept. -1687j | Apr. -1686j  | Oct. -1686j  | Apr. -1685j  | Nov. -1685j  | May -1684j   | Nov. -1684j  | June -1683j  | Dec. -1683j  | June -1682j  |
| 2 01:13      | 14 16:34     | 24 07:08     | 3 10:06      | 13 23:45     | 25 13:45     | 2 15:55      | 14 05:30     | 23 19:04     | 2 21:22      | 13 10:31     | 25 00:02     |
| 4 13:51      | 17 05:27     | 26 19:52     | 5 21:59      | 16 11:50     | 28 02:22     | 5 03:28      | 16 17:47     | 26 07:38     | 5 08:47      | 15 22:40     | 27 12:47     |
| 7 02:50      | 19 18:13     | 29 08:13     | 8 10:38      | 19 00:36     | 30 14:52     | 7 16:28      | 19 06:19     | 28 19:37     | 7 21:16      | 18 11:19     | 30 01:12     |
| 9 14:49      | 22 05:23     |              | 10 22:30     | 21 11:47     |              | 10 04:08     | 21 16:41     |              | 10 08:36     | 20 22:22     |              |
| 12 00:14     | 24 13:33     | Oct. -1687j  | 13 07:38     | 23 19:18     | May -1685j   | 12 12:22     | 23 23:45     | Dec. -1684j  | 12 17:33     | 23 06:55     | July -1682j  |
| 14 06:03     | 26 18:02     | 1 18:26      | 15 12:51     | 25 22:45     | 3 00:42      | 14 16:57     | 26 04:03     | 1 05:05      | 14 23:58     | 25 13:06     | 2 11:42      |
| 16 08:20     | 28 19:19     | 4 01:05      | 17 14:30     | 27 23:26     | 5 06:34      | 16 19:10     | 28 06:45     | 3 11:40      | 17 04:24     | 27 17:31     | 4 19:49      |
| 18 08:17     | 30 18:50     | 6 03:56      | 19 14:10     | 29 23:21     | 7 09:02      | 18 20:42     | 30 09:02     | 5 16:02      | 19 07:34     | 29 20:44     | 7 01:46      |
| 20 07:42     |              | 8 04:05      | 21 13:58     |              | 9 09:49      | 20 22:55     |              | 7 19:10      | 21 10:08     | 31 23:18     | 9 05:55      |
| 22 08:33     | Apr. -1687j  | 10 03:22     | 23 15:49     | Nov. -1686j  | 11 10:46     | 23 02:30     | June -1684j  | 9 21:55      | 23 12:49     |              | 11 08:37     |
| 24 12:27     | 1 18:29      | 12 03:54     | 25 20:57     | 1 00:31      | 13 13:17     | 25 07:43     | 1 11:44      | 12 00:52     | 25 16:26     | Jan. -1682j  | 13 10:26     |
| 26 20:11     | 3 20:13      | 14 07:26     | 28 05:21     | 3 04:17      | 15 17:59     | 27 14:44     | 3 15:22      | 14 04:37     | 27 21:54     | 3 01:50      | 15 12:19     |
| 29 07:15     | 6 01:27      | 16 14:43     | 30 16:10     | 5 10:55      | 18 00:53     | 29 23:52     | 5 20:29      | 16 09:54     | 30 06:01     | 5 05:17      | 17 15:43     |
|              | 8 10:32      | 19 01:11     |              | 7 19:55      | 20 09:50     |              | 8 03:42      | 18 17:26     |              | 7 10:47      | 19 22:01     |
| Oct. -1688j  | 10 22:26     | 21 13:25     | May -1686j   | 10 06:39     | 22 20:49     | Dec. -1685j  | 10 13:29     | 21 03:38     | July -1683j  | 9 19:19      | 22 07:54     |
| 1 20:04      | 13 11:28     | 24 02:09     | 3 04:18      | 12 18:46     | 25 09:26     | 2 11:18      | 13 01:33     | 23 15:52     | 2 16:53      | 12 06:47     | 24 20:21     |
| 4 08:55      | 16 00:06     | 26 14:27     | 5 16:58      | 15 07:38     | 27 22:20     | 5 00:15      | 15 14:20     | 26 04:14     | 5 05:18      | 14 19:30     | 27 08:54     |
| 6 20:35      | 18 11:19     | 29 01:22     | 8 05:11      | 17 19:40     | 30 09:14     | 7 12:39      | 18 01:27     | 28 14:29     | 7 17:05      | 16 06:54     | 30 19:15     |
| 9 06:15      | 20 20:17     | 31 09:36     | 10 15:25     | 20 04:43     |              | 9 22:05      | 20 09:14     | 30 21:19     | 10 02:14     | 19 15:15     |              |
| 11 13:18     | 23 02:17     |              | 12 22:07     | 22 09:33     | June -1685j  | 12 03:30     | 22 13:28     |              | 12 08:07     | 21 20:28     | Aug. -1682j  |
| 13 17:25     | 25 05:09     | Nov. -1687j  | 15 00:55     | 24 10:41     | 1 16:15      | 14 05:33     | 24 15:15     | Jan. -1683j  | 14 11:25     | 23 23:39     | 1 02:38      |
| 15 18:57     | 27 05:35     | 2 14:15      | 17 00:50     | 26 09:54     | 3 19:17      | 16 05:52     | 26 16:07     | 2 00:59      | 16 13:26     | 26 02:08     | 3 07:38      |
| 17 19:03     | 29 05:07     | 4 15:29      | 18 23:51     | 28 09:28     | 5 19:39      | 18 06:20     | 28 17:35     | 4 02:42      | 18 15:31     | 28 04:56     | 5 11:17      |
| 19 19:23     |              | 6 14:43      | 21 00:13     | 30 11:23     | 7 19:21      | 20 08:27     | 30 20:45     | 6 03:59      | 20 18:37     | 30 08:33     | 7 14:24      |
| 21 21:51     | May -1687j   | 8 14:05      | 23 03:45     |              | 9 20:17      | 22 13:09     |              | 8 06:15      | 22 23:15     |              | 9 17:23      |
| 24 03:59     | 1 05:45      | 10 15:49     | 25 11:13     | Dec. -1686j  | 11 23:48     | 24 20:34     | July -1684j  | 10 10:20     | 25 05:40     | Feb. -1682j  | 11 20:36     |
| 26 14:07     | 3 09:26      | 12 21:30     | 27 21:52     | 2 16:47      | 14 06:21     | 27 06:27     | 3 02:16      | 12 16:36     | 27 14:08     | 1 13:16      | 14 00:47     |
| 29 02:47     | 5 17:15      | 15 07:14     | 30 10:12     | 5 01:33      | 16 15:39     | 29 18:13     | 5 10:16      | 15 01:02     | 30 00:48     | 3 19:30      | 16 07:02     |
| 31 15:39     | 8 04:40      | 17 19:32     |              | 7 12:41      | 19 03:02     |              | 7 20:34      | 17 11:28     |              | 6 03:58      | 18 16:19     |
|              | 10 17:41     | 20 08:21     | June -1686j  | 10 10:02     | 21 15:46     | Jan. -1684j  | 10 08:41     | 19 23:32     | Aug. -1683j  | 8 14:59      | 20 04:24     |
| Nov. -1688j  | 13 06:09     | 22 20:22     | 1 22:51      | 12 13:48     | 24 04:45     | 1 07:08      | 12 21:34     | 22 12:08     | 1 13:11      | 11 03:40     | 23 17:14     |
| 3 02:52      | 15 16:59     | 25 07:02     | 4 10:57      | 15 01:57     | 26 16:21     | 3 19:48      | 15 09:28     | 24 23:21     | 4 01:32      | 13 15:42     | 26 04:03     |
| 5 11:53      | 18 01:49     | 27 15:51     | 6 21:34      | 17 12:02     | 29 00:47     | 6 06:23      | 17 18:30     | 27 07:22     | 6 11:36      | 16 00:41     | 28 11:19     |
| 7 18:49      | 20 08:29     | 29 22:01     | 9 05:29      | 19 18:37     |              | 8 13:24      | 19 23:45     | 29 11:32     | 8 17:54      | 18 05:48     | 30 15:26     |
| 9 23:52      | 22 12:46     |              | 11 09:54     | 21 21:23     | July -1685j  | 10 16:36     | 22 01:38     | 31 12:39     | 10 20:40     | 20 07:59     |              |
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| 14 04:52     | 26 15:18     | 2 01:08      | 15 10:34     | 25 20:37     | 3 06:23      | 14 16:27     | 26 01:30     | Feb. -1683j  | 14 21:59     | 24 10:38     | 1 17:48      |
| 16 16:07     | 28 16:01     | 4 01:45      | 17 10:21     | 27 21:06     | 5 15:01      | 16 16:49     | 28 03:09     | 2 12:31      | 17 00:08     | 26 13:55     | 3 19:56      |
| 18 08:23     | 30 18:51     | 6 01:26      | 19 12:32     | 30 00:39     | 7 05:35      | 18 19:47     | 30 07:50     | 4 13:05      | 19 04:44     | 28 19:12     | 5 22:48      |
| 20 13:25     |              | 8 02:19      | 21 18:29     |              | 9 07:26      | 21 02:19     |              | 6 16:01      | 21 11:50     |              | 8 02:48      |
| 22 22:17     | June -1687j  | 10 06:23     | 24 04:14     | Jan. -1685j  | 11 12:38     | 23 12:14     | Aug. -1684j  | 8 22:05      | 23 21:01     | March -1682j | 10 08:06     |
| 25 10:24     | 2 01:23      | 12 14:40     | 26 16:23     | 1 08:02      | 13 21:24     | 26 00:23     | 1 15:54      | 11 07:04     | 26 07:57     | 3 02:23      | 12 15:06     |
| 27 23:21     | 4 11:51      | 15 02:19     | 29 05:01     | 3 18:45      | 16 08:55     | 28 13:23     | 4 02:41      | 13 18:05     | 28 20:18     | 5 11:26      | 15 00:27     |
| 30 10:32     | 7 00:34      | 17 15:08     |              | 6 07:16      | 18 21:46     | 31 01:55     | 6 15:04      | 16 06:17     | 31 09:04     | 7 22:30      | 17 12:17     |
|              | 9 13:02      | 20 03:01     | July -1686j  | 8 19:58      | 21 10:38     |              | 9 03:56      | 18 18:54     |              | 10 11:09     | 20 01:20     |
| Dec. -1688j  | 11 23:28     | 22 13:07     | 1 16:49      | 11 07:45     | 23 22:15     | Feb. -1684j  | 11 16:09     | 21 06:44     | Sept. -1683j | 12 12:34     | 22 13:04     |
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| 5 00:48      | 16 13:52     | 27 03:40     | 6 11:14      | 16 01:12     | 28 13:30     | 4 21:11      | 16 09:12     | 25 21:43     | 5 03:55      | 17 15:50     | 27 01:24     |
| 7 05:13      | 18 18:31     | 29 07:57     | 8 16:45      | 18 05:39     | 30 16:16     | 7 02:08      | 18 12:22     | 27 23:35     | 7 07:23      | 19 18:06     | 29 02:52     |
| 9 08:50      | 20 21:41     |              | 10 19:34     | 20 07:25     |              | 9 03:57      | 20 12:38     |              | 9 07:44      | 21 18:15     |              |
| 11 11:53     | 22 23:41     | Jan. -1686j  | 12 20:26     | 22 07:42     | Aug. -1685j  | 11 03:45     | 22 11:45     | March -1683j | 11 07:02     | 23 18:21     | Oct. -1682j  |
| 13 14:40     | 25 01:28     | 2 11:27      | 14 20:50     | 24 08:08     | 1 16:43      | 13 03:21     | 24 11:50     | 4 13:05      | 13 07:26     | 25 20:09     | 1 03:27      |
| 15 17:58     | 27 04:31     | 4 12:56      | 16 22:37     | 26 10:33     | 3 16:24      | 15 04:43     | 26 14:50     | 3 22:22      | 15 10:40     | 28 00:40     | 3 04:52      |
| 17 23:05     | 29 10:26     | 6 16:32      | 19 03:24     | 28 16:21     | 5 17:11      | 17 09:34     | 28 21:52     | 5 23:33      | 17 17:19     | 30 07:59     | 5 08:11      |
| 20 07:15     |              | 8 23:35      | 21 11:55     | 31 01:54     | 7 20:47      | 19 18:30     | 31 08:30     | 8 04:14      | 20 02:51     |              | 7 13:47      |
| 22 18:39     | July -1687j  | 8 23:35      | 23 23:26     |              | 10 04:14     | 22 06:31     |              | 10 12:43     | 22 14:14     | Apr. -1682j  | 9 21:37      |
| 25 07:36     | 1 10:12      | 11 10:12     | 26 12:02     | Feb. -1685j  | 12 15:59     | 24 19:36     | Sept. -1684j | 12 23:56     | 25 02:40     | 1 17:38      | 12 07:34     |
| 27 19:16     | 4 08:15      | 13 22:45     | 28 23:41     | 2 14:05      | 15 04:07     | 27 07:55     | 2 21:05      | 15 12:23     | 27 15:27     | 4 05:04      | 14 19:29     |
| 30 03:41     | 6 20:48      | 16 10:48     | 31 09:21     | 5 02:50      | 17 16:49     | 29 18:33     | 5 09:56      | 18 00:56     | 30 03:20     | 6 17:45      | 17 08:35     |
|              | 9 07:18      | 18 20:40     |              | 7 14:18      | 20 03:59     |              | 7 21:57      | 20 12:48     |              | 9 06:33      | 19 21:02     |
| Jan. -1687j  | 11 14:56     | 21 04:03     | Aug. -1686j  | 9 23:38      | 22 13:00     | March -1684j | 10 08:27     | 22 22:54     | Oct. -1683j  | 11 17:34     | 22 06:36     |
| 1 08:52      | 13 20:12     | 23 09:24     | 2 16:48      | 12 06:40     | 24 19:40     | 3 03:05      | 12 16:34     | 25 05:59     | 2 12:30      | 14 01:01     | 24 12:05     |
| 3 11:59      | 16 00:01     | 25 13:20     | 4 22:12      | 14 11:35     | 26 23:57     | 5 09:12      | 14 21:32     | 27 09:26     | 4 17:38      | 16 04:26     | 26 13:56     |
| 5 14:28      | 18 03:07     | 27 16:18     | 7 01:50      | 16 14:43     | 29 02:06     | 7 12:42      | 16 23:20     | 29 09:53     | 6 19:01      | 18 04:52     | 28 13:46     |
| 7 17:14      | 20 05:56     | 29 18:50     | 9 04:09      | 18 16:37     | 31 02:58     | 9 13:57      | 18 23:02     | 31 09:04     | 8 18:12      | 20 04:14     | 30 13:33     |
| 9 20:44      | 22 08:58     | 31 21:43     | 11 05:59     | 20 18:14     |              | 11 14:08     | 20 22:34     |              | 10 17:26     | 22 04:33     |              |
| 12 01:15     | 24 13:04     |              | 13 08:32     | 22 20:50     | Sept. -1685j | 13 15:01     | 23 00:07     | Apr. -1683j  | 12 18:51     | 24 07:28     | Nov. -1682j  |
| 14 07:20     | 26 19:18     | Feb. -1686j  | 15 13:05     | 25 01:51     | 2 03:53      | 15 18:35     | 25 05:29     | 2 09:11      | 14 23:53     | 26 13:48     | 1 15:03      |
| 16 15:44     | 29 04:28     | 3 02:03      | 17 20:42     | 27 10:15     | 4 06:37      | 18 02:07     | 27 15:04     | 4 12:16      | 17 08:41     | 28 23:19     | 3 19:30      |
| 19 02:49     | 31 16:18     | 5 08:53      | 20 07:25     |              | 6 12:42      | 20 13:24     | 30 03:27     | 6 19:22      | 20 08:09     |              | 6 03:12      |
| 22 03:58     |              | 7 18:45      | 22 19:53     | March -1685j | 8 22:39      | 23 02:22     |              | 9 06:00      | 22 20:45     | May -1682j   | 8 13:39      |
| 24 03:17     | Aug. -1687j  | 10 06:52     | 25 07:47     | 2 12:45      | 11 11:16     | 25 14:35     | Oct. -1684j  | 11 18:28     | 24 21:22     | 1 11:02      | 11 01:55     |
| 26 13:58     | 3 04:59      | 12 19:12     | 27 17:16     | 4 10:30      | 13 23:59     | 28 00:43     | 2 16:18      | 14 06:59     | 27 09:07     | 3 23:49      | 13 14:58     |
| 28 18:45     | 5 16:04      | 15 05:29     | 29 23:52     | 6 22:02      | 16 10:47     |              | 5 03:59      | 16 18:32     | 29 18:56     | 6 12:32      | 16 03:33     |
| 30 21:13     | 7 23:55      | 17 12:40     |              | 9 06:52      | 18 19:00     | Apr. -1684j  | 7 13:59      | 19 04:31     |              | 8 23:51      | 18 14:09     |
|              | 10 04:36     | 19 17:03     | Sept. -1686j | 11 12:57     | 21 01:04     | 1 14:42      | 9 22:10      | 21 12:15     | Nov. -1683j  | 11 08:23     | 20 21:22     |
| Feb. -1687j  | 12 07:12     | 21 19:40     | 1 04:11      | 13 17:05     | 23 05:36     | 3 19:03      | 12 04:12     | 23 17:05     | 1 01:40      | 13 13:23     | 23 00:52     |
| 1 22:16      | 14 09:04     | 23 21:46     | 3 07:12      | 15 20:14     | 25 08:58     | 5 21:46      | 14 07:44     | 25 19:07     | 3 04:55      | 15 15:08     | 25 01:26     |
| 3 23:31      | 16 11:18     | 26 00:21     | 5 09:52      | 17 23:03     | 27 11:26     | 7 23:21      | 16 09:06     | 27 19:22     | 5 05:27      | 17 14:58     | 27 00:43     |
| 6 02:09      | 18 14:43     | 28 04:08     | 7 12:52      | 20 02:01     |              |              |              |              |              |              |              |

with clock times in UT/GMT. The year -1681 astronomical counting style corresponds to year 1682 B.C.E historical counting style.

|              |              |              |              |              |              |              |              |              |             |             |              |
|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|-------------|--------------|
| Jan. -1681j  | July -1681j  | Jan. -1680j  | Aug. -1680j  | Feb. -1679j  | Aug. -1679j  | March -1678j | Sept. -1678j | March -1677j | Oct. -1677j | Apr. -1676j | Oct. -1676j  |
| ♌ 2 02:31    | ♌ 14 16:31   | ♌ 24 07:32   | ♌ 2 10:14    | ♌ 12 01:01   | ♌ 24 15:10   | ♌ 1 10:19    | ♌ 10 23:56   | ♌ 23 14:15   | ♌ 3 03:21   | ♌ 13 16:33  | ♌ 24 04:47   |
| ♌ 4 14:35    | ♌ 17 05:11   | ♌ 26 20:17   | ♌ 4 21:57    | ♌ 14 12:59   | ♌ 27 03:25   | ♌ 3 19:13    | ♌ 13 09:12   | ♌ 25 23:46   | ♌ 5 12:54   | ♌ 16 02:41  | ♌ 26 15:58   |
| ♌ 7 03:42    | ♌ 19 17:55   | ♌ 29 08:47   | ♌ 7 10:30    | ♌ 17 01:49   | ♌ 29 16:29   | ♌ 6 06:18    | ♌ 15 20:29   | ♌ 28 11:13   | ♌ 8 00:40   | ♌ 18 15:04  | ♌ 29 04:55   |
| ♌ 9 15:46    | ♌ 22 05:26   | ♌ 31 20:14   | ♌ 9 22:59    | ♌ 19 14:30   | ♌ 22 01:32   | ♌ 8 18:55    | ♌ 18 09:07   | ♌ 20 21:35   | ♌ 10 13:24  | ♌ 21 03:37  | ♌ 31 16:47   |
| ♌ 12 01:47   | ♌ 24 15:14   |              | ♌ 12 10:28   | ♌ 22 01:32   | Sept. -1679j | ♌ 11 07:50   | ♌ 20 21:35   | ♌ 13 00:38   | ♌ 12 03:38  | ♌ 23 13:45  |              |
| ♌ 14 09:42   | ♌ 26 22:56   | Feb. -1680j  | ♌ 14 19:33   | ♌ 24 09:19   | ♌ 1 04:48    | ♌ 13 19:17   | ♌ 23 07:53   | ♌ 15 14:34   | ♌ 15 08:25  | ♌ 25 20:09  | Nov. -1676j  |
| ♌ 16 15:36   | ♌ 29 04:07   | ♌ 3 06:01    | ♌ 17 01:06   | ♌ 26 13:13   | ♌ 3 14:29    | ♌ 16 03:34   | ♌ 25 14:34   | ♌ 2 11:43    | ♌ 17 12:22  | ♌ 27 23:20  | ♌ 3 01:29    |
| ♌ 18 19:30   | ♌ 31 06:38   | ♌ 5 13:16    | ♌ 19 03:04   | ♌ 28 13:56   | ♌ 5 20:16    | ♌ 18 08:01   | ♌ 27 17:32   | ♌ 4 20:59    | ♌ 19 13:45  | ♌ 30 00:54  | ♌ 5 06:48    |
| ♌ 20 21:33   |              | ♌ 7 17:18    | ♌ 21 02:43   |              | ♌ 7 22:22    | ♌ 20 09:17   | ♌ 29 18:01   | ♌ 7 02:26    | ♌ 21 14:25  |             | ♌ 7 09:56    |
| ♌ 22 22:32   | Aug. -1681j  | ♌ 9 18:25    | ♌ 23 02:04   | March -1679j | ♌ 9 22:11    | ♌ 22 08:56   |              | ♌ 9 04:30    | ♌ 23 16:10  | May -1676j  | ♌ 9 12:21    |
| ♌ 24 23:57   | ♌ 2 07:10    | ♌ 11 18:01   | ♌ 25 03:17   | ♌ 2 13:13    | ♌ 11 21:39   | ♌ 24 08:51   | Oct. -1678j  | ♌ 11 04:44   | ♌ 25 20:02  | ♌ 2 02:30   | ♌ 11 15:07   |
| ♌ 27 03:36   | ♌ 4 07:19    | ♌ 13 18:09   | ♌ 27 07:59   | ♌ 4 13:06    | ♌ 13 13:22   | ♌ 26 10:49   | ♌ 1 17:48    | ♌ 13 05:04   | ♌ 28 02:13  | ♌ 4 05:17   | ♌ 13 18:40   |
| ♌ 29 10:58   | ♌ 6 09:06    | ♌ 15 20:55   | ♌ 29 16:37   | ♌ 6 15:27    | ♌ 16 02:44   | ♌ 28 16:04   | ♌ 3 18:49    | ♌ 15 07:13   | ♌ 30 10:25  | ♌ 6 09:44   | ♌ 15 23:13   |
| ♌ 31 22:05   | ♌ 8 14:21    | ♌ 18 03:39   |              | ♌ 8 21:25    | ♌ 18 10:23   | ♌ 31 00:49   | ♌ 5 22:32    | ♌ 17 12:14   | ♌ 19 20:07  | ♌ 8 15:56   | ♌ 18 05:12   |
|              | ♌ 10 23:44   | ♌ 20 14:13   | Sept. -1680j | ♌ 11 06:58   | ♌ 20 21:05   |              | ♌ 8 05:32    | ♌ 19 20:07   | Nov. -1677j | ♌ 10 23:59  | ♌ 20 13:22   |
| Feb. -1681j  | ♌ 13 12:01   | ♌ 23 02:47   | ♌ 1 04:07    | ♌ 13 18:58   | ♌ 23 09:36   | Apr. -1678j  | ♌ 10 15:24   | ♌ 22 06:16   | ♌ 1 20:24   | ♌ 13 10:15  | ♌ 23 00:13   |
| ♌ 3 11:04    | ♌ 16 00:45   | ♌ 25 15:15   | ♌ 3 16:44    | ♌ 16 07:53   | ♌ 25 22:35   | ♌ 2 12:17    | ♌ 13 03:08   | ♌ 24 17:58   | ♌ 4 08:07   | ♌ 15 22:33  | ♌ 25 13:02   |
| ♌ 5 23:10    | ♌ 18 11:59   | ♌ 28 02:19   | ♌ 6 05:01    | ♌ 18 20:20   | ♌ 28 10:49   | ♌ 5 01:06    | ♌ 15 15:46   | ♌ 27 06:34   | ♌ 6 20:56   | ♌ 18 11:28  | ♌ 28 01:31   |
| ♌ 8 08:46    | ♌ 20 21:07   |              | ♌ 8 16:06    | ♌ 21 07:15   | ♌ 31 20:07   | ♌ 7 13:58    | ♌ 18 04:20   | ♌ 29 18:57   | ♌ 9 09:05   | ♌ 20 22:32  | ♌ 30 11:09   |
| ♌ 10 15:48   | ♌ 23 04:21   | March -1680j | ♌ 11 01:18   | ♌ 23 15:42   |              | ♌ 10 01:41   | ♌ 20 15:33   |              | ♌ 11 18:15  | ♌ 23 05:48  |              |
| ♌ 12 21:02   | ♌ 25 09:51   | ♌ 1 11:34    | ♌ 13 07:54   | ♌ 25 21:03   | Oct. -1679j  | ♌ 12 11:02   | ♌ 22 23:52   | May -1677j   | ♌ 13 23:10  | ♌ 25 09:07  | Dec. -1676j  |
| ♌ 15 01:04   | ♌ 27 13:35   | ♌ 3 18:50    | ♌ 15 11:35   | ♌ 27 23:27   | ♌ 3 04:25    | ♌ 14 17:04   | ♌ 25 04:21   | ♌ 2 05:21    | ♌ 16 00:28  | ♌ 27 09:54  | ♌ 2 16:51    |
| ♌ 17 04:11   | ♌ 29 15:43   | ♌ 5 23:48    | ♌ 17 12:49   | ♌ 29 23:53   | ♌ 5 08:20    | ♌ 16 19:42   | ♌ 27 05:26   | ♌ 4 12:09    | ♌ 17 23:59  | ♌ 29 10:06  | ♌ 4 19:21    |
| ♌ 19 06:41   | ♌ 31 17:06   | ♌ 8 02:30    | ♌ 19 13:00   | ♌ 31 23:55   | ♌ 7 09:23    | ♌ 18 19:50   | ♌ 29 04:38   | ♌ 6 14:59    | ♌ 19 23:58  | ♌ 31 11:29  | ♌ 6 20:20    |
| ♌ 21 09:16   |              | ♌ 10 03:37   | ♌ 21 13:57   |              | ♌ 9 09:00    | ♌ 20 19:11   | ♌ 31 04:05   | ♌ 8 14:59    | ♌ 22 02:13  |             | ♌ 8 21:30    |
| ♌ 23 13:16   | Sept. -1681j | ♌ 12 04:33   | ♌ 23 17:26   | Apr. -1679j  | ♌ 11 09:02   | ♌ 22 19:44   |              | ♌ 10 14:11   | ♌ 24 07:41  | June -1676j | ♌ 11 00:07   |
| ♌ 25 20:06   | ♌ 2 19:15    | ♌ 14 07:05   | ♌ 26 00:35   | ♌ 3 01:22    | ♌ 13 11:23   | ♌ 24 23:20   | Nov. -1678j  | ♌ 12 14:44   | ♌ 26 16:09  | ♌ 2 15:11   | ♌ 13 04:46   |
| ♌ 28 06:23   | ♌ 4 23:53    | ♌ 16 12:45   | ♌ 28 11:14   | ♌ 5 05:49    | ♌ 15 17:27   | ♌ 27 06:59   | ♌ 2 05:57    | ♌ 14 18:22   | ♌ 29 02:44  | ♌ 4 21:29   | ♌ 15 11:35   |
|              | ♌ 7 08:11    | ♌ 18 22:06   | ♌ 30 23:44   | ♌ 7 14:04    | ♌ 18 03:25   | ♌ 29 18:11   | ♌ 4 11:38    | ♌ 17 01:40   | ♌ 17 01:40  | ♌ 7 06:09   | ♌ 17 20:35   |
| March -1681j | ♌ 9 19:46    | ♌ 21 10:07   |              | ♌ 10 01:32   | ♌ 20 15:57   |              | ♌ 6 21:10    | ♌ 19 11:59   | Dec. -1677j | ♌ 9 16:53   | ♌ 20 07:41   |
| ♌ 2 19:00    | ♌ 12 08:30   | ♌ 23 22:35   | Oct. -1680j  | ♌ 12 14:25   | ♌ 23 04:56   | May -1678j   | ♌ 9 09:11    | ♌ 21 23:59   | ♌ 1 14:42   | ♌ 12 05:16  | ♌ 22 20:23   |
| ♌ 5 07:21    | ♌ 14 19:52   | ♌ 26 09:33   | ♌ 3 12:00    | ♌ 15 02:41   | ♌ 25 16:47   | ♌ 2 07:06    | ♌ 11 21:57   | ♌ 24 12:37   | ♌ 4 03:28   | ♌ 14 18:21  | ♌ 25 09:14   |
| ♌ 7 17:07    | ♌ 17 04:36   | ♌ 28 18:11   | ♌ 5 22:35    | ♌ 17 13:05   | ♌ 28 02:43   | ♌ 4 19:53    | ♌ 14 10:19   | ♌ 27 01:02   | ♌ 6 15:58   | ♌ 17 06:13  | ♌ 27 20:02   |
| ♌ 9 23:41    | ♌ 19 10:52   | ♌ 31 00:35   | ♌ 8 07:01    | ♌ 19 21:10   | ♌ 30 10:26   | ♌ 7 07:22    | ♌ 16 21:36   | ♌ 29 12:06   | ♌ 9 02:22   | ♌ 19 14:49  | ♌ 30 03:05   |
| ♌ 12 03:50   | ♌ 21 15:26   |              | ♌ 10 13:20   | ♌ 22 02:56   |              | ♌ 9 16:55    | ♌ 19 06:54   | ♌ 31 20:17   | ♌ 11 09:01  | ♌ 21 19:18  |              |
| ♌ 14 06:48   | ♌ 23 18:59   | Apr. -1680j  | ♌ 12 17:42   | ♌ 24 06:34   | Nov. -1679j  | ♌ 12 00:00   | ♌ 21 13:11   | ♌ 21 13:11   | ♌ 13 11:36  | ♌ 23 20:25  | Jan. -1675j  |
| ♌ 16 09:32   | ♌ 25 21:55   | ♌ 2 05:11    | ♌ 14 20:29   | ♌ 26 08:34   | ♌ 1 15:46    | ♌ 14 04:15   | ♌ 23 15:59   | ♌ 25 15:59   | ♌ 15 11:23  | ♌ 25 19:56  | ♌ 1 06:18    |
| ♌ 18 12:35   | ♌ 28 00:42   | ♌ 4 08:24    | ♌ 16 22:19   | ♌ 28 09:48   | ♌ 3 18:41    | ♌ 16 05:49   | ♌ 25 16:06   | ♌ 27 15:19   | ♌ 17 10:27  | ♌ 27 19:53  | ♌ 3 06:52    |
| ♌ 20 16:19   | ♌ 30 04:06   | ♌ 6 10:46    | ♌ 19 00:16   | ♌ 30 11:33   | ♌ 5 19:45    | ♌ 18 05:49   | ♌ 27 15:19   | ♌ 29 15:51   | ♌ 19 10:59  | ♌ 29 21:58  | ♌ 5 06:38    |
| ♌ 22 21:23   |              | ♌ 8 13:05    | ♌ 21 03:43   |              | ♌ 7 20:13    | ♌ 20 05:59   | ♌ 22 08:23   |              | ♌ 21 14:39  |             | ♌ 7 07:25    |
| ♌ 25 04:37   | Oct. -1681j  | ♌ 10 16:27   | ♌ 23 09:56   | May -1679j   | ♌ 9 21:51    | ♌ 22 08:23   | Dec. -1678j  | ♌ 11 02:24   | ♌ 23 22:03  | July -1676j | ♌ 9 10:41    |
| ♌ 27 14:39   | ♌ 2 09:14    | ♌ 12 22:05   | ♌ 25 19:30   | ♌ 2 15:21    | ♌ 12 02:27   | ♌ 24 14:37   | ♌ 4 03:55    | ♌ 13 08:17   | ♌ 26 08:34  | ♌ 2 03:14   | ♌ 11 07:06   |
| ♌ 30 02:58   | ♌ 4 17:11    | ♌ 15 06:43   | ♌ 28 07:37   | ♌ 4 22:26    | ♌ 14 11:05   | ♌ 27 00:52   | ♌ 6 15:30    | ♌ 15 17:54   | ♌ 28 20:49  | ♌ 4 11:45   | ♌ 14 02:31   |
|              | ♌ 7 04:06    | ♌ 17 18:06   | ♌ 30 20:06   | ♌ 7 09:02    | ♌ 16 23:04   | ♌ 29 13:35   | ♌ 9 04:20    | ♌ 18 05:54   | ♌ 31 09:35  | ♌ 6 22:48   | ♌ 16 14:08   |
| Apr. -1681j  | ♌ 9 16:45    | ♌ 20 06:33   |              | ♌ 9 21:42    | ♌ 19 12:07   |              | ♌ 11 16:34   | ♌ 20 18:35   | Jan. -1676j | ♌ 9 11:24   | ♌ 19 02:56   |
| ♌ 1 15:36    | ♌ 12 04:38   | ♌ 22 17:49   | Nov. -1680j  | ♌ 12 09:59   | ♌ 21 23:46   | June -1678j  | ♌ 1 02:18    | ♌ 22 18:35   | ♌ 2 21:52   | ♌ 12 00:25  | ♌ 21 15:46   |
| ♌ 4 02:03    | ♌ 14 13:47   | ♌ 25 02:21   | ♌ 2 06:42    | ♌ 14 20:02   | ♌ 24 09:00   | ♌ 3 13:24    | ♌ 4 03:22    | ♌ 25 17:44   | ♌ 5 08:34   | ♌ 14 12:33  | ♌ 24 03:11   |
| ♌ 6 08:59    | ♌ 16 19:39   | ♌ 27 07:58   | ♌ 4 14:26    | ♌ 17 03:19   | ♌ 26 15:59   | ♌ 5 22:26    | ♌ 16 12:28   | ♌ 28 02:33   | ♌ 7 16:29   | ♌ 16 22:13  | ♌ 26 11:42   |
| ♌ 8 12:40    | ♌ 18 23:01   | ♌ 29 11:26   | ♌ 6 19:36    | ♌ 19 08:24   | ♌ 28 21:16   | ♌ 8 05:31    | ♌ 18 19:28   | ♌ 30 08:20   | ♌ 9 20:54   | ♌ 19 04:19  | ♌ 28 16:33   |
| ♌ 10 14:27   | ♌ 21 01:11   |              | ♌ 8 23:09    | ♌ 21 12:05   | Dec. -1679j  | ♌ 10 10:37   | ♌ 20 23:54   |              | ♌ 11 22:13  | ♌ 23 06:54  | ♌ 30 18:06   |
| ♌ 12 15:50   | ♌ 23 03:19   | May -1680j   | ♌ 11 02:02   | ♌ 23 14:59   | ♌ 1 01:11    | ♌ 12 13:40   | ♌ 22 03:48   | July -1677j  | ♌ 13 21:53  | ♌ 25 06:19  | Feb. -1675j  |
| ♌ 14 18:03   | ♌ 25 06:19   | ♌ 1 13:52    | ♌ 13 04:58   | ♌ 25 17:35   | ♌ 3 03:55    | ♌ 14 15:05   | ♌ 25 02:12   | ♌ 2 10:56    | ♌ 15 21:50  | ♌ 27 07:00  | ♌ 1 17:43    |
| ♌ 16 21:51   | ♌ 27 10:45   | ♌ 3 16:17    | ♌ 15 08:24   | ♌ 27 20:29   | ♌ 5 05:54    | ♌ 16 16:02   | ♌ 27 02:50   | ♌ 4 11:13    | ♌ 17 23:58  | ♌ 29 10:37  | ♌ 3 17:17    |
| ♌ 19 03:40   | ♌ 29 17:01   | ♌ 5 19:28    | ♌ 17 12:54   | ♌ 30 00:40   | ♌ 7 08:12    | ♌ 18 18:16   | ♌ 29 05:45   | ♌ 6 10:58    | ♌ 20 05:40  | ♌ 31 17:59  | ♌ 5 18:44    |
| ♌ 21 11:44   |              | ♌ 7 23:59    | ♌ 19 19:17   |              | ♌ 9 12:26    | ♌ 20 23:32   | ♌ 31 12:25   | ♌ 8 12:13    | ♌ 22 15:08  |             | ♌ 7 23:37    |
| ♌ 23 22:06   | Nov. -1681j  | ♌ 10 06:23   | ♌ 22 04:17   | June -1679j  | ♌ 1 07:20    | ♌ 11 19:59   | ♌ 23 08:42   | ♌ 10 16:40   | ♌ 25 03:13  | Aug. -1676j | ♌ 10 08:22   |
| ♌ 26 10:22   | ♌ 1 01:29    | ♌ 12 15:04   | ♌ 24 15:54   | ♌ 3 17:12    | ♌ 3 17:12    | ♌ 14 07:07   | ♌ 25 20:52   | ♌ 13 01:00   | ♌ 27 16:02  | ♌ 3 04:46   | ♌ 12 20:06   |
| ♌ 28 23:11   | ♌ 3 12:15    | ♌ 15 02:06   | ♌ 27 04:37   | ♌ 6 05:33    | ♌ 6 05:33    | ♌ 16 20:04   | ♌ 28 09:35   | ♌ 15 12:28   | ♌ 30 04:00  | ♌ 5 17:28   | ♌ 15 09:05   |
|              | ♌ 6 00:43    | ♌ 17 14:32   | ♌ 29 15:53   | ♌ 8 18:05    | ♌ 8 18:05    | ♌ 18 18:16   | ♌ 30 20:34   | ♌ 17 05:34   |             | ♌ 8 06:24   | ♌ 17 21:45   |
| May -1681j   | ♌ 8 13:11    | ♌ 20 02:22   |              | ♌ 11 04:17   | ♌ 11 04:17   | ♌ 21 17:01   |              | ♌ 19 08:41   | Feb. -1676j | ♌ 10 18:14  | ♌ 20 09:04   |
| ♌ 1 10:29    | ♌ 10 23:24   | ♌ 22 11:31   | Dec. -1680j  | ♌ 13 11:06   | ♌ 13 11:06   | ♌ 23 23:05   | July -1678j  | ♌ 10 10:12   | ♌ 1 14:13   | ♌ 13 04:04  | ♌ 22 18:13   |
| ♌ 3 18:29    | ♌ 13 06:01   | ♌ 24 17:06   | ♌ 1 23:48    | ♌ 15 15:10   | ♌ 15 15:10   | ♌ 26 03:13   | ♌ 3 04:59    | ♌ 12 18:30   | ♌ 3 22:10   | ♌ 15 11:15  | ♌ 25 00:32   |
| ♌ 5 22:44    | ♌ 15 09:08   | ♌ 26 19:42   | ♌ 4 04:13    | ♌ 17 17:50   | ♌ 17 17:50   | ♌ 28 06:31   | ♌ 5 11:15    | ♌ 15 05:53   | ♌ 27 14:10  | ♌ 17 15:28  | ♌ 27 03:48   |
| ♌ 8 00:09    | ♌ 17 10:01   | ♌ 28 20:48   | ♌ 6 06:22    | ♌ 19 20:21   | ♌ 19 20:21   | ♌ 30 09:39   | ♌ 7 15:58    | ♌ 19 08:41   | ♌ 29 18:01  | ♌ 19 17:07  |              |
| ♌ 10 00:19   | ♌ 19 10:27   | ♌ 30 22:04   | ♌ 8 07:55    | ♌ 21 23:27   | ♌ 21 23:27   |              | ♌ 9 19:31    | ♌ 19 08:41   | ♌ 31 19:55  | ♌ 10 07:52  | March -1675j |
| ♌ 12 00:59   | ♌ 21 12:06   |              | ♌ 10 10:17   | ♌ 23 23:05   | ♌ 23 23:05   | Jan. -1678j  | ♌ 11 22:10   | ♌ 21 10:41   | ♌ 12 08:37  | ♌ 23 17:39  | ♌            |

with clock times in UT/GMT. The year -1675 astronomical counting style corresponds to year 1676 B.C.E historical counting style.

|              |              |              |              |              |              |              |              |              |              |              |              |
|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| May -1675j   | Nov. -1675j  | May -1674j   | Dec. -1674j  | June -1673j  | Dec. -1673j  | July -1672j  | Jan. -1671j  | July -1671j  | Feb. -1670j  | Aug. -1670j  | Feb. -1669j  |
| 1 03:20      | 10 14:21     | 23 02:03     | 2 14:01      | 14 02:36     | 24 15:57     | 2 20:00      | 12 10:10     | 25 00:34     | 1 05:40      | 13 19:23     | 23 09:40     |
| 3 09:01      | 12 21:07     | 25 10:14     | 4 23:23      | 16 13:13     | 27 03:50     | 5 06:14      | 14 21:52     | 27 11:52     | 3 15:21      | 16 05:09     | 25 19:57     |
| 5 18:13      | 15 07:34     | 27 21:33     | 7 11:29      | 19 01:52     | 29 16:59     | 7 18:42      | 17 09:57     | 30 00:12     | 6 02:47      | 18 16:53     | 28 08:11     |
| 8 06:19      | 17 20:09     | 30 10:05     | 10 00:14     | 21 14:33     |              | 10 07:33     | 19 22:36     |              | 8 15:26      | 21 05:53     |              |
| 10 18:59     | 20 08:20     |              | 12 11:47     | 24 01:47     | Jan. -1672j  | 12 19:35     | 22 10:32     | Aug. -1671j  | 11 04:19     | 23 18:26     | March -1669j |
| 13 05:43     | 22 18:19     | June -1674j  | 14 21:17     | 26 10:51     | 3 05:28      | 15 06:03     | 24 20:51     | 1 12:52      | 13 15:42     | 26 04:17     | 2 21:09      |
| 15 13:28     | 25 01:45     | 1 21:45      | 17 04:32     | 28 17:34     | 3 16:18      | 17 14:14     | 27 04:20     | 4 00:43      | 15 23:40     | 28 10:06     | 5 08:49      |
| 17 18:39     | 27 07:11     | 4 07:25      | 19 09:42     | 30 21:56     | 6 01:02      | 19 19:26     | 29 08:14     | 6 10:06      | 18 03:29     | 30 12:11     | 8 17:13      |
| 19 22:17     | 29 11:16     | 6 14:51      | 21 13:01     |              | 8 07:23      | 21 21:36     | 31 08:58     | 8 15:39      | 20 04:03     |              | 9 21:44      |
| 22 01:15     |              | 8 20:15      | 23 15:01     | July -1673j  | 10 11:09     | 23 21:39     |              | 10 17:24     | 22 03:14     | Sept. -1670j | 11 23:11     |
| 24 04:05     | Dec. -1675j  | 10 23:57     | 25 16:37     | 3 00:17      | 12 12:38     | 25 21:19     | Feb. -1671j  | 12 16:49     | 24 03:10     | 1 12:07      | 13 23:12     |
| 26 07:14     | 1 14:24      | 13 02:23     | 27 19:06     | 5 01:23      | 14 12:54     | 27 22:44     | 2 08:08      | 14 16:02     | 26 05:38     | 3 11:53      | 15 23:35     |
| 28 11:24     | 3 17:03      | 15 04:21     | 29 23:53     | 7 02:30      | 16 13:39     | 30 03:44     | 4 07:55      | 16 17:14     | 28 11:39     | 5 13:16      | 18 01:53     |
| 30 17:35     | 5 19:53      | 17 06:57     |              | 9 05:14      | 18 16:50     |              | 6 10:28      | 18 21:57     |              | 7 17:31      | 20 07:06     |
|              | 8 00:02      | 19 11:30     | Jan. -1673j  | 11 11:06     | 20 23:54     | Aug. -1672j  | 8 17:06      | 20 06:29     | March -1670j | 10 00:58     | 22 15:24     |
| June -1675j  | 10 06:37     | 21 18:59     | 1 08:00      | 13 20:42     | 23 10:52     | 12 12:55     | 10 11:33     | 22 17:46     | 2 21:01      | 12 11:10     | 25 02:14     |
| 2 02:35      | 12 16:18     | 24 05:32     | 3 19:18      | 16 09:01     | 25 23:52     | 4 01:05      | 13 16:06     | 26 06:16     | 5 08:42      | 14 23:14     | 27 14:43     |
| 4 14:18      | 15 04:23     | 26 17:53     | 6 08:02      | 18 21:44     | 28 12:20     | 6 13:57      | 16 04:44     | 28 18:47     | 7 21:29      | 17 12:13     | 30 03:41     |
| 7 03:03      | 17 16:50     | 29 05:48     | 8 19:44      | 21 08:41     | 30 22:39     | 9 01:42      | 18 16:21     | 31 06:29     | 10 10:15     | 20 00:52     |              |
| 9 14:22      | 20 03:17     |              | 11 04:47     | 23 17:01     |              | 11 11:40     | 21 02:24     |              | 12 21:48     | 22 11:38     | Apr. -1669j  |
| 11 22:28     | 22 10:37     | July -1674j  | 13 11:02     | 25 23:04     | Feb. -1672j  | 13 19:46     | 23 10:23     | Sept. -1671j | 15 06:46     | 24 19:04     | 1 15:46      |
| 14 03:16     | 24 15:04     | 1 15:25      | 15 15:16     | 28 03:28     | 2 06:41      | 16 01:48     | 25 15:40     | 2 16:22      | 17 12:14     | 26 22:45     | 4 01:22      |
| 16 05:49     | 26 17:46     | 3 22:08      | 17 18:27     | 30 06:46     | 4 12:49      | 18 05:32     | 27 18:07     | 4 23:20      | 19 14:19     | 28 23:28     | 6 07:24      |
| 18 07:30     | 28 19:54     | 6 02:29      | 19 21:20     |              | 6 17:19      | 20 07:09     |              | 7 02:51      | 21 14:15     | 30 22:50     | 8 09:53      |
| 20 09:32     | 30 22:31     | 8 05:25      | 22 00:22     | Aug. -1673j  | 8 20:19      | 22 07:44     | March -1671j | 9 03:35      | 23 13:51     |              | 10 09:56     |
| 22 12:46     |              | 10 07:55     | 24 04:07     | 10 09:18     | 10 22:09     | 24 09:04     | 1 18:34      | 11 03:08     | 25 15:02     | Oct. -1670j  | 12 09:19     |
| 24 17:44     | Jan. -1674j  | 12 10:47     | 26 09:21     | 3 11:40      | 12 23:50     | 26 13:03     | 3 18:43      | 13 03:33     | 27 19:23     | 2 22:49      | 14 09:59     |
| 27 00:47     | 2 02:16      | 14 14:37     | 28 17:03     | 5 14:53      | 15 02:56     | 28 20:58     | 5 20:34      | 15 06:45     | 30 03:32     | 5 01:15      | 16 13:40     |
| 29 10:13     | 4 07:39      | 16 20:01     | 31 03:39     | 7 20:20      | 17 09:04     | 31 08:24     | 8 01:48      | 17 13:47     |              | 7 07:20      | 18 21:09     |
|              | 6 15:02      | 19 03:36     |              | 10 05:05     | 19 18:58     |              | 10 10:58     | 20 00:20     | Apr. -1670j  | 9 17:07      | 21 08:00     |
| July -1675j  | 9 00:43      | 21 13:45     | Feb. -1673j  | 12 16:54     | 22 07:31     | Sept. -1672j | 12 22:57     | 22 12:48     | 1 14:51      | 12 05:22     | 23 20:42     |
| 1 21:52      | 11 12:28     | 24 01:54     | 2 16:14      | 15 05:45     | 24 20:06     | 2 21:12      | 15 11:35     | 25 01:15     | 4 03:41      | 14 18:24     | 26 09:39     |
| 4 10:41      | 14 01:03     | 26 14:16     | 5 04:22      | 17 16:55     | 27 06:22     | 5 08:55      | 17 22:59     | 27 12:29     | 6 16:18      | 17 06:46     | 28 21:40     |
| 6 22:42      | 16 12:23     | 29 00:29     | 7 13:45      | 20 00:53     | 29 13:44     | 7 18:22      | 20 08:26     | 29 21:53     | 9 03:27      | 19 17:30     |              |
| 9 07:51      | 18 20:33     | 31 07:15     | 9 19:33      | 22 05:56     |              | 10 01:37     | 22 15:51     |              | 11 12:25     | 22 01:50     | May -1669j   |
| 11 13:16     | 21 01:04     |              | 11 22:37     | 24 09:16     | March -1672j | 12 07:11     | 24 21:15     | Oct. -1671j  | 13 18:45     | 24 07:14     | 1 07:47      |
| 13 15:29     | 23 02:47     | Aug. -1674j  | 14 00:31     | 26 12:06     | 2 18:51      | 14 11:20     | 27 00:45     | 2 05:05      | 15 22:23     | 26 09:44     | 3 15:09      |
| 15 15:59     | 25 03:22     | 2 10:46      | 16 02:42     | 28 15:09     | 4 22:43      | 16 14:15     | 29 02:44     | 4 09:51      | 17 23:53     | 28 10:10     | 5 19:16      |
| 17 16:29     | 27 04:32     | 4 12:22      | 18 06:02     | 30 18:42     | 7 01:56      | 18 16:22     | 31 04:12     | 6 12:19      | 20 00:22     | 30 10:04     | 7 20:29      |
| 19 18:32     | 29 07:40     | 6 13:42      | 20 10:47     |              | 9 04:50      | 20 18:44     |              | 8 13:22      | 22 01:26     |              | 9 20:04      |
| 21 23:10     | 31 13:25     | 8 16:10      | 22 17:04     | Sept. -1673j | 11 07:51     | 22 22:51     | Apr. -1671j  | 10 14:24     | 24 04:44     | Nov. -1670j  | 11 19:56     |
| 24 06:41     |              | 10 20:30     | 25 01:14     | 1 23:06      | 13 11:53     | 25 06:03     | 2 06:34      | 12 17:04     | 26 11:31     | 1 11:18      | 13 22:07     |
| 26 16:45     | Feb. -1674j  | 12 02:51     | 27 11:40     | 4 05:05      | 15 18:08     | 27 16:38     | 4 11:22      | 14 22:49     | 28 21:55     | 3 15:42      | 16 04:10     |
| 29 04:39     | 2 21:39      | 15 11:10     |              | 6 13:37      | 18 03:29     | 30 05:13     | 6 19:30      | 17 08:11     |              | 6 00:10      | 18 14:14     |
| 31 17:29     | 5 07:56      | 17 21:25     | March -1673j | 9 01:01      | 20 15:34     |              | 9 06:42      | 19 20:13     | May -1670j   | 8 12:01      | 21 02:50     |
|              | 7 19:44      | 20 09:28     | 4 12:43      | 11 13:59     | 23 04:17     | Oct. -1672j  | 11 19:13     | 22 08:47     | 1 10:32      | 11 01:06     | 23 15:46     |
| Aug. -1675j  | 10 08:21     | 22 22:12     | 6 22:59      | 14 01:49     | 25 15:02     | 2 17:16      | 14 06:45     | 24 19:50     | 3 23:06      | 13 13:14     | 26 03:27     |
| 3 05:56      | 12 20:20     | 25 09:29     | 8 05:21      | 16 10:17     | 27 22:26     | 5 02:47      | 16 15:53     | 27 04:28     | 6 09:50      | 15 23:20     | 28 13:19     |
| 5 16:17      | 15 05:49     | 27 17:16     | 9 05:21      | 18 15:01     | 30 02:49     | 7 09:23      | 18 22:26     | 29 10:46     | 8 18:08      | 18 07:18     | 30 21:05     |
| 7 23:09      | 17 11:29     | 29 20:59     | 11 08:04     | 20 17:12     | Apr. -1672j  | 9 13:44      | 21 02:56     | 31 15:15     | 10 00:10     | 20 13:17     |              |
| 10 02:15     | 19 13:29     | 31 21:48     | 13 08:47     | 22 18:36     | 1 05:26      | 11 16:54     | 23 06:08     |              | 13 04:22     | 22 17:18     | June -1669j  |
| 12 02:34     | 21 13:15     |              | 15 09:28     | 24 20:39     | 3 07:36      | 13 19:40     | 25 08:44     | Nov. -1671j  | 15 07:10     | 24 19:32     | 2 02:27      |
| 14 01:54     | 23 12:51     | Sept. -1674j | 17 11:40     | 27 00:09     | 5 10:13      | 15 22:38     | 27 11:25     | 2 18:31      | 17 09:07     | 26 20:41     | 4 05:16      |
| 16 02:15     | 25 14:20     | 2 21:38      | 19 16:11     | 30 05:20     | 7 13:50      | 18 02:20     | 30 07:31     | 4 21:06      | 19 11:07     | 28 22:08     | 6 06:07      |
| 18 05:25     | 27 19:03     | 4 22:33      | 21 23:03     | Oct. -1673j  | 9 18:54      | 20 07:31     | 22 14:58     | 6 23:38      | 21 14:27     | Dec. -1670j  | 8 06:22      |
| 20 12:18     |              | 7 01:59      | 24 07:57     | 1 12:19      | 12 01:57     | 23 04:17     | 25 10:08     | 9 03:05      | 23 20:28     | 1 01:39      | 10 07:57     |
| 22 22:32     | March -1674j | 9 08:24      | 26 18:44     | 3 21:22      | 14 11:29     | 25 15:02     | 27 13:25     | 11 08:35     | 26 05:55     | 3 08:46      | 12 12:44     |
| 25 10:46     | 2 03:14      | 11 17:21     | 29 07:09     | 6 08:42      | 16 23:11     | 27 22:26     | 30 01:54     | 4 04:15      | 28 18:07     | 5 19:40      | 14 21:37     |
| 27 23:38     | 4 13:59      | 14 04:08     | 31 20:02     | 8 21:40      | 19 12:11     | 20 03:50     |              | 6 14:53      | 31 06:47     | 8 08:37      | 17 09:41     |
| 30 12:03     | 7 02:06      | 16 16:15     |              | 11 10:14     | 21 23:38     | 24 07:51     | Nov. -1672j  | 9 03:12      | 18 17:05     | 10 20:51     | 19 22:33     |
|              | 9 14:42      | 19 05:05     | Apr. -1673j  | 13 19:56     | 26 07:38     | 28 14:19     | 1 12:15      | 11 15:09     | 21 04:32     | 13 06:33     | 22 10:02     |
| Sept. -1675j | 12 02:53     | 21 17:11     | 3 07:17      | 16 01:31     | 30 03:50     | 3 19:09      | 5 22:50      | 14 00:37     | 23 13:01     | 15 13:36     | 24 19:18     |
| 1 23:02      | 14 13:20     | 24 02:28     | 5 14:55      | 18 03:36     |              | 7 09:23      | 10 01:50     | 16 06:49     | 18 20:17     | 17 18:45     | 27 02:31     |
| 4 07:22      | 16 20:33     | 26 07:36     | 7 18:25      | 20 10:35     | May -1672j   | 12 04:01     | 13 19:36     | 18 10:17     | 20 22:16     | 19 22:47     | 29 07:59     |
| 6 12:12      | 18 23:54     | 28 08:55     | 9 18:58      | 22 04:10     | 2 16:22      | 14 07:59     | 16 14:09     | 22 12:16     | 23 05:06     | 22 02:04     |              |
| 8 13:39      | 21 00:10     | 30 08:08     | 11 18:32     | 24 06:10     | 4 19:16      | 16 22:30     | 18 22:30     | 24 14:09     | 26 05:19     | 24 04:47     | 1 11:49      |
| 10 13:02     | 23 23:12     |              | 13 19:09     | 26 10:45     | 7 00:31      | 20 08:57     | 22 21:04     | 26 21:77     | 28 11:29     | 26 07:31     | 3 14:08      |
| 12 12:23     | 25 23:15     | Oct. -1674j  | 15 22:17     | 28 18:05     | 9 08:17      | 23 21:04     | 26 09:48     | 28 21:12     | 30 18:06     | 28 11:29     | 5 15:39      |
| 14 13:52     | 27 02:18     | 2 07:32      | 18 04:33     | 31 03:50     | 11 18:25     | 26 21:04     |              |              |              |              | 7 17:46      |
| 16 19:10     | 29 09:19     | 4 09:10      | 20 13:40     |              | 14 06:24     | 28 21:12     |              |              |              |              | 9 22:10      |
| 18 19:46     | 31 19:46     | 6 14:19      | 23 00:54     | Nov. -1673j  | 16 19:16     |              |              |              |              |              | 11 06:11     |
| 21 16:50     |              | 8 22:57      | 25 13:27     | 2 15:32      | 19 07:19     |              |              |              |              |              | 13 14:16     |
| 24 05:45     | Apr. -1674j  | 11 10:04     | 28 02:21     | 5 04:28      | 21 16:43     |              |              |              |              |              | 15 17:48     |
| 26 17:54     | 3 08:04      | 13 22:25     | 30 14:07     | 7 17:20      | 23 22:24     | Dec. -1672j  | 1 05:23      | July -1670j  | 2 09:47      | 11 21:53     | 22 02:46     |
| 29 04:39     | 5 20:41      | 16 11:10     |              | 10 04:12     | 26 00:39     | 3 09:42      | 5 10:54      | 2 09:47      | 4 14:09      | 14 01:55     | 26 13:40     |
|              | 8 08:41      | 18 23:24     | May -1673j   | 12 11:28     | 30 00:39     | 5 10:54      | 7 10:42      | 4 14:09      | 6 16:29      | 16 04:43     | 28 17:10     |
| Oct. -1675j  | 10 19:18     | 21 09:42     | 2 22:59      | 14 14:47     |              | 9 11:04      | 11 13:44     | 6 16:29      | 8 18:24      | 18 07:23     | 30 20:06     |
| 1 13:31      | 13 03:30     | 23 16:35     | 5 03:59      | 16 15:12     | June -1672j  | 13 19:36     | 15 22:53     | 10 21:02     | 10 21:02     | 20 10:32     |              |
| 3 19:50      | 15 08:27     | 25 19:35     | 7 05:32      | 18 14:31     | 1 01:59      | 16 04:30     | 18 15:33     | 13 00:53     | 15 06:08     | 22 14:25     | Aug. -1669j  |
| 5 23:08      | 17 10:10     | 27 19:40     | 9 05:08      | 20 14:44     | 3 06:14      | 18 15:33     | 21 03:50     | 17 13:04     | 19 22:14     | 24 19:33     | 1 22:52      |
| 7 23:55      | 19 09:54     |              |              |              |              |              |              |              |              |              |              |



with clock times in UT/GMT. The year -1669 astronomical counting style corresponds to year 1670 B.C.E historical counting style.

|              |              |              |             |              |              |             |              |              |              |              |              |
|--------------|--------------|--------------|-------------|--------------|--------------|-------------|--------------|--------------|--------------|--------------|--------------|
| Sept. -1669j | March -1668j | Sept. -1668j | Apr. -1667j | Oct. -1667j  | Apr. -1666j  | Nov. -1666j | May -1665j   | Nov. -1665j  | June -1664j  | Dec. -1664j  | June -1663j  |
| 2 14:42      | 14 04:35     | 23 16:57     | 2 23:20     | 13 10:17     | 24 22:14     | 2 03:35     | 14 15:21     | 24 03:16     | 2 09:21      | 12 21:19     | 24 10:27     |
| 4 22:59      | 16 13:15     | 26 01:52     | 5 05:54     | 15 17:35     | 27 06:59     | 4 09:56     | 16 23:20     | 26 12:36     | 4 16:20      | 15 05:50     | 26 20:18     |
| 7 09:40      | 19 00:14     | 28 13:20     | 7 15:30     | 18 04:28     | 29 18:56     | 6 20:15     | 19 10:33     | 29 00:36     | 7 02:44      | 17 17:26     | 29 08:24     |
| 9 22:06      | 21 12:41     |              | 10 03:39    | 20 17:22     |              | 9 08:51     | 21 23:07     |              | 9 15:14      | 20 06:27     |              |
| 12 10:38     | 24 00:40     | Oct. -1668j  | 12 16:16    | 23 05:29     | May -1666j   | 11 21:16    | 24 11:07     | Dec. -1665j  | 12 04:05     | 22 19:16     | July -1663j  |
| 14 21:01     | 26 10:06     | 1 01:59      | 15 02:45    | 25 14:45     | 2 07:44      | 14 07:48    | 26 21:30     | 1 13:25      | 14 15:57     | 25 06:47     | 1 21:15      |
| 17 03:49     | 28 15:56     | 3 13:21      | 17 09:50    | 27 20:58     | 4 18:54      | 16 16:08    | 29 05:53     | 4 01:26      | 17 01:51     | 27 16:12     | 4 09:49      |
| 19 07:09     | 30 18:38     | 5 21:31      | 19 13:54    | 30 01:07     | 7 03:24      | 18 22:37    | 31 12:09     | 6 11:48      | 19 09:10     | 29 22:48     | 6 20:39      |
| 21 08:12     |              | 8 02:12      | 21 16:21    |              | 9 09:32      | 20 02:09    |              | 8 20:01      | 21 13:37     |              | 9 05:07      |
| 23 08:42     | Apr. -1668j  | 10 04:29     | 23 18:35    | Nov. -1667j  | 11 14:05     | 23 06:49    | June -1665j  | 11 01:45     | 23 15:33     | Jan. -1663j  | 11 10:16     |
| 25 10:15     | 1 19:36      | 12 06:01     | 25 21:31    | 1 04:24      | 13 17:37     | 25 08:58    | 2 16:12      | 13 04:58     | 25 15:59     | 1 02:19      | 13 12:09     |
| 27 14:05     | 3 20:35      | 14 08:15     | 28 01:33    | 3 07:33      | 15 20:25     | 27 10:50    | 4 18:22      | 15 06:19     | 27 16:29     | 3 03:15      | 15 11:52     |
| 29 20:38     | 5 23:02      | 16 12:02     | 30 06:54    | 5 10:49      | 17 22:57     | 29 13:53    | 6 19:34      | 17 07:00     | 29 18:46     | 5 02:57      | 17 11:19     |
|              | 8 03:48      | 18 17:34     |             | 7 14:32      | 20 02:09     |             | 8 21:15      | 19 08:40     |              | 7 03:17      | 19 12:36     |
| Oct. -1669j  | 10 11:00     | 21 00:49     | May -1667j  | 9 19:27      | 22 07:19     | Dec. -1666j | 11 00:58     | 21 12:56     | July -1664j  | 9 06:12      | 21 17:28     |
| 2 05:43      | 12 20:21     | 23 10:00     | 2 14:01     | 12 02:41     | 24 15:35     | 1 19:39     | 13 07:56     | 23 20:47     | 2 00:20      | 11 13:08     | 24 02:28     |
| 4 16:48      | 15 07:31     | 25 21:15     | 4 23:33     | 14 12:58     | 27 02:56     | 4 04:52     | 15 18:15     | 26 07:59     | 4 09:44      | 13 23:57     | 26 14:28     |
| 7 05:13      | 17 19:56     | 28 09:57     | 7 11:28     | 17 01:36     | 29 15:41     | 6 16:52     | 18 06:33     | 28 20:44     | 6 21:55      | 16 12:56     | 29 03:22     |
| 9 17:56      | 20 08:23     | 30 22:09     | 10 00:21    | 19 14:12     |              | 9 05:24     | 20 18:38     | 31 08:44     | 9 10:47      | 19 01:41     | 31 15:34     |
| 12 05:19     | 22 18:55     |              | 12 11:35    | 22 00:05     | June -1666j  | 11 16:10    | 23 04:47     |              | 11 22:18     | 21 12:44     |              |
| 14 13:39     | 25 01:50     | Nov. -1668j  | 14 19:11    | 24 06:15     | 1 03:13      | 14 00:06    | 25 12:25     | Jan. -1664j  | 14 07:36     | 23 21:42     | Aug. -1663j  |
| 16 18:05     | 27 04:53     | 2 07:26      | 16 23:02    | 26 09:26     | 3 11:47      | 16 05:30    | 27 17:49     | 2 18:33      | 16 14:37     | 26 04:36     | 3 02:16      |
| 18 19:12     | 29 05:13     | 4 12:36      | 19 00:27    | 28 11:15     | 5 17:18      | 18 09:14    | 29 21:36     | 5 01:52      | 18 19:38     | 28 09:23     | 5 11:05      |
| 20 18:37     |              | 6 14:19      | 21 01:18    | 30 13:11     | 7 20:44      | 20 12:10    |              | 7 07:08      | 20 22:55     | 30 12:05     | 7 17:29      |
| 22 18:26     | May -1668j   | 8 14:24      | 23 03:09    |              | 9 23:16      | 22 14:57    | July -1665j  | 9 10:52      | 23 00:54     |              | 9 21:03      |
| 24 20:35     | 1 04:49      | 10 14:58     | 25 06:56    | Dec. -1667j  | 12 01:48     | 24 18:10    | 2 00:24      | 11 13:36     | 25 02:25     | 23 21:42     | 11 22:09     |
| 27 02:16     | 3 05:43      | 12 17:37     | 27 12:49    | 2 16:11      | 14 04:56     | 26 22:31    | 4 02:52      | 13 15:55     | 27 04:48     | 25 13:05     | 13 22:05     |
| 29 11:28     | 5 09:26      | 14 23:01     | 29 20:43    | 4 20:36      | 16 09:12     | 28 09:12    | 6 05:48      | 15 18:39     | 29 09:34     | 27 19:48     | 15 22:48     |
| 31 23:01     | 7 16:29      | 17 06:58     |             | 7 02:38      | 18 15:14     | 30 23:44    | 8 10:09      | 17 22:57     | 31 17:53     | 29 04:34     | 18 02:20     |
|              | 10 02:17     | 19 16:51     | June -1667j | 9 10:38      | 20 23:44     |             | 10 16:54     | 20 05:59     |              | 7 22:02      | 20 09:59     |
| Nov. -1669j  | 12 13:50     | 22 04:19     | 1 06:41     | 11 20:59     | 23 10:52     | Jan. -1665j | 13 02:34     | 22 16:15     | Aug. -1664j  | 10 07:40     | 22 21:16     |
| 3 11:37      | 15 20:20     | 24 16:59     | 3 18:38     | 13 08:49     | 25 23:34     | 3 01:11     | 15 14:32     | 25 04:44     | 3 05:29      | 12 20:10     | 25 10:07     |
| 6 00:13      | 17 14:56     | 27 05:39     | 6 07:40     | 16 22:20     | 28 11:41     | 5 13:46     | 18 02:53     | 27 17:02     | 5 18:21      | 15 08:57     | 27 22:12     |
| 8 11:58      | 20 02:16     | 29 16:15     | 8 19:43     | 19 09:18     | 30 21:01     | 8 01:11     | 20 13:23     | 30 02:52     | 8 05:54      | 17 19:48     | 30 08:23     |
| 10 21:34     | 22 10:37     |              | 11 04:30    | 21 16:29     |              | 10 09:37    | 22 20:45     |              | 10 14:39     | 20 04:03     |              |
| 13 03:48     | 24 14:59     | Dec. -1668j  | 13 09:07    | 23 19:53     | July -1666j  | 12 14:39    | 25 01:10     | 25 01:10     | 12 20:45     | 22 10:10     | Sept. -1663j |
| 15 06:21     | 26 15:51     | 1 22:56      | 15 10:26    | 25 20:50     | 3 02:45      | 3 02:45     | 27 03:45     | 1 09:30      | 15 01:04     | 24 14:48     | 1 16:36      |
| 17 17:06     | 28 14:58     | 4 01:29      | 17 10:16    | 27 21:10     | 5 05:31      | 5 18:38     | 29 05:49     | 3 13:35      | 17 04:29     | 26 18:19     | 3 23:01      |
| 19 15:10     | 30 14:33     | 6 01:18      | 19 10:36    | 29 22:31     | 7 06:45      | 18 20:27    | 31 08:28     | 5 16:23      | 19 07:30     | 28 20:55     | 6 03:35      |
| 21 05:38     |              | 8 00:31      | 21 12:59    |              | 9 07:56      | 20 23:41    |              | 7 19:03      | 21 10:25     |              | 8 06:17      |
| 23 09:31     | June -1668j  | 10 01:18     | 23 18:16    | Jan. -1666j  | 11 10:21     | 23 04:53    | Aug. -1665j  | 9 22:14      | 23 13:51     | March -1663j | 10 07:41     |
| 25 17:37     | 1 16:40      | 12 05:10     | 26 02:23    | 1 02:04      | 13 14:48     | 25 12:14    | 2 12:20      | 12 02:17     | 25 18:52     | 2 23:08      | 12 09:06     |
| 27 05:01     | 3 22:30      | 14 12:32     | 28 12:51    | 3 08:16      | 15 21:38     | 27 21:39    | 4 17:48      | 14 07:35     | 28 02:39     | 5 02:09      | 14 12:19     |
| 30 17:47     | 6 07:56      | 16 22:42     |             | 5 17:00      | 18 06:49     | 30 08:59    | 7 01:08      | 16 14:49     | 30 13:38     | 7 07:29      | 16 18:54     |
|              | 8 19:40      | 19 10:34     | July -1667j | 8 03:55      | 20 18:08     |             | 9 10:43      | 19 00:39     |              | 9 16:14      | 19 05:12     |
| Dec. -1669j  | 11 08:16     | 21 23:15     | 1 01:02     | 10 16:24     | 23 06:49     | Feb. -1665j | 11 22:26     | 21 12:49     | Sept. -1664j | 12 04:05     | 21 17:45     |
| 3 06:17      | 13 20:46     | 24 11:53     | 3 14:06     | 13 05:23     | 25 19:23     | 1 21:31     | 14 11:05     | 24 01:28     | 2 02:29      | 14 16:54     | 24 05:59     |
| 5 17:42      | 16 08:16     | 26 23:07     | 6 02:34     | 15 17:07     | 28 05:51     | 4 09:36     | 16 22:25     | 26 11:59     | 4 14:30      | 17 03:59     | 26 16:00     |
| 8 03:31      | 18 17:34     | 29 07:20     | 8 12:33     | 18 10:46     | 30 12:45     | 6 19:10     | 19 06:25     | 28 18:48     | 6 23:24      | 19 12:00     | 28 23:26     |
| 10 10:59     | 20 23:30     | 31 11:39     | 10 18:41    | 20 06:32     |              | 9 00:59     | 21 10:39     |              | 9 04:52      | 21 17:14     |              |
| 12 15:23     | 23 01:52     |              | 12 21:02    | 22 07:59     | Aug. -1666j  | 11 03:20    | 23 12:08     | March -1664j | 11 07:58     | 23 20:47     | Oct. -1663j  |
| 14 16:49     | 25 01:44     | Jan. -1667j  | 14 20:57    | 24 07:40     | 1 15:57      | 13 03:36    | 25 12:43     | 1 22:11      | 13 10:14     | 25 23:41     | 1 04:51      |
| 16 16:32     | 27 01:02     | 2 12:36      | 16 20:21    | 26 07:27     | 3 16:34      | 15 03:46    | 27 14:10     | 3 23:41      | 15 12:50     | 28 02:35     | 3 08:56      |
| 18 16:33     | 29 01:57     | 4 11:52      | 18 21:09    | 28 08:11     | 5 16:20      | 17 05:36    | 29 17:43     | 6 01:02      | 17 16:20     | 30 05:50     | 5 12:09      |
| 20 19:01     |              | 6 11:33      | 21 00:53    | 30 14:09     | 7 17:09      | 19 10:19    | 31 23:44     | 8 03:36      | 19 20:54     |              | 7 14:51      |
| 23 01:27     | July -1668j  | 8 13:39      | 23 08:11    | Feb. -1666j  | 9 20:30      | 21 18:03    |              | 10 07:59     | 22 02:54     | Apr. -1663j  | 9 17:42      |
| 25 11:51     | 1 06:12      | 10 19:22     | 25 18:38    | 1 22:39      | 11 03:09     | 23 04:53    | Sept. -1665j | 12 14:12     | 24 10:59     | 1 10:02      | 11 21:46     |
| 28 00:27     | 3 14:28      | 13 04:46     | 28 07:03    | 4 09:57      | 13 17:03     | 25 03:33    | 5 17:58      | 14 22:14     | 26 21:43     | 3 16:02      | 14 04:14     |
| 30 12:57     | 6 01:48      | 15 16:40     | 30 20:05    | 6 22:41      | 15 13:18     | 17 00:33    | 8 05:41      | 17 08:18     | 29 10:29     | 6 00:43      | 16 13:51     |
|              | 8 14:26      | 18 05:27     |             | 9 11:35      | 17 22:01     | 19 03:18    | 10 18:28     | 19 20:20     |              | 8 12:09      | 19 01:57     |
| Jan. -1668j  | 11 02:45     | 20 17:50     | Aug. -1667j | 11 23:25     | 22 01:58     | 22 13:16    | 13 06:42     | 22 09:14     | Oct. -1664j  | 11 00:56     | 21 14:29     |
| 1 23:58      | 13 13:53     | 23 04:50     | 2 08:27     | 14 18:56     | 24 13:16     | 26 21:42    | 15 16:02     | 24 20:39     | 1 23:07      | 13 12:36     | 24 01:01     |
| 4 09:10      | 15 23:10     | 25 13:33     | 4 18:56     | 16 15:27     | 28 02:24     | 30 03:41    | 18 10:39     | 27 04:29     | 4 08:59      | 15 21:07     | 26 08:22     |
| 6 16:29      | 18 05:57     | 27 19:18     | 7 02:26     | 18 18:27     | 31 03:41     |             | 20 13:59     | 29 08:15     | 6 14:51      | 18 02:10     | 28 12:50     |
| 8 21:44      | 20 09:52     | 31 22:40     | 11 07:42    | 20 18:52     | Sept. -1666j | 14 13:25    | 23 22:02     | 31 09:09     | 8 17:23      | 20 04:45     | 30 15:32     |
| 11 00:48     | 22 11:18     |              | 13 07:24    | 22 18:16     | 2 03:01      | 16 13:38    | 26 00:01     |              | 10 18:16     | 22 06:19     |              |
| 13 02:10     | 24 11:32     | Feb. -1667j  | 15 07:25    | 24 18:39     | 4 02:26      | 18 16:47    | 28 05:14     | Apr. -1664j  | 12 19:18     | 24 08:11     | Nov. -1663j  |
| 15 03:09     | 26 12:22     | 2 22:43      | 17 09:36    | 26 21:52     | 6 04:02      | 20 23:42    | 30 13:35     | 2 09:10      | 14 21:48     | 26 11:15     | 1 17:41      |
| 17 05:30     | 28 15:38     | 5 00:01      | 19 15:21    |              | 8 09:20      | 22 09:51    |              | 4 10:12      | 17 02:24     | 28 16:05     | 3 20:18      |
| 19 10:53     | 30 22:30     | 7 04:12      | 21 20:09    | March -1666j | 10 18:34     | 24 18:34    | 3 00:10      | 6 13:34      | 19 09:10     | 30 22:59     | 5 23:59      |
| 21 20:01     |              | 9 12:10      | 23 13:19    | 1 05:05      | 12 13:36     | 26 21:42    | 5 12:09      | 8 19:40      | 21 18:04     |              | 8 05:17      |
| 24 07:59     | Aug. -1668j  | 11 23:25     | 25 13:33    | 3 15:59      | 14 18:56     | 28 02:24    | 8 00:54      | 11 04:15     | 24 05:04     | May -1663j   | 10 12:35     |
| 26 20:32     | 2 08:55      | 14 12:12     | 27 19:18    | 5 11:05      | 16 15:27     | 30 03:41    | 10 13:27     | 13 14:50     | 26 17:46     | 3 08:13      | 12 22:13     |
| 29 07:32     | 4 21:20      | 17 00:28     | 31 22:40    | 7 16:39      | 18 07:52     | 20 19:14    | 12 00:02     | 16 03:01     | 29 06:47     | 5 19:40      | 15 10:01     |
| 31 16:08     | 7 09:38      | 19 10:54     |             | 9 17:48      | 22 04:35     | 24 03:35    | 13 00:02     | 18 15:59     | 31 17:51     | 8 08:27      | 17 22:44     |
|              | 9 20:21      | 21 19:05     | 1 00:29     | 11 00:29     | 26 21:52     | 28 05:14    | 14 13:25     | 21 04:02     |              | 10 20:39     | 20 10:11     |
| Feb. -1668j  | 12 04:55     | 23 13:19     | 3 08:19     | 13 14:48     | 30 14:09     | 3 16:34     | 25 12:43     | 23 13:10     | Nov. -1664j  | 13 06:13     | 22 18:29     |
| 2 22:29      | 14 11:21     | 25 13:33     | 5 13:41     | 15 22:04     | 5 16:20      | 17 05:36    | 27 14:10     | 25 18:12     | 1 01:08      | 15 12:02     | 24 23:05     |
| 5 03:08      | 16 15:48     | 27 19:18     | 7 16:39     | 18 02:39     | 7 17:09      | 19 10:19    | 29 17:43     | 3 23:41      | 3 01:08      | 17 14:33     | 27 00:50     |
| 7 06:30      | 18 18:36     | 31           |             |              |              |             |              |              |              |              |              |

with clock times in UT/GMT. The year -1662 astronomical counting style corresponds to year 1663 B.C.E historical counting style.

|              |              |              |              |              |              |              |              |              |              |              |             |
|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|
| Jan. -1662j  | July -1662j  | Jan. -1661j  | Aug. -1661j  | Feb. -1660j  | Aug. -1660j  | March -1659j | Sept. -1659j | March -1658j | Oct. -1658j  | Apr. -1657j  | Oct. -1657j |
| 1 16:42      | 14 06:20     | 23 20:47     | 3 03:18      | 12 17:01     | 24 05:20     | 1 09:44      | 10 21:32     | 23 09:52     | 2 20:09      | 14 07:04     | 14 16:51    |
| 4 00:42      | 16 15:07     | 26 05:46     | 5 10:10      | 15 00:03     | 26 12:36     | 3 13:22      | 13 00:54     | 25 13:14     | 4 23:33      | 16 11:28     | 26 22:57    |
| 6 11:28      | 19 01:49     | 28 16:33     | 7 19:03      | 17 09:27     | 28 22:37     | 5 18:42      | 15 06:19     | 27 19:05     | 7 06:23      | 18 19:53     | 29 09:09    |
| 8 23:41      | 21 13:51     | 31 04:53     | 10 06:11     | 19 21:13     | 31 10:51     | 8 02:30      | 17 14:39     | 30 04:14     | 9 17:02      | 21 07:41     | 31 21:46    |
| 11 12:22     | 24 02:33     |              | 12 19:01     | 22 10:10     |              | 10 13:02     | 20 01:52     |              | 12 05:53     | 23 20:36     |             |
| 14 00:39     | 26 14:38     | Feb. -1661j  | 15 07:41     | 24 21:58     | Sept. -1660j | 13 01:21     | 22 14:28     | Apr. -1658j  | 14 18:17     | 26 08:14     | Nov. -1657j |
| 16 11:20     | 29 00:10     | 2 17:50      | 17 17:42     | 27 06:33     | 2 23:24      | 15 13:25     | 25 02:00     | 1 16:13      | 17 04:13     | 28 17:32     | 3 10:24     |
| 18 18:56     | 31 05:45     | 5 05:26      | 19 23:39     | 29 11:18     | 5 09:55      | 17 23:06     | 27 10:42     | 4 04:53      | 19 11:25     |              | 5 21:30     |
| 20 22:40     |              | 7 13:33      | 22 01:58     |              | 7 17:01      | 20 05:28     | 29 16:15     | 6 15:48      | 21 16:38     |              | 8 06:45     |
| 22 23:10     | Aug. -1662j  | 9 17:25      | 24 02:17     | March -1660j | 9 20:54      | 22 08:58     |              | 8 23:39      | 23 20:40     | May -1657j   | 10 14:11    |
| 24 22:07     | 2 07:29      | 11 18:01     | 26 02:32     | 2 13:09      | 11 22:45     | 24 10:50     | Oct. -1659j  | 11 04:44     | 25 23:57     | 3 06:01      | 12 19:38    |
| 26 21:49     | 4 06:55      | 13 17:21     | 28 04:23     | 4 13:45      | 14 00:03     | 26 12:30     | 1 19:36      | 13 08:07     | 28 02:45     | 5 09:56      | 14 22:56    |
| 29 00:21     | 6 06:15      | 15 17:33     | 30 08:46     | 6 14:44      | 16 02:09     | 28 15:09     | 3 22:01      | 15 10:54     | 30 05:32     | 7 12:32      | 17 00:27    |
| 31 06:57     | 8 07:36      | 17 20:17     |              | 8 17:24      | 18 05:56     | 30 19:31     | 6 00:38      | 17 13:49     |              | 9 14:22      | 19 01:23    |
|              | 10 12:23     | 20 02:20     | Sept. -1661j | 10 22:29     | 20 11:51     |              | 8 04:06      | 19 17:15     | Nov. -1658j  | 11 16:37     | 21 03:30    |
| Feb. -1662j  | 12 20:44     | 22 11:24     | 1 15:53      | 13 06:10     | 22 19:59     | Apr. -1659j  | 10 08:46     | 21 21:40     | 1 09:24      | 13 20:52     | 23 08:33    |
| 2 17:17      | 15 07:41     | 24 22:37     | 4 01:24      | 15 16:14     | 25 06:19     | 2 01:51      | 12 15:00     | 24 03:50     | 3 15:47      | 16 04:28     | 25 17:27    |
| 5 05:39      | 17 19:57     | 27 11:09     | 6 12:54      | 18 04:12     | 27 18:26     | 4 10:18      | 14 23:21     | 26 12:39     | 6 01:33      | 18 15:31     | 28 05:22    |
| 7 18:23      | 20 08:35     |              | 9 01:44      | 20 17:10     | 30 07:11     | 6 20:50      | 17 10:08     | 29 00:12     | 8 14:02      | 21 04:16     | 30 18:02    |
| 10 06:27     | 22 20:45     | March -1661j | 11 14:39     | 23 05:29     |              | 9 09:02      | 20 19:22     |              | 11 02:43     | 23 16:05     |             |
| 12 17:11     | 25 07:07     | 2 00:05      | 14 01:43     | 25 15:17     | Oct. -1660j  | 11 21:30     | 22 10:55     | May -1658j   | 13 12:59     | 26 01:13     | Dec. -1657j |
| 15 01:42     | 27 14:18     | 4 12:05      | 16 09:14     | 27 21:20     | 2 18:41      | 14 08:07     | 24 20:23     | 1 13:01      | 15 19:47     | 28 07:34     | 3 05:10     |
| 17 07:06     | 29 17:38     | 6 21:25      | 18 12:46     | 29 23:49     | 5 03:02      | 16 15:16     | 27 01:59     | 4 00:27      | 17 23:51     | 30 11:57     | 5 13:49     |
| 19 09:15     | 31 17:58     | 9 02:56      | 20 13:20     | 31 23:59     | 7 07:33      | 18 18:42     | 29 04:22     | 6 08:31      | 20 02:37     |              | 7 20:14     |
| 21 09:09     |              | 11 04:47     | 22 12:43     |              | 9 08:58      | 20 19:36     | 31 05:16     | 8 13:03      | 22 05:17     | June -1657j  | 10 01:01    |
| 23 08:43     | Sept. -1662j | 13 04:25     | 24 12:54     | Apr. -1660j  | 11 08:53     | 22 19:47     |              | 10 15:17     | 24 08:29     | 1 15:18      | 12 04:35    |
| 25 10:06     | 2 17:06      | 15 03:48     | 26 15:35     | 2 23:38      | 13 09:15     | 24 21:07     | Nov. -1659j  | 12 16:52     | 26 12:27     | 3 18:12      | 14 07:20    |
| 27 15:04     | 4 17:16      | 17 04:56     | 28 21:42     | 5 00:37      | 15 11:44     | 27 00:54     | 2 06:30      | 14 19:11     | 28 17:32     | 5 21:04      | 16 09:50    |
|              | 6 20:21      | 19 09:18     |              | 7 04:25      | 17 17:20     | 29 07:33     | 4 09:27      | 16 22:54     |              | 8 00:30      | 18 13:05    |
| March -1662j | 9 03:21      | 21 17:24     | Oct. -1661j  | 9 11:42      | 20 01:59     |              | 6 14:37      | 19 04:12     | Dec. -1658j  | 10 05:30     | 20 18:20    |
| 2 00:06      | 11 13:48     | 24 04:29     | 1 07:11      | 11 22:04     | 22 12:56     | May -1659j   | 8 21:50      | 21 11:13     | 1 00:29      | 12 13:05     | 23 02:33    |
| 4 12:04      | 14 02:08     | 26 17:10     | 3 19:02      | 14 10:24     | 25 01:12     | 1 16:40      | 11 06:53     | 23 20:21     | 3 10:04      | 15 23:39     | 25 13:43    |
| 7 00:48      | 16 14:44     | 29 06:00     | 6 07:57      | 16 23:22     | 27 13:56     | 4 03:38      | 13 17:45     | 26 07:47     | 5 22:10      | 17 12:14     | 28 02:17    |
| 9 12:38      | 19 02:31     | 31 17:49     | 8 20:43      | 19 11:47     | 30 01:58     | 6 15:53      | 16 06:13     | 28 20:42     | 8 11:07      | 20 00:27     | 30 13:52    |
| 11 22:52     | 21 12:46     |              | 11 08:05     | 21 22:20     |              | 9 04:33      | 18 18:58     | 31 08:52     | 10 22:14     | 22 10:04     |             |
| 14 07:10     | 23 20:41     | Apr. -1661j  | 13 16:50     | 24 05:51     | Nov. -1660j  | 11 16:04     | 21 05:40     |              | 13 05:41     | 24 16:17     | Jan. -1656j |
| 16 13:14     | 26 01:37     | 5 03:31      | 15 22:12     | 26 09:50     | 1 11:45      | 14 00:31     | 23 12:28     | 2 17:52      | 15 09:30     | 26 19:48     | 1 22:41     |
| 18 16:49     | 28 03:43     | 7 10:15      | 18 00:18     | 28 10:47     | 3 17:55      | 16 04:57     | 25 15:10     | 17 11:04     | 17 11:04     | 28 21:52     | 4 04:26     |
| 20 18:20     | 30 04:02     | 9 13:46      | 20 00:15     | 30 10:12     | 5 20:18      | 18 05:58     | 27 15:15     | 4 22:48      | 19 12:08     | 30 23:47     | 6 07:55     |
| 22 18:58     |              | 11 14:39     | 22 23:48     |              | 7 20:02      | 20 05:17     | 29 14:53     | 7 00:32      | 21 14:07     |              | 8 10:19     |
| 24 20:28     | Oct. -1662j  | 13 15:13     | 24 00:54     | May -1660j   | 9 19:08      | 22 05:06     |              | 9 00:53      | 23 17:51     | July -1657j  | 10 12:42    |
| 27 00:34     | 2 04:17      | 15 18:12     | 26 05:15     | 2 09:59      | 11 19:46     | 24 07:22     | Dec. -1659j  | 11 01:44     | 25 23:37     | 3 02:29      | 12 15:51    |
| 29 08:20     | 4 06:23      | 18 00:48     | 28 13:37     | 4 12:09      | 13 23:45     | 26 13:09     | 1 16:06      | 13 04:27     | 18 07:31     | 5 06:35      | 14 20:20    |
| 31 19:25     | 6 11:51      | 20 11:04     | 30 01:16     | 6 18:05      | 16 07:44     | 28 22:16     | 3 20:11      | 15 09:38     | 20 17:13     | 7 12:33      | 17 02:38    |
|              | 8 21:05      | 22 23:36     |              | 9 03:56      | 18 18:50     | 31 09:36     | 6 03:23      | 22 02:57     | 22 14:37     | 9 20:46      | 19 11:08    |
| Apr. -1662j  | 11 09:03     | 25 12:23     | Nov. -1661j  | 11 16:20     | 21 07:24     |              | 8 13:02      | 24 02:57     | 25 03:34     | 12 07:24     | 21 21:58    |
| 3 07:59      | 13 21:41     | 27 23:47     | 2 14:19      | 14 05:20     | 23 20:03     | June -1659j  | 11 00:22     | 26 12:51     | 27 16:15     | 14 19:52     | 24 10:23    |
| 5 19:49      | 16 09:12     | 30 09:03     | 5 02:51      | 16 17:32     | 26 07:58     | 2 22:00      | 13 12:51     | 28 03:34     | 30 02:26     | 17 08:30     | 26 22:31    |
| 8 05:37      | 18 18:45     |              | 7 13:46      | 19 04:06     | 28 18:21     | 5 10:40      | 16 01:41     | 31 02:26     |              | 19 19:05     | 29 08:14    |
| 10 13:08     | 21 02:07     | May -1661j   | 9 22:37      | 21 12:25     |              | 7 22:34      | 18 13:17     |              |              | 22 02:07     | 31 14:21    |
| 12 18:39     | 23 07:25     | 2 15:56      | 14 08:59     | 23 20:25     | Dec. -1660j  | 10 08:11     | 20 21:40     | July -1658j  | 13 21:45     | 26 06:45     | Feb. -1656j |
| 14 22:29     | 25 10:51     | 4 20:29      | 16 10:39     | 25 20:25     | 1 02:05      | 12 14:11     | 22 01:54     | 2 08:39      | 15 21:44     | 28 07:10     | 2 17:13     |
| 17 01:06     | 27 12:53     | 6 23:02      | 18 11:02     | 27 20:46     | 3 06:19      | 14 16:22     | 25 02:39     | 4 11:01      | 17 21:58     | 30 08:30     | 4 18:14     |
| 19 03:10     | 29 14:29     | 9 00:18      | 20 11:49     | 29 20:30     | 5 07:20      | 16 15:59     | 27 01:47     | 6 10:59      | 20 00:06     |              | 6 19:05     |
| 21 05:44     | 31 16:56     | 11 01:29     | 22 14:52     | 31 21:40     | 7 06:36      | 18 15:05     | 29 01:29     | 8 10:36      | 22 05:08     | Aug. -1657j  | 8 21:19     |
| 23 10:16     |              | 13 04:05     | 24 21:41     |              | 9 06:15      | 20 15:54     | 31 03:41     | 10 11:41     | 24 13:15     | 1 12:00      | 10 01:54    |
| 25 17:17     | Nov. -1662j  | 15 09:35     | 27 08:25     | June -1660j  | 11 08:30     | 22 20:07     |              | 12 15:35     | 26 23:55     | 3 18:16      | 13 08:59    |
| 28 03:34     | 2 21:41      | 17 18:44     | 29 21:21     | 3 02:08      | 13 14:50     | 25 04:16     | Jan. -1658j  | 14 22:45     | 29 12:16     | 6 03:12      | 15 18:16    |
| 30 15:49     | 5 05:44      | 20 06:48     |              | 5 10:47      | 16 01:08     | 27 15:26     | 2 09:30      | 17 08:45     |              | 8 14:16      | 18 05:21    |
|              | 7 16:56      | 22 19:35     | Dec. -1661j  | 7 22:44      | 18 13:41     | 30 03:57     | 4 18:46      | 19 20:45     |              | 11 02:46     | 20 17:41    |
| May -1662j   | 10 05:35     | 25 06:49     | 2 09:53      | 10 11:43     | 21 02:21     |              | 7 06:22      | 22 09:44     | Feb. -1657j  | 13 15:35     | 23 06:10    |
| 3 03:52      | 12 17:17     | 4 20:19      | 4 20:19      | 12 23:41     | 23 13:54     | July -1659j  | 9 19:01      | 24 22:29     | 1 01:14      | 16 03:05     | 25 16:58    |
| 5 13:46      | 15 02:24     | 7 04:22      | 7 04:22      | 15 09:46     | 25 23:55     | 2 16:31      | 12 07:41     | 27 09:28     | 3 13:29      | 18 11:34     | 28 00:20    |
| 7 20:43      | 17 08:45     | 9 10:29      | 9 10:29      | 17 17:52     | 28 08:01     | 5 04:13      | 14 19:19     | 29 17:10     | 5 23:25      |              |             |
| 10 01:10     | 19 13:03     | 11 15:04     | 11 15:04     | 22 03:51     | 30 13:38     | 7 14:12      | 17 04:37     | 31 21:05     | 8 05:51      | March -1656j |             |
| 12 04:06     | 21 16:15     | 13 18:15     | 13 18:15     | 24 05:44     |              | 9 21:25      | 19 10:32     |              | 10 08:40     | 1 14:28      |             |
| 14 06:31     | 23 19:07     | 15 20:19     | 15 20:19     | 26 06:31     | Jan. -1659j  | 12 01:16     | 21 12:59     | Aug. -1658j  | 12 08:53     | 3 13:29      | 4 04:22     |
| 16 09:16     | 25 22:11     | 17 22:08     | 17 22:08     | 28 07:48     | 1 16:28      | 14 02:15     | 23 13:04     | 2 21:57      | 14 08:15     | 5 03:52      | 7 04:26     |
| 18 13:00     | 28 01:58     | 20 01:10     | 20 01:10     | 30 11:29     | 3 17:11      | 16 01:52     | 25 12:36     | 4 21:22      | 18 12:02     | 9 07:44      |             |
| 20 18:20     | 30 07:14     | 22 07:04     | 22 07:04     |              | 5 17:20      | 18 02:09     | 27 13:34     | 6 21:16      | 20 19:10     | 11 14:28     |             |
| 23 01:48     |              | 24 16:42     | 24 16:42     | July -1660j  | 7 18:58      | 20 05:01     | 29 17:38     | 8 23:29      | 23 05:45     | 13 15:35     |             |
| 25 11:46     | Dec. -1662j  | 27 05:11     | 27 05:11     | 2 18:57      | 9 23:52      | 22 11:43     |              | 11 05:14     | 25 18:22     | 16 11:42     |             |
| 27 23:45     | 2 14:52      | 30 16:41     | 30 16:41     | 5 06:04      | 12 08:47     | 24 22:01     | Feb. -1658j  | 13 14:41     | 28 07:20     | 19 00:07     |             |
| 30 12:09     | 5 01:22      | 31 03:29     | 31 03:29     | 7 18:54      | 14 20:44     | 27 10:24     | 1 01:31      | 16 02:45     |              | 21 12:39     |             |
|              | 7 13:54      | 21 14:57     | Jan. -1660j  | 10 06:51     | 17 09:25     | 29 22:54     | 6 01:23      | 18 15:48     | March -1657j | 24 00:05     |             |
| June -1662j  | 10 02:07     | 12 11:40     | 1 04:21      | 12 16:30     | 19 20:50     |              | 8 13:56      | 21 04:18     | 2 19:24      | 26 08:50     |             |
| 1 22:40      | 12 11:40     | 14 17:37     | 3 11:45      | 14 23:48     | 22 06:12     | Aug. -1659j  | 10 10:12     | 23 15:13     | 4 05:39      | 28 13:47     |             |
| 4 05:50      | 14 17:37     | 16 20:42     | 5 16:46      | 17 05:19     | 24 13:35     | 1 19:42      | 13 10:13     | 25 23:42     | 7 13:18      | 30 15:07     |             |
| 6 09:40      | 16 20:42     | 18 22:29     | 7 20:31      | 19 09:28     | 26 19:07     | 6 03:02      | 15 16:49     | 28 05:12     | 9 17:49      |              |             |
| 8 11:21      | 18 22:29     | 20 01:30     | 9 23:45      | 21 12:27     | 28 22:53     | 8 07:56      | 17 20:48     | 30 07:48     | 11 19:26     | Apr. -1656j  |             |
| 10 12:32     | 21 00:30     |              |              |              |              |              |              |              |              |              |             |

with clock times in UT/GMT. The year -1656 astronomical counting style corresponds to year 1657 B.C.E historical counting style.

|              |              |              |              |              |              |              |              |              |              |              |              |
|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| May -1656j   | Nov. -1656j  | May -1655j   | Dec. -1655j  | June -1654j  | Dec. -1654j  | July -1653j  | Jan. -1652j  | July -1652j  | Feb. -1651j  | Aug. -1651j  | Feb. -1650j  |
| 1 00:23      | 10 09:34     | 22 20:10     | 2 07:01      | 13 19:03     | 24 07:56     | 1 12:49      | 11 01:23     | 22 14:24     | 1 03:57      | 13 15:48     | 23 04:18     |
| 3 01:03      | 12 11:23     | 24 23:32     | 4 11:47      | 16 01:15     | 26 15:32     | 3 15:58      | 13 05:42     | 24 18:55     | 3 08:17      | 15 19:44     | 25 08:34     |
| 5 04:52      | 14 16:53     | 27 06:26     | 6 20:06      | 18 10:35     | 29 01:38     | 5 21:40      | 15 11:59     | 27 00:52     | 5 14:15      | 18 02:01     | 27 15:35     |
| 7 12:42      | 17 02:10     | 29 16:34     | 9 07:17      | 20 22:10     | 31 13:23     | 8 05:43      | 17 20:07     | 29 08:49     | 7 22:45      | 20 11:24     |              |
| 9 23:48      | 19 14:02     |              | 11 20:01     | 23 10:53     |              | 10 15:43     | 20 06:09     | 31 19:19     | 10 10:02     | 22 23:25     | March -1650j |
| 12 12:22     | 22 02:48     | June -1655j  | 14 09:01     | 25 23:34     | Jan. -1653j  | 13 03:20     | 22 18:06     | Aug. -1652j  | 12 22:54     | 25 12:02     | 2 01:42      |
| 15 00:39     | 24 15:12     | 1 04:47      | 16 21:06     | 28 10:56     | 3 01:58      | 15 15:59     | 25 07:02     | 3 07:54      | 15 10:52     | 27 22:45     | 4 13:56      |
| 17 11:42     | 27 02:21     | 3 17:42      | 19 07:00     | 30 19:35     | 5 14:29      | 18 04:10     | 27 18:47     | 17 19:42     | 17 19:42     | 30 06:18     | 7 02:06      |
| 19 20:57     | 29 11:22     | 6 06:04      | 21 13:43     |              | 8 01:22      | 20 13:50     | 30 03:02     | 20 00:52     | 20 00:52     |              | 9 12:07      |
| 22 03:54     |              | 8 16:40      | 23 16:56     | July -1654j  | 10 09:00     | 22 19:31     |              | 22 03:20     | 22 03:20     | Sept. -1651j | 11 19:09     |
| 24 08:09     | Dec. -1656j  | 11 00:26     | 25 17:26     | 3 00:39      | 12 12:40     | 24 21:26     | Feb. -1652j  | 10 13:05     | 24 04:41     | 1 10:55      | 13 23:35     |
| 26 09:58     | 1 17:27      | 13 04:51     | 27 16:47     | 5 02:22      | 14 13:05     | 26 21:08     | 1 07:06      | 12 15:51     | 26 06:20     | 3 13:41      | 16 02:25     |
| 28 10:27     | 3 20:26      | 15 06:23     | 29 16:57     | 7 01:59      | 16 12:08     | 28 20:48     | 3 07:59      | 14 16:46     | 28 09:18     | 5 15:52      | 18 04:45     |
| 30 11:18     | 5 21:06      | 17 06:19     | 31 19:50     | 9 01:27      | 18 12:00     | 30 22:26     | 5 07:45      | 16 17:40     |              | 7 18:24      | 20 07:28     |
|              | 7 21:02      | 19 06:23     |              | 11 02:47     | 20 14:42     |              | 7 08:23      | 18 19:58     | March -1651j | 9 21:57      | 22 11:13     |
| June -1656j  | 9 22:06      | 21 08:25     | Jan. -1654j  | 13 07:37     | 22 21:16     | Aug. -1653j  | 9 11:25      | 21 00:22     | 2 14:06      | 12 03:02     | 24 16:35     |
| 1 14:22      | 12 02:01     | 23 13:50     | 15 02:42     | 15 16:24     | 25 07:19     | 2 03:15      | 11 17:24     | 23 06:58     | 4 21:00      | 14 10:09     | 27 00:04     |
| 3 20:56      | 14 09:45     | 25 23:03     | 17 13:22     | 18 04:05     | 27 19:25     | 4 11:20      | 14 02:00     | 25 15:42     | 7 06:10      | 16 19:39     | 29 09:58     |
| 6 07:04      | 16 20:52     | 28 11:05     | 19 12:12     | 20 16:56     | 30 08:06     | 6 21:48      | 16 12:38     | 28 02:30     | 9 17:33      | 19 07:23     | 31 21:54     |
| 8 19:21      | 19 09:37     |              | 21 15:11     | 23 05:28     |              | 9 09:42      | 19 00:46     | 30 15:04     | 12 06:22     | 21 20:08     |              |
| 11 07:38     | 21 21:56     | July -1655j  | 23 10:53     | 25 16:48     | Feb. -1653j  | 11 22:19     | 21 13:44     |              | 14 18:51     | 24 07:42     | Apr. -1650j  |
| 13 18:21     | 24 08:30     | 1 00:00      | 25 12:42     | 28 02:09     | 1 20:30      | 14 10:47     | 24 02:02     | Sept. -1652j | 17 04:48     | 26 16:10     | 3 10:22      |
| 16 02:54     | 26 16:53     | 3 12:04      | 27 10:12     | 30 08:44     | 4 07:45      | 16 21:29     | 26 11:38     | 2 04:05      | 19 10:58     | 28 20:57     | 5 21:07      |
| 18 09:20     | 28 23:03     | 5 22:15      | 29 01:05     |              | 6 16:38      | 19 04:45     | 28 17:10     | 4 15:22      | 21 13:37     | 30 22:54     | 8 04:34      |
| 20 13:50     | 31 03:09     | 8 06:09      | 22 03:22     | Aug. -1654j  | 8 22:03      | 21 07:59     |              | 6 22:58      | 23 14:07     |              | 10 08:35     |
| 22 16:44     |              | 10 11:35     | 24 03:51     | 12 04:00     | 10 23:54     | 23 08:06     | March -1652j | 9 02:31      | 25 14:15     | Oct. -1651j  | 12 10:14     |
| 24 18:40     | Jan. -1655j  | 12 14:41     | 26 04:02     | 3 12:43      | 12 23:25     | 25 07:06     | 1 18:55      | 11 03:11     | 27 15:41     | 2 23:32      | 14 11:10     |
| 26 20:40     | 2 05:34      | 14 16:04     | 28 05:52     | 5 12:12      | 14 22:38     | 27 07:14     | 3 18:27      | 13 02:51     | 29 19:37     | 5 00:34      | 16 12:58     |
| 29 00:03     | 4 07:03      | 16 16:49     | 30 11:08     | 7 12:33      | 16 23:47     | 29 10:23     | 5 17:52      | 15 03:26     |              | 7 03:23      | 18 16:42     |
|              | 6 08:49      | 18 18:31     |              | 9 15:50      | 19 04:37     | 31 17:21     | 7 19:10      | 17 06:25     | Apr. -1651j  | 9 08:44      | 20 22:46     |
| July -1656j  | 8 12:18      | 20 22:48     | Feb. -1654j  | 11 23:17     | 21 13:35     |              | 9 23:39      | 19 12:30     | 1 02:34      | 11 16:41     | 23 07:04     |
| 1 06:03      | 10 18:50     | 23 06:48     | 1 20:33      | 14 10:26     | 24 01:27     | Sept. -1653j | 12 07:38     | 21 21:33     | 3 12:18      | 14 02:50     | 25 17:20     |
| 3 15:18      | 13 04:51     | 25 18:12     | 4 08:59      | 16 23:17     | 26 14:14     | 3 03:36      | 14 18:24     | 24 08:51     | 6 00:06      | 16 14:40     | 28 05:14     |
| 6 03:06      | 15 17:16     | 28 07:06     | 6 21:58      | 19 11:41     |              | 5 15:43      | 17 06:49     | 26 21:31     | 8 12:58      | 19 03:23     | 30 17:53     |
| 8 15:30      | 18 05:43     | 30 19:03     | 9 09:24      | 21 22:34     | March -1653j | 8 04:21      | 19 19:45     | 29 10:31     | 11 01:38     | 21 15:36     |              |
| 11 02:19     | 20 16:07     |              | 11 18:32     | 24 07:40     | 1 02:26      | 1 02:26      | 22 08:03     |              | 13 12:30     | 24 01:27     | May -1650j   |
| 13 10:24     | 22 23:41     | Aug. -1655j  | 14 01:37     | 26 14:46     | 3 13:21      | 3 13:21      | 14 18:20     | Oct. -1652j  | 15 20:07     | 26 07:35     | 3 05:29      |
| 15 15:51     | 25 04:51     | 2 04:39      | 16 06:55     | 28 19:32     | 5 22:26      | 5 22:26      | 15 11:57     | 1 22:21      | 17 23:59     | 28 09:59     | 5 14:05      |
| 17 19:27     | 27 08:31     | 4 11:47      | 18 10:32     | 30 21:53     | 8 04:58      | 8 04:58      | 17 16:55     | 4 07:23      | 20 00:53     | 30 09:55     | 7 18:42      |
| 19 22:10     | 29 11:30     | 6 17:00      | 20 12:38     |              | 10 08:30     | 10 08:30     | 19 18:36     | 6 12:38      | 22 00:20     |              | 9 20:02      |
| 22 00:49     | 31 14:20     | 8 20:50      | 22 14:01     | Sept. -1654j | 12 09:31     | 12 09:31     | 21 18:19     | 8 14:25      | 24 00:16     | Nov. -1651j  | 11 19:48     |
| 24 04:04     |              | 10 23:37     | 24 16:08     | 1 22:34      | 14 09:25     | 14 09:25     | 23 18:02     | 10 14:06     | 26 02:34     | 1 09:23      | 13 02:02     |
| 26 08:31     | Feb. -1655j  | 13 01:48     | 26 20:41     | 3 23:10      | 16 10:13     | 16 10:13     | 25 19:48     | 12 13:34     | 28 08:26     | 3 10:23      | 15 23:32     |
| 28 14:53     | 2 17:31      | 15 04:17     |              | 6 01:42      | 18 13:49     | 18 13:49     | 28 01:07     | 4 05:01      | 30 17:58     | 5 14:31      | 18 04:12     |
| 30 23:47     | 4 21:48      | 17 08:26     | March -1654j | 8 07:48      | 20 21:19     | 20 21:19     | 30 10:17     | 6 07:53      |              | 7 22:16      | 20 12:51     |
|              | 7 04:10      | 19 15:35     | 1 04:57      | 10 17:53     | 23 08:19     | 23 08:19     |              | 8 14:25      | 16 19:14     | 10 08:54     | 22 23:37     |
| Aug. -1656j  | 9 13:27      | 22 02:12     | 3 16:38      | 13 06:25     | 25 20:56     | 25 20:56     | Oct. -1653j  | 11 00:31     | 18 04:12     | 12 21:06     | 25 11:43     |
| 2 11:10      | 12 01:22     | 24 14:58     | 6 05:32      | 15 18:53     | 28 09:05     | 28 09:05     | 2 22:09      | 13 12:55     | 20 03:44     | 15 09:47     | 28 00:25     |
| 4 23:44      | 14 14:04     | 27 03:09     | 8 17:02      | 18 05:27     | 30 19:33     | 30 19:33     | 5 10:50      | 16 01:50     | 26 16:34     | 17 22:04     | 30 12:33     |
| 7 11:10      | 17 00:52     | 29 12:38     | 11 01:45     | 20 13:46     | Apr. -1653j  | 7 22:47      | 10 09:11     | 18 13:50     | 29 04:12     | 20 08:50     |              |
| 9 19:32      | 19 08:17     | 31 18:58     | 13 07:55     | 22 20:13     | 2 04:01      | 2 04:01      | 12 17:32     | 20 23:57     | 31 13:45     | 22 16:40     | June -1650j  |
| 12 00:26     | 21 12:31     |              | 15 12:25     | 25 01:06     | 4 10:26      | 4 10:26      | 14 23:26     | 23 07:32     |              | 24 20:44     | 1 22:23      |
| 14 02:48     | 23 14:55     | Sept. -1655j | 17 15:58     | 27 04:33     | 6 14:45      | 6 14:45      | 17 02:49     | 25 12:17     | 17 11:08     | 26 21:28     | 4 04:26      |
| 16 04:14     | 25 16:59     | 2 23:05      | 19 18:57     | 29 06:49     | 8 17:13      | 8 17:13      | 19 04:14     | 27 14:29     | 19 11:07     | 28 20:31     | 6 06:35      |
| 18 06:13     | 27 19:49     | 5 02:13      | 21 21:41     |              | 10 18:35     | 10 18:35     | 21 04:56     | 29 15:05     | 21 10:33     | 30 20:05     | 8 06:11      |
| 20 09:43     |              | 7 05:13      | 23 05:56     | Oct. -1654j  | 12 10:12     | 12 10:12     | 23 06:33     |              | 23 11:31     |              | 10 05:20     |
| 22 15:07     | March -1655j | 9 08:29      | 26 05:54     | 1 08:44      | 14 23:39     | 14 23:39     | 25 10:44     | May -1652j   | 25 15:50     | Dec. -1651j  | 12 06:14     |
| 24 22:24     | 1 23:51      | 11 12:17     | 28 13:46     | 3 11:44      | 16 16:14     | 16 16:14     | 27 18:30     | 1 15:34      | 28 00:18     | 2 22:20      | 14 10:28     |
| 27 07:38     | 4 05:16      | 13 17:15     | 31 00:47     | 5 17:20      | 18 02:27     | 18 02:27     | 30 05:35     | 3 17:39      | 30 12:05     | 5 04:39      | 16 18:29     |
| 29 18:53     | 6 12:21      | 16 00:25     |              | 8 02:27      | 20 10:42     | 20 10:42     |              | 5 22:48      |              | 7 14:49      | 19 05:21     |
|              | 8 21:39      | 18 10:33     | Apr. -1654j  | 10 14:25     | 22 04:27     | 22 04:27     |              | 8 07:44      | 17 21:28     | 10 03:11     | 22 17:40     |
| Sept. -1656j | 11 09:17     | 20 23:05     | 2 13:33      | 13 03:01     | 24 16:41     | 24 16:41     | Nov. -1653j  | 10 19:41     | 20 10:20     | 12 15:55     | 24 06:20     |
| 1 07:32      | 13 22:07     | 23 11:46     | 5 01:24      | 15 13:50     | 27 03:02     | 27 03:02     | 1 18:14      | 22 03:34     | 22 23:07     | 15 03:56     | 26 18:29     |
| 3 19:45      | 16 09:42     | 25 21:53     | 7 10:21      | 17 21:47     | 29 10:49     | 29 10:49     | 4 06:11      | 25 10:19     | 7 00:18      | 17 14:40     | 29 04:59     |
| 6 05:13      | 18 17:49     | 28 04:13     | 9 16:03      | 20 03:10     | May -1653j   | 6 16:02      | 8 23:28      | 18 05:50     | 27 19:18     | 19 23:21     |              |
| 8 10:40      | 20 22:02     | 30 07:26     | 11 19:27     | 22 06:55     | 1 16:19      | 1 16:19      | 10 11:45     | 20 12:58     | 30 02:15     | 22 05:06     | July -1650j  |
| 10 12:34     | 22 23:30     |              | 13 21:52     | 24 09:54     | 3 30:08      | 3 30:08      | 13 08:39     | 22 18:01     |              | 24 07:38     | 1 12:28      |
| 12 12:40     | 25 00:09     | Oct. -1655j  | 16 00:19     | 26 12:44     | 5 22:58      | 5 22:58      | 15 11:26     | 24 21:23     | 15 20:55     | 26 07:46     | 3 16:13      |
| 14 13:01     | 27 01:41     | 2 09:09      | 18 03:25     | 28 15:57     | 7 10:42      | 7 10:42      | 17 13:46     | 26 23:30     | 17 21:03     | 28 07:18     | 5 16:50      |
| 16 15:22     | 29 05:13     | 4 10:56      | 20 07:40     | 30 20:13     | 9 01:27      | 9 01:27      | 19 16:31     | 29 01:10     | 19 21:42     | 30 08:26     | 7 16:02      |
| 18 20:32     | 31 11:01     | 6 13:50      | 22 13:36     |              | 11 04:22     | 11 04:22     | 21 20:49     | 31 03:33     | 22 00:52     |              | 9 15:59      |
| 20 21:04     |              | 8 18:14      | 24 21:52     | Nov. -1654j  | 13 08:39     | 13 08:39     | 24 03:47     |              | 24 07:59     | Jan. -1650j  | 11 18:41     |
| 23 14:19     | Apr. -1655j  | 11 00:16     | 27 08:44     | 1 20:25      | 15 14:14     | 15 14:14     | 26 03:47     | 10 14:38     | 26 18:57     | 1 13:02      | 14 01:16     |
| 26 01:47     | 2 18:54      | 13 08:11     | 29 21:21     | 4 11:16      | 17 00:38     | 17 00:38     | 28 08:08     | 12 20:00     | 29 07:48     | 3 21:50      | 16 11:28     |
| 28 14:25     | 5 04:44      | 15 18:25     |              | 6 22:43      | 19 12:26     | 19 12:26     | 30 02:20     | 14 16:03     |              | 6 09:45      | 18 23:45     |
|              | 7 16:27      | 18 08:48     | May -1654j   | 9 11:24      | 21 00:49     | 21 00:49     |              | 7 03:17      | 17 17:45     | 8 22:31      | 21 12:23     |
| Oct. -1656j  | 10 05:20     | 20 19:51     | 2 09:41      | 11 22:56     | 24 11:34     | 24 11:34     | Dec. -1653j  | 9 16:06      | 20 06:37     | 11 10:21     | 24 00:13     |
| 1 03:07      | 12 17:36     | 23 07:03     | 4 19:26      | 14 07:26     | 26 19:16     | 26 19:16     | 1 14:40      | 12 03:54     | 22 17:36     | 13 20:30     | 26 10:32     |
| 3 13:54      | 15 02:54     | 25 14:28     | 7 01:33      | 16 12:31     | 28 23:56     | 28 23:56     | 4 00:37      | 14 13:01     | 25 01:53     | 16 04:49     | 28 18:36     |
| 5 20:52      | 17 08:05     | 27 17:56     | 9 04:32      | 18 15:03     | 30 02:34     | 30 02:34     | 6 07:22      | 16 19:16     | 27 07:56     | 18 11:05     | 30 23:45     |
| 7 23:39      | 19 09:43     | 29 18        |              |              |              |              |              |              |              |              |              |



|              |              |              |              |              |              |              |              |              |              |              |              |
|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Sept. -1650j | March -1649j | Sept. -1649j | Apr. -1648j  | Oct. -1648j  | Apr. -1647j  | Nov. -1647j  | May -1646j   | Nov. -1646j  | June -1645j  | Dec. -1645j  | June -1644j  |
| 2 12:30      | 15 00:22     | 24 09:54     | 2 19:47      | 13 04:24     | 24 14:59     | 1 23:26      | 14 10:37     | 23 21:51     | 1 06:13      | 11 17:03     | 22 04:47     |
| 4 14:52      | 17 02:56     | 26 12:48     | 4 20:48      | 15 06:22     | 26 18:43     | 4 01:23      | 16 14:09     | 26 02:45     | 3 07:20      | 13 19:08     | 24 07:58     |
| 6 19:31      | 19 08:13     | 28 19:21     | 7 00:51      | 17 12:21     | 29 02:26     | 6 06:59      | 18 20:58     | 28 10:45     | 5 10:30      | 15 23:33     | 26 13:08     |
| 9 03:24      | 21 17:02     |              | 9 09:00      | 19 22:27     |              | 8 16:11      | 21 06:43     | 30 21:19     | 7 16:24      | 18 06:33     | 28 20:19     |
| 11 14:27     | 24 04:51     | Oct. -1649j  | 11 20:40     | 22 10:59     | May -1647j   | 11 03:46     | 23 18:31     |              | 10 01:03     | 20 15:50     |              |
| 14 03:00     | 26 17:37     | 1 05:48      | 14 09:40     | 24 23:47     | 1 13:24      | 13 16:24     | 26 07:21     | Dec. -1646j  | 12 11:59     | 23 02:57     | July -1644j  |
| 16 14:46     | 29 04:58     | 3 18:38      | 16 21:45     | 27 11:26     | 4 01:52      | 16 05:04     | 28 20:04     | 3 09:38      | 15 00:24     | 25 15:22     | 1 05:31      |
| 19 00:05     | 31 13:41     | 6 07:16      | 19 07:50     | 29 21:31     | 6 14:22      | 18 16:50     | 31 07:13     | 5 22:41      | 17 13:13     | 28 03:58     | 3 16:39      |
| 21 06:38     |              | 8 17:56      | 21 15:51     |              | 9 01:58      | 21 02:26     |              | 8 11:10      | 20 00:50     | 30 14:59     | 6 05:08      |
| 23 11:05     | Apr. -1649j  | 11 02:09     | 23 21:56     | Nov. -1648j  | 11 11:57     | 23 08:42     | June -1646j  | 10 21:25     | 22 09:37     |              | 8 17:23      |
| 25 14:18     | 2 19:49      | 13 08:21     | 26 02:04     | 1 05:43      | 13 19:25     | 25 11:22     | 2 15:18      | 13 04:07     | 24 14:40     | Jan. -1644j  | 11 03:09     |
| 27 17:06     | 5 00:06      | 15 12:57     | 28 04:21     | 3 11:32      | 15 23:44     | 27 11:28     | 4 19:39      | 15 07:05     | 26 16:22     | 1 22:38      | 13 09:04     |
| 29 20:02     | 7 03:19      | 17 16:10     | 30 05:28     | 5 14:37      | 18 01:10     | 29 10:51     | 6 20:53      | 17 07:20     | 28 16:07     | 4 02:20      | 15 11:22     |
|              | 9 06:02      | 19 18:18     |              | 7 15:28      | 20 01:02     |              | 8 20:28      | 19 06:36     | 30 15:49     | 6 02:58      | 17 11:36     |
| Oct. -1650j  | 11 08:44     | 21 20:09     | May -1648j   | 9 15:34      | 22 01:16     | Dec. -1647j  | 10 20:20     | 21 06:52     |              | 8 02:22      | 19 11:48     |
| 1 12:44      | 13 12:10     | 23 23:07     | 2 06:52      | 11 16:57     | 24 03:52     | 1 11:33      | 12 22:19     | 23 09:54     | July -1645j  | 10 02:37     | 21 13:46     |
| 4 04:56      | 15 17:28     | 26 04:47     | 4 10:21      | 13 21:31     | 26 10:09     | 3 15:21      | 15 03:42     | 25 16:45     | 2 17:24      | 12 05:33     | 23 18:33     |
| 6 12:29      | 18 01:38     | 28 14:08     | 6 17:25      | 16 06:11     | 28 20:09     | 5 23:03      | 17 12:45     | 28 03:09     | 4 22:14      | 14 12:01     | 26 02:10     |
| 8 22:51      | 20 12:51     | 31 02:28     | 9 04:11      | 18 18:05     | 31 08:24     | 8 10:06      | 20 00:32     | 30 15:44     | 7 06:42      | 16 21:39     | 28 11:59     |
| 11 11:15     | 23 01:35     |              | 11 16:57     | 21 06:53     |              | 10 22:47     | 22 13:26     |              | 9 17:57      | 19 09:17     | 30 23:24     |
| 13 23:30     | 25 13:17     | Nov. -1649j  | 14 05:04     | 23 18:24     | June -1647j  | 13 11:21     | 25 01:56     | Jan. -1645j  | 12 06:35     | 21 21:48     | Aug. -1644j  |
| 16 09:15     | 27 21:55     | 2 15:18      | 16 14:51     | 26 03:50     | 2 20:51      | 15 22:38     | 27 12:54     | 2 04:48      | 14 19:20     | 24 10:25     | 1 21:54      |
| 18 15:28     | 30 03:18     | 5 01:59      | 18 22:06     | 28 11:16     | 5 08:07      | 18 07:59     | 29 21:30     | 4 17:03      | 17 07:08     | 26 22:01     | 3 11:54      |
| 20 18:44     |              | 7 09:34      | 21 03:27     | 30 16:58     | 7 17:34      | 20 14:54     |              | 7 03:34      | 19 16:54     | 29 07:07     | 5 00:31      |
| 22 20:34     | May -1649j   | 9 14:39      | 23 07:31     |              | 10 00:55     | 22 19:10     | July -1646j  | 9 11:30      | 21 23:31     | 31 12:29     | 7 11:26      |
| 24 22:30     | 2 06:28      | 11 18:23     | 25 10:36     | Dec. -1648j  | 12 05:59     | 24 21:06     | 2 03:12      | 11 16:18     | 24 02:39     |              | 9 18:46      |
| 27 01:37     | 4 08:49      | 13 21:39     | 27 13:02     | 2 20:59      | 14 08:50     | 26 21:46     | 4 06:04      | 13 18:09     | 26 03:01     | Feb. -1644j  | 11 21:59     |
| 29 06:18     | 6 11:29      | 16 00:49     | 29 15:36     | 4 23:29      | 16 10:09     | 28 22:41     | 6 06:51      | 15 18:05     | 28 02:16     | 2 14:09      | 13 22:09     |
| 31 12:38     | 8 14:57      | 18 04:08     | 31 19:34     | 7 10:10      | 18 11:16     | 31 01:33     | 8 06:59      | 17 17:49     | 30 02:30     | 4 13:29      | 15 21:16     |
|              | 10 19:31     | 20 08:13     |              | 9 03:21      | 20 13:46     |              | 10 18:12     | 19 19:23     |              | 6 12:36      | 17 21:36     |
| Nov. -1650j  | 13 01:35     | 22 14:07     | June -1648j  | 11 07:38     | 22 19:10     | Jan. -1646j  | 12 12:11     | 22 00:29     | Aug. -1645j  | 8 13:46      | 20 00:53     |
| 2 20:46      | 15 09:52     | 24 22:57     | 3 02:17      | 13 15:16     | 25 04:05     | 2 07:44      | 14 19:58     | 24 09:46     | 1 05:42      | 10 18:37     | 22 07:48     |
| 5 06:59      | 17 20:46     | 27 10:44     | 5 12:23      | 16 02:12     | 27 15:47     | 4 17:36      | 17 07:12     | 26 22:05     | 3 13:01      | 13 03:28     | 24 17:45     |
| 7 19:12      | 20 09:30     | 29 23:42     | 8 00:48      | 18 14:49     | 30 04:15     | 7 05:57      | 19 20:04     | 29 11:12     | 5 23:56      | 15 15:08     | 27 05:30     |
| 10 07:56     | 22 21:46     |              | 10 13:10     | 21 02:36     |              | 9 18:35      | 22 08:24     | 31 23:10     | 8 12:41      | 18 03:50     | 29 18:03     |
| 12 18:45     | 25 07:04     | Dec. -1649j  | 12 23:09     | 23 11:54     | July -1647j  | 12 05:33     | 24 18:50     |              | 11 01:20     | 20 16:19     |              |
| 15 01:44     | 27 12:28     | 2 11:02      | 15 06:01     | 25 18:29     | 2 15:27      | 14 14:06     | 27 02:59     | Feb. -1645j  | 13 12:51     | 23 03:49     | Sept. -1644j |
| 17 14:50     | 29 14:50     | 4 18:52      | 17 10:23     | 27 23:01     | 5 00:19      | 16 20:21     | 29 08:58     | 3 09:11      | 15 22:41     | 25 13:30     | 1 06:37      |
| 19 15:29     | 31 15:53     | 6 23:18      | 19 13:22     | 30 02:21     | 7 06:48      | 19 00:47     | 31 13:00     | 5 17:07      | 18 06:18     | 27 20:19     | 3 18:03      |
| 21 05:44     |              | 9 01:42      | 21 15:58     |              | 9 11:23      | 21 03:54     |              | 7 22:53      | 20 11:05     | 29 23:43     | 6 02:47      |
| 23 07:27     | June -1649j  | 11 03:36     | 23 18:48     | Jan. -1647j  | 11 14:37     | 23 06:11     | Aug. -1646j  | 10 02:24     | 22 13:01     |              | 8 07:43      |
| 25 11:41     | 2 17:20      | 13 06:09     | 25 22:23     | 1 05:10      | 13 17:06     | 25 08:26     | 2 15:24      | 12 03:58     | 24 13:05     | March -1644j | 10 09:04     |
| 27 18:31     | 4 20:19      | 15 09:54     | 28 03:24     | 3 08:03      | 15 19:35     | 27 11:43     | 4 16:49      | 14 04:35     | 26 13:05     | 3 00:17      | 12 08:24     |
| 30 03:28     | 7 01:14      | 17 15:04     | 30 10:36     | 5 11:38      | 17 23:00     | 29 17:20     | 6 18:27      | 16 05:55     | 28 15:08     | 4 23:38      | 14 07:50     |
|              | 9 08:08      | 19 21:59     |              | 7 16:49      | 20 04:27     |              | 8 21:52      | 18 09:53     | 30 20:56     | 6 23:57      | 16 09:28     |
| Dec. -1650j  | 11 17:02     | 22 07:08     | July -1648j  | 10 00:24     | 22 12:44     | Feb. -1646j  | 11 04:31     | 20 17:47     |              | 9 03:14      | 18 14:47     |
| 2 14:09      | 14 04:04     | 24 18:42     | 2 20:31      | 12 10:45     | 24 23:49     | 1 02:10      | 13 14:52     | 23 05:19     | Sept. -1645j | 11 10:35     | 20 23:52     |
| 5 02:19      | 16 16:48     | 27 07:39     | 5 08:42      | 14 23:02     | 27 12:19     | 3 13:54      | 16 03:31     | 25 18:19     | 2 06:51      | 13 21:30     | 23 11:35     |
| 7 15:13      | 19 05:35     | 29 19:45     | 7 21:21      | 17 11:15     | 29 23:52     | 6 02:37      | 18 15:57     | 28 06:14     | 4 19:21      | 16 10:09     | 26 00:14     |
| 10 03:01     | 21 15:58     |              | 10 08:05     | 19 21:10     |              | 8 13:47      | 21 02:04     |              | 6 07:59      | 18 22:33     | 28 12:33     |
| 12 11:31     | 23 22:20     | Jan. -1648j  | 12 15:24     | 22 03:44     | Aug. -1647j  | 10 21:55     | 23 09:23     | March -1645j | 9 19:09      | 20 23:39     | 30 23:42     |
| 14 15:45     | 26 00:54     | 1 04:41      | 14 19:24     | 24 07:20     | 1 08:43      | 13 03:08     | 25 14:32     | 2 15:43      | 12 04:21     | 23 18:59     |              |
| 16 16:31     | 28 01:12     | 3 09:40      | 16 21:15     | 26 09:14     | 3 14:27      | 15 06:31     | 27 18:26     | 4 22:52      | 14 11:44     | 26 02:10     | Oct. -1644j  |
| 18 15:46     | 30 01:13     | 5 11:34      | 18 22:26     | 28 10:52     | 5 17:51      | 17 09:16     | 29 21:39     | 7 04:16      | 16 17:14     | 28 06:48     | 3 08:50      |
| 20 15:44     |              | 7 12:05      | 21 00:19     | 30 13:26     | 7 20:09      | 19 12:10     |              | 9 08:19      | 18 20:41     | 30 08:59     | 5 15:09      |
| 22 18:14     | July -1649j  | 9 12:57      | 23 03:52     | Feb. -1647j  | 9 22:33      | 21 15:41     | Sept. -1646j | 11 11:11     | 20 22:24     |              | 7 18:20      |
| 25 00:07     | 2 02:42      | 11 15:31     | 25 22:23     | 1 17:41      | 12 01:50     | 23 20:09     | 1 00:29      | 13 13:16     | 22 23:25     | Apr. -1644j  | 9 19:07      |
| 27 09:08     | 4 06:46      | 13 20:31     | 27 17:36     | 3 23:57      | 14 06:26     | 26 02:16     | 3 03:24      | 15 15:34     | 25 01:29     | 1 09:39      | 11 19:03     |
| 29 20:18     | 6 13:40      | 16 04:05     | 30 03:55     | 5 08:18      | 16 12:43     | 28 10:49     | 5 07:22      | 17 19:34     | 27 06:22     | 3 10:25      | 13 20:03     |
|              | 8 23:05      | 18 13:59     |              | 8 18:43      | 18 21:08     |              | 7 13:40      | 20 02:42     | 29 15:06     | 5 13:07      | 15 23:52     |
| Jan. -1649j  | 11 10:31     | 21 01:47     | Aug. -1648j  | 11 06:49     | 21 07:53     | March -1646j | 9 23:15      | 22 13:23     |              | 7 19:14      | 18 07:29     |
| 1 08:40      | 13 23:19     | 23 14:42     | 1 16:04      | 13 19:19     | 23 20:21     | 2 22:03      | 12 11:35     | 25 02:06     | Oct. -1645j  | 10 05:01     | 20 18:29     |
| 3 21:30      | 16 12:18     | 26 03:13     | 4 04:54      | 16 06:13     | 26 08:35     | 5 10:48      | 15 00:19     | 27 14:13     | 2 02:57      | 12 17:14     | 23 07:06     |
| 6 09:36      | 18 23:36     | 28 13:22     | 6 16:31      | 18 13:44     | 28 18:13     | 7 22:32      | 17 10:46     | 29 23:41     | 4 15:39      | 15 05:30     | 25 19:20     |
| 9 18:18      | 21 07:27     | 30 19:49     | 9 01:03      | 20 17:30     | 31 00:03     | 10 07:04     | 19 17:44     |              | 7 02:49      | 17 16:30     | 28 05:55     |
| 11 01:17     | 23 11:16     |              | 11 05:47     | 22 10:18     |              | 12 11:53     | 21 21:50     | Apr. -1645j  | 9 11:28      | 20 01:09     | 30 14:24     |
| 13 03:28     | 25 11:59     | Feb. -1648j  | 13 07:21     | 24 18:38     | Sept. -1647j | 14 14:08     | 24 00:29     | 1 06:09      | 11 17:51     | 22 07:40     |              |
| 15 03:11     | 27 11:22     | 1 12:33      | 15 07:20     | 26 19:42     | 2 02:38      | 16 15:33     | 26 03:00     | 3 10:30      | 13 22:38     | 24 12:18     | Nov. -1644j  |
| 17 02:27     | 29 11:23     | 3 22:49      | 17 07:35     | 28 23:09     | 4 03:31      | 18 17:37     | 28 06:08     | 5 13:46      | 16 02:18     | 26 15:23     | 1 20:43      |
| 19 03:19     | 31 13:47     | 5 22:23      | 19 09:48     |              | 6 04:33      | 20 21:11     | 30 10:07     | 7 16:40      | 18 05:08     | 28 17:27     | 4 00:58      |
| 21 07:25     |              | 7 23:10      | 21 15:02     | March -1647j | 8 07:12      | 22 03:20     |              | 9 19:39      | 20 07:41     | 30 19:29     | 6 03:28      |
| 23 15:18     | Aug. -1649j  | 10 02:41     | 23 23:26     | 3 05:34      | 10 12:09     | 25 09:32     | Oct. -1646j  | 11 23:10     | 22 10:53     |              | 8 04:59      |
| 26 02:15     | 2 19:35      | 12 09:41     | 26 10:18     | 5 14:37      | 12 19:20     | 27 18:31     | 2 15:15      | 14 04:04     | 24 16:01     | May -1644j   | 10 06:44     |
| 28 14:50     | 5 04:46      | 14 19:50     | 28 22:39     | 8 01:32      | 15 04:25     | 30 05:41     | 4 22:09      | 16 11:22     | 27 00:07     | 2 22:45      | 12 10:11     |
| 31 03:34     | 7 16:28      | 17 08:03     | 31 11:29     | 10 13:42     | 17 15:19     |              | 7 07:36      | 18 21:37     | 29 11:16     | 5 04:29      | 14 16:38     |
|              | 10 05:23     | 19 20:59     |              | 13 02:18     | 20 03:44     |              | 9 19:37      | 20 11:04     | 31 23:55     | 7 13:26      | 17 02:32     |
| Feb. -1649j  | 12 18:14     | 22 09:29     | Sept. -1648j | 15 13:58     | 22 16:29     | 1 18:26      | 12 08:39     | 23 22:30     |              | 10 01:02     | 19 14:51     |
| 2 15:22      | 15 05:47     | 24 20:14     | 2 23:37      | 17 22:50     | 25 03:20     | 4 06:48      | 14 19:59     | 26 08:32     | Nov. -1645j  | 12 13:29     | 22 03:16     |
| 5 01:16      | 17 14:44     | 27 04:06     | 5 09:29      | 20 03:49     | 27 10:23     | 6 16:20      | 17 03:37     | 28 15:05     | 3 11:35      | 25 23:18     | 24 13:43     |
| 7 08:23      | 19 20:15     | 29 08:30     | 7 15:49      | 22 05:13     | 29 13:19     | 8 21:47      | 19 07:31     | 30 18:42     | 5 20:26      | 28 02:27     | 26 21:22     |
| 9 12:19      | 21 22:29     |              | 9 18:24      | 24 04:38     | </           |              |              |              |              |              |              |

with clock times in UT/GMT. The year -1643 astronomical counting style corresponds to year 1644 B.C.E historical counting style.

|              |              |              |              |              |              |              |              |              |             |             |             |
|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|-------------|-------------|
| Jan. -1643j  | July -1643j  | Jan. -1642j  | Aug. -1642j  | Feb. -1641j  | Aug. -1641j  | March -1640j | Sept. -1640j | March -1639j | Oct. -1639j | Apr. -1638j | Oct. -1638j |
| ♈ 1 17:36    | ♈ 14 06:36   | ♈ 23 19:55   | ♈ 1 02:40    | ♈ 10 15:37   | ♈ 23 02:26   | ♈ 1 13:08    | ♈ 10 23:21   | ♈ 23 10:19   | ♈ 2 18:45   | ♈ 14 04:42  | ♈ 24 13:39  |
| ♈ 3 21:39    | ♈ 16 10:24   | ♈ 25 23:19   | ♈ 3 05:01    | ♈ 12 17:14   | ♈ 25 03:06   | ♈ 3 13:59    | ♈ 12 23:13   | ♈ 25 09:51   | ♈ 4 18:13   | ♈ 16 05:13  | ♈ 26 15:53  |
| ♈ 6 03:10    | ♈ 18 15:23   | ♈ 28 04:14   | ♈ 5 06:59    | ♈ 14 18:54   | ♈ 27 04:38   | ♈ 5 14:32    | ♈ 14 23:32   | ♈ 27 10:36   | ♈ 6 20:12   | ♈ 18 08:57  | ♈ 28 21:35  |
| ♈ 8 10:20    | ♈ 20 22:25   | ♈ 30 11:52   | ♈ 7 09:54    | ♈ 16 22:12   | ♈ 29 08:39   | ♈ 7 16:29    | ♈ 17 02:11   | ♈ 29 14:28   | ♈ 9 02:09   | ♈ 20 16:33  | ♈ 31 06:32  |
| ♈ 10 19:34   | ♈ 23 08:16   |              | ♈ 9 15:16    | ♈ 19 04:32   | ♈ 31 16:13   | ♈ 9 21:22    | ♈ 19 08:34   | ♈ 31 22:26   | ♈ 11 12:06  | ♈ 23 03:15  |             |
| ♈ 13 07:05   | ♈ 25 20:35   | Feb. -1642j  | ♈ 12 00:06   | ♈ 21 14:20   | Sept. -1641j | ♈ 12 05:58   | ♈ 21 18:52   |              | ♈ 14 00:28  | ♈ 25 15:32  | Nov. -1638j |
| ♈ 15 19:56   | ♈ 28 09:20   | ♈ 1 22:40    | ♈ 14 11:56   | ♈ 24 02:30   | ♈ 3 03:07    | ♈ 14 17:39   | ♈ 24 07:36   | Apr. -1639j  | ♈ 16 13:19  | ♈ 28 04:07  | Dec. -1637j |
| ♈ 18 07:46   | ♈ 30 19:48   | ♈ 4 11:28    | ♈ 17 00:36   | ♈ 26 14:48   | ♈ 5 15:41    | ♈ 17 06:29   | ♈ 26 20:28   | ♈ 3 09:55    | ♈ 19 01:27  | ♈ 30 16:10  | ♈ 2 17:42   |
| ♈ 20 16:15   |              | ♈ 6 23:36    | ♈ 19 11:38   |              | ♈ 8 03:41    | ♈ 19 18:17   | ♈ 29 07:49   | ♈ 5 22:55    | ♈ 21 12:14  |             | ♈ 5 06:03   |
| ♈ 22 20:41   | Aug. -1643j  | ♈ 9 08:48    | ♈ 21 19:46   | March -1641j | ♈ 10 13:41   | ♈ 22 03:52   |              | ♈ 8 11:23    | ♈ 23 21:02  | May -1638j  | ♈ 7 18:52   |
| ♈ 24 22:08   | ♈ 2 02:32    | ♈ 11 14:33   | ♈ 24 01:15   | ♈ 1 01:14    | ♈ 12 11:18   | ♈ 24 11:03   | Oct. -1640j  | ♈ 10 22:13   | ♈ 26 02:59  | ♈ 3 02:43   | ♈ 12 17:06  |
| ♈ 26 22:30   | ♈ 4 05:58    | ♈ 13 17:49   | ♈ 26 05:02   | ♈ 3 09:01    | ♈ 15 02:49   | ♈ 26 16:10   | ♈ 1 17:02    | ♈ 13 07:03   | ♈ 28 05:46  | ♈ 5 10:34   | ♈ 14 23:25  |
| ♈ 28 23:43   | ♈ 6 07:39    | ♈ 15 20:01   | ♈ 28 08:01   | ♈ 5 14:28    | ♈ 17 06:42   | ♈ 28 19:39   | ♈ 4 00:06    | ♈ 15 13:41   | ♈ 30 06:02  | ♈ 7 14:51   | ♈ 17 01:49  |
| ♈ 31 03:01   | ♈ 8 09:16    | ♈ 17 22:20   | ♈ 30 10:49   | ♈ 7 18:17    | ♈ 19 09:27   | ♈ 30 21:59   | ♈ 6 05:03    | ♈ 17 17:52   |             | ♈ 9 15:57   | ♈ 19 01:32  |
|              | ♈ 10 11:57   | ♈ 20 01:29   |              | ♈ 9 21:10    | ♈ 21 11:42   |              | ♈ 8 07:59    | ♈ 19 19:44   | Nov. -1639j | ♈ 11 15:22  | ♈ 21 00:36  |
| Feb. -1643j  | ♈ 12 16:12   | ♈ 22 05:49   | Sept. -1642j | ♈ 11 23:46   | ♈ 23 14:21   | Apr. -1640j  | ♈ 10 09:25   | ♈ 21 20:12   | ♈ 1 05:31   | ♈ 13 15:12  | ♈ 23 01:11  |
| ♈ 2 08:47    | ♈ 14 22:08   | ♈ 24 11:47   | ♈ 1 13:57    | ♈ 14 02:48   | ♈ 25 18:34   | ♈ 1 23:53    | ♈ 12 10:24   | ♈ 23 20:54   | ♈ 3 06:24   | ♈ 15 17:31  | ♈ 25 05:01  |
| ♈ 4 16:45    | ♈ 17 05:56   | ♈ 26 19:58   | ♈ 3 18:05    | ♈ 16 07:06   | ♈ 28 01:26   | ♈ 4 02:24    | ♈ 14 12:36   | ♈ 25 23:48   | ♈ 5 10:40   | ♈ 17 23:39  | ♈ 27 12:45  |
| ♈ 7 02:37    | ♈ 19 15:58   |              | ♈ 6 00:05    | ♈ 18 13:36   | ♈ 30 11:27   | ♈ 6 06:54    | ♈ 16 17:44   | ♈ 28 06:27   | ♈ 7 19:12   | ♈ 20 09:32  | ♈ 29 23:39  |
| ♈ 9 14:16    | ♈ 22 04:10   | March -1642j | ♈ 8 08:46    | ♈ 20 22:53   | Oct. -1641j  | ♈ 8 14:32    | ♈ 19 02:47   | ♈ 30 17:01   | ♈ 10 07:03  | ♈ 22 21:41  |             |
| ♈ 12 03:07   | ♈ 24 17:13   | ♈ 1 06:41    | ♈ 10 20:08   | ♈ 22 10:35   | ♈ 2 23:43    | ♈ 11 01:27   | ♈ 24 03:57   | May -1639j   | ♈ 12 19:56  | ♈ 25 10:16  | Dec. -1638j |
| ♈ 14 15:37   | ♈ 27 04:38   | ♈ 3 19:19    | ♈ 13 08:49   | ♈ 25 23:02   | ♈ 5 12:03    | ♈ 13 14:10   | ♈ 26 15:09   | ♈ 3 05:46    | ♈ 15 07:51  | ♈ 27 22:01  | ♈ 2 12:12   |
| ♈ 17 01:24   | ♈ 29 12:24   | ♈ 6 07:53    | ♈ 15 20:29   | ♈ 28 09:59   | ♈ 7 22:10    | ♈ 16 02:07   | ♈ 28 23:37   | ♈ 5 18:12    | ♈ 17 18:04  | ♈ 30 08:16  | ♈ 5 00:56   |
| ♈ 19 07:02   | ♈ 31 16:09   | ♈ 8 18:01    | ♈ 18 05:11   | ♈ 30 17:52   | ♈ 10 05:09   | ♈ 18 11:26   | ♈ 31 05:46   | ♈ 8 04:39    | ♈ 20 02:28  |             | ♈ 7 12:50   |
| ♈ 21 08:51   |              | ♈ 11 00:25   | ♈ 20 10:26   |              | ♈ 12 12:37   | ♈ 20 17:46   |              | ♈ 10 12:49   | ♈ 22 08:55  | June -1638j | ♈ 9 22:59   |
| ♈ 23 08:33   | Sept. -1643j | ♈ 13 03:27   | ♈ 22 13:07   | Apr. -1641j  | ♈ 14 12:18   | ♈ 22 21:56   | Nov. -1640j  | ♈ 12 19:05   | ♈ 24 13:09  | ♈ 1 16:25   | ♈ 12 06:27  |
| ♈ 25 08:15   | ♈ 2 17:10    | ♈ 15 04:31   | ♈ 24 14:38   | ♈ 1 22:37    | ♈ 4 01:12    | ♈ 25 01:01   | ♈ 2 20:25    | ♈ 14 23:43   | ♈ 26 15:13  | ♈ 3 21:52   | ♈ 14 10:42  |
| ♈ 27 09:50   | ♈ 4 17:20    | ♈ 17 05:18   | ♈ 26 16:23   | ♈ 6 02:57    | ♈ 8 05:09    | ♈ 27 03:52   | ♈ 4 14:04    | ♈ 17 02:49   | ♈ 28 16:03  | ♈ 6 00:33   | ♈ 16 12:07  |
|              | ♈ 6 18:27    | ♈ 19 07:13   | ♈ 28 19:24   | ♈ 8 05:09    | ♈ 10 08:41   | ♈ 29 06:56   | ♈ 6 16:59    | ♈ 19 04:44   | ♈ 30 17:17  | ♈ 8 01:16   | ♈ 18 12:03  |
| March -1643j | ♈ 8 21:45    | ♈ 21 11:12   | Oct. -1642j  | ♈ 10 08:41   | ♈ 12 14:00   | May -1640j   | ♈ 8 19:30    | Dec. -1639j  | ♈ 10 01:36  | ♈ 10 01:36  | ♈ 20 12:19  |
| ♈ 1 14:28    | ♈ 11 03:40   | ♈ 23 17:41   | ♈ 1 00:18    | ♈ 12 14:00   | ♈ 20 21:54   | ♈ 1 10:38    | ♈ 10 23:33   | ♈ 2 20:47    | ♈ 12 03:24  | ♈ 12 03:24  | ♈ 22 14:46  |
| ♈ 3 22:15    | ♈ 13 12:07   | ♈ 26 02:37   | ♈ 3 07:21    | ♈ 14 21:20   | ♈ 23 03:12   | ♈ 3 15:44    | ♈ 13 03:31   | ♈ 23 09:27   | ♈ 16 17:01  | ♈ 14 08:20  | ♈ 24 20:47  |
| ♈ 6 08:33    | ♈ 15 22:43   | ♈ 28 13:44   | ♈ 5 16:35    | ♈ 17 06:50   | ♈ 25 10:23   | ♈ 5 23:11    | ♈ 15 11:42   | ♈ 25 15:24   | ♈ 19 04:37  | ♈ 16 17:01  | ♈ 27 06:34  |
| ♈ 8 20:33    | ♈ 18 11:01   | ♈ 31 02:22   | ♈ 8 03:54    | ♈ 19 18:21   | ♈ 27 19:59   | ♈ 8 09:35    | ♈ 17 23:11   | ♈ 28 01:03   | ♈ 21 17:10  | ♈ 19 04:37  | ♈ 29 18:53  |
| ♈ 11 09:26   | ♈ 21 00:06   |              | ♈ 10 16:32   | ♈ 22 06:55   | ♈ 30 07:55   | ♈ 10 22:08   | ♈ 20 12:10   | ♈ 30 13:23   | ♈ 24 04:45  | ♈ 21 17:10  |             |
| ♈ 13 22:05   | ♈ 23 12:15   | Apr. -1642j  | ♈ 13 04:50   | ♈ 24 18:36   | Nov. -1641j  | ♈ 13 10:30   | ♈ 22 23:44   | June -1639j  | ♈ 26 14:25  | ♈ 26 14:25  | Jan. -1637j |
| ♈ 16 08:48   | ♈ 25 21:27   | ♈ 5 12:16    | ♈ 15 14:45   | ♈ 27 03:21   | ♈ 1 20:37    | ♈ 15 20:10   | ♈ 25 08:07   | ♈ 2 01:53    | ♈ 28 16:03  | ♈ 28 16:03  | ♈ 1 07:38   |
| ♈ 18 15:59   | ♈ 28 02:38   | ♈ 7 09:58    | ♈ 17 20:57   | ♈ 29 08:20   | ♈ 4 07:33    | ♈ 18 02:13   | ♈ 27 13:22   | ♈ 4 12:20    | ♈ 30 17:17  | ♈ 30 17:17  | ♈ 3 19:11   |
| ♈ 20 19:13   | ♈ 30 04:17   | ♈ 9 13:53    | ♈ 19 23:35   |              | ♈ 6 14:53    | ♈ 20 05:24   | ♈ 29 16:44   | ♈ 6 19:57    |             | ♈ 26 14:25  | ♈ 6 04:41   |
| ♈ 22 19:31   |              | ♈ 11 14:52   | ♈ 21 23:59   | May -1641j   | ♈ 8 18:36    | ♈ 22 07:16   |              | ♈ 9 01:16    | ♈ 21 18:36  | July -1638j | ♈ 8 11:57   |
| ♈ 24 18:46   | Oct. -1643j  | ♈ 13 14:35   | ♈ 24 00:02   | ♈ 1 10:13    | ♈ 10 20:03   | ♈ 24 09:18   | Dec. -1640j  | ♈ 11 05:11   | ♈ 23 21:39  | ♈ 1 03:23   | ♈ 10 16:58  |
| ♈ 26 18:59   | ♈ 2 03:57    | ♈ 15 14:53   | ♈ 26 01:31   | ♈ 3 10:37    | ♈ 12 21:05   | ♈ 26 12:25   | ♈ 3 22:29    | ♈ 13 08:19   | ♈ 26 00:02  | ♈ 3 06:58   | ♈ 12 20:00  |
| ♈ 28 21:53   | ♈ 4 03:37    | ♈ 17 17:25   | ♈ 28 05:46   | ♈ 5 11:25    | ♈ 14 23:17   | ♈ 28 16:56   | ♈ 6 02:01    | ♈ 15 11:06   | ♈ 28 02:39  | ♈ 5 09:08   | ♈ 14 21:38  |
| ♈ 31 04:25   | ♈ 6 05:05    | ♈ 19 23:13   | ♈ 30 13:08   | ♈ 7 14:08    | ♈ 17 03:29   | ♈ 30 22:59   | ♈ 8 06:23    | ♈ 17 14:03   | ♈ 30 06:42  | ♈ 7 10:47   | ♈ 16 22:57  |
|              | ♈ 8 09:42    | ♈ 22 08:18   | Nov. -1642j  | ♈ 9 19:32    | ♈ 19 09:45   | June -1640j  | ♈ 10 12:13   | Jan. -1639j  | ♈ 19 18:02  | ♈ 9 13:13   | ♈ 19 01:22  |
| Apr. -1643j  | ♈ 10 17:47   | ♈ 24 19:51   | ♈ 1 23:05    | ♈ 14 13:38   | ♈ 21 17:50   | ♈ 2 06:58    | ♈ 12 20:27   | ♈ 1 13:26    | ♈ 22 00:13  | ♈ 11 17:49  | ♈ 21 06:22  |
| ♈ 2 14:20    | ♈ 13 04:43   | ♈ 27 08:39   | ♈ 4 10:46    | ♈ 17 01:18   | ♈ 24 03:46   | ♈ 4 17:20    | ♈ 15 07:29   | ♈ 3 23:20    | ♈ 24 09:27  | ♈ 14 01:35  | ♈ 23 14:52  |
| ♈ 5 02:29    | ♈ 15 17:18   | ♈ 29 21:28   | ♈ 6 23:22    | ♈ 19 13:55   | ♈ 26 15:33   | ♈ 7 05:47    | ♈ 16 11:33   | ♈ 5 08:10    | ♈ 26 21:21  | ♈ 16 12:26  | ♈ 26 02:28  |
| ♈ 7 15:25    | ♈ 18 06:17   |              | ♈ 9 11:54    | ♈ 22 02:11   | ♈ 29 04:24   | ♈ 9 18:36    | ♈ 17 20:21   | ♈ 6 11:33    | ♈ 29 10:02  | ♈ 19 00:52  | ♈ 28 15:14  |
| ♈ 10 03:53   | ♈ 20 18:28   | May -1642j   | ♈ 11 22:54   | ♈ 24 12:10   | Dec. -1641j  | ♈ 10 06:02   | ♈ 20 08:35   | ♈ 8 23:51    | ♈ 29 10:02  | ♈ 21 12:39  | ♈ 31 02:47  |
| ♈ 12 14:43   | ♈ 23 04:34   | ♈ 2 09:02    | ♈ 13 04:50   | ♈ 26 18:18   | ♈ 1 16:20    | ♈ 12 05:10   | ♈ 22 17:45   | July -1639j  | ♈ 22 00:13  | ♈ 23 22:04  | Feb. -1637j |
| ♈ 14 22:51   | ♈ 25 11:27   | ♈ 4 17:59    | ♈ 15 14:45   | ♈ 28 20:35   | ♈ 4 00:57    | ♈ 14 11:50   | ♈ 24 23:06   | ♈ 1 20:58    | ♈ 26 21:21  | ♈ 26 04:44  | ♈ 2 11:43   |
| ♈ 17 03:41   | ♈ 27 14:50   | ♈ 6 23:26    | ♈ 16 10:40   | ♈ 30 20:24   | ♈ 6 05:20    | ♈ 16 14:48   | ♈ 27 01:35   | ♈ 4 04:42    | ♈ 29 10:02  | ♈ 28 09:12  | ♈ 4 17:59   |
| ♈ 19 05:31   | ♈ 29 15:27   | ♈ 9 01:29    | ♈ 18 11:19   |              | ♈ 8 06:22    | ♈ 18 15:38   | ♈ 30 16:14   | ♈ 6 09:23    | ♈ 31 04:25  | ♈ 30 12:21  | ♈ 6 22:23   |
| ♈ 21 05:34   | ♈ 31 14:53   | ♈ 11 01:18   | ♈ 20 10:26   | June -1641j  | ♈ 10 06:02   | ♈ 20 16:14   | ♈ 22 18:10   | ♈ 8 12:05    |             | Aug. -1638j | ♈ 9 01:40   |
| ♈ 23 05:32   |              | ♈ 13 00:40   | ♈ 22 12:10   | ♈ 1 19:50    | ♈ 12 06:28   | ♈ 22 18:10   | ♈ 24 22:18   | ♈ 10 14:06   | ♈ 22 05:45  | ♈ 1 15:00   | ♈ 10 04:28  |
| ♈ 25 07:16   | Nov. -1643j  | ♈ 15 01:38   | ♈ 24 12:38   | ♈ 3 20:58    | ♈ 14 09:18   | ♈ 26 15:11   | ♈ 27 04:48   | ♈ 12 16:28   | ♈ 24 09:30  | ♈ 3 17:51   | ♈ 13 07:16  |
| ♈ 27 12:14   | ♈ 2 15:03    | ♈ 17 05:54   | ♈ 26 18:56   | ♈ 6 01:17    | ♈ 16 15:11   | ♈ 18 23:45   | ♈ 29 13:29   | ♈ 14 19:54   | ♈ 26 14:46  | ♈ 5 21:33   | ♈ 15 10:45  |
| ♈ 29 21:01   | ♈ 4 17:49    | ♈ 19 14:12   | ♈ 29 04:50   | ♈ 8 09:03    | ♈ 18 23:45   | ♈ 20 19:29   | ♈ 2 00:14    | ♈ 17 00:53   | ♈ 28 22:06  | ♈ 8 02:48   | ♈ 17 15:55  |
|              | ♈ 6 17:57    | ♈ 22 01:41   | Dec. -1642j  | ♈ 10 19:29   | ♈ 13 07:27   | ♈ 15 05:28   | ♈ 4 12:43    | ♈ 6 18:59    | ♈ 31 04:25  | ♈ 10 10:23  | ♈ 19 23:47  |
| May -1643j   | ♈ 11 23:34   | ♈ 24 14:38   | ♈ 1 16:53    | ♈ 13 07:27   | ♈ 15 20:06   | ♈ 16 15:11   | ♈ 7 01:47    | ♈ 9 03:58    | ♈ 2 07:22   | ♈ 12 20:41  | ♈ 20 12:40  |
| ♈ 2 08:49    | ♈ 14 12:32   | ♈ 27 03:20   | ♈ 4 05:35    | ♈ 15 20:06   | ♈ 18 08:33   | ♈ 17 01:18   | ♈ 9 13:20    | ♈ 10 15:08   | ♈ 29 02:50  | ♈ 15 08:59  | ♈ 21 44:51  |
| ♈ 4 21:45    | ♈ 16 10:15   | ♈ 29 14:47   | ♈ 6 17:57    | ♈ 20 19:25   | ♈ 22 02:11   | ♈ 19 09:45   | ♈ 11 21:18   | ♈ 14 03:53   | ♈ 31 04:25  | ♈ 17 21:13  | ♈ 23 11:16  |
| ♈ 7 09:59    | ♈ 19 10:15   |              | ♈ 9 05:13    | ♈ 23 03:03   | Jan. -1640j  | ♈ 2 15:31    | ♈ 10 10:33   | ♈ 16 16:34   | ♈ 22 05:45  | ♈ 20 03:01  | ♈ 22 07:11  |
| ♈ 10 24:24   | ♈ 21 17:53   | June -1642j  | ♈ 11 14:18   | ♈ 25 06:43   | ♈ 4 17:34    | ♈ 6 17:08    | ♈ 16 01:57   | ♈ 19 02:53   | ♈ 24 05:06  | ♈ 22 05:45  | ♈ 24 16:57  |
| ♈ 14 10:01   | ♈ 23 22:55   | ♈ 3 07:01    | ♈            |              |              |              |              |              |             |             |             |

with clock times in UT/GMT. The year -1637 astronomical counting style corresponds to year 1638 B.C.E historical counting style.

|              |              |              |              |              |              |              |              |              |              |              |              |
|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| May -1637j   | Nov. -1637j  | May -1636j   | Dec. -1636j  | June -1635j  | Dec. -1635j  | July -1634j  | Jan. -1633j  | July -1633j  | Feb. -1632j  | Aug. -1632j  | Feb. -1631j  |
| 2 00:30      | II 11 09:59  | 22 21:19     | 2 08:43      | 13 21:03     | 24 09:59     | 1 16:46      | 11 06:09     | 23 18:50     | 2 07:31      | 13 17:28     | 23 04:34     |
| 4 00:20      | III 13 10:43 | 24 23:00     | 4 11:13      | 16 00:06     | 26 13:33     | 3 19:51      | 13 09:15     | 25 20:44     | 4 08:26      | 15 17:24     | 25 04:31     |
| 6 01:29      | IV 15 13:11  | 27 02:17     | 6 15:24      | 18 04:33     | 28 18:08     | 5 22:40      | 15 11:36     | 27 21:52     | 6 09:12      | 17 18:16     | 27 06:02     |
| 8 05:11      | V 17 18:08   | 29 07:45     | 8 21:35      | 20 10:46     | 31 00:17     | 8 01:40      | 17 14:02     | 29 23:51     | 8 11:41      | 19 21:51     |              |
| 10 11:50     | VI 20 01:37  | 31 15:34     | 11 05:53     | 22 19:07     |              | 10 05:40     | 19 17:57     |              | 10 17:28     | 22 05:13     | March -1631j |
| 12 21:04     | 22 11:25     |              | 13 16:19     | 25 05:44     | Jan. -1634j  | 12 11:49     | 22 00:49     | Aug. -1633j  | 13 03:01     | 24 16:02     | I 1 04:41    |
| 15 08:20     | 24 23:09     | June -1636j  | 16 04:28     | 27 18:02     | 2 08:45      | 14 21:05     | 24 11:13     | 1 04:27      | 15 15:11     | 27 04:35     | II 3 19:09   |
| 17 20:57     | 27 12:08     | 3 01:42      | 18 17:07     | 30 06:18     | 4 19:51      | 17 09:09     | 26 23:57     | 3 12:50      | 18 03:38     | 29 16:51     | III 6 06:44  |
| 20 09:52     | 30 00:52     | 5 13:44      | 21 04:12     |              | 7 08:35      | 19 21:56     | 29 12:17     | 6 00:29      | 20 14:31     |              | IV 8 19:34   |
| 22 21:23     |              | 8 02:34      | 23 11:55     | July -1635j  | 9 20:31      | 22 08:43     | 31 21:56     | 8 13:16      | 22 23:08     | Sept. -1632j | I 11 07:47   |
| 25 05:42     | Dec. -1637j  | 10 14:22     | 25 15:50     | 2 16:14      | 12 05:19     | 24 16:04     |              | 11 00:38     | 25 05:37     | 1 03:32      | II 13 18:13  |
| 27 11:02     | 2 11:21      | 12 23:15     | 27 16:54     | 4 22:31      | 14 10:19     | 26 20:21     | Feb. -1633j  | 13 09:27     | 27 10:20     | 3 12:10      | III 16 02:22 |
| 29 11:05     | 4 18:02      | 15 04:23     | 29 16:53     | 7 01:26      | 16 12:31     | 28 22:57     | 3 04:26      | 15 15:54     | 29 13:37     | 5 18:39      | IV 18 08:10  |
| 31 10:34     | 6 20:53      | 17 06:17     | 31 17:42     | 9 02:24      | 18 13:41     | 31 01:16     | 5 08:37      | 17 20:41     |              | 7 22:59      | V 20 11:44   |
|              | 8 21:05      | 19 06:24     |              | 11 03:15     | 20 15:30     |              | 7 11:44      | 20 00:21     | March -1632j | 10 01:31     | VI 22 13:35  |
| June -1637j  | 10 20:32     | 21 06:34     | Jan. -1635j  | 13 05:32     | 22 18:58     | Aug. -1634j  | 9 14:38      | 22 03:13     | 2 15:56      | 12 02:59     | 1 24 14:40   |
| 2 10:28      | 12 21:07     | 23 08:27     | 2 20:53      | 15 10:08     | 25 00:19     | 2 04:12      | 11 17:45     | 24 05:46     | 4 18:06      | 14 04:40     | II 26 16:23  |
| 4 12:33      | 15 00:25     | 25 13:16     | 5 03:07      | 17 17:07     | 27 07:28     | 4 08:06      | 13 21:27     | 26 08:53     | 6 21:21      | 16 08:01     | III 28 20:15 |
| 6 17:58      | 17 07:13     | 27 21:17     | 7 12:08      | 20 02:09     | 29 16:29     | 6 13:12      | 16 02:25     | 28 13:49     | 9 02:56      | 18 14:20     | IV 31 03:28  |
| 9 02:48      | 19 17:14     | 30 07:56     | 9 23:08      | 22 12:59     |              | 8 20:01      | 18 09:34     | 30 21:43     | 11 11:41     | 21 00:04     |              |
| 11 14:14     | 22 05:23     |              | 12 11:23     | 25 01:16     | Feb. -1634j  | 11 05:15     | 20 19:37     |              | 13 23:10     | 23 12:16     | Apr. -1631j  |
| 14 02:59     | 24 18:25     | July -1636j  | 15 00:04     | 27 13:56     | 1 03:33      | 13 17:03     | 23 08:01     | Sept. -1633j | 16 11:40     | 26 00:40     | I 2 14:11    |
| 16 15:48     | 27 07:05     | 2 20:13      | 17 11:55     | 30 00:56     | 3 16:15      | 16 06:02     | 25 20:41     | 2 08:43      | 18 22:50     | 28 11:15     | II 5 02:51   |
| 19 03:24     | 29 18:08     | 5 09:02      | 19 21:07     |              | 6 04:49      | 18 17:37     | 28 07:02     | 4 21:22      | 21 07:16     | 30 19:07     | III 7 15:06  |
| 21 12:33     |              | 7 21:12      | 22 02:27     | Aug. -1635j  | 8 14:47      | 21 01:38     |              | 7 09:11      | 23 12:53     |              | IV 10 01:07  |
| 23 18:24     | Jan. -1636j  | 10 07:12     | 24 04:06     | II 1 08:24   | 10 20:36     | 23 05:49     | March -1633j | 9 18:13      | 25 16:28     | Oct. -1632j  | I 12 08:27   |
| 25 20:59     | 1 02:20      | 12 13:51     | 26 03:30     | 3 11:47      | 12 22:43     | 25 07:25     | 2 13:48      | 12 00:07     | 27 19:02     | 3 00:33      | II 14 13:37  |
| 27 21:18     | 3 06:59      | 14 16:50     | 28 02:48     | 5 12:12      | 14 22:49     | 27 08:16     | 4 17:24      | 14 03:43     | 29 21:32     | 5 04:21      | III 16 17:20 |
| 29 20:59     | 5 08:28      | 16 17:06     | 30 04:10     | 7 11:43      | 16 22:59     | 29 09:58     | 6 19:13      | 16 06:11     |              | 7 07:20      | IV 18 20:12  |
|              | 7 08:02      | 18 16:21     |              | 9 12:25      | 19 00:59     | 31 13:29     | 8 20:45      | 18 08:35     | Apr. -1632j  | 9 10:06      | 1 22 22:42   |
| July -1637j  | 9 07:35      | 20 16:42     | Feb. -1635j  | 11 15:53     | 21 05:42     |              | 10 23:08     | 20 11:38     | 1 00:42      | 11 13:15     | II 23 01:30  |
| 1 21:57      | 11 09:06     | 22 19:58     | 1 09:04      | 13 22:37     | 23 13:09     | Sept. -1634j | 13 03:04     | 22 15:53     | 3 05:08      | 13 17:30     | III 25 05:40 |
| 4 01:48      | 13 14:11     | 25 03:07     | 3 17:43      | 16 08:06     | 25 22:49     | 2 19:05      | 15 08:54     | 24 21:54     | 5 11:26      | 15 23:46     | IV 27 12:23  |
| 6 09:26      | 15 23:19     | 27 13:45     | 6 05:02      | 18 19:22     | 28 10:16     | 5 02:45      | 17 16:54     | 27 06:10     | 7 20:09      | 18 08:49     | 1 29 22:19   |
| 8 20:28      | 18 11:28     | 30 02:15     | 8 17:32      | 21 07:43     |              | 7 12:32      | 20 03:14     | 29 16:55     | 10 07:15     | 20 20:29     |              |
| 11 09:15     | 21 00:35     |              | 11 06:10     | 23 20:27     | March -1634j | 10 00:21     | 22 15:32     |              | 12 19:43     | 23 09:09     | May -1631j   |
| 13 21:55     | 23 13:01     | Aug. -1636j  | 13 18:07     | 26 08:12     | 2 22:58      | 12 13:24     | 25 04:24     | Oct. -1633j  | 15 07:28     | 25 20:15     | I 2 10:42    |
| 16 09:06     | 25 23:49     | 1 15:03      | 16 04:14     | 28 17:08     | 5 11:50      | 15 01:44     | 27 15:40     | 2 05:24      | 17 16:29     | 28 04:05     | II 4 23:10   |
| 18 18:10     | 28 08:28     | 4 03:04      | 18 11:13     | 30 22:01     | 7 22:50      | 17 11:05     | 29 23:30     | 4 17:46      | 19 21:59     | 30 08:37     | III 7 09:18  |
| 21 00:46     | 30 14:32     | 6 13:30      | 20 14:26     |              | 10 06:09     | 19 16:18     |              | 7 03:46      | 22 00:36     |              | IV 9 16:08   |
| 23 04:50     |              | 8 21:26      | 22 14:39     | Sept. -1635j | 12 09:21     | 21 18:01     | Apr. -1633j  | 9 10:10      | 24 01:49     | Nov. -1632j  | 1 20 16:16   |
| 25 06:45     | Feb. -1636j  | 11 02:08     | 24 13:40     | 1 23:13      | 14 09:35     | 23 17:56     | 1 03:35      | 11 13:15     | 26 03:13     | 1 11:02      | II 13 23:01  |
| 27 07:27     | 1 17:49      | 13 03:42     | 26 13:45     | 3 22:24      | 16 08:52     | 25 18:00     | 3 04:54      | 13 14:22     | 28 06:05     | 3 12:55      | III 16 01:35 |
| 29 08:23     | 3 18:48      | 15 03:20     | 28 16:55     | 5 21:48      | 18 09:14     | 27 19:54     | 5 05:06      | 15 15:10     | 30 11:05     | 5 15:31      | IV 18 04:40  |
| 31 11:16     | 5 18:46      | 17 02:58     |              | 7 23:31      | 20 12:19     | 30 00:39     | 7 05:55      | 17 17:11     |              | 7 19:28      | 1 20 08:35   |
|              | 7 19:34      | 19 04:45     | March -1635j | 10 04:52     | 22 18:50     |              | 9 08:44      | 19 21:24     | 10 00:56     | 10 00:56     | II 22 13:43  |
| Aug. -1637j  | 9 23:09      | 21 10:23     | 3 00:11      | 12 13:52     | 25 04:28     | Oct. -1634j  | 11 14:21     | 22 04:10     | 12 08:03     | 12 08:03     | III 24 20:46 |
| 2 17:34      | 12 06:48     | 23 20:07     | 5 11:00      | 15 01:18     | 27 16:15     | 2 08:26      | 13 22:51     | 24 13:17     | 5 03:33      | 14 17:11     | IV 26 07:27  |
| 5 03:40      | 14 18:12     | 26 08:31     | 7 23:34      | 17 13:49     | 30 05:04     | 4 18:46      | 16 09:44     | 27 00:20     | 7 14:42      | 17 04:33     | 1 29 18:35   |
| 7 16:15      | 17 07:16     | 28 21:20     | 10 12:10     | 20 02:23     |              | 7 06:54      | 18 22:12     | 30 12:44     | 10 03:10     | 19 17:19     |              |
| 10 04:54     | 19 19:35     | 31 09:01     | 12 23:49     | 22 14:08     | Apr. -1634j  | 9 19:54      | 23 11:09     | 12 15:29     | 12 15:29     | 22 05:17     | June -1631j  |
| 12 15:42     | 22 05:51     |              | 15 09:55     | 24 23:52     | 1 17:52      | 12 08:30     | 23 23:00     | 15 01:34     | 15 01:34     | 24 14:05     | I 1 07:23    |
| 15 00:01     | 24 13:57     | Sept. -1636j | 17 17:42     | 27 06:24     | 4 05:15      | 14 18:57     | 26 08:08     | 1 01:23      | 17 07:54     | 26 18:48     | II 3 18:11   |
| 17 06:11     | 26 20:08     | 2 19:03      | 19 22:29     | 30 09:20     | 6 13:48      | 17 01:53     | 28 13:34     | 3 12:31      | 19 10:30     | 28 20:22     | III 6 01:16  |
| 19 10:41     | 29 00:30     | 5 03:13      | 22 00:20     |              | 8 18:37      | 19 05:01     | 30 15:33     | 5 20:21      | 21 10:46     | 30 20:41     | IV 8 04:52   |
| 21 13:53     |              | 7 09:07      | 24 00:21     | Oct. -1635j  | 10 20:08     | 21 05:22     |              | 8 00:17      | 23 10:42     |              | 1 10 06:25   |
| 23 16:08     | March -1636j | 9 12:25      | 26 00:25     | 1 09:35      | 12 19:47     | 23 04:41     | May -1633j   | 10 01:06     | 25 12:11     | Dec. -1632j  | 2 07 42:42   |
| 25 18:09     | 2 03:06      | 11 13:30     | 28 02:34     | 3 08:58      | 14 19:27     | 25 04:55     | 2 15:23      | 12 00:34     | 27 16:31     | 2 21:43      | III 14 10:04 |
| 27 21:12     | 4 04:29      | 13 13:45     | 30 08:21     | 5 09:34      | 16 21:02     | 27 07:51     | 4 14:56      | 14 00:45     | 29 23:54     | 5 00:52      | IV 16 14:08  |
| 30 02:47     | 6 05:53      | 15 15:05     |              | 7 13:13      | 19 01:58     | 29 14:30     | 6 16:06      | 16 03:28     |              | 7 06:34      | 1 18 20:03   |
|              | 8 09:04      | 17 19:26     | Apr. -1635j  | 9 20:46      | 21 10:39     |              | 8 20:25      | 18 09:41     |              | 9 14:31      | II 21 03:53  |
| Sept. -1637j | 10 15:37     | 20 03:52     | 1 18:00      | 12 07:41     | 23 22:14     | Nov. -1634j  | 11 04:28     | 20 19:09     | June -1632j  | 12 00:20     | III 23 13:52 |
| 1 08:13      | 13 01:58     | 22 15:39     | 4 06:11      | 14 20:14     | 26 11:09     | 1 00:39      | 13 15:34     | 23 06:44     | 1 09:45      | 14 11:48     | IV 26 01:56  |
| 4 00:02      | 15 14:42     | 25 04:26     | 6 18:46      | 17 08:42     | 28 23:45     | 3 13:04      | 16 04:16     | 25 19:15     | 3 21:15      | 17 00:32     | 1 28 14:59   |
| 6 12:52      | 18 03:05     | 27 16:00     | 9 06:08      | 19 19:58     |              | 6 02:05      | 18 17:10     | 28 07:51     | 6 09:45      | 19 13:07     |              |
| 8 23:43      | 20 13:08     | 30 01:25     | 11 15:39     | 22 05:25     | May -1634j   | 8 14:25      | 21 05:06     | 30 19:30     | 8 22:21      | 21 23:16     | July -1631j  |
| 11 07:28     | 22 20:29     |              | 13 23:07     | 24 12:31     | II 1 10:53   | 11 01:04     | 23 15:02     |              | 10 03:10     | 24 05:19     | I 1 02:41    |
| 13 12:34     | 25 01:49     | Oct. -1636j  | 16 04:26     | 26 16:59     | 3 19:44      | 13 09:10     | 25 21:57     | 15 20:52     | 13 17:11     | 26 07:24     | II 3 10:50   |
| 15 16:12     | 27 05:52     | 2 08:49      | 18 07:35     | 28 19:03     | 5 01:43      | 15 14:10     | 28 01:27     | 17 21:17     | 15 20:44     | 28 07:06     | III 5 14:54  |
| 17 19:20     | 29 09:05     | 4 14:32      | 20 09:08     | 30 19:44     | 7 13:13      | 17 16:10     | 30 02:08     | 19 20:22     | 17 07:54     | 30 06:36     | IV 7 15:59   |
| 19 22:28     | 31 11:44     | 6 18:40      | 22 10:17     |              | 9 20:46      | 19 16:14     |              | 21 20:21     | 21 10:46     |              | 1 16 01:01   |
| 22 01:51     |              | 8 21:19      | 24 12:36     | Nov. -1635j  | 12 06:06     | 21 16:01     | June -1633j  | 23 23:08     | 23 10:42     | Jan. -1631j  | II 11 16:50  |
| 24 05:59     | Apr. -1636j  | 10 23:05     | 26 17:39     | 1 20:37      | 14 07:11     | 23 17:29     | 1 01:30      | 26 05:37     | 25 12:11     | 1 07:55      | III 13 19:48 |
| 26 11:53     | 2 14:26      | 13 01:14     | 29 02:11     | 3 23:24      | 16 10:49     | 25 22:22     | 3 01:32      | 28 15:23     | 27 16:31     | 3 12:21      | IV 16 01:30  |
| 28 20:35     | 4 18:18      | 15 05:24     |              | 6 05:30      | 18 18:08     | 28 07:23     | 5 04:15      |              | 29 23:54     | 5 20:04      | 1 18 09:48   |
|              | 7 00:40      | 17 12:52     | May -1635j   | 8 15:15      | 21 04:59     | 30 19:32     | 7 10:59      | 18 01:04     |              | 8 06:18      | II 20 20:19  |
| Oct. -1637j  | 9 10:21      | 19 23:45     | 1 13:41      | 11 03:30     | 23 17:47     |              | 9 21:34      | 20 12:41     | June -1632j  | 10 18:10     | III 23 08:33 |
| 3 21:12      | 11 22:38     | 22 12:24     | 4 02:12      | 13 16:03     | 26 06:17     | II 1 10:53   | 12 10:18     | 23 01:24     | 1 09:45      | 13 06:55     | IV 25 21:40  |
| 6 08:43      | 14 11:12     | 25 00:15     | 6 13:35      | 16 03:02     | 28 16:56     | 3 19:44      | 14 23:08     | 25 13:51     | 3 21:15      | 15 19:33     | 1 28 09:59   |
| 8 16:44      | 16 21:34     | 27 09:34     | 8 22:37      | 18 11:39     | 31 01:14     | 5 20:40      | 17 10        |              |              |              |              |

with clock times in UT/GMT. The year -1631 astronomical counting style corresponds to year 1632 B.C.E historical counting style.

|              |              |              |              |              |              |              |              |              |             |              |              |
|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|--------------|--------------|
| Sept. -1631j | March -1630j | Sept. -1630j | Apr. -1629j  | Oct. -1629j  | Apr. -1628j  | Nov. -1628j  | May -1627j   | Nov. -1627j  | June -1626j | Dec. -1626j  | June -1625j  |
| 2 13:39      | 15 00:30     | 24 08:42     | 1 19:44      | 12 04:33     | 22 14:51     | 2 00:40      | 14 12:50     | 24 00:48     | 1 07:48     | 11 20:12     | 23 08:59     |
| 4 13:07      | 16 23:53     | 26 08:21     | 3 19:47      | 14 04:09     | 24 15:13     | 4 02:08      | 16 15:03     | 26 03:34     | 3 10:55     | 13 23:31     | 25 12:10     |
| 6 13:14      | 19 00:36     | 28 10:31     | 5 19:06      | 16 04:22     | 26 16:49     | 6 05:01      | 18 18:20     | 28 07:18     | 5 13:29     | 16 02:22     | 27 14:29     |
| 8 15:50      | 21 04:26     | 30 16:28     | 7 19:51      | 18 06:56     | 28 20:40     | 8 09:49      | 20 23:12     | 30 12:31     | 7 16:15     | 18 05:15     | 29 16:37     |
| 10 22:11     | 23 12:16     |              | 9 23:40      | 20 12:39     |              | 10 16:37     | 22 06:04     |              | 9 19:52     | 20 08:48     |              |
| 13 08:18     | 25 23:30     | Oct. -1630j  | 12 07:05     | 22 21:12     | May -1628j   | 13 01:30     | 25 15:19     | Dec. -1627j  | 12 01:03    | 22 13:57     | July -1625j  |
| 15 20:51     | 28 12:23     | 3 02:08      | 14 17:24     | 25 07:46     | 1 02:59      | 15 12:33     | 28 02:52     | 2 19:45      | 14 08:31    | 24 21:43     | 1 19:42      |
| 18 09:53     | 31 01:08     | 5 14:11      | 17 05:20     | 27 19:44     | 3 11:35      | 18 01:20     | 30 15:39     | 5 05:27      | 16 18:38    | 27 08:28     | 4 01:07      |
| 20 21:51     |              | 8 02:59      | 19 17:54     | 30 08:33     | 5 22:10      | 20 14:13     |              | 7 17:19      | 19 06:46    | 29 21:06     | 6 09:52      |
| 23 07:57     | Apr. -1630j  | 10 15:28     | 22 06:15     |              | 8 10:26      | 23 00:50     | June -1627j  | 10 05:57     | 21 19:03    |              | 8 21:42      |
| 25 15:43     | 2 12:37      | 13 02:49     | 24 17:12     | Nov. -1629j  | 10 23:25     | 25 07:35     | 2 03:35      | 12 17:07     | 24 05:13    | Jan. -1625j  | 11 10:32     |
| 27 20:49     | 4 22:09      | 15 12:01     | 27 01:16     | 1 21:03      | 13 11:12     | 27 10:28     | 4 12:38      | 15 01:00     | 26 12:01    | 1 09:08      | 13 21:42     |
| 29 23:21     | 7 05:09      | 17 17:58     | 29 05:32     | 4 07:18      | 15 19:42     | 29 10:55     | 6 17:59      | 17 05:20     | 28 15:43    | 3 18:21      | 15 05:47     |
|              | 9 09:15      | 19 20:23     |              | 6 13:37      | 18 00:06     |              | 8 20:16      | 19 07:05     | 30 17:34    | 6 00:06      | 18 11:03     |
| Oct. -1631j  | 11 10:42     | 21 20:13     | May -1629j   | 8 15:51      | 20 01:12     | Dec. -1628j  | 10 20:58     | 21 07:52     |             | 8 03:15      | 20 14:35     |
| 2 00:04      | 13 10:38     | 23 19:20     | 1 06:26      | 10 15:24     | 22 00:48     | 1 10:47      | 12 21:43     | 23 09:19     | July -1626j | 10 05:20     | 22 17:33     |
| 4 00:22      | 15 10:51     | 25 19:59     | 3 05:37      | 12 14:27     | 24 00:55     | 3 11:52      | 14 23:59     | 25 12:41     | 2 19:07     | 12 07:42     | 24 20:33     |
| 6 02:01      | 17 13:22     | 28 00:09     | 5 05:16      | 14 15:11     | 26 03:14     | 5 15:29      | 17 04:40     | 27 18:29     | 4 21:40     | 14 11:07     | 26 23:55     |
| 8 06:49      | 19 19:44     | 30 08:36     | 7 07:29      | 16 19:12     | 28 08:40     | 7 22:08      | 19 12:05     | 30 02:41     | 7 01:54     | 16 15:51     | 29 04:05     |
| 10 15:40     | 22 06:06     |              | 9 13:33      | 19 02:55     | 30 17:12     | 10 10:35     | 21 21:59     |              | 9 08:05     | 18 22:04     | 31 09:55     |
| 13 03:46     | 24 18:50     | Nov. -1630j  | 11 23:16     | 21 13:35     | June -1628j  | 12 19:09     | 24 09:46     | Jan. -1626j  | 11 16:13    | 21 06:10     |              |
| 15 16:49     | 27 07:32     | 1 20:20      | 14 11:16     | 24 01:50     | 2 04:09      | 15 07:58     | 26 22:33     | 1 12:55      | 14 02:24    | 23 16:39     | Aug. -1625j  |
| 18 04:32     | 29 18:38     | 4 09:15      | 16 23:53     | 26 14:37     | 4 16:38      | 17 20:55     | 29 10:56     | 4 00:46      | 16 14:24    | 26 05:07     | 2 18:23      |
| 20 13:56     |              | 6 21:32      | 19 12:02     | 29 02:59     | 7 05:35      | 20 08:22     |              | 6 13:28      | 19 03:01    | 28 17:43     | 5 05:45      |
| 22 21:08     | May -1630j   | 9 08:27      | 21 22:56     |              | 9 17:40      | 22 16:42     | July -1627j  | 9 01:25      | 21 14:08    | 31 03:51     | 7 18:40      |
| 25 02:32     | 2 03:41      | 11 17:41     | 24 07:42     | Dec. -1629j  | 12 03:14     | 24 21:12     | 1 21:07      | 11 10:41     | 23 21:46    |              | 10 06:25     |
| 27 06:22     | 4 10:45      | 14 00:41     | 26 13:23     | 1 13:48      | 14 09:10     | 26 22:25     | 4 03:46      | 13 16:04     | 26 01:31    | Feb. -1625j  | 12 14:50     |
| 29 08:49     | 6 15:47      | 16 04:55     | 28 15:50     | 3 21:37      | 16 11:31     | 28 21:53     | 6 06:46      | 15 17:52     | 28 02:29    | 2 10:02      | 14 19:37     |
| 31 10:29     | 8 18:45      | 18 06:29     | 30 16:02     | 6 01:44      | 18 11:31     | 30 21:30     | 8 07:09      | 17 17:37     | 30 02:35    | 4 12:39      | 16 22:01     |
|              | 10 20:04     | 20 06:33     |              | 8 02:42      | 20 11:01     |              | 10 06:41     | 19 17:21     |             | 6 13:23      | 18 23:40     |
| Nov. -1631j  | 12 20:57     | 22 07:01     | June -1629j  | 10 02:04     | 22 11:54     | Jan. -1627j  | 12 07:19     | 21 19:03     | Aug. -1626j | 8 14:12      | 20 01:56     |
| 2 12:34      | 14 23:12     | 24 09:56     | 3 17:04      | 12 01:55     | 24 15:46     | 2 12:31      | 14 10:43     | 23 23:59     | 1 03:45     | 10 16:37     | 22 03:51     |
| 4 16:45      | 17 04:32     | 26 16:48     | 5 21:41      | 14 04:11     | 26 23:19     | 4 04:21      | 16 17:41     | 26 08:19     | 3 07:20     | 12 21:18     | 25 10:36     |
| 6 7:00:24    | 19 13:50     | 29 03:30     | 8 06:12      | 16 10:11     | 29 10:05     | 6 13:20      | 19 03:50     | 28 19:07     | 5 13:46     | 15 04:14     | 27 17:22     |
| 9 11:40      | 22 02:03     |              | 10 17:44     | 18 19:55     |              | 9 01:07      | 21 15:58     | 31 07:16     | 7 22:35     | 17 13:07     | 30 02:14     |
| 12 00:38     | 24 14:45     | Dec. -1630j  | 12 23:05     | 21 08:07     | July -1628j  | 11 14:09     | 24 04:46     |              | 10 09:14    | 19 23:54     |              |
| 14 12:32     | 27 01:42     | 1 16:13      | 13 06:19     | 23 20:57     | 1 22:41      | 14 02:55     | 26 17:10     | Feb. -1626j  | 12 21:16    | 22 12:20     | Sept. -1625j |
| 16 21:34     | 29 10:08     | 4 04:31      | 15 18:17     | 26 08:59     | 4 11:34      | 16 14:22     | 29 04:02     | 2 19:56      | 15 10:02    | 25 01:15     | 1 13:30      |
| 19 13:47     | 31 16:25     | 6 14:59      | 18 04:42     | 28 19:23     | 6 23:24      | 18 23:34     | 31 12:08     | 5 08:11      | 17 21:59    | 27 12:28     | 4 02:25      |
| 21 08:10     |              | 8 23:27      | 20 13:10     | 31 03:30     | 9 09:14      | 21 05:45     |              | 7 18:35      | 20 07:02    |              | 6 14:53      |
| 23 11:42     | June -1630j  | 11 06:03     | 22 19:21     | Jan. -1628j  | 11 16:17     | 23 08:44     | Aug. -1627j  | 10 10:37     | 22 11:56    | March -1625j | 9 00:22      |
| 25 14:55     | 2 21:10      | 13 10:53     | 24 23:06     | 2 08:56      | 13 20:16     | 25 09:13     | 2 16:42      | 12 04:43     | 14 23:10    | 1 19:55      | 11 05:47     |
| 27 17:01     | 5 00:43      | 15 13:56     | 27 00:50     | 4 11:43      | 15 21:42     | 27 08:44     | 4 18:01      | 14 04:48     | 26 12:29    | 3 23:14      | 13 07:50     |
| 29 21:28     | 7 03:17      | 17 15:42     | 29 01:41     | 6 12:38      | 17 21:47     | 29 09:13     | 6 17:25      | 16 03:45     | 28 12:07    | 5 23:38      | 15 08:14     |
|              | 9 05:29      | 19 17:18     |              | 8 13:07      | 19 22:13     | 31 12:38     | 8 16:56      | 18 03:50     | 30 14:04    | 7 23:11      | 17 08:53     |
| Dec. -1631j  | 11 08:28     | 21 20:21     | July -1629j  | 10 14:50     | 22 00:47     | Feb. -1627j  | 10 18:41     | 20 07:01     | 1 19:28     | 12 03:13     | 21 16:02     |
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| 4 09:35      | 15 22:17     | 26 11:54     | 3 07:08      | 15 03:42     | 26 16:47     | 5 07:24      | 15 09:48     | 25 00:50     | 6 15:15     | 16 18:53     | 26 08:55     |
| 6 20:07      | 18 09:56     | 29 00:03     | 5 14:29      | 17 15:14     | 29 05:14     | 7 20:27      | 17 21:59     | 31 13:14     | 8 22:17     | 19 06:08     | 28 20:28     |
| 9 08:53      | 20 22:39     | 31 12:30     | 8 01:10      | 20 04:02     | 31 18:04     | 10 09:07     | 22 23:00     | March -1626j | 9 03:30     | 21 18:42     |              |
| 11 21:14     | 23 09:52     |              | 10 13:36     | 22 15:58     |              | 12 20:08     | 25 09:45     | 2 01:55      | 11 16:12    | 24 07:40     | Oct. -1625j  |
| 14 06:44     | 25 18:09     | Jan. -1629j  | 13 01:35     | 25 01:44     | Aug. -1628j  | 15 05:07     | 27 18:32     | 4 14:00      | 14 04:23    | 26 19:29     | 1 09:22      |
| 16 12:38     | 27 23:38     | 2 23:03      | 15 11:37     | 28 16:39     | 3 05:31      | 17 11:56     | 30 00:37     | 7 00:42      | 16 14:33    | 29 04:18     | 3 22:11      |
| 18 18:54     | 30 03:18     | 5 06:55      | 17 19:17     |              | 5 14:49      | 19 16:25     |              | 9 08:55      | 18 21:09    | 31 09:07     | 6 08:54      |
| 20 18:02     |              | 7 12:26      | 20 00:48     | Feb. -1628j  | 7 21:52      | 21 18:37     | Sept. -1627j | 11 13:43     | 20 23:52    |              | 8 15:51      |
| 22 20:20     | July -1630j  | 9 16:22      | 22 04:41     | II 2 20:33   | 10 02:49     | 23 19:18     | 1 03:40      | 13 15:13     | 22 23:45    | Apr. -1625j  | 10 18:52     |
| 24 23:32     | 2 06:08      | 11 19:25     | 24 07:25     | 4 22:33      | 12 05:49     | 25 19:57     | 3 04:13      | 15 14:45     | 24 22:50    | 2 10:26      | 12 19:10     |
| 27 03:57     | 4 08:51      | 13 22:09     | 26 09:41     | 7 01:03      | 14 07:25     | 27 22:30     | 5 03:52      | 17 14:20     | 26 23:17    | 4 09:53      | 14 18:37     |
| 29 09:52     | 6 11:59      | 16 01:12     | 28 12:24     | 9 05:21      | 16 08:35     |              | 7 04:41      | 19 16:09     | 29 02:56    | 6 09:29      | 16 19:11     |
| 31 17:50     | 8 16:07      | 18 05:23     | 30 16:39     | 18 10:53     | 18 10:53     | March -1627j | 9 08:42      | 21 21:44     |             | 8 11:08      | 18 22:23     |
|              | 10 22:05     | 20 11:40     |              | 20 15:54     | 20 15:54     | 2 04:36      | 11 16:56     | 24 07:18     | Oct. -1626j | 10 16:06     | 21 04:59     |
| Jan. -1630j  | 13 06:40     | 22 20:44     | Aug. -1629j  | 22 12:39     | 23 00:41     | 4 14:45      | 14 04:36     | 26 19:26     | 1 10:29     | 13 00:39     | 23 14:46     |
| 3 04:17      | 15 17:57     | 25 08:19     | 1 23:30      | 25 12:38     | 25 12:38     | 7 03:27      | 16 17:28     | 29 08:08     | 3 21:15     | 15 11:58     | 26 02:44     |
| 5 16:49      | 18 06:40     | 27 20:50     | 4 09:24      | 28 01:31     | 30 12:51     | 9 16:07      | 19 05:26     | 31 19:58     | 6 09:40     | 18 00:42     | 28 15:40     |
| 8 05:35      | 20 18:30     | 30 07:59     | 6 21:32      | 31 00:01     |              | 12 02:48     | 21 15:38     |              | 8 22:17     | 20 13:34     | 31 04:24     |
| 10 16:05     | 23 03:23     |              | 9 09:49      | 31 09:37     | Sept. -1628j | 14 11:04     | 23 23:59     | Apr. -1626j  | 11 10:08    | 23 01:20     |              |
| 12 22:47     | 25 08:47     | Feb. -1629j  | 11 20:02     | 23 16:10     | 1 21:29      | 16 17:21     | 26 06:27     | 3 06:16      | 13 20:23    | 25 10:49     | Nov. -1625j  |
| 15 01:56     | 27 11:31     | 1 16:06      | 14 03:11     | 25 20:23     | 4 03:39      | 18 22:04     | 28 10:50     | 5 14:34      | 16 04:04    | 27 17:04     | 2 15:38      |
| 17 02:58     | 29 12:58     | 3 21:01      | 16 07:37     | 27 23:26     | 6 08:11      | 20 01:24     | 30 13:06     | 7 20:22      | 18 08:34    | 29 19:59     | 5 00:02      |
| 19 03:37     | 31 14:34     | 5 23:39      | 18 10:25     |              | 8 11:45      | 22 05:26     |              | 9 23:27      | 20 10:09    |              | 7 04:53      |
| 21 05:26     |              | 8 01:23      | 20 12:47     | March -1628j | 10 14:40     | 25 08:19     |              | 12 00:27     | 22 10:07    | May -1625j   | 9 06:30      |
| 23 09:20     | Aug. -1630j  | 10 03:31     | 22 15:39     | II 1 02:15   | 12 17:18     | 28 13:52     | Oct. -1627j  | 14 00:48     | 24 10:19    | 1 20:31      | 11 06:10     |
| 25 15:43     | 2 17:22      | 12 06:57     | 24 19:33     | 3 05:23      | 14 20:28     | 31 23:03     | 2 14:04      | 16 02:21     | 26 12:40    | 3 20:13      | 13 05:44     |
| 28 00:30     | 4 22:04      | 14 12:12     | 27 00:52     | 5 09:12      | 17 01:25     |              | 4 15:18      | 18 06:49     | 28 18:34    | 5 20:56      | 15 07:10     |
| 30 11:25     | 7 04:57      | 16 19:27     | 29 08:07     | 7 14:17      |              |              | 9 01:38      | 20 15:05     | 31 04:14    | 8 00:22      | 17 12:03     |
|              | 9 14:09      | 19 04:50     | 31 17:44     | 9 21:32      | Apr. -1627j  | 19 09:27     | 11 12:19     | 23 02:29     |             | 10 07:33     | 19 20:57     |
| Feb. -1630j  | 12 01:29     | 21 16:12     |              | 12 07:35     | 21 20:45     | 24 09:41     | 14 11:11     | 25 15:05     | Nov. -1626j | 12 18:16     | 22 08:53     |
| 1 23:57      | 14 14:11     | 24 04:43     | Sept. -1629j | 14 19:56     | 26 21:24     | 29 05:58     | 16 13:04     | 28 02:49     | 2 16:25     | 15 06:58     | 24 21:58     |
| 4 12:51      | 17 12:35     | 27 01:35     | 3 05:35      | 17 08:27     | 31 00:00     |              | 18 22:56     | 30 12:36     | 5 05:04     | 17 19:44     | 27 10:26     |
| 7 00:14      | 20 12:38     | 30 07:59     | 5 18:13      | 19 18:33     |              |              | 20 06:25     |              | 7 16:34     | 20 07:06     | 29 21:20     |
| 9 08:21      | 23 21:49     |              | 8 05:14      | 22 00:59     | Oct. -1628j  | 1 11:18      |              |              |             |              |              |

with clock times in UT/GMT. The year -1624 astronomical counting style corresponds to year 1625 B.C.E historical counting style.

|              |              |              |              |              |              |              |              |              |             |             |              |
|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|-------------|--------------|
| Jan. -1624j  | July -1624j  | Jan. -1623j  | Aug. -1623j  | Feb. -1622j  | Aug. -1622j  | March -1621j | Sept. -1621j | March -1620j | Oct. -1620j | Apr. -1619j | Oct. -1619j  |
| ♌ 2 22:23    | ♌ 14 10:40   | ♌ 23 22:57   | ♌ 1 04:27    | ♌ 10 17:09   | ♌ 23 03:14   | ♌ 2 12:12    | ♌ 11 22:19   | ♌ 23 09:35   | ♌ 2 18:30   | ♌ 14 05:28  | ♌ 24 15:48   |
| ♍ 5 01:15    | ♍ 16 12:01   | ♍ 25 23:13   | ♍ 3 07:41    | ♍ 12 19:02   | ♍ 25 03:41   | ♍ 4 14:31    | ♍ 13 23:18   | ♍ 25 10:01   | ♍ 4 18:46   | ♍ 16 06:31  | ♍ 26 17:59   |
| ♎ 7 02:54    | ♎ 18 12:24   | ♎ 27 23:14   | ♎ 5 08:07    | ♎ 14 18:48   | ♎ 27 03:00   | ♎ 6 14:31    | ♎ 15 22:49   | ♎ 27 09:47   | ♎ 6 19:36   | ♎ 18 08:34  | ♎ 28 21:10   |
| ♏ 9 04:25    | ♏ 20 13:38   | ♏ 30 01:06   | ♏ 7 07:30    | ♏ 16 18:22   | ♏ 29 03:09   | ♏ 8 13:59    | ♏ 17 22:53   | ♏ 29 10:54   | ♏ 8 22:29   | ♏ 20 12:26  | ♏ 31 01:37   |
| ♐ 11 07:28   | ♐ 22 17:40   |              | ♐ 9 07:55    | ♐ 18 19:41   | ♐ 31 05:52   | ♐ 10 14:54   | ♐ 20 01:20   | ♐ 31 14:48   | ♐ 11 04:02  | ♐ 22 18:18  |              |
| ♑ 13 13:43   | ♑ 25 01:40   | Feb. -1623j  | ♑ 11 11:16   | ♑ 21 00:17   |              | ♑ 12 18:49   | ♑ 22 07:14   |              | ♑ 13 11:58  | ♑ 25 02:05  | Nov. -1619j  |
| ♒ 15 23:47   | ♒ 27 13:13   | ♒ 1 06:30    | ♒ 13 18:32   | ♒ 23 08:41   | Sept. -1622j | ♒ 15 02:29   | ♒ 24 16:28   | Apr. -1620j  | ♒ 15 21:48  | ♒ 27 11:54  | ♒ 2 07:32    |
| ♓ 18 12:28   | ♓ 30 02:03   | ♓ 3 15:55    | ♓ 16 05:15   | ♓ 25 20:06   | ♓ 2 12:13    | ♓ 17 13:21   | ♓ 27 04:01   | ♓ 2 21:55    | ♓ 18 09:16  | ♓ 29 23:43  | ♓ 4 15:25    |
| ♈ 21 01:00   |              | ♈ 6 04:03    | ♈ 18 17:45   | ♈ 28 08:53   | ♈ 4 22:06    | ♈ 20 01:58   | ♈ 29 16:39   | ♈ 5 07:40    | ♈ 20 21:59  |             | ♈ 7 01:45    |
| ♉ 23 11:13   | Aug. -1624j  | ♉ 8 16:40    | ♉ 21 06:14   |              | ♉ 7 10:22    | ♉ 22 14:53   |              | ♉ 7 19:08    | ♉ 23 10:37  | May -1619j  | ♉ 9 14:15    |
| ♊ 25 18:34   | ♊ 1 13:50    | ♊ 11 04:01   | ♊ 23 17:35   | March -1622j | ♊ 9 23:25    | ♊ 25 02:53   | Oct. -1621j  | ♊ 10 07:33   | ♊ 25 21:00  | ♊ 2 12:40   | ♊ 12 03:11   |
| ♋ 27 23:46   | ♋ 3 23:24    | ♋ 13 13:27   | ♋ 26 03:08   | ♋ 2 21:25    | ♋ 12 11:54   | ♋ 27 12:58   | ♋ 2 05:21    | ♋ 12 20:04   | ♋ 28 03:21  | ♋ 5 00:37   | ♋ 14 13:58   |
| ♌ 30 03:45   | ♌ 6 06:50    | ♌ 15 20:56   | ♌ 28 10:24   | ♌ 5 08:36    | ♌ 14 22:45   | ♌ 29 20:13   | ♌ 4 17:06    | ♌ 15 07:18   | ♌ 30 05:37  | ♌ 9 13:55   | ♌ 16 20:51   |
|              | ♌ 8 12:32    | ♌ 18 02:25   | ♌ 30 15:01   | ♌ 7 17:37    | ♌ 17 07:00   |              | ♌ 7 02:30    | ♌ 17 15:32   |             | ♌ 9 13:55   | ♌ 19 00:01   |
| Feb. -1624j  | ♌ 10 16:41   | ♌ 20 05:55   |              | ♌ 9 23:56    | ♌ 19 12:06   |              | ♌ 9 08:22    | ♌ 19 19:47   | Nov. -1620j | ♌ 11 15:15  | ♌ 21 00:57   |
| ♍ 1 07:03    | ♍ 12 19:26   | ♍ 22 07:47   | Sept. -1623j | ♍ 12 03:27   | ♍ 21 14:12   | ♍ 1 00:10    | ♍ 11 10:33   | ♍ 21 20:39   | ♍ 1 05:18   | ♍ 13 15:12  | ♍ 23 01:28   |
| ♎ 3 09:58    | ♎ 14 21:17   | ♎ 24 09:05   | ♎ 1 17:11    | ♎ 14 04:46   | ♎ 23 14:19   | ♎ 3 01:15    | ♎ 13 10:10   | ♎ 23 19:49   | ♎ 3 04:36   | ♎ 15 15:44  | ♎ 25 03:09   |
| ♏ 5 12:53    | ♏ 16 23:24   | ♏ 26 11:20   | ♏ 3 17:53    | ♏ 16 05:08   | ♏ 25 14:07   | ♏ 5 00:50    | ♏ 15 09:12   | ♏ 25 19:32   | ♏ 5 05:40   | ♏ 17 18:21  | ♏ 27 06:59   |
| ♐ 7 16:47    | ♐ 19 03:23   | ♐ 28 16:08   | ♐ 5 18:41    | ♐ 18 06:10   | ♐ 27 15:29   | ♐ 7 00:47    | ♐ 17 09:52   | ♐ 27 21:50   | ♐ 7 09:52   | ♐ 19 23:44  | ♐ 29 13:19   |
| ♑ 9 22:58    | ♑ 21 10:35   |              | ♑ 7 21:20    | ♑ 20 09:34   | ♑ 29 20:09   | ♑ 9 03:08    | ♑ 19 14:03   | ♑ 30 03:50   | ♑ 9 17:29   | ♑ 22 07:51  |              |
| ♒ 12 08:23   | ♒ 23 21:15   | March -1623j | ♒ 10 03:15   | ♒ 12 12:49   | ♒ 22 16:32   | ♒ 11 09:20   | ♒ 21 22:24   | May -1620j   | ♒ 12 03:44  | ♒ 24 18:11  | Dec. -1619j  |
| ♓ 14 20:33   | ♓ 26 09:53   | ♓ 3 00:25    | ♓ 12 12:49   | ♓ 25 03:04   | ♓ 25 03:04   | ♓ 13 19:30   | ♓ 24 09:56   | ♓ 2 13:20    | ♓ 14 15:35  | ♓ 27 06:14  | ♓ 1 22:01    |
| ♈ 17 09:18   | ♈ 28 21:54   | ♈ 5 11:46    | ♈ 15 00:56   | ♈ 27 15:43   | ♈ 27 15:43   | ♈ 16 08:07   | ♈ 26 22:45   | ♈ 2 13:20    | ♈ 17 04:18  | ♈ 29 19:13  | ♈ 4 08:51    |
| ♉ 19 19:58   | ♉ 31 07:24   | ♉ 8 00:18    | ♉ 17 13:29   | ♉ 30 04:13   | ♉ 30 04:13   | ♉ 18 21:00   | ♉ 29 11:19   | ♉ 5 01:02    | ♉ 19 17:00  |             | ♉ 6 21:22    |
| ♊ 22 03:15   |              | ♊ 10 11:46   | ♊ 20 00:33   |              | ♊ 20 00:33   | ♊ 21 08:42   | ♊ 31 22:51   | ♊ 7 13:34    | ♊ 22 04:14  | June -1619j | ♊ 9 10:26    |
| ♋ 24 07:35   | Sept. -1624j | ♋ 12 20:50   | ♋ 22 09:20   | Apr. -1622j  | ♋ 9 18:07    | ♋ 23 18:34   |              | ♋ 10 01:59   | ♋ 24 12:16  | ♋ 1 07:37   | ♋ 11 22:08   |
| ♌ 26 10:17   | ♌ 2 14:05    | ♌ 15 03:25   | ♌ 24 15:53   | ♌ 1 14:57    | ♌ 12 04:24   | ♌ 26 02:17   |              | ♌ 12 13:27   | ♌ 26 16:14  | ♌ 3 17:29   | ♌ 14 06:34   |
| ♍ 28 12:36   | ♍ 4 18:41    | ♍ 17 08:02   | ♍ 26 20:33   | ♍ 3 23:19    | ♍ 14 12:33   | ♍ 28 07:33   |              | ♍ 14 22:39   | ♍ 28 16:50  | ♍ 5 23:29   | ♍ 16 10:59   |
|              | ♍ 6 22:06    | ♍ 19 11:21   | ♍ 28 23:46   | ♍ 6 05:25    | ♍ 16 18:31   | ♍ 30 10:15   |              | ♍ 17 04:27   | ♍ 30 15:53  | ♍ 8 01:44   | ♍ 18 12:09   |
| March -1624j | ♍ 9 00:59    | ♍ 21 13:58   |              | ♍ 8 09:37    | ♍ 18 22:18   |              | Nov. -1621j  | ♍ 19 09:47   | ♍ 20 09:42  | ♍ 10 01:38  | ♍ 22 11:45   |
| ♎ 1 15:22    | ♎ 11 03:53   | ♎ 23 16:35   | Oct. -1623j  | ♎ 10 12:19   | ♎ 21 00:11   | ♎ 2 10:59    | ♎ 11 20:41   | ♎ 21 06:30   | Dec. -1620j | ♎ 12 01:09  | ♎ 22 11:41   |
| ♏ 3 19:03    | ♏ 13 07:20   | ♏ 25 20:02   | ♏ 1 02:04    | ♏ 12 14:08   | ♏ 23 01:01   | ♏ 4 11:13    | ♏ 13 20:37   | ♏ 23 05:50   | ♏ 2 15:36   | ♏ 14 02:11  | ♏ 24 13:44   |
| ♐ 6 00:05    | ♐ 15 12:14   | ♐ 28 01:19   | ♐ 3 04:16    | ♐ 14 16:03   | ♐ 25 02:19   | ♐ 6 12:52    | ♐ 15 23:12   | ♐ 25 06:52   | ♐ 4 17:55   | ♐ 16 06:08  | ♐ 26 18:59   |
| ♑ 8 07:03    | ♑ 17 19:32   | ♑ 5 07:29    | ♑ 5 07:29    | ♑ 16 19:22   | ♑ 27 05:53   | ♑ 8 17:46    | ♑ 18 05:53   | ♑ 27 11:19   | ♑ 6 23:58   | ♑ 18 13:34  | ♑ 28 03:40   |
| ♒ 10 16:33   | ♒ 20 05:43   | ♒ 17 12:56   | ♒ 7 12:56    | ♒ 19 01:28   | ♒ 29 13:11   | ♒ 11 02:46   | ♒ 20 16:32   | ♒ 29 19:43   | ♒ 9 09:38   | ♒ 20 23:59  | ♒ 31 14:59   |
| ♓ 13 04:27   | ♓ 22 18:03   | Apr. -1623j  | ♓ 9 21:30    | ♓ 21 11:02   |              | ♓ 13 14:54   | ♓ 23 05:15   | June -1620j  | ♓ 11 21:37  | ♓ 23 12:17  |              |
| ♈ 15 17:21   | ♈ 25 06:28   | ♈ 1 19:58    | ♈ 12 08:59   | ♈ 23 23:16   | Nov. -1622j  | ♈ 16 03:45   | ♈ 25 05:15   | ♈ 1 07:06    | ♈ 14 10:25  | ♈ 26 01:14  | Jan. -1618j  |
| ♉ 18 04:45   | ♉ 27 16:38   | ♉ 4 08:21    | ♉ 14 21:37   | ♉ 26 11:53   | ♉ 1 00:15    | ♉ 18 15:13   | ♉ 25 17:47   | ♉ 16 22:52   | ♉ 16 22:52  | ♉ 28 13:36  | ♉ 3 03:43    |
| ♊ 20 12:49   | ♊ 29 23:24   | ♊ 6 20:13    | ♊ 19 08:58   | ♊ 28 22:32   | ♊ 3 13:15    | ♊ 21 00:30   | ♊ 28 04:53   | ♊ 3 19:41    | ♊ 19 10:01  | ♊ 26 01:14  | ♊ 5 16:42    |
| ♋ 22 17:14   |              | ♋ 9 05:34    | ♋ 19 17:26   |              | ♋ 6 01:28    | ♋ 23 07:44   | ♋ 30 14:14   | ♋ 6 07:58    | ♋ 21 18:50  | ♋ 28 13:36  | ♋ 8 04:40    |
| ♌ 24 19:05   | Oct. -1624j  | ♌ 11 11:44   | ♌ 21 22:56   | May -1622j   | ♌ 8 11:15    | ♌ 25 13:12   |              | ♌ 8 19:04    | ♌ 20 02:28  | ♌ 1 00:01   | ♌ 10 14:16   |
| ♍ 26 19:57   | ♍ 2 03:10    | ♍ 13 15:15   | ♍ 24 02:26   | ♍ 1 06:14    | ♍ 10 18:29   | ♍ 27 16:57   |              | ♍ 11 04:20   | ♍ 26 02:55  | ♍ 3 07:22   | ♍ 12 20:27   |
| ♎ 28 21:22   | ♎ 4 05:10    | ♎ 15 17:22   | ♎ 26 05:07   | ♎ 3 11:24    | ♎ 12 23:53   | ♎ 29 19:10   |              | ♎ 13 11:04   | ♎ 28 03:12  | ♎ 5 11:13   | ♎ 14 23:08   |
| ♏ 31 00:26   | ♏ 6 06:48    | ♏ 17 19:22   | ♏ 28 07:56   | ♏ 5 15:00    | ♏ 15 04:03   | ♏ 31 20:36   |              | ♏ 15 14:51   | ♏ 30 02:59  | ♏ 7 12:14   | ♏ 16 23:17   |
|              | ♏ 8 09:15    | ♏ 19 22:16   | ♏ 30 11:24   | ♏ 7 17:59    | ♏ 17 07:15   |              | Dec. -1621j  | ♏ 17 16:07   |             | ♏ 9 11:54   | ♏ 18 22:34   |
| Apr. -1624j  | ♏ 10 13:16   | ♏ 22 02:40   |              | ♏ 9 20:51    | ♏ 19 09:43   | June -1621j  | ♏ 11 07:35   | ♏ 19 16:14   | Jan. -1619j | ♏ 11 12:02  | ♏ 20 23:01   |
| ♐ 2 05:46    | ♐ 12 19:15   | ♐ 24 08:56   | Nov. -1623j  | ♐ 12 00:02   | ♐ 21 12:11   | ♐ 2 22:40    | ♐ 13 09:46   | ♐ 21 17:05   | ♐ 1 04:14   | ♐ 13 14:28  | ♐ 23 02:27   |
| ♑ 4 13:31    | ♑ 15 03:23   | ♑ 26 17:18   | ♑ 1 15:55    | ♑ 14 04:13   | ♑ 25 15:57   | ♑ 5 03:05    | ♑ 15 15:11   | ♑ 23 20:28   | ♑ 3 08:35   | ♑ 15 20:28  | ♑ 25 09:53   |
| ♒ 6 23:36    | ♒ 17 13:42   | ♒ 29 03:53   | ♒ 3 22:01    | ♒ 16 10:22   | ♒ 25 22:32   | ♒ 7 11:06    | ♒ 18 00:30   | ♒ 26 03:31   | ♒ 5 16:47   | ♒ 18 06:12  | ♒ 27 20:55   |
| ♓ 9 11:37    | ♓ 20 01:50   |              | ♓ 6 06:22    | ♓ 18 19:24   | ♓ 28 08:39   | ♓ 9 22:31    | ♓ 20 12:39   | ♓ 28 14:04   | ♓ 8 04:13   | ♓ 20 18:29  | ♓ 30 09:51   |
| ♈ 12 00:33   | ♈ 22 14:32   | May -1623j   | ♈ 8 17:19    | ♈ 21 07:13   | ♈ 23 20:00   | ♈ 12 11:17   | ♈ 23 01:14   | July -1620j  | ♈ 10 17:03  | ♈ 23 07:25  |              |
| ♉ 14 12:37   | ♉ 25 01:43   | ♉ 1 16:09    | ♉ 11 05:57   | ♉ 23 20:00   | Dec. -1622j  | ♉ 14 22:50   | ♉ 25 12:13   | ♉ 1 02:29    | ♉ 13 05:20  | ♉ 25 19:27  | Feb. -1618j  |
| ♊ 16 21:53   | ♊ 27 09:37   | ♊ 4 04:29    | ♊ 13 17:59   | ♊ 26 07:04   | ♊ 3 09:50    | ♊ 17 07:46   | ♊ 27 20:53   | ♊ 3 14:43    | ♊ 15 15:55  | ♊ 28 05:37  | ♊ 1 22:45    |
| ♋ 19 03:22   | ♋ 29 13:44   | ♋ 6 14:42    | ♋ 16 03:02   | ♋ 28 14:44   | ♋ 5 19:45    | ♋ 19 14:10   | ♋ 30 03:27   | ♋ 6 01:23    | ♋ 18 00:18  | ♋ 30 13:26  | ♋ 4 10:25    |
| ♌ 21 05:28   | ♌ 31 14:58   | ♌ 8 21:20    | ♌ 18 08:18   | ♌ 30 19:07   | ♌ 8 02:23    | ♌ 21 18:48   |              | ♌ 8 10:01    | ♌ 20 06:23  | ♌ 6 20:10   | ♌ 9 03:27    |
| ♍ 23 05:34   |              | ♍ 11 00:28   | ♍ 20 10:38   |              | ♍ 10 06:36   | ♍ 23 22:21   |              | ♍ 10 16:31   | ♍ 22 10:13  | ♍ 9 03:27   |              |
| ♎ 25 05:30   | Nov. -1624j  | ♎ 13 01:25   | ♎ 22 11:48   | June -1622j  | ♎ 12 13:33   | ♎ 26 01:16   | Jan. -1620j  | ♎ 14 12:15   | ♎ 14 12:15  | ♎ 1 18:37   | Jan. -1618j  |
| ♏ 27 07:00   | ♏ 2 15:01    | ♏ 15 01:59   | ♏ 24 13:29   | ♏ 1 21:33    | ♏ 3 23:34    | ♏ 28 03:56   | ♏ 1 08:20    | ♏ 12 20:57   | ♏ 3 21:19   | ♏ 3 21:19   | ♏ 11 07:53   |
| ♐ 29 11:23   | ♐ 4 15:48    | ♐ 17 03:51   | ♐ 26 16:49   | ♐ 5 06:15    | ♐ 6 02:14    | ♐ 30 07:09   | ♐ 3 11:52    | ♐ 14 23:36   | ♐ 5 22:15   | ♐ 13 14:28  | ♐ 15 09:43   |
|              | ♐ 6 18:49    | ♐ 19 08:06   | ♐ 28 22:08   | ♐ 8 06:05    | ♐ 16 15:50   |              | ♐ 14 22:22   | ♐ 17 01:12   | ♐ 7 22:44   | ♐ 15 20:28  | ♐ 17 09:49   |
| May -1624j   | ♐ 9 00:49    | ♐ 21 14:56   |              | ♐ 10 11:16   | ♐ 18 19:38   | July -1621j  | ♐ 7 16:35    | ♐ 19 02:56   | ♐ 8 04:13   | ♐ 20 18:29  | ♐ 19 11:56   |
| ♑ 1 19:05    | ♑ 11 09:40   | ♑ 24 00:02   | Dec. -1623j  | ♑ 10 11:16   | ♑ 21 00:33   | ♑ 2 12:03    | ♑ 9 19:41    | ♑ 21 06:17   | Feb. -1619j | ♑ 12 05:05  | ♑ 21 17:47   |
| ♒ 4 05:37    | ♒ 13 20:35   | ♒ 26 10:56   | ♒ 1 05:16    | ♒ 12 18:10   | ♒ 23 07:28   | ♒ 4 19:48    | ♒ 12 00:59   | ♒ 23 12:31   | ♒ 2 01:29   | ♒ 14 13:37  | ♒ 24 03:44   |
| ♓ 6 17:56    | ♓ 16 08:48   | ♓ 28 23:12   | ♓ 3 14:13    | ♓ 15 03:20   | ♓ 25 17:13   | ♓ 7 06:38    | ♓ 14 09:27   | ♓ 25 22:05   | ♓ 4 11:54   | ♓ 17 01:24  | ♓ 26 16:24   |
| ♈ 9 06:53    | ♈ 18 21:30   | ♈ 31 11:51   | ♈ 6 01:07    | ♈ 17 14:57   | ♈ 28 05:28   | ♈ 9 19:17    | ♈ 16 20:49   | ♈ 28 10:06   | ♈ 7 00:28   | ♈ 19 14:22  |              |
| ♉ 11 19:12   | ♉ 21 09:24   |              | ♉ 8 13:40    | ♉ 20 03:54   | ♉ 30 18:19   | ♉ 12 07:14   | ♉ 19 09:23   | ♉ 30 22:28   | ♉ 9 12:51   | ♉ 22 02:10  | March -1618j |
| ♊ 14 05:27   | ♊ 23 18:48   | June -1623j  | ♊ 11 02:18   | ♊ 22         |              |              |              |              |             |             |              |



with clock times in UT/GMT. The year -1618 astronomical counting style corresponds to year 1619 B.C.E historical counting style.

|              |              |              |              |              |              |              |              |              |              |              |              |
|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| May -1618j   | Nov. -1618j  | May -1617j   | Dec. -1617j  | June -1616j  | Dec. -1616j  | July -1615j  | Jan. -1614j  | July -1614j  | Feb. -1613j  | Aug. -1613j  | Feb. -1612j  |
| 1 22:21      | 11 10:04     | 23 23:14     | 1 06:43      | 11 20:07     | 22 09:40     | 1 16:30      | 11 06:43     | 23 19:17     | 2 07:42      | 14 17:12     | 24 04:23     |
| 4 01:57      | 13 10:04     | 26 03:09     | 3 12:09      | 14 01:07     | 24 14:21     | 3 22:44      | 13 11:58     | 25 22:21     | 4 09:21      | 16 17:36     | 26 04:33     |
| 6 04:41      | 15 17:09     | 28 05:56     | 5 15:55      | 16 04:13     | 26 16:49     | 6 02:03      | 15 13:53     | 27 22:28     | 6 08:51      | 18 17:01     | 28 04:22     |
| 8 07:21      | 17 19:59     | 30 08:14     | 7 18:31      | 18 05:57     | 28 17:44     | 8 02:55      | 17 13:36     | 29 21:31     | 8 08:16      | 20 17:24     |              |
| 10 10:28     | 19 23:04     |              | 9 20:35      | 20 07:15     | 30 18:27     | 10 02:42     | 19 13:06     | 31 21:44     | 10 09:36     | 22 20:22     | March -1612j |
| 12 14:35     | 22 03:11     | June -1617j  | 11 23:06     | 22 09:32     |              | 12 03:24     | 21 14:35     |              | 12 14:17     | 25 02:42     | 1 05:37      |
| 14 20:25     | 24 09:22     | 1 10:55      | 14 03:22     | 24 14:19     | Jan. -1615j  | 14 07:01     | 23 19:47     | Aug. -1614j  | 14 22:36     | 27 12:15     | 3 09:41      |
| 17 04:45     | 26 18:20     | 3 15:05      | 16 10:33     | 26 22:41     | 1 20:51      | 16 14:46     | 26 05:05     | 3 01:01      | 17 09:46     | 30 00:05     | 5 17:05      |
| 19 15:47     | 29 05:56     | 5 21:45      | 18 21:01     | 29 10:19     | 4 02:38      | 19 02:10     | 28 17:12     | 5 08:14      | 19 22:23     |              | 8 03:25      |
| 22 04:27     |              | 8 07:24      | 21 09:33     |              | 6 12:29      | 21 15:05     | 31 05:55     | 7 18:49      | 22 11:09     | Sept. -1613j | 10 15:39     |
| 24 16:32     | Dec. -1618j  | 10 19:22     | 23 21:45     | July -1616j  | 9 01:06      | 24 03:15     |              | 10 07:11     | 24 22:58     | 1 13:02      | 13 04:34     |
| 27 01:48     | 1 18:34      | 13 07:42     | 26 07:28     | 1 23:11      | 11 13:53     | 26 13:34     | Feb. -1614j  | 12 19:50     | 27 08:41     | 4 01:53      | 15 16:57     |
| 29 07:33     | 4 05:49      | 15 18:10     | 28 14:06     | 4 10:48      | 14 00:40     | 28 21:55     | 2 17:42      | 15 07:43     |              | 6 13:18      | 18 03:27     |
| 31 10:26     | 6 14:01      | 18 01:37     | 30 18:20     | 6 19:43      | 16 08:57     | 31 04:24     | 5 03:55      | 17 18:04     | March -1613j | 8 21:53      | 20 10:50     |
|              | 8 18:57      | 20 06:15     |              | 9 02:01      | 18 15:09     |              | 7 12:17      | 20 01:56     | 1 15:22      | 11 02:53     | 22 14:38     |
| June -1618j  | 10 21:34     | 22 09:05     | Jan. -1616j  | 11 06:29     | 20 19:53     | Aug. -1615j  | 9 18:23      | 22 06:39     | 3 18:44      | 13 04:36     | 24 15:29     |
| 2 11:51      | 12 23:17     | 24 11:19     | 1 21:20      | 13 09:55     | 22 23:25     | 2 08:51      | 11 21:54     | 24 08:24     | 5 19:32      | 15 04:19     | 26 14:54     |
| 4 13:17      | 15 01:21     | 26 13:57     | 4 00:07      | 15 12:48     | 25 01:55     | 4 11:19      | 13 23:15     | 26 08:24     | 7 19:18      | 17 03:53     | 28 14:50     |
| 6 15:52      | 17 04:44     | 28 17:40     | 6 03:18      | 17 15:29     | 27 03:59     | 6 12:26      | 15 23:43     | 28 08:31     | 9 19:53      | 19 05:11     | 30 17:13     |
| 8 20:18      | 19 09:55     | 30 22:55     | 8 07:13      | 19 18:42     | 29 06:53     | 8 13:38      | 18 01:07     | 30 10:41     | 11 23:02     | 21 09:51     |              |
| 11 02:58     | 21 17:08     |              | 10 12:23     | 21 23:36     | 31 12:12     | 10 16:48     | 20 05:16     |              | 14 05:52     | 23 18:27     | Apr. -1612j  |
| 13 11:59     | 24 02:29     | July -1617j  | 12 19:36     | 24 07:22     |              | 12 23:26     | 22 13:13     | Sept. -1614j | 16 16:16     | 26 06:10     | 1 23:21      |
| 15 23:10     | 26 13:53     | 3 06:06      | 15 05:30     | 26 18:22     | Feb. -1615j  | 15 09:52     | 25 00:29     | 1 16:21      | 19 04:49     | 28 19:14     | 4 09:16      |
| 18 11:48     | 29 02:30     | 5 15:36      | 17 17:45     | 29 07:11     | 2 21:03      | 22 22:29     | 27 13:06     | 4 01:48      | 21 17:32     |              | 6 21:38      |
| 21 00:18     | 31 14:32     | 8 03:17      | 20 06:22     | 31 19:08     | 5 09:02      | 20 10:44     |              | 6 13:52      | 24 04:56     | Oct. -1613j  | 9 10:37      |
| 23 10:38     |              | 10 15:51     | 22 16:45     |              | 7 21:53      | 22 20:47     | March -1614j | 9 02:30      | 26 14:15     | 1 07:51      | 11 22:48     |
| 25 17:23     | Jan. -1617j  | 13 03:03     | 24 23:25     | Aug. -1616j  | 10 08:54     | 25 04:21     | 2 00:52      | 11 14:05     | 28 21:10     | 3 18:56      | 14 09:21     |
| 27 20:33     | 2 23:53      | 15 10:59     | 27 02:47     | 3 04:04      | 12 16:50     | 27 09:59     | 4 10:37      | 13 23:47     | 31 01:41     | 6 03:53      | 16 17:35     |
| 29 21:16     | 5 05:26      | 17 15:18     | 29 04:21     | 5 09:40      | 14 22:04     | 29 14:14     | 6 18:10      | 16 07:22     |              | 8 10:13      | 18 22:55     |
|              | 7 07:38      | 19 17:00     | 31 05:53     | 7 12:59      | 17 01:43     | 31 17:27     | 8 23:47      | 18 12:43     | Apr. -1613j  | 10 13:47     | 21 01:19     |
| July -1618j  | 9 07:58      | 21 17:51     |              | 9 15:28      | 19 04:46     |              | 11 03:42     | 20 15:58     | 2 04:05      | 12 15:03     | 23 01:35     |
| 1 12:18      | 11 08:20     | 23 19:31     | Feb. -1616j  | 11 18:12     | 21 07:45     | Sept. -1615j | 13 06:17     | 22 17:39     | 4 05:13      | 14 15:11     | 25 01:20     |
| 3 22:22      | 13 10:26     | 25 23:08     | 2 08:38      | 13 21:38     | 23 11:00     | 2 19:59      | 15 08:14     | 24 18:55     | 6 06:19      | 16 15:54     | 27 02:36     |
| 6 01:54      | 15 15:20     | 28 05:02     | 4 13:06      | 16 02:02     | 25 15:06     | 4 22:32      | 17 10:41     | 26 21:11     | 8 08:57      | 18 19:06     | 29 07:13     |
| 8 08:33      | 17 23:07     | 30 13:04     | 6 19:19      | 18 07:49     | 27 21:01     | 7 02:20      | 19 14:58     | 29 01:59     | 10 14:35     | 20 10:10     |              |
| 10 18:05     | 20 09:13     |              | 9 03:18      | 20 15:46     |              | 9 08:43      | 21 22:13     |              | 12 23:52     | 23 13:06     | May -1612j   |
| 13 05:41     | 22 20:53     | Aug. -1617j  | 11 13:21     | 23 02:27     | March -1615j | 11 18:22     | 24 08:37     | Oct. -1614j  | 15 11:59     | 26 02:04     | 1 16:00      |
| 15 18:22     | 25 09:29     | 1 12:59      | 14 01:26     | 25 15:11     | 2 05:40      | 14 06:33     | 26 20:57     | 1 10:12      | 18 00:43     | 28 14:37     | 4 03:59      |
| 18 07:01     | 27 21:54     | 4 10:38      | 16 14:21     | 28 03:42     | 4 17:11      | 16 19:03     | 29 08:57     | 3 21:32      | 20 11:55     | 31 01:10     | 6 16:58      |
| 20 18:10     | 30 08:28     | 6 23:20      | 19 01:42     | 30 13:26     | 7 06:02      | 19 05:28     | 31 18:44     | 6 10:11      | 22 20:32     |              | 9 04:55      |
| 23 02:22     |              | 9 11:22      | 21 09:22     |              | 9 17:38      | 21 12:47     |              | 8 21:49      | 25 02:45     | Nov. -1613j  | 11 15:01     |
| 25 06:51     | Feb. -1617j  | 11 20:31     | 23 12:57     | Sept. -1616j | 12 02:02     | 23 17:24     | Apr. -1614j  | 11 06:59     | 27 07:09     | 2 09:26      | 13 23:06     |
| 27 08:03     | 1 15:32      | 14 01:35     | 25 13:46     | 1 19:13      | 14 06:58     | 25 20:23     | 3 01:40      | 13 13:34     | 29 10:21     | 4 15:44      | 16 05:07     |
| 29 07:29     | 3 18:38      | 16 03:06     | 27 13:49     | 3 21:49      | 16 09:32     | 27 22:51     | 5 06:11      | 15 18:09     |              | 6 20:18      | 18 08:55     |
| 31 07:09     | 5 18:46      | 18 02:48     | 29 15:00     | 5 22:56      | 18 11:12     | 30 01:36     | 7 09:14      | 17 21:31     | May -1613j   | 8 23:16      | 20 10:42     |
|              | 7 17:54      | 20 02:52     |              | 8 00:16      | 20 13:14     |              | 9 11:45      | 20 00:20     | 1 12:51      | 11 01:01     | 22 11:23     |
| Aug. -1618j  | 9 18:14      | 22 05:07     | March -1616j | 10 03:02     | 22 16:27     | Oct. -1615j  | 11 14:30     | 23 03:08     | 3 15:13      | 13 02:34     | 24 12:40     |
| 2 09:02      | 11 21:34     | 24 10:30     | 2 18:34      | 12 07:42     | 24 21:19     | 2 05:12      | 13 18:10     | 24 06:37     | 5 18:27      | 15 05:28     | 26 16:26     |
| 4 14:32      | 14 04:41     | 26 18:51     | 5 00:49      | 14 14:21     | 27 04:10     | 4 10:14      | 15 23:24     | 26 11:42     | 7 23:48      | 17 11:25     | 29 00:01     |
| 6 23:48      | 16 14:57     | 29 05:19     | 7 09:27      | 16 23:03     | 29 13:21     | 6 17:17      | 18 06:51     | 28 19:20     | 10 08:16     | 19 21:11     | 31 11:14     |
| 9 11:40      | 19 03:00     | 31 17:12     | 9 20:03      | 19 09:55     |              | 9 02:51      | 20 16:53     | 31 05:55     | 12 19:49     | 22 09:46     |              |
| 12 00:28     | 21 15:39     |              | 12 08:14     | 21 22:34     | Apr. -1615j  | 11 14:41     | 23 04:56     |              | 15 08:36     | 24 22:28     | June -1612j  |
| 14 12:58     | 24 04:04     | Sept. -1617j | 14 21:15     | 24 11:32     | 1 00:49      | 14 03:21     | 25 17:17     | Nov. -1614j  | 17 19:59     | 27 08:55     | 3 00:03      |
| 17 00:18     | 26 15:13     | 3 05:53      | 17 09:19     | 26 22:24     | 3 13:40      | 16 14:38     | 28 03:40     | 2 18:27      | 20 04:20     | 29 16:25     | 5 11:59      |
| 19 09:30     | 28 23:41     | 5 18:20      | 19 18:21     | 29 05:25     | 6 01:52      | 18 22:41     | 30 10:44     | 5 06:33      | 22 09:39     |              | 7 21:37      |
| 21 15:39     |              | 8 04:44      | 21 23:12     |              | 8 11:18      | 21 03:11     |              | 7 15:59      | 24 13:01     | Dec. -1613j  | 10 04:57     |
| 23 18:24     | March -1617j | 10 11:24     | 23 23:59     | Oct. -1616j  | 10 16:57     | 23 05:04     | May -1614j   | 9 21:58      | 26 15:43     | 1 21:39      | 12 10:31     |
| 25 18:33     | 3 04:27      | 12 13:59     | 25 23:59     | 1 08:30      | 12 19:20     | 25 05:56     | 2 14:34      | 12 01:17     | 28 18:35     | 3 40:18      | 14 14:39     |
| 27 17:49     | 5 05:42      | 14 13:44     | 27 23:44     | 3 09:01      | 14 19:56     | 27 07:22     | 4 16:21      | 14 03:23     | 30 22:01     | 6 05:02      | 16 17:34     |
| 29 18:24     | 7 04:56      | 16 12:47     | 30 01:36     | 5 08:53      | 16 20:25     | 29 10:36     | 6 17:39      | 16 05:40     |              | 8 08:05      | 18 19:40     |
| 31 22:15     | 9 04:17      | 18 13:21     |              | 7 09:55      | 18 22:20     | 31 16:13     | 8 19:53      | 18 09:00     | June -1613j  | 10 11:07     | 20 21:56     |
|              | 11 05:58     | 20 17:07     | Apr. -1616j  | 9 13:24      | 21 02:44     |              | 10 23:54     | 20 13:42     | 2 02:22      | 12 14:57     | 23 01:52     |
| Sept. -1618j | 13 11:29     | 23 00:37     | 1 06:40      | 11 19:53     | 23 09:57     | Nov. -1615j  | 13 06:02     | 22 19:53     | 4 08:17      | 14 20:54     | 25 08:50     |
| 3 06:20      | 15 20:56     | 25 11:08     | 3 15:01      | 14 05:07     | 25 19:46     | 3 00:13      | 15 14:15     | 25 03:54     | 6 16:38      | 17 05:58     | 27 19:16     |
| 5 17:52      | 18 08:56     | 27 23:17     | 6 01:54      | 16 16:29     | 28 07:34     | 5 10:21      | 18 08:28     | 27 14:12     | 9 03:47      | 19 17:59     | 30 07:50     |
| 8 06:44      | 20 21:40     | 30 11:57     | 8 14:21      | 19 05:12     | 30 20:25     | 7 22:09      | 20 12:26     | 30 02:31     | 11 16:37     | 22 06:52     |              |
| 10 19:03     | 23 09:53     |              | 11 03:20     | 21 18:11     |              | 10 10:51     | 23 01:03     |              | 14 04:34     | 24 17:50     | July -1612j  |
| 13 05:58     | 25 20:51     | Oct. -1617j  | 13 15:35     | 24 05:49     | May -1615j   | 12 22:54     | 25 12:21     | Dec. -1614j  | 16 13:21     | 27 01:21     | 2 19:59      |
| 15 15:09     | 28 05:50     | 3 00:16      | 16 01:32     | 26 14:24     | 3 08:58      | 15 08:21     | 27 20:22     | 2 15:11      | 18 18:24     | 29 05:45     | 5 05:39      |
| 17 22:11     | 30 11:58     | 5 11:09      | 18 07:56     | 28 19:06     | 5 19:27      | 17 13:58     | 30 00:29     | 5 01:35      | 20 20:46     | 31 08:22     | 7 12:23      |
| 20 02:36     |              | 7 19:13      | 20 10:50     | 30 20:27     | 8 02:29      | 19 15:59     |              | 7 08:06      | 22 22:10     |              | 9 16:54      |
| 22 04:26     | Apr. -1617j  | 9 23:37      | 22 10:50     |              | 10 05:49     | 21 15:50     | June -1614j  | 9 10:55      | 25 00:06     | Jan. -1612j  | 11 20:11     |
| 24 04:40     | 1 14:53      | 12 00:46     | 24 10:14     | Nov. -1616j  | 12 16:22     | 23 15:32     | 1 01:36      | 11 11:39     | 27 03:27     | 2 10:38      | 13 23:00     |
| 26 05:08     | 3 15:21      | 14 00:11     | 26 10:48     | 1 19:57      | 14 05:51     | 25 17:04     | 3 01:33      | 13 12:19     | 29 08:29     | 4 13:27      | 16 01:52     |
| 28 07:54     | 5 15:02      | 16 15:23     | 28 14:13     | 3 19:34      | 16 06:11     | 27 21:46     | 5 02:19      | 15 14:33     |              | 6 17:14      | 18 05:21     |
| 30 14:31     | 7 16:00      | 18 02:05     | 30 21:20     | 5 21:11      | 18 09:05     | 30 05:54     | 7 05:25      | 17 19:08     | July -1613j  | 8 22:17      | 20 10:13     |
|              | 9 20:06      | 20 07:56     |              | 8 02:11      | 20 15:34     |              | 9 11:32      | 20 02:04     | 1 15:17      | 11 05:06     | 22 17:27     |
| Oct. -1618j  | 12 04:10     | 22 17:33     | May -1616j   | 10 10:56     | 23 01:28     | Dec. -1615j  | 11 20:18     | 22 10:56     | 4 00:09      | 13 14:20     | 25 03:31     |
| 3 01:03      | 14 15:31     | 3 07:50      | 3 07:50      | 12 22:31     | 25 13:36     | 2 16:37      | 14 07:02     | 24 21:34     | 6 11:17      | 16 02:02     | 27 15:50     |
| 5 13:44      | 17 04:10     | 5 20:22      | 5 20:22      | 15 11:26     | 28 02:31     | 5 04:45      | 16 19:06     | 27 09:49     | 9 00:08      | 18 14:58     | 30 04:20     |
| 8 02:04      | 19 16:15     | 8 09:18      | 8 09:18      | 18 00:14     | 30 15:03</   |              |              |              |              |              |              |

with clock times in UT/GMT. The year -1612 astronomical counting style corresponds to year 1613 B.C.E historical counting style.

|              |              |              |              |             |              |              |              |              |              |              |              |
|--------------|--------------|--------------|--------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Sept. -1612j | March -1611j | Sept. -1611j | Apr. -1610j  | Oct. -1610j | Apr. -1609j  | Nov. -1609j  | May -1608j   | Nov. -1608j  | June -1607j  | Dec. -1607j  | June -1606j  |
| 2 11:48      | 14 23:25     | 24 08:44     | 1 13:23      | 12 00:15    | 23 12:43     | 3 01:00      | 14 14:49     | 24 04:07     | 1 03:41      | 11 17:47     | 23 07:31     |
| 4 13:10      | 17 00:27     | 26 09:51     | 3 18:01      | 14 04:26    | 25 17:18     | 5 05:57      | 16 19:24     | 26 08:09     | 3 11:39      | 14 01:14     | 25 13:53     |
| 6 13:16      | 19 00:52     | 28 11:21     | 5 20:25      | 16 07:24    | 27 20:48     | 7 09:37      | 18 22:14     | 28 10:18     | 5 17:01      | 16 05:54     | 27 16:58     |
| 8 13:55      | 21 02:26     | 30 14:27     | 7 22:13      | 18 10:14    | 29 23:46     | 9 12:17      | 20 23:57     | 30 11:30     | 7 19:55      | 18 07:53     | 29 17:26     |
| 10 16:40     | 23 06:21     |              | 9 22:39      | 10 00:40    |              | 11 14:33     | 22 01:43     |              | 9 21:01      | 20 08:08     |              |
| 12 22:23     | 25 13:01     | Oct. -1611j  | 12 04:26     | 22 17:22    | May -1609j   | 13 17:35     | 25 04:55     | Dec. -1608j  | 11 21:36     | 22 08:16     | July -1606j  |
| 15 07:02     | 27 22:02     | 2 19:38      | 14 09:39     | 24 22:18    | 2 02:34      | 15 22:44     | 27 10:52     | 2 13:04      | 13 23:15     | 24 10:14     | 1 16:49      |
| 17 17:55     | 30 08:53     | 5 02:46      | 16 16:32     | 27 05:09    | 4 05:50      | 18 07:04     | 29 20:09     | 4 16:36      | 16 03:35     | 26 15:46     | 3 17:12      |
| 20 06:13     |              | 7 11:45      | 19 01:30     | 29 14:45    | 6 10:37      | 20 18:26     |              | 6 23:21      | 18 11:40     | 29 01:26     | 5 20:37      |
| 22 19:02     | Apr. -1611j  | 9 22:39      | 21 12:50     |             | 8 18:02      | 22 07:04     | June -1608j  | 8 09:37      | 20 23:07     | 31 13:59     | 8 04:11      |
| 25 07:02     | 1 21:03      | 12 11:10     | 24 01:39     | Nov. -1610j | 11 04:33     | 25 18:31     | 1 07:59      | 11 22:06     | 23 12:03     |              | 10 15:26     |
| 27 16:32     | 4 09:38      | 14 23:50     | 26 13:45     | 1 02:57     | 13 17:07     | 28 03:08     | 3 20:24      | 14 10:28     | 26 00:04     | Jan. -1606j  | 13 04:20     |
| 29 22:19     | 6 21:02      | 17 10:18     | 28 22:42     | 3 15:54     | 16 05:19     | 30 08:50     | 6 07:14      | 16 20:47     | 28 09:51     | 5 14:20      | 15 16:51     |
|              | 9 05:22      | 19 16:46     |              | 6 02:50     | 18 14:56     |              | 8 15:26      | 19 04:24     | 30 17:11     | 7 23:32      | 18 03:52     |
| Oct. -1612j  | 11 09:44     | 21 19:16     | May -1610j   | 8 10:01     | 20 21:13     | Dec. -1609j  | 10 21:05     | 21 09:44     | 21 09:44     | 7 23:32      | 20 13:03     |
| 2 00:24      | 13 10:44     | 23 19:22     | 1 03:38      | 10 13:42    | 22 00:51     | 2 12:28      | 13 00:54     | 23 13:34     | 22 22:30     | 10 06:42     | 22 20:08     |
| 4 00:03      | 15 10:10     | 25 19:11     | 3 05:27      | 12 15:20    | 25 03:08     | 4 15:08      | 15 03:43     | 25 16:35     | 25 16:35     | 12 12:01     | 25 00:42     |
| 5 23:16      | 17 10:10     | 27 20:41     | 5 05:58      | 14 16:39    | 27 05:15     | 6 17:43      | 17 06:18     | 27 19:18     | 27 19:18     | 14 15:32     | 27 02:47     |
| 8 00:12      | 19 12:38     | 30 01:04     | 7 07:01      | 16 18:56    | 29 08:03     | 8 20:55      | 19 09:20     | 29 22:18     | 7 04:49      | 16 17:29     | 29 03:13     |
| 10 04:20     | 21 18:34     |              | 9 09:55      | 18 22:52    | 31 12:05     | 11 01:17     | 21 13:33     |              | 9 06:45      | 18 18:42     | 31 03:41     |
| 12 12:49     | 23 03:42     | Nov. -1611j  | 11 15:09     | 21 04:41    | June -1609j  | 13 07:24     | 23 19:47     | Jan. -1607j  | 11 09:04     | 20 20:43     | Aug. -1606j  |
| 14 23:50     | 26 14:58     | 1 08:25      | 13 22:40     | 23 12:28    | 2 17:52      | 15 15:51     | 26 04:38     | 1 02:26      | 13 13:08     | 23 01:19     | 2 06:13      |
| 17 12:25     | 29 03:18     | 3 18:04      | 16 08:16     | 25 22:28    | 5 01:53      | 18 02:46     | 28 16:01     | 3 08:49      | 15 20:19     | 25 09:45     | 4 12:26      |
| 20 01:08     |              | 6 05:23      | 18 19:47     | 28 10:33    | 7 12:24      | 20 15:18     |              | 5 18:14      | 18 06:58     | 27 21:34     | 6 22:38      |
| 22 13:09     | May -1611j   | 8 17:53      | 21 08:38     | 30 23:38    | 9 00:49      | 23 03:22     | July -1608j  | 8 06:16      | 20 19:43     | 30 10:31     | 8 11:16      |
| 24 23:31     | 1 15:53      | 11 06:46     | 23 21:14     |             | 12 13:23     | 25 12:51     | 1 04:31      | 10 18:55     | 23 07:55     |              | 9 11:16      |
| 27 06:59     | 4 03:41      | 13 18:17     | 26 07:20     | Dec. -1610j | 14 23:51     | 27 18:44     | 3 15:52      | 13 05:35     | 25 17:28     | 1 21:57      | 11 23:45     |
| 29 10:51     | 6 13:12      | 16 02:25     | 28 13:26     | 3 11:31     | 17 06:49     | 29 21:33     | 6 00:14      | 15 12:54     | 27 23:59     | 4 06:38      | 14 10:25     |
| 31 11:32     | 8 19:04      | 18 06:17     | 30 15:45     | 5 20:02     | 19 10:20     | 31 22:41     | 8 05:16      | 17 17:10     | 30 04:19     | 6 12:50      | 16 18:54     |
|              | 10 21:11     | 20 06:45     |              | 8 00:31     | 21 11:38     |              | 10 07:53     | 19 19:43     |              | 8 17:27      | 19 01:30     |
| Nov. -1612j  | 12 20:47     | 22 05:47     | June -1610j  | 10 01:53    | 23 12:18     | Jan. -1608j  | 12 09:33     | 21 21:58     | Aug. -1607j  | 10 21:06     | 21 06:27     |
| 2 10:37      | 14 19:58     | 24 05:36     | 1 15:47      | 12 01:52    | 25 13:53     | 2 23:48      | 14 11:40     | 24 00:55     | 1 07:36      | 13 00:06     | 23 09:46     |
| 4 10:18      | 16 20:56     | 26 08:06     | 3 15:33      | 14 02:20    | 27 17:30     | 5 02:17      | 16 15:09     | 26 04:58     | 3 10:37      | 15 02:46     | 25 11:46     |
| 6 12:47      | 19 01:20     | 28 14:16     | 5 16:52      | 16 04:48    | 29 23:42     | 7 06:59      | 18 20:22     | 28 10:18     | 5 13:43      | 17 05:54     | 27 13:24     |
| 8 19:24      | 21 09:37     | 30 23:45     | 7 20:58      | 18 10:06    | July -1609j  | 9 14:03      | 21 03:28     | 30 17:19     | 7 17:17      | 19 10:46     | 29 16:12     |
| 11 05:56     | 23 20:48     |              | 10 04:12     | 20 18:20    | 2 08:27      | 11 23:17     | 23 12:35     |              | 9 22:04      | 21 18:39     | 31 21:47     |
| 13 18:35     | 26 09:17     | Dec. -1611j  | 12 14:09     | 23 04:58    | 4 19:23      | 14 10:22     | 25 23:47     | Feb. -1607j  | 12 05:08     | 24 05:46     | Sept. -1606j |
| 16 07:17     | 28 21:46     | 3 11:24      | 25 17:18     | 25 17:18    | 6 00:03      | 16 22:47     | 28 12:22     | 2 02:37      | 14 15:15     | 26 18:36     | 3 06:59      |
| 18 18:57     | 31 09:26     | 6 00:03      | 28 06:21     | 28 06:21    | 8 12:47      | 19 11:18     | 31 00:25     | 4 14:19      | 17 03:46     |              | 5 19:03      |
| 21 05:06     |              | 8 12:47      | 30 03:36     | 30 18:41    | 11 00:31     | 21 21:57     |              | 7 03:10      | 19 16:22     | March -1606j | 7 08:39      |
| 23 13:16     | June -1611j  | 11 00:31     | 22 14:29     | Jan. -1609j | 13 09:50     | 24 05:04     | Aug. -1608j  | 9 14:39      | 22 02:24     | 1 06:25      | 10 18:25     |
| 25 18:45     | 2 19:21      | 13 09:50     | 24 22:02     | 2 04:31     | 15 15:32     | 26 08:19     | 2 09:43      | 11 22:37     | 24 08:44     | 3 15:15      | 12 02:24     |
| 27 21:18     | 5 02:28      | 15 15:32     | 27 01:46     | 4 10:41     | 17 17:38     | 28 08:47     | 4 15:06      | 14 02:42     | 26 12:06     | 5 20:53      | 15 07:59     |
| 29 21:41     | 7 06:11      | 17 17:38     | 29 02:31     | 6 13:09     | 19 17:23     | 30 08:22     | 6 17:07      | 16 04:10     | 28 14:04     | 8 00:19      | 17 11:59     |
|              | 9 07:02      | 19 17:23     |              | 8 13:08     | 21 16:42     |              | 8 17:28      | 18 04:54     | 30 16:07     | 10 02:51     | 19 15:11     |
| Dec. -1612j  | 11 06:36     | 21 16:44     | July -1610j  | 10 10:53    | 23 12:18     | Feb. -1608j  | 10 18:06     | 20 06:37     | Sept. -1607j | 12 05:27     | 21 18:01     |
| 1 12:35      | 13 06:55     | 23 17:45     | 1 01:58      | 12 13:07    | 25 13:53     | 1 09:07      | 12 20:40     | 22 10:19     | 1 19:09      | 14 08:39     | 23 21:01     |
| 3 23:08      | 15 09:57     | 25 22:03     | 3 02:03      | 14 16:43    | 27 17:30     | 3 12:38      | 15 01:53     | 24 16:12     | 3 23:31      | 16 12:53     | 25 20:59     |
| 6 04:10      | 17 16:50     | 28 06:14     | 5 04:31      | 16 17:00:05 | 29 23:42     | 5 19:32      | 17 09:39     | 26 00:05     | 5 03:45      | 18 18:44     | 28 06:59     |
| 8 13:20      | 20 03:16     | 30 17:34     | 7 10:30      | 17 00:05    | Aug. -1609j  | 8 05:17      | 19 19:25     |              | 6 05:21      | 20 02:56     | 30 15:47     |
| 11 01:27     | 22 15:38     |              | 9 20:01      | 19 10:47    | 1 01:32      | 10 16:51     | 22 06:48     | March -1607j | 8 13:05      | 23 13:49     |              |
| 13 14:12     | 25 04:04     | Jan. -1610j  | 12 08:00     | 21 23:25    | 3 14:08      | 13 05:20     | 24 19:22     | 1 09:54      | 10 23:12     | 26 02:31     | Oct. -1606j  |
| 16 01:38     | 27 15:21     | 2 06:20      | 14 20:56     | 24 12:27    | 6 02:51      | 15 17:56     | 27 07:58     | 3 21:37      | 13 11:33     | 28 14:51     | 5 15:59      |
| 18 11:07     | 30 00:52     | 4 18:55      | 17 09:26     | 27 00:39    | 8 14:36      | 18 05:23     | 30 08:22     | 6 10:33      | 16 00:31     | 31 00:29     | 8 03:22      |
| 20 18:41     |              | 7 06:13      | 19 20:21     | 31 18:36    | 10 00:05     | 20 14:01     |              | 8 22:48      | 18 11:33     |              | 10 11:43     |
| 23 00:25     | July -1611j  | 9 15:31      | 22 04:45     | Feb. -1609j | 12 06:12     | 22 18:43     | Sept. -1608j | 11 07:59     | 20 18:45     | Apr. -1606j  | 12 16:47     |
| 25 04:12     | 2 08:12      | 11 22:12     | 24 10:03     | 2 22:52     | 13 06:12     | 24 19:52     | 1 01:14      | 13 13:00     | 22 22:08     | 2 06:27      | 14 19:32     |
| 27 06:19     | 4 13:01      | 14 02:02     | 26 12:23     | 5 00:12     | 15 08:43     | 26 19:01     | 3 03:52      | 15 14:28     | 24 23:07     | 4 09:20      | 16 21:19     |
| 29 07:39     | 6 15:26      | 16 03:31     | 28 12:44     | 8 23:37     | 17 18:39     | 28 18:24     | 5 03:45      | 17 14:14     | 26 23:35     | 6 10:36      | 18 23:24     |
| 31 09:42     | 8 16:20      | 18 03:52     | 30 12:41     | 11 01:34    | 19 07:50     |              | 7 03:02      | 19 14:21     | 29 01:11     | 8 11:46      | 20 02:41     |
|              | 10 17:13     | 20 04:44     |              | 13 15:42    | 21 08:24     | March -1608j | 9 03:53      | 21 16:33     | Oct. -1607j  | 10 14:06     | 23 07:42     |
| Jan. -1611j  | 12 19:49     | 22 07:50     | Aug. -1610j  | 15 17:05    | 23 12:14     | 1 20:09      | 11 07:48     | 23 21:40     | 1 04:55      | 12 18:24     | 25 14:43     |
| 2 14:09      | 15 01:33     | 24 14:28     | 1 14:04      | 17 05:16    | 25 20:11     | 4 01:40      | 13 15:12     | 26 05:41     | 3 11:06      | 15 00:58     | 27 23:56     |
| 4 22:07      | 17 10:54     | 27 00:44     | 3 18:30      | 19 05:38    | 27 02:28     | 6 10:57      | 16 10:19     | 28 16:02     | 5 19:37      | 19 21:04     | 30 11:16     |
| 7 09:21      | 19 22:50     | 29 13:17     | 6 02:51      | 21 05:38    | 29 20:13     | 8 22:42      | 18 13:04     | 31 04:03     | 8 06:15      | 22 09:44     |              |
| 9 21:58      | 22 11:17     |              | 8 14:29      | 23 06:41    | Sept. -1609j | 10 11:22     | 20 01:39     |              | 10 18:37     | 24 22:25     | Nov. -1606j  |
| 12 09:35     | 24 22:22     | Feb. -1610j  | 11 03:26     | 25 16:35    | 2 08:49      | 13 23:50     | 23 14:17     | Apr. -1607j  | 12 17:00     | 26 09:05     | 1 23:54      |
| 14 18:45     | 27 07:13     | 1 01:52      | 13 15:42     | 5 21:19     | 4 20:21      | 16 11:22     | 26 01:36     | 2 17:00      | 15 05:34     | 29 16:12     | 4 12:02      |
| 17 01:24     | 29 13:48     | 3 12:46      | 16 02:05     | 8 03:37     | 7 06:12      | 18 20:51     | 29 09:53     | 5 05:34      | 17 15:53     | 31 00:58     | 6 21:32      |
| 19 06:06     | 31 18:28     | 5 21:19      | 18 10:16     | 10 08:00    | 9 13:36      | 21 03:08     | 30 14:10     | 7 15:53      | 19 04:17     | 22 08:55     | 9 03:17      |
| 21 09:34     |              | 8 03:37      | 20 16:14     | 12 10:54    | 11 17:55     | 23 05:52     |              | 9 22:23      | 20 08:55     | 24 10:12     | 11 19:38     |
| 23 12:22     | Aug. -1611j  | 10 08:00     | 22 20:03     | 14 12:51    | 13 19:17     | 25 05:55     | Oct. -1608j  | 12 01:00     | 22 10:12     | 26 09:45     | 13 06:06     |
| 25 15:04     | 2 21:41      | 12 10:54     | 24 22:03     | 16 14:49    | 15 18:57     | 27 05:09     | 2 14:59      | 14 00:59     | 24 09:49     | 28 11:43     | 15 06:27     |
| 27 18:29     | 5 00:00      | 14 12:51     | 26 23:05     | 18 18:01    | 17 18:54     | 29 09:38     | 4 14:06      | 16 00:19     | 26 09:45     | 30 16:50     | 17 13:08     |
| 29 23:34     | 7 02:14      | 16 14:49     | 29 00:31     | 20 23:48    | 19 21:18     |              | 6 13:42      | 18 00:57     | 28 11:43     |              | 19 13:08     |
|              | 9 05:29      | 18 18:01     | 31 04:04     | 23 08:59    | 22 03:42     | Apr. -1608j  | 8 15:51      | 20 04:27     | 30 16:50     | Nov. -1607j  | 21 20:45     |
| Feb. -1611j  | 11 10:57     | 25 21:00     | Sept. -1610j | 25 21:00    | 27 02:45     | 2 17:36      | 10 21:44     | 22 11:31     | 24 21:45     | 1 19:38      | 23 07:42     |
| 1 07:15      | 13 19:27     | 28 09:42     | 1 11:08      | 27 13:52    | 29 15:20     | 5 04:51      | 13 07:15     | 24 21:45     | 2 01:18      | 3 20:26      | 25 14:43     |
| 3 17:47      | 16 06:48     |              | 4 21:55      | 29 20:20    | Oct. -1609j  | 7 17:31      | 15 19:08     | 27 09:59     | 4 12:24      | 5 20:19      | 27 23:56     |
| 6 06:08      | 18 19:20     | March -1610j | 7 10:46      |             | 2 02:25      | 9 13:36      | 10 05:53     | 29 22:58</   |              |              |              |

with clock times in UT/GMT. The year -1605 astronomical counting style corresponds to year 1606 B.C.E historical counting style.

|              |              |              |              |              |              |              |              |              |             |
|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|
| Jan. -1605j  | July -1605j  | Jan. -1604j  | Aug. -1604j  | Feb. -1603j  | Aug. -1603j  | March -1602j | Sept. -1602j | March -1601j | Oct. -1601j |
| 2 21:32      | 15 09:39     | 24 21:48     | 3 03:39      | 12 15:35     | 25 01:18     | 2 01:51      | 11 13:43     | 24 02:48     | 1 06:35     |
| 5 02:43      | 17 12:38     | 26 23:22     | 5 06:59      | 14 18:08     | 27 03:16     | 4 09:15      | 13 19:53     | 26 08:19     | 3 14:12     |
| 7 04:21      | 19 12:36     | 28 22:50     | 7 07:33      | 16 18:42     | 29 04:08     | 6 13:18      | 15 23:18     | 28 11:41     | 5 19:25     |
| 9 03:44      | 21 11:36     | 30 22:22     | 9 07:19      | 18 19:04     | 31 05:26     | 8 15:09      | 18 01:22     | 30 14:14     | 7 23:19     |
| 11 02:57     | 23 11:51     |              | 11 08:07     | 20 20:47     |              | 10 16:20     | 20 03:30     |              | 10 02:39    |
| 13 04:18     | 25 15:11     | Feb. -1604j  | 13 11:21     | 22 00:58     | Sept. -1603j | 12 18:21     | 22 06:38     | Apr. -1601j  | 12 05:45    |
| 15 09:26     | 27 22:20     | 1 23:55      | 15 17:36     | 25 07:59     | 2 08:26      | 14 22:11     | 24 11:14     | 1 16:59      | 14 08:53    |
| 17 18:39     | 30 08:42     | 4 04:43      | 18 02:39     | 27 17:38     | 4 13:48      | 17 04:11     | 26 17:25     | 3 20:26      | 16 12:47    |
| 20 06:37     |              | 6 12:55      | 20 13:54     |              | 6 21:39      | 19 12:20     | 29 01:30     | 6 00:52      | 18 18:39    |
| 22 19:23     | Aug. -1605j  | 8 23:43      | 23 02:36     | March -1603j | 9 07:44      | 21 22:28     |              | 8 06:46      | 21 03:33    |
| 25 07:32     | 1 20:51      | 11 12:02     | 25 15:40     | 2 05:17      | 11 19:37     |              | Oct. -1602j  | 10 14:54     | 23 15:28    |
| 27 18:27     | 4 09:32      | 14 00:53     | 28 03:29     | 4 18:05      | 14 08:24     | 26 22:52     | 1 11:48      | 13 01:43     | 26 04:24    |
| 30 03:33     | 6 21:51      | 16 13:11     | 30 12:18     | 7 06:44      | 16 20:33     | 29 10:23     | 4 00:03      | 15 14:24     | 28 15:34    |
|              | 9 08:49      | 18 23:26     |              | 9 17:32      | 19 06:06     | 31 18:51     | 6 12:43      | 18 02:36     | 30 23:14    |
| Feb. -1605j  | 11 17:06     | 21 06:21     | Sept. -1604j | 12 00:59     | 21 11:53     |              | 8 23:15      | 20 11:53     |             |
| 1 10:02      | 13 21:48     | 23 09:32     | 1 17:12      | 14 04:43     | 23 14:03     | Apr. -1602j  | 11 05:59     | 22 17:21     | Nov. -1601j |
| 3 13:26      | 15 23:10     | 25 09:56     | 3 18:39      | 16 05:31     | 25 14:00     | 2 23:27      | 13 08:59     | 24 19:50     | 2 03:38     |
| 5 14:15      | 17 22:39     | 27 09:18     | 5 18:12      | 18 05:01     | 27 13:40     | 5 00:50      | 15 09:44     | 26 21:04     | 4 06:10     |
| 7 14:00      | 19 22:18     | 29 09:39     | 7 17:46      | 20 05:10     | 29 15:00     | 7 00:45      | 17 10:14     | 28 22:42     | 6 08:19     |
| 9 14:46      | 22 00:11     |              | 9 19:14      | 22 07:42     |              | 9 01:13      | 19 12:14     |              | 8 11:05     |
| 11 18:29     | 24 05:44     | March -1604j | 11 23:59     | 24 13:46     | Oct. -1603j  | 11 03:54     | 21 16:39     | May -1601j   | 10 14:55    |
| 14 02:13     | 26 15:08     | 2 12:44      | 14 08:26     | 26 23:20     | 1 19:24      | 13 09:39     | 23 23:31     | 1 01:49      | 12 20:01    |
| 16 13:25     | 29 03:05     | 4 19:31      | 16 19:50     | 29 11:20     | 4 03:16      | 15 18:16     | 26 08:25     | 3 06:45      | 15 02:47    |
| 19 02:05     | 31 15:48     | 7 05:47      | 19 08:43     |              | 6 13:54      | 18 04:57     | 28 19:04     | 5 13:32      | 17 11:52    |
| 21 14:10     |              | 9 18:10      | 21 21:38     | Apr. -1603j  | 9 02:05      | 20 16:57     | 31 07:17     | 7 22:16      | 19 23:29    |
| 24 00:36     | Sept. -1605j | 12 07:01     | 24 09:24     | 1 00:15      | 11 14:51     | 23 05:34     |              | 10 09:10     | 22 12:31    |
| 26 09:06     | 3 03:49      | 14 18:59     | 26 18:58     | 3 12:48      | 14 03:13     | 25 17:37     |              | 12 21:48     | 25 00:31    |
| 28 15:36     | 5 14:22      | 17 05:08     | 29 01:29     | 5 23:54      | 16 13:53     | 28 03:19     | 2 20:12      | 15 10:30     | 27 09:12    |
|              | 7 22:49      | 19 12:44     |              | 8 08:30      | 18 21:23     | 30 09:15     | 5 07:52      | 17 20:48     | 29 13:55    |
| March -1605j | 10 04:40     | 21 17:24     | Oct. -1604j  | 10 13:50     | 21 01:03     |              | 7 16:05      | 20 03:07     |             |
| 2 19:57      | 12 07:46     | 23 19:27     | 1 04:46      | 12 15:57     | 23 01:31     | May -1602j   | 9 19:59      | 22 05:42     | Dec. -1601j |
| 4 22:20      | 14 08:48     | 25 19:54     | 3 05:28      | 14 15:52     | 25 00:30     | 2 11:21      | 11 20:33     | 24 06:06     | 1 15:42     |
| 6 23:33      | 16 09:12     | 27 20:20     | 5 05:05      | 16 15:22     | 27 00:12     | 4 10:59      | 13 19:49     | 26 06:18     | 3 16:19     |
| 9 01:02      | 18 10:43     | 29 22:28     | 7 05:29      | 18 16:29     | 29 02:45     | 6 10:16      | 15 19:59     | 28 07:59     | 5 17:28     |
| 11 04:27     | 20 15:01     |              | 9 08:31      | 20 20:59     | 31 09:21     | 8 11:21      | 17 22:49     | 30 12:13     | 7 20:21     |
| 13 11:07     | 22 23:01     | Apr. -1604j  | 11 15:29     | 23 05:34     | Oct. -1603j  | 10 15:46     | 20 04:59     |              | 10 01:33    |
| 15 21:16     | 25 10:16     | 1 03:48      | 14 02:14     | 25 17:22     | Nov. -1603j  | 12 23:53     | 22 14:10     | June -1601j  | 12 09:08    |
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| 20 21:46     | 30 10:52     | 6 00:53      | 19 03:58     | 30 18:44     | 5 08:08      | 17 22:59     | 27 13:42     | 4 04:27      | 17 06:44    |
| 23 08:02     |              | 8 13:44      | 21 15:15     |              | 7 20:55      | 20 11:35     | 30 02:34     | 6 15:44      | 19 19:43    |
| 25 15:49     | Oct. -1605j  | 11 01:27     | 24 00:28     | May -1603j   | 10 09:03     | 22 23:39     |              | 9 04:25      | 22 08:17    |
| 27 21:24     | 2 20:49      | 13 10:59     | 26 07:31     | 3 05:33      | 12 19:52     | 25 10:04     |              | 11 17:20     | 24 18:19    |
| 30 01:20     | 5 04:29      | 15 18:12     | 28 12:17     | 5 14:22      | 15 04:30     | 27 17:26     | 2 14:44      | 14 04:32     | 27 00:27    |
|              | 7 10:04      | 17 23:16     | 30 14:51     | 7 20:47      | 17 10:01     | 29 21:03     | 5 00:21      | 16 12:15     | 29 02:53    |
| Apr. -1605j  | 9 13:56      | 20 02:33     | Nov. -1604j  | 10 00:29     | 19 12:11     | 31 21:35     | 7 06:03      | 18 15:56     | 31 02:58    |
| 1 04:13      | 11 16:31     | 22 04:32     | 1 15:50      | 12 01:48     | 21 12:01     |              | 9 07:53      | 20 16:36     |             |
| 3 06:40      | 13 18:31     | 24 06:05     | 3 16:34      | 14 01:53     | 23 11:23     | June -1602j  | 11 07:19     | 22 16:04     |             |
| 5 09:28      | 15 20:57     | 26 08:27     | 5 18:49      | 16 02:34     | 25 12:33     | 2 20:47      | 13 06:30     | 24 16:18     |             |
| 7 13:38      | 18 01:07     | 28 13:06     | 7 20:19      | 18 05:51     | 27 17:22     | 4 20:50      | 15 07:31     | 26 18:58     |             |
| 9 20:12      | 20 08:10     | 30 21:08     | 9 00:19      | 20 13:07     | 30 02:26     | 6 23:42      | 17 11:55     | 29 00:56     |             |
| 12 05:42     | 22 18:28     |              | 10 09:52     | 23 00:09     |              | 9 06:29      | 19 20:06     |              |             |
| 14 17:34     | 25 06:54     | May -1604j   | 12 22:22     | 25 13:01     | Dec. -1603j  | 11 16:47     | 22 07:13     | July -1601j  |             |
| 17 05:56     | 27 19:08     | 3 08:26      | 15 11:15     | 28 01:17     | 2 14:32      | 14 05:02     | 24 19:49     | 1 10:08      |             |
| 19 16:35     | 30 05:02     | 5 21:14      | 17 22:16     | 30 11:39     | 5 03:23      | 16 17:36     | 27 08:35     | 3 21:43      |             |
| 22 00:13     |              | 8 08:59      | 20 06:42     |              | 7 15:15      | 19 05:24     | 29 20:31     | 6 10:32      |             |
| 24 04:54     | Nov. -1605j  | 10 18:05     | 22 12:59     | June -1603j  | 10 01:31     | 21 15:42     |              | 8 23:21      |             |
| 26 07:39     | 1 11:53      | 13 00:25     | 24 17:47     | 1 19:54      | 12 10:01     | 23 23:42     | Jan. -1601j  | 11 10:52     |             |
| 28 09:42     | 3 16:17      | 15 04:46     | 26 21:25     | 4 02:18      | 14 16:22     | 26 04:45     | 1 06:33      | 13 19:41     |             |
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|              | 7 22:06      | 19 10:55     |              | 8 09:36      | 18 21:48     | 30 07:08     | 5 17:21      | 18 03:01     |             |
| May -1605j   | 10 01:13     | 21 13:46     | Dec. -1604j  | 10 11:02     | 20 22:16     |              | 7 18:17      | 20 02:57     |             |
| 2 15:48      | 12 05:05     | 23 17:12     | 1 02:14      | 12 12:26     | 22 23:27     | July -1602j  | 9 17:58      | 22 02:36     |             |
| 4 21:03      | 14 10:13     | 25 22:10     | 3 05:03      | 14 15:30     | 25 03:13     | 2 07:18      | 11 18:18     | 24 03:50     |             |
| 7 04:18      | 16 17:20     | 28 05:47     | 5 10:07      | 16 21:50     | 27 10:50     | 4 09:20      | 13 21:07     | 26 08:13     |             |
| 9 13:48      | 19 03:04     | 30 16:29     | 7 18:37      | 19 07:55     | 29 21:58     | 6 14:43      | 16 03:38     | 28 16:27     |             |
| 12 01:25     | 21 15:10     |              | 10 06:25     | 21 20:26     |              | 8 23:53      | 18 13:50     | 31 03:50     |             |
| 14 13:59     | 24 03:48     | June -1604j  | 12 19:22     | 24 08:48     | Jan. -1602j  | 11 11:45     | 21 02:19     |              |             |
| 17 01:21     | 26 14:24     | 2 05:11      | 15 06:39     | 26 18:59     | 1 10:40      | 14 00:18     | 23 15:05     | Aug. -1601j  |             |
| 19 09:37     | 28 21:21     | 4 17:18      | 17 14:48     | 29 02:34     | 3 22:34      | 16 11:51     | 26 02:36     | 2 16:43      |             |
| 21 14:13     |              | 7 02:33      | 19 20:04     |              | 6 08:23      | 18 21:33     | 28 12:07     | 5 05:21      |             |
| 23 16:00     | Dec. -1605j  | 9 08:21      | 21 23:41     | July -1603j  | 8 16:00      | 21 05:09     | 30 19:19     | 7 16:31      |             |
| 25 16:40     | 1 00:54      | 11 11:36     | 24 02:45     | 1 08:04      | 10 21:45     | 23 10:34     |              | 10 01:32     |             |
| 27 17:57     | 3 02:30      | 13 13:50     | 26 05:50     | 3 12:12      | 13 01:55     | 25 13:56     | Feb. -1601j  | 12 07:57     |             |
| 29 21:10     | 5 03:56      | 15 16:16     | 28 09:14     | 5 15:26      | 15 04:45     | 27 15:45     | 2 00:07      | 14 11:38     |             |
|              | 7 06:33      | 17 19:35     | 30 13:23     | 7 18:03      | 17 06:50     | 29 17:06     | 4 02:47      | 16 13:05     |             |
| June -1605j  | 9 10:58      | 20 00:02     |              | 9 20:44      | 19 09:12     | 31 19:25     | 6 04:02      | 18 13:25     |             |
| 1 02:52      | 11 17:11     | 22 05:56     | Jan. -1603j  | 12 00:34     | 21 13:15     |              | 8 05:06      | 20 14:15     |             |
| 3 10:54      | 14 01:09     | 24 13:52     | 1 19:07      | 14 06:50     | 23 20:10     | Aug. -1602j  | 10 07:32     | 22 17:23     |             |
| 5 20:54      | 16 11:03     | 27 00:23     | 4 03:28      | 16 16:19     | 26 06:21     | 3 00:09      | 12 12:49     | 25 00:11     |             |
| 8 08:34      | 18 22:56     | 29 12:59     | 6 14:44      | 19 04:24     | 28 18:40     | 5 08:14      | 14 21:44     | 27 10:47     |             |
| 10 21:13     | 21 11:49     |              | 9 03:37      | 21 16:58     | 31 06:49     | 7 19:24      | 17 09:38     | 29 23:34     |             |
| 13 09:20     | 23 23:25     | July -1604j  | 11 15:32     | 24 03:33     |              | 10 07:55     | 19 22:26     |              |             |
| 15 18:49     | 26 07:29     | 2 01:38      | 14 00:15     | 26 10:59     | Feb. -1602j  | 12 19:33     | 22 09:50     | Sept. -1601j |             |
| 18 18:08     | 28 11:23     | 4 11:42      | 16 05:21     | 28 15:38     | 2 16:47      | 15 04:49     | 24 18:41     | 1 12:08      |             |
| 20 02:08     | 30 12:17     | 6 17:49      | 18 07:53     | 30 18:33     | 4 23:51      | 17 11:29     | 27 01:02     | 3 22:49      |             |
| 22 01:53     |              | 8 20:33      | 20 09:28     |              | 7 04:27      | 19 16:06     |              | 6 07:09      |             |
| 24 01:40     | Jan. -1604j  | 10 21:33     | 22 11:26     | Aug. -1603j  | 9 07:34      | 21 19:25     | March -1601j | 8 13:26      |             |
| 26 03:26     | 1 12:12      | 12 22:36     | 24 14:38     | 1 20:55      | 11 10:08     | 23 22:08     | 1 05:31      | 10 17:57     |             |
| 28 08:22     | 3 13:08      | 15 01:03     | 26 19:31     | 3 23:32      | 13 12:56     | 26 00:53     | 3 08:49      | 12 20:58     |             |
| 30 16:30     | 5 16:30      | 17 05:32     | 29 02:17     | 6 03:03      | 15 16:35     | 28 04:22     | 5 11:26      | 14 22:51     |             |
|              | 7 22:41      | 19 12:07     | 31 11:15     | 8 07:59      | 17 21:44     | 30 09:30     | 7 13:56      | 17 00:32     |             |
| July -1605j  | 10 07:19     | 21 20:47     |              | 10 14:59     | 20 05:01     |              | 9 17:11      | 19 03:29     |             |
| 2 02:59      | 12 17:49     | 24 07:34     | Feb. -1603j  | 13 00:29     | 22 14:50     | Sept. -1602j | 11 22:20     | 21 09:18     |             |
| 5 14:55      | 15 05:50     | 26 20:10     | 2 22:30      | 15 12:19     | 25 02:46     | 1 17:09      | 14 06:27     | 23 18:51     |             |
| 8 03:35      | 17 18:44     | 29 09:11     | 5 11:17      | 18 18:04     | 27 15:12     | 4 03:40      | 16 17:39     | 26 07:15     |             |
| 10 16:03     | 20 06:59     | 31 20:18     | 7 23:44      | 20 12:28     |              | 6 16:05      | 19 06:24     | 28 19:59     |             |
| 13 02:37     | 22 16:27     |              | 10 09:34     | 22 20:40     |              | 9 04:10      | 21 18:06     |              |             |