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АСТРОНОМИЧЕСКИЙ КАЛЕНДАРЬ

2030

выпуск двадцать шестой
(рабочая версия)

«AstroKA»
2023

Основан в 2004 году «АстроКА»
Выходит в серии «Астробиблиотека» вместе с Календарем наблюдателя и журналом «Небосвод»

АСТРОНОМИЧЕСКИЙ КАЛЕНДАРЬ НА 2030 ГОД

СПРАВОЧНОЕ ИЗДАНИЕ
Серия «Астробиблиотека»

Астрономический календарь на 2030 год, составитель Козловский А.Н.,
«АстроКА», 2023 год, 88 стр.

Ежегодник (эта версия адаптирована для печати и для просмотра на экране монитора),
составленный с использованием программ Guide 8.0 <http://www.projectpluto.com>,
<http://www.calsky.com/>, Starry Night Backyard 3.1, Occult v4.0, описывающий **избранные**
астрономические явления, которые должны произойти в 2030 году. Календарь содержит
эфемериды Солнца, Луны, больших планет, комет и астероидов, доступных для наблюдений
любительскими средствами (биноклями и небольшими телескопами). Кроме этого, даны карты-
схемы солнечных и лунных затмений, приведены сведения о покрытиях звезд и планет Луной,
метеорных потоках и т.п. О явлениях других лет расскажет Астрономический календарь -
справочник от 1901 до 2100 года <http://www.astronet.ru/db/msg/1374768>. Целью данного
календаря является охват многих явлений года, представленных, по большей части, в виде
таблиц, для последующего определения подробных обстоятельств явлений при помощи
программ-планетариев. Но, при желании, можно ограничиться только данным календарем, для
уточнения дат тех или иных явлений. Более подробное освещение явлений будет ежемесячно и
еженедельно даваться в Календаре наблюдателя и Астрономической неделе на Астронет
<http://astronet.ru>. Следите за обновлениями!

Для наблюдателей, членов астрономических кружков, любителей астрономии,
студентов, преподавателей школ и ВУзов.

Уважаемые любители астрономии!

Надеюсь, что АК-2030 послужит Вам надежным спутником при астрономических наблюдениях. В серии
«Астробиблиотека» вышли книги: «Астрономический календарь на 2005 (2006 - 2029) годы», «Астрономический
календарь - справочник от 1901 до 2100 года», «Солнечное затмение 29 марта 2006 года (1 августа 2008 года) и его
наблюдение», «Кометы и методы их наблюдений», «Астрономические хроники: год 2004 (2005 - 2007)»,
«Противостояния Марса». Скачать их можно на <http://astronet.ru>. Автором выпускаются также периодические издания:
журнал «Небосвод» и «Календарь наблюдателя» (выкладка ежемесячно на <http://astronet.ru>).
Искренне Ваш. Козловский А.Н.

Набрано и сверстано в 2023 году
MSOffice-2003

Набор, верстка, редакция и печать: Козловский А.Н.
Корректор: Козловский А.А.
Редактор: Демин Николай
Обложка: Кушнир Николай

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2030 год

Начало сезонов года

(по данным Fred Espenak - время всемирное)

Весна - 20 марта, 13 ч 51 м Лето - 21 июня, 07 ч 31 м
Осень - 22 сентября, 23 ч 27 м Зима - 21 декабря, 20 ч 09 м

Земля в перигелии - 3 января 10 ч 12 м - 0.9833418 а.е.

Земля в афелии - 4 июля 12 ч 58 м - 1.0167227 а.е.

ТАБЕЛЬ-КАЛЕНДАРЬ

| январь | | | | | | | февраль | | | | | | | март | | | | | | |
|---------|----|----|----|----|----|----|---------|------|------|------|------|----|----|----------|------|------|------|----|----|----|
| пн | вт | ср | чт | пт | сб | вс | пн | вт | ср | чт | пт | сб | вс | пн | вт | ср | чт | пт | сб | вс |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 8 | 9 | 10 | 11 | 12 | 13 | 14 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 15 | 16 | 17 | 18 | 19 | 20 | 21 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| 22 | 23 | 24 | 25 | 26 | 27 | 28 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 29 | 30 | 31 | | | | | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 25 | 26 | 27 | 28 | 29 | 30 | 31 |
| | | | | | | | 4:● | 11:● | 19:○ | 26:● | | | | 2:● | 10:● | 18:○ | 25:● | | | |
| апрель | | | | | | | май | | | | | | | июнь | | | | | | |
| пн | вт | ср | чт | пт | сб | вс | пн | вт | ср | чт | пт | сб | вс | пн | вт | ср | чт | пт | сб | вс |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 8 | 9 | 10 | 11 | 12 | 13 | 14 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 15 | 16 | 17 | 18 | 19 | 20 | 21 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | | | | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 |
| | | | | | | | 3:● | 11:● | 18:○ | 24:● | | | | 2:● | 10:● | 17:○ | 24:● | | | |
| июль | | | | | | | август | | | | | | | сентябрь | | | | | | |
| пн | вт | ср | чт | пт | сб | вс | пн | вт | ср | чт | пт | сб | вс | пн | вт | ср | чт | пт | сб | вс |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 8 | 9 | 10 | 11 | 12 | 13 | 14 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 15 | 16 | 17 | 18 | 19 | 20 | 21 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | | | | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| | | | | | | | 1:● | 8:● | 15:○ | 22:● | 30:● | | | 6:● | 13:○ | 21:● | 29:● | | | |
| октябрь | | | | | | | ноябрь | | | | | | | декабрь | | | | | | |
| пн | вт | ср | чт | пт | сб | вс | пн | вт | ср | чт | пт | сб | вс | пн | вт | ср | чт | пт | сб | вс |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 8 | 9 | 10 | 11 | 12 | 13 | 14 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 15 | 16 | 17 | 18 | 19 | 20 | 21 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | | | | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| | | | | | | | 4:● | 11:○ | 19:○ | 26:● | | | | 2:● | 10:○ | 18:○ | 25:● | | | |

Список созвездий

| Созвездие | Сокращение | Созвездие | Сокращение |
|----------------------------------|------------|--|------------|
| Andromeda, Андромеда | And | Lacerta, Ящерица | Lac |
| Antlia, Насос | Ant | Leo, Лев | Leo |
| Aquarius, Водолей | Aqr | Leo Minor, Малый Лев | LMi |
| Apus, Райская Птица | Aps | Lepus, Заяц | Lep |
| Aquila, Орёл | Aql | Libra, Весы | Lib |
| Ara, Жертвенник | Ara | Lupus, Волк | Lup |
| Aries, Овен | Ari | Lynx, Рысь | Lyn |
| Auriga, Возничий | Aur | Lyra, Лира | Lyr |
| Bootes, Волопас | Boo | Mensa, Столовая Гора | Men |
| Camelopardalis, Жираф | Cam | Microscopum, Микроскоп | Mic |
| Caelum, Резец | Cae | Monoceros, Единорог | Mon |
| Cancer, Рак | Cnc | Musca, Муха | Mus |
| Canes Venatici, Гончие Псы | CVn | Norma, Наугольник | Nor |
| Canis Major, Большой Пес | CMa | Octant, Октант | Oct |
| Canis Minor, Малый Пес | CMi | Ophiuchus, Змееносец | Oph |
| Capricornus, Козерог | Cap | Orion, Орион | Ori |
| Carina, Киль | Car | Pavo, Павлин | Pav |
| Cassiopeia, Кассиопея | Cas | Pegasus, Пегас | Peg |
| Centaurus, Центавр | Cen | Perseus, Персей | Per |
| Cepheus, Цефей | Cep | Phoenix, Феникс | Phe |
| Cetus, Кит | Cet | Pictor, Живописец | Pic |
| Chameleon, Хамелеон | Cha | Pisces, Рыбы | Psc |
| Circinus, Циркуль | Cir | Piscis Austrinus, Южная Рыба | PsA |
| Columba, Голубь | Col | Puppis, Корма | Pup |
| Coma Berenices, Волосы Вероники | Com | Roxix, Компас | Rox |
| Corona Borealis, Северная Корона | CrB | Reticulum, Сетка | Ret |
| Corona Australis, Южная Корона | CrA | Sagitta, Стрела | Sge |
| Corvus, Ворон | CrV | Sagittarius, Стрелец | Sgr |
| Crater, Чаша | Crt | Scorpius, Скорпион | Sco |
| Crux, Южный Крест | Cru | Sculptor, Скульптор | Scl |
| Cygnis, Лебедь | Cyg | Scutum, Щит | Sct |
| Delphinus, Дельфин | Del | Serpens, Змея | Ser |
| Dorado, Золотая Рыба | Dor | Sextans, Секстант | Sex |
| Draco, Дракон | Dra | Taurus, Телец | Tau |
| Equuleus, Малый Конь | Equ | Telescopum, Телескоп | Tel |
| Eridanus, Эридан | Eri | Triangulum, Треугольник | Tri |
| Fornax, Печь | For | Triangulum Australe, Южный Треугольник | TrA |
| Gemini, Близнецы | Gem | Tucana, Тукан | Tuc |
| Gruus, Журавль | Gru | Ursa Major, Большая Медведица | UMa |
| Hercules, Геркулес | Her | Ursa Minor, Малая Медведица | UMi |
| Horologium, Часы | Hor | Vela, Паруса | Vel |
| Hydra, Гидра | Hyd | Virgo, Дева | Vir |
| Hydrus, Южная Гидра | Hyi | Volan, Летучая Рыба | Vol |
| Indus, Индеец | Ind | Vulpecula, Лисичка | Vul |

О счете времени

В настоящем выпуске Астрономического Календаря моменты явлений, за исключением особо оговариваемых случаев, даются по **всемирному времени**. Переход от одной системы счета времени к другой выполняется по формулам $UT=Tm - \lambda$, $Tp = UT+n(\chi)=Tm+n(\chi) - \lambda$. В этих формулах UT – всемирное время; Tm – местное среднее солнечное время; Tp – поясное время; $n(\chi)$ – номер часового пояса (на территории России к номеру часового пояса прибавляется еще 1 час декретного времени); λ – географическая долгота в единицах времени, считаемая положительной к востоку от Гринвича.

Поясное время второго часового пояса, в котором расположена Москва, называется московским временем и обозначается Tm . Поясное время других пунктов на территории РФ получается прибавлением к московскому времени целого числа часов ΔT , которое равно разности номеров часового пояса данного пункта и часового пояса Москвы: $T=Tm + \Delta T$.

В весенне-летний период на территории России до 2011 года вводилось летнее время, т. е. все часы переводились на один час вперед. Перевод осуществлялся в два часа ночи последнего воскресенья марта.

В начале осенне-зимнего периода, в три часа ночи последнего воскресенья октября, часы снова переводились на один час назад: вводилось зимнее время. Таким образом, в весенне-летний период времени было $Tm=UT+4^h$ и $T=Tm-\lambda+4^h + \Delta T$, в осенне-зимний период $Tm=UT+3^h$ и $T=Tm-\lambda+3^h + \Delta T$.

В 2011 году стрелки часов перевелись в марте на летнее время, и это время было оставлено основным, т.е. переход на зимнее время не осуществлялся. Поэтому разница по времени с Гринвичем стала постоянной в течение всего года и составляла для Москвы 4 часа.

Но в 2014 году 26 октября постановлением Правительства РФ стрелки часов вновь перевелись на 1 час назад. Тем самым, страна вернулась к зимнему времени, а разница с Гринвичем сократилась для Москвы до 3 часов. Таким образом, поправка по времени стала вновь вычисляться по формулам $Tm=UT+3^h$ и $T=Tm-\lambda+3^h + \Delta T$.

Моменты восходов и заходов светил в данном календаре даны для пункта с координатами **0 градусов долготы и 56 градусов северной широты** (для удобства пересчета моментов восходов и заходов светил для любых других населенных пунктов). Зная по данному АК моменты восходов и заходов светил и наступления других явлений, вы можете вычислить или уточнить время события в вашем пункте при помощи программ-планетариев или из непосредственных наблюдений.

В АК_2030 счет времени ведется по Григорианскому календарю.

Краткий обзор явлений 2030 года

2030 год будет **интересным** в отношении затмений, покрытий Луной планет, а также комет. Главными астрономическими событиями 2030 года будут **кольцеобразные и полные солнечные затмения, а также частное и полутеневое лунные затмения**, видимые на территории нашей страны. Лунные затмения приходятся на июньское и декабрьское полнолуние, а солнечные будут наблюдаться в июньское и ноябрьское новолуние.

Первое затмение 2030 года будет кольцеобразным солнечным и произойдет при новолунии 1 июня, а фазы этого затмения будут наблюдаться на территории России и СНГ. Это одно из самых интересных солнечных затмений для нашей страны в ближайшие десятилетия, тем более, что полоса кольцеобразной фазы пройдет от Черного моря до Приморского края, а максимальная фаза затмения составит 0,944. В центре полосы затмения солнечное кольцо будет наблюдаваться в течение 5 минут 20 секунд. Кроме нашей страны затмение увидят в Западной Европе, Африке, Азии и Северной Америке. Солнце и Луна во время затмения будут находиться в созвездии Тельца.

Второе затмение 2030 года будет частным лунным. Оно произойдет при полнолунии 15 июня, а его видимость распространится на территорию Африки, Европы, Азии, Австралии и Антарктиды. Максимальная фаза затмения составит 0,508, а Луна пройдет через северную часть тени Земли. Интересно, что Луна войдет в тень Земли почти ровно наполовину. В России и СНГ затмение будет видимо полностью лишь в Казахстане и на юге Сибири. На остальной территории страны будут наблюдаваться некоторые фазы после восхода и до захода Луны. Частная фаза затмения продлится около двух с половиной часов. Луна во время затмения будет находиться в созвездии Змееносца.

Третье затмение года будет полным солнечным и произойдет в новолуние 25 ноября. Наблюдавшись это затмение будет в разных фазах на территории Антарктиды, Африки, Австралии и прилегающих к ней островах. Максимальная фаза затмения составит 1,047. Максимально закрытое Солнце увидят жители юга Африки и Австралии. Максимальная продолжительность полной фазы затмения 3 минуты 44 секунды в центральной части Индийского океана. В нашей стране затмение наблюдаваться не будет. Солнце и Луна во время затмения будут находиться в созвездии Скорпиона.

Четвертое затмение 2030 года будет полутеневым лунным. Оно произойдет при полнолунии 9 декабря, а его видимость распространится, практически, на всю территорию нашей страны. Максимальная полутеневая фаза затмения составит 0,968, а Луна пройдет через северную часть полутиени Земли (достаточно близко к краю земной тени). Все фазы затмения будут наблюдаваться на большей части нашей страны, в Африке, и северной части Северной Америки. Полутеневая фаза затмения продлится около пяти часов. Луна во время максимальной фазы затмения будет находиться в созвездии Девы.

Информация об этих затмениях будет постепенно публиковаться на Астронете <http://www.astronet.ru> и Астрофоруме <http://astronomy.ru/forum/> в теме Астрономические наблюдения. Статьи о солнечных и лунных затмениях ранних лет имеются в журнале Небосвод на <http://www.astronet.ru>.

Видимость планет в 2030 году достаточно благоприятна. Меркурий в течение года достигнет 3 утренних (январь, май, сентябрь) и 3 вечерних (апрель, август, ноябрь) элонгаций, не отходя от Солнца более чем на 28 градусов. Лучшая вечерняя элонгация быстрой планеты для нашей страны будет в апреле, а лучшая утренняя - в сентябре.

Для **Венеры** в 2030 году благоприятным временем для наблюдений будет первая половина года (18 марта - максимальная утренняя элонгация 47 градусов). Для **Марса** благоприятное время для наблюдений - это вторая половина года. 25 мая планета вступит в соединение с Солнцем. Наилучшая видимость **Юпитера** (созвездия Весов, Скорпиона и Змееносца) относится к первой половине года (противостояние с Солнцем 13 мая). **Сатурн** (созвездия Овна и Тельца) также лучше всего виден близ противостояния 27 ноября. **Уран** (созвездие Тельца) и **Нептун** (созвездие Рыб и Кита) вступают в противостояние с Солнцем, соответственно, 12 декабря и 5 октября.

Из соединений планет друг с другом в 2030 году самым близким будет соединение Меркурия и Урана до 5 угловых минут 18 июня, но близко к Солнцу. Из других соединений (менее полградуса и достаточной для наблюдений элонгации) будут иметь место 3 явления (12 мая - Венера и Нептун, 8 июня - Меркурий и Сатурн и 24 июня - Венера и Сатурн). Соединения других планет можно найти в календаре событий АК_2030.

Среди покрытий Луной больших планет Солнечной системы в 2030 году: Меркурий покроется 2 раза (4 апреля и 29 августа), Венера - 1 раз (25 ноября), Марс - 1 раз (1 июня) и Юпитер 2 раза (25 ноября и 23 декабря). Уран покроется 9 раз (покрытия будут происходить ежемесячно с января по август, а в июне планета покроется два раза). Сатурн и Нептун в этом году не покроются Луной ни разу.

Из покрытий Луной ярких звезд покрытие звезды Антарес произойдет в следующий раз только 13 марта 2042 года. Покрытия звезды Альдебаран (альфа Тельца) придется ждать до 18 августа 2033 года, покрытия звезды Регул (альфа Льва) - до 11 июня 2035 года, а покрытия звезды Спика (альфа Девы) придется ждать до 12 февраля 2031 года.

Среди астероидов Веста станет самой яркой в этом году. Ее блеск в период противостояния 25 ноября достигнет 6,5т (созвездие Тельца). Веста будет доступна для наблюдений невооруженным глазом. 8 ноября (противостояние) блеска 7,2т достигнет Церера (созвездие Кита). Сведения об этих других ярких астероидах публикуются ежемесячно в Календаре наблюдателя на <http://www.astronet.ru/>.

Среди комет доступными для средних телескопов будут небесные странницы: P/Wirtanen (46P) и P/Hartley 2 (103P), ожидаемый блеск которых составит около 12т и ярче. Следует отметить, что **приведенный список может значительно меняться**, ввиду открытия новых комет и увеличения блеска ожидаемых, а также потерь известных комет.

Из метеорных потоков лучшими для наблюдений будут Кеадрантиды, эта-Аквариды и Ориониды.

Оперативные сведения об астрономических явлениях и многочисленные ссылки на интересные астроресурсы можно всегда найти на Астронете <http://www.astronet.ru> в Календаре наблюдателя и Астрономической неделе.

Ясного неба и успешных наблюдений в 2030 году!

СОЛНЦЕ 2030 ($\phi=56^\circ$, $\lambda=0^\circ$)
АПРЕЛЬ

| д | α (2000.0) | δ (2000.0) | созв | диам | восход | ВК | Вс | заход |
|----|-------------------|-------------------|------|-------|--------|--------|----|--------|
| 1 | 0h40m03.04s | N 4 18' 27.4" | Psc | 32.01 | 5h30m | 12h04m | 39 | 18h39m |
| 2 | 0h43m41.80s | N 4 41' 37.5" | Psc | 32.00 | 5h28m | 12h03m | 39 | 18h41m |
| 3 | 0h47m20.68s | N 5 04' 42.5" | Psc | 31.99 | 5h25m | 12h03m | 40 | 18h43m |
| 4 | 0h50m59.70s | N 5 27' 42.0" | Psc | 31.99 | 5h22m | 12h03m | 40 | 18h45m |
| 5 | 0h54m38.87s | N 5 50' 35.8" | Psc | 31.98 | 5h20m | 12h03m | 40 | 18h47m |
| 6 | 0h58m18.20s | N 6 13' 23.4" | Psc | 31.97 | 5h17m | 12h02m | 41 | 18h49m |
| 7 | 1h01m57.71s | N 6 36' 04.4" | Psc | 31.96 | 5h15m | 12h02m | 41 | 18h51m |
| 8 | 1h05m37.43s | N 6 58' 38.7" | Psc | 31.95 | 5h12m | 12h02m | 41 | 18h53m |
| 9 | 1h09m17.35s | N 7 21' 05.7" | Psc | 31.94 | 5h09m | 12h01m | 42 | 18h55m |
| 10 | 1h12m57.51s | N 7 43' 25.1" | Psc | 31.93 | 5h07m | 12h01m | 42 | 18h57m |
| 11 | 1h16m37.91s | N 8 05' 36.7" | Psc | 31.92 | 5h04m | 12h01m | 43 | 18h59m |
| 12 | 1h20m18.57s | N 8 27' 40.0" | Psc | 31.91 | 5h02m | 12h01m | 43 | 19h01m |
| 13 | 1h23m59.51s | N 8 49' 34.7" | Psc | 31.91 | 4h59m | 12h00m | 43 | 19h03m |
| 14 | 1h27m40.74s | N 9 11' 20.6" | Psc | 31.90 | 4h57m | 12h00m | 44 | 19h05m |
| 15 | 1h31m22.29s | N 9 32' 57.2" | Psc | 31.89 | 4h54m | 12h00m | 44 | 19h07m |
| 16 | 1h35m04.16s | N 9 54' 24.2" | Psc | 31.88 | 4h52m | 12h00m | 44 | 19h09m |
| 17 | 1h38m46.38s | N10 15' 41.5" | Psc | 31.87 | 4h49m | 11h59m | 45 | 19h11m |
| 18 | 1h42m28.97s | N10 36' 48.5" | Psc | 31.86 | 4h47m | 11h59m | 45 | 19h13m |
| 19 | 1h46m11.95s | N10 57' 45.1" | Ari | 31.85 | 4h44m | 11h59m | 45 | 19h15m |
| 20 | 1h49m55.33s | N11 18' 30.8" | Ari | 31.84 | 4h42m | 11h59m | 46 | 19h17m |
| 21 | 1h53m39.13s | N11 39' 05.5" | Ari | 31.83 | 4h39m | 11h59m | 46 | 19h19m |
| 22 | 1h57m23.37s | N11 59' 28.7" | Ari | 31.82 | 4h37m | 11h58m | 46 | 19h21m |
| 23 | 2h01m08.08s | N12 19' 40.2" | Ari | 31.82 | 4h34m | 11h58m | 47 | 19h24m |
| 24 | 2h04m53.25s | N12 39' 39.6" | Ari | 31.81 | 4h32m | 11h58m | 47 | 19h26m |
| 25 | 2h08m38.91s | N12 59' 26.6" | Ari | 31.80 | 4h30m | 11h58m | 47 | 19h28m |
| 26 | 2h12m25.07s | N13 19' 00.9" | Ari | 31.79 | 4h27m | 11h58m | 48 | 19h30m |
| 27 | 2h16m11.73s | N13 38' 22.1" | Ari | 31.78 | 4h25m | 11h58m | 48 | 19h32m |
| 28 | 2h19m58.91s | N13 57' 29.9" | Ari | 31.77 | 4h23m | 11h57m | 48 | 19h34m |
| 29 | 2h23m46.61s | N14 16' 23.9" | Ari | 31.77 | 4h20m | 11h57m | 49 | 19h36m |
| 30 | 2h27m34.84s | N14 35' 03.8" | Ari | 31.76 | 4h18m | 11h57m | 49 | 19h38m |

СОЛНЦЕ 2030 ($\phi=56^\circ$, $\lambda=0^\circ$)
ЯНВАРЬ

| д | α (2000.0) | δ (2000.0) | созв | диам | восход | ВК | Вс | заход |
|----|-------------------|-------------------|------|-------|--------|--------|----|--------|
| 1 | 18h44m18.79s | S23 02' 46.5" | Sgr | 32.53 | 8h31m | 12h04m | 11 | 15h36m |
| 2 | 18h48m43.75s | S22 57' 52.2" | Sgr | 32.53 | 8h31m | 12h04m | 11 | 15h38m |
| 3 | 18h53m08.40s | S22 52' 30.3" | Sgr | 32.53 | 8h30m | 12h05m | 11 | 15h39m |
| 4 | 18h57m32.69s | S22 46' 41.1" | Sgr | 32.53 | 8h30m | 12h05m | 11 | 15h40m |
| 5 | 19h01m56.59s | S22 40' 24.7" | Sgr | 32.53 | 8h29m | 12h06m | 12 | 15h42m |
| 6 | 19h06m20.06s | S22 33' 41.4" | Sgr | 32.53 | 8h29m | 12h06m | 12 | 15h43m |
| 7 | 19h10m43.08s | S22 26' 31.4" | Sgr | 32.53 | 8h28m | 12h06m | 12 | 15h45m |
| 8 | 19h15m05.61s | S22 18' 54.9" | Sgr | 32.53 | 8h28m | 12h07m | 12 | 15h46m |
| 9 | 19h19m27.62s | S22 10' 52.0" | Sgr | 32.53 | 8h27m | 12h07m | 12 | 15h48m |
| 10 | 19h23m49.09s | S22 02' 23.2" | Sgr | 32.53 | 8h26m | 12h08m | 12 | 15h50m |
| 11 | 19h28m09.99s | S21 53' 28.5" | Sgr | 32.53 | 8h25m | 12h08m | 12 | 15h51m |
| 12 | 19h32m30.29s | S21 44' 08.4" | Sgr | 32.53 | 8h24m | 12h08m | 13 | 15h53m |
| 13 | 19h36m49.98s | S21 34' 23.0" | Sgr | 32.52 | 8h23m | 12h09m | 13 | 15h55m |
| 14 | 19h41m09.03s | S21 24' 12.6" | Sgr | 32.52 | 8h22m | 12h09m | 13 | 15h57m |
| 15 | 19h45m27.42s | S21 13' 37.6" | Sgr | 32.52 | 8h21m | 12h09m | 13 | 15h59m |
| 16 | 19h49m45.14s | S21 02' 38.1" | Sgr | 32.52 | 8h20m | 12h10m | 13 | 16h00m |
| 17 | 19h54m02.17s | S20 51' 14.6" | Sgr | 32.52 | 8h19m | 12h10m | 13 | 16h02m |
| 18 | 19h58m18.49s | S20 39' 27.3" | Sgr | 32.51 | 8h17m | 12h10m | 14 | 16h04m |
| 19 | 20h02m34.10s | S20 27' 16.5" | Sgr | 32.51 | 8h16m | 12h11m | 14 | 16h06m |
| 20 | 20h06m48.98s | S20 14' 42.5" | Cap | 32.51 | 8h14m | 12h11m | 14 | 16h08m |
| 21 | 20h11m03.12s | S20 01' 45.7" | Cap | 32.51 | 8h13m | 12h11m | 14 | 16h10m |
| 22 | 20h15m16.52s | S19 48' 26.4" | Cap | 32.50 | 8h12m | 12h12m | 15 | 16h12m |
| 23 | 20h19m29.16s | S19 34' 45.0" | Cap | 32.50 | 8h10m | 12h12m | 15 | 16h14m |
| 24 | 20h23m41.04s | S19 20' 41.7" | Cap | 32.49 | 8h08m | 12h12m | 15 | 16h16m |
| 25 | 20h27m52.15s | S19 06' 16.9" | Cap | 32.49 | 8h07m | 12h12m | 15 | 16h18m |
| 26 | 20h32m02.49s | S18 51' 31.1" | Cap | 32.49 | 8h05m | 12h13m | 15 | 16h21m |
| 27 | 20h36m12.06s | S18 36' 24.4" | Cap | 32.48 | 8h03m | 12h13m | 16 | 16h23m |
| 28 | 20h40m20.85s | S18 20' 57.4" | Cap | 32.48 | 8h02m | 12h13m | 16 | 16h25m |
| 29 | 20h44m28.84s | S18 05' 10.5" | Cap | 32.48 | 8h00m | 12h13m | 16 | 16h27m |
| 30 | 20h48m36.05s | S17 49' 03.9" | Cap | 32.47 | 7h58m | 12h13m | 17 | 16h29m |
| 31 | 20h52m42.45s | S17 32' 38.2" | Cap | 32.47 | 7h56m | 12h13m | 17 | 16h31m |

СОЛНЦЕ 2030 ($\varphi=56^\circ$, $\lambda=0^\circ$)
ФЕВРАЛЬ

| д | α (2000.0) | δ (2000.0) | созв | диам | восход | ВК | Вс | заход |
|----|-------------------|-------------------|------|-------|--------|--------|----|--------|
| 1 | 20h56m48.05s | S 17 15' 53.8" | Cap | 32.46 | 7h54m | 12h14m | 17 | 16h34m |
| 2 | 21h00m52.84s | S 16 58' 51.0" | Cap | 32.46 | 7h52m | 12h14m | 17 | 16h36m |
| 3 | 21h04m56.81s | S 16 41' 30.4" | Cap | 32.45 | 7h51m | 12h14m | 18 | 16h38m |
| 4 | 21h08m59.97s | S 16 23' 52.3" | Cap | 32.45 | 7h49m | 12h14m | 18 | 16h40m |
| 5 | 21h13m02.31s | S 16 05' 57.1" | Cap | 32.44 | 7h47m | 12h14m | 18 | 16h42m |
| 6 | 21h17m03.83s | S 15 47' 45.4" | Cap | 32.44 | 7h44m | 12h14m | 19 | 16h44m |
| 7 | 21h21m04.53s | S 15 29' 17.5" | Cap | 32.43 | 7h42m | 12h14m | 19 | 16h47m |
| 8 | 21h25m04.42s | S 15 10' 33.9" | Cap | 32.43 | 7h40m | 12h14m | 19 | 16h49m |
| 9 | 21h29m03.50s | S 14 51' 34.9" | Cap | 32.42 | 7h38m | 12h14m | 20 | 16h51m |
| 10 | 21h33m01.78s | S 14 32' 21.1" | Cap | 32.42 | 7h36m | 12h14m | 20 | 16h53m |
| 11 | 21h36m59.26s | S 14 12' 52.7" | Cap | 32.41 | 7h34m | 12h14m | 20 | 16h55m |
| 12 | 21h40m55.95s | S 13 53' 10.3" | Cap | 32.41 | 7h32m | 12h14m | 21 | 16h58m |
| 13 | 21h44m51.87s | S 13 33' 14.2" | Cap | 32.40 | 7h29m | 12h14m | 21 | 17h00m |
| 14 | 21h48m47.02s | S 13 13' 04.9" | Cap | 32.39 | 7h27m | 12h14m | 21 | 17h02m |
| 15 | 21h52m41.41s | S 12 52' 42.8" | Cap | 32.39 | 7h25m | 12h14m | 22 | 17h04m |
| 16 | 21h56m35.06s | S 12 32' 08.2" | Cap | 32.38 | 7h22m | 12h14m | 22 | 17h06m |
| 17 | 22h00m27.98s | S 12 11' 21.5" | Aqr | 32.37 | 7h20m | 12h14m | 22 | 17h09m |
| 18 | 22h04m20.20s | S 11 50' 23.2" | Aqr | 32.37 | 7h18m | 12h14m | 23 | 17h11m |
| 19 | 22h08m11.71s | S 11 29' 13.6" | Aqr | 32.36 | 7h15m | 12h14m | 23 | 17h13m |
| 20 | 22h12m02.55s | S 11 07' 53.2" | Aqr | 32.35 | 7h13m | 12h14m | 23 | 17h15m |
| 21 | 22h15m52.74s | S 10 46' 22.2" | Aqr | 32.34 | 7h11m | 12h14m | 24 | 17h17m |
| 22 | 22h19m42.28s | S 10 24' 41.2" | Aqr | 32.34 | 7h08m | 12h13m | 24 | 17h20m |
| 23 | 22h23m31.21s | S 10 02' 50.4" | Aqr | 32.33 | 7h06m | 12h13m | 24 | 17h22m |
| 24 | 22h27m19.53s | S 9 40' 50.3" | Aqr | 32.32 | 7h03m | 12h13m | 25 | 17h24m |
| 25 | 22h31m07.26s | S 9 18' 41.3" | Aqr | 32.31 | 7h01m | 12h13m | 25 | 17h26m |
| 26 | 22h34m54.44s | S 8 56' 23.7" | Aqr | 32.31 | 6h58m | 12h13m | 26 | 17h28m |
| 27 | 22h38m41.05s | S 8 33' 58.1" | Aqr | 32.30 | 6h56m | 12h13m | 26 | 17h30m |
| 28 | 22h42m27.14s | S 8 11' 24.7" | Aqr | 32.29 | 6h53m | 12h12m | 26 | 17h32m |

Пояснение для эфемерид Солнца и Луны: д – дата на 0 часов всемирного времени, α (2000.0) и δ (2000.0) – прямое восхождение и склонение для эпохи 2000.0, созв – созвездие в котором находится светило на 0 часов UT, блеск – звездная величина, диам – видимый диаметр в минутах дуги, восход – восход светила, ВК – время верхней кульминации, Вс – высота над горизонтом в верхней кульминации, заход – заход светила, расст – расстояние в км от Земли до Луны.
Сверстано при помощи <http://www.calsky.com/> и Guide 8.0

СОЛНЦЕ 2030 ($\varphi=56^\circ$, $\lambda=0^\circ$)
МАРТ

| д | α (2000.0) | δ (2000.0) | созв | диам | восход | ВК | Вс | заход |
|----|-------------------|-------------------|------|-------|--------|--------|----|--------|
| 1 | 22h46m12.70s | S 7 48' 44.1" | Aqr | 32.28 | 6h51m | 12h12m | 27 | 17h35m |
| 2 | 22h49m57.76s | S 7 25' 56.7" | Aqr | 32.28 | 6h48m | 12h12m | 27 | 17h37m |
| 3 | 22h53m42.33s | S 7 03' 02.8" | Aqr | 32.27 | 6h46m | 12h12m | 27 | 17h39m |
| 4 | 22h57m26.42s | S 6 40' 02.9" | Aqr | 32.26 | 6h43m | 12h12m | 28 | 17h41m |
| 5 | 23h01m10.05s | S 6 16' 57.4" | Aqr | 32.25 | 6h41m | 12h11m | 28 | 17h43m |
| 6 | 23h04m53.23s | S 5 53' 46.7" | Aqr | 32.24 | 6h38m | 12h11m | 29 | 17h45m |
| 7 | 23h08m35.99s | S 5 30' 31.3" | Aqr | 32.24 | 6h36m | 12h11m | 29 | 17h47m |
| 8 | 23h12m18.32s | S 5 07' 11.5" | Aqr | 32.23 | 6h33m | 12h11m | 29 | 17h49m |
| 9 | 23h16m00.27s | S 4 43' 47.8" | Aqr | 32.22 | 6h31m | 12h10m | 30 | 17h51m |
| 10 | 23h19m41.83s | S 4 20' 20.5" | Aqr | 32.21 | 6h28m | 12h10m | 30 | 17h54m |
| 11 | 23h23m23.04s | S 3 56' 50.0" | Aqr | 32.20 | 6h25m | 12h10m | 31 | 17h56m |
| 12 | 23h27m03.90s | S 3 33' 16.7" | Aqr | 32.19 | 6h23m | 12h10m | 31 | 17h58m |
| 13 | 23h30m44.44s | S 3 09' 41.0" | Psc | 32.19 | 6h20m | 12h09m | 31 | 18h00m |
| 14 | 23h34m24.68s | S 2 46' 03.2" | Psc | 32.18 | 6h18m | 12h09m | 32 | 18h02m |
| 15 | 23h38m04.63s | S 2 22' 23.7" | Psc | 32.17 | 6h15m | 12h09m | 32 | 18h04m |
| 16 | 23h41m44.33s | S 1 58' 43.0" | Psc | 32.16 | 6h12m | 12h09m | 32 | 18h06m |
| 17 | 23h45m23.78s | S 1 35' 01.2" | Psc | 32.15 | 6h10m | 12h08m | 33 | 18h08m |
| 18 | 23h49m03.02s | S 1 11' 18.8" | Psc | 32.14 | 6h07m | 12h08m | 33 | 18h10m |
| 19 | 23h52m42.07s | S 0 47' 36.2" | Psc | 32.13 | 6h04m | 12h08m | 34 | 18h12m |
| 20 | 23h56m20.95s | S 0 23' 53.6" | Psc | 32.12 | 6h02m | 12h07m | 34 | 18h14m |
| 21 | 23h59m59.69s | S 0 00' 11.4" | Psc | 32.11 | 5h59m | 12h07m | 34 | 18h16m |
| 22 | 0h03m38.31s | N 0 23' 29.9" | Psc | 32.10 | 5h56m | 12h07m | 35 | 18h18m |
| 23 | 0h07m16.83s | N 0 47' 10.3" | Psc | 32.10 | 5h54m | 12h06m | 35 | 18h20m |
| 24 | 0h10m55.29s | N 1 10' 49.3" | Psc | 32.09 | 5h51m | 12h06m | 36 | 18h22m |
| 25 | 0h14m33.70s | N 1 34' 26.5" | Psc | 32.08 | 5h49m | 12h06m | 36 | 18h24m |
| 26 | 0h18m12.09s | N 1 58' 01.6" | Psc | 32.07 | 5h46m | 12h06m | 36 | 18h26m |
| 27 | 0h21m50.48s | N 2 21' 34.2" | Psc | 32.06 | 5h43m | 12h05m | 37 | 18h28m |
| 28 | 0h25m28.88s | N 2 45' 04.0" | Psc | 32.05 | 5h41m | 12h05m | 37 | 18h30m |
| 29 | 0h29m07.32s | N 3 08' 30.6" | Psc | 32.04 | 5h38m | 12h05m | 38 | 18h33m |
| 30 | 0h32m45.82s | N 3 31' 53.6" | Psc | 32.03 | 5h35m | 12h04m | 38 | 18h35m |
| 31 | 0h36m24.39s | N 3 55' 12.7" | Psc | 32.02 | 5h33m | 12h04m | 38 | 18h37m |

**СОЛНЦЕ 2030 ($\varphi=56^\circ$, $\lambda=0^\circ$)
АВГУСТ**

| д | α (2000.0) | δ (2000.0) | созв | диам | восход | ВК | Вс | заход |
|----|-------------------|-------------------|------|-------|--------|--------|----|--------|
| 1 | 8h43m16.92s | N18 09' 32.1" | Cnc | 31.52 | 4h04m | 12h06m | 52 | 20h07m |
| 2 | 8h47m09.97s | N17 54' 27.7" | Cnc | 31.52 | 4h06m | 12h06m | 52 | 20h05m |
| 3 | 8h51m02.41s | N17 39' 05.9" | Cnc | 31.52 | 4h08m | 12h06m | 51 | 20h03m |
| 4 | 8h54m54.24s | N17 23' 27.0" | Cnc | 31.53 | 4h10m | 12h06m | 51 | 20h01m |
| 5 | 8h58m45.44s | N17 07' 31.2" | Cnc | 31.53 | 4h12m | 12h06m | 51 | 19h59m |
| 6 | 9h02m36.02s | N16 51' 18.9" | Cnc | 31.54 | 4h14m | 12h06m | 51 | 19h57m |
| 7 | 9h06m25.98s | N16 34' 50.3" | Cnc | 31.54 | 4h16m | 12h06m | 50 | 19h54m |
| 8 | 9h10m15.33s | N16 18' 05.9" | Cnc | 31.55 | 4h18m | 12h06m | 50 | 19h52m |
| 9 | 9h14m04.06s | N16 01' 05.8" | Cnc | 31.55 | 4h20m | 12h05m | 50 | 19h50m |
| 10 | 9h17m52.20s | N15 43' 50.3" | Cnc | 31.56 | 4h22m | 12h05m | 49 | 19h48m |
| 11 | 9h21m39.75s | N15 26' 19.9" | Leo | 31.56 | 4h23m | 12h05m | 49 | 19h46m |
| 12 | 9h25m26.71s | N15 08' 34.6" | Leo | 31.57 | 4h25m | 12h05m | 49 | 19h43m |
| 13 | 9h29m13.10s | N14 50' 34.9" | Leo | 31.57 | 4h27m | 12h05m | 49 | 19h41m |
| 14 | 9h32m58.94s | N14 32' 21.0" | Leo | 31.58 | 4h29m | 12h05m | 48 | 19h39m |
| 15 | 9h36m44.23s | N14 13' 53.2" | Leo | 31.58 | 4h31m | 12h04m | 48 | 19h36m |
| 16 | 9h40m29.00s | N13 55' 11.7" | Leo | 31.59 | 4h33m | 12h04m | 48 | 19h34m |
| 17 | 9h44m13.24s | N13 36' 16.9" | Leo | 31.59 | 4h35m | 12h04m | 47 | 19h32m |
| 18 | 9h47m56.98s | N13 17' 09.1" | Leo | 31.60 | 4h37m | 12h04m | 47 | 19h29m |
| 19 | 9h51m40.23s | N12 57' 48.6" | Leo | 31.61 | 4h39m | 12h04m | 47 | 19h27m |
| 20 | 9h55m23.00s | N12 38' 15.6" | Leo | 31.61 | 4h41m | 12h03m | 46 | 19h24m |
| 21 | 9h59m05.30s | N12 18' 30.6" | Leo | 31.62 | 4h43m | 12h03m | 46 | 19h22m |
| 22 | 10h02m47.14s | N11 58' 33.8" | Leo | 31.62 | 4h45m | 12h03m | 46 | 19h19m |
| 23 | 10h06m28.55s | N11 38' 25.5" | Leo | 31.63 | 4h47m | 12h03m | 45 | 19h17m |
| 24 | 10h10m09.52s | N11 18' 06.1" | Leo | 31.64 | 4h49m | 12h02m | 45 | 19h14m |
| 25 | 10h13m50.08s | N10 57' 35.9" | Leo | 31.64 | 4h51m | 12h02m | 45 | 19h12m |
| 26 | 10h17m30.23s | N10 36' 55.2" | Leo | 31.65 | 4h53m | 12h02m | 44 | 19h09m |
| 27 | 10h21m09.99s | N10 16' 04.4" | Leo | 31.66 | 4h55m | 12h01m | 44 | 19h07m |
| 28 | 10h24m49.36s | N 9 55' 03.9" | Leo | 31.66 | 4h57m | 12h01m | 44 | 19h04m |
| 29 | 10h28m28.37s | N 9 33' 53.8" | Leo | 31.67 | 4h59m | 12h01m | 43 | 19h02m |
| 30 | 10h32m07.03s | N 9 12' 34.7" | Leo | 31.68 | 5h01m | 12h01m | 43 | 18h59m |
| 31 | 10h35m45.34s | N 8 51' 06.8" | Leo | 31.69 | 5h03m | 12h00m | 42 | 18h57m |

**СОЛНЦЕ 2030 ($\varphi=56^\circ$, $\lambda=0^\circ$)
МАЙ**

| д | α (2000.0) | δ (2000.0) | созв | диам | восход | ВК | Вс | заход |
|----|-------------------|-------------------|------|-------|--------|--------|----|--------|
| 1 | 2h31m23.60s | N14 53' 29.3" | Ari | 31.75 | 4h16m | 11h57m | 49 | 19h40m |
| 2 | 2h35m12.91s | N15 11' 40.0" | Ari | 31.74 | 4h13m | 11h57m | 50 | 19h42m |
| 3 | 2h39m02.75s | N15 29' 35.7" | Ari | 31.73 | 4h11m | 11h57m | 50 | 19h44m |
| 4 | 2h42m53.14s | N15 47' 15.8" | Ari | 31.73 | 4h09m | 11h57m | 50 | 19h46m |
| 5 | 2h46m44.07s | N16 04' 40.3" | Ari | 31.72 | 4h07m | 11h57m | 50 | 19h48m |
| 6 | 2h50m35.56s | N16 21' 48.7" | Ari | 31.71 | 4h05m | 11h57m | 51 | 19h50m |
| 7 | 2h54m27.59s | N16 38' 40.7" | Ari | 31.70 | 4h03m | 11h57m | 51 | 19h52m |
| 8 | 2h58m20.18s | N16 55' 16.0" | Ari | 31.70 | 4h01m | 11h56m | 51 | 19h54m |
| 9 | 3h02m13.32s | N17 11' 34.4" | Ari | 31.69 | 3h58m | 11h56m | 52 | 19h56m |
| 10 | 3h06m07.02s | N17 27' 35.4" | Ari | 31.68 | 3h56m | 11h56m | 52 | 19h58m |
| 11 | 3h10m01.26s | N17 43' 18.9" | Ari | 31.68 | 3h54m | 11h56m | 52 | 20h00m |
| 12 | 3h13m56.06s | N17 58' 44.5" | Ari | 31.67 | 3h53m | 11h56m | 52 | 20h01m |
| 13 | 3h17m51.41s | N18 13' 51.9" | Ari | 31.66 | 3h51m | 11h56m | 53 | 20h03m |
| 14 | 3h21m47.31s | N18 28' 40.9" | Ari | 31.65 | 3h49m | 11h56m | 53 | 20h05m |
| 15 | 3h25m43.77s | N18 43' 11.2" | Tau | 31.65 | 3h47m | 11h56m | 53 | 20h07m |
| 16 | 3h29m40.78s | N18 57' 22.6" | Tau | 31.64 | 3h45m | 11h56m | 53 | 20h09m |
| 17 | 3h33m38.35s | N19 11' 14.6" | Tau | 31.63 | 3h43m | 11h56m | 53 | 20h11m |
| 18 | 3h37m36.47s | N19 24' 47.2" | Tau | 31.63 | 3h41m | 11h56m | 54 | 20h13m |
| 19 | 3h41m35.16s | N19 38' 00.1" | Tau | 31.62 | 3h40m | 11h56m | 54 | 20h14m |
| 20 | 3h45m34.40s | N19 50' 52.9" | Tau | 31.61 | 3h38m | 11h57m | 54 | 20h16m |
| 21 | 3h49m34.20s | N20 03' 25.5" | Tau | 31.61 | 3h36m | 11h57m | 54 | 20h18m |
| 22 | 3h53m34.56s | N20 15' 37.6" | Tau | 31.60 | 3h35m | 11h57m | 55 | 20h20m |
| 23 | 3h57m35.46s | N20 27' 28.9" | Tau | 31.60 | 3h33m | 11h57m | 55 | 20h21m |
| 24 | 4h01m36.90s | N20 38' 59.2" | Tau | 31.59 | 3h32m | 11h57m | 55 | 20h23m |
| 25 | 4h05m38.88s | N20 50' 08.2" | Tau | 31.58 | 3h30m | 11h57m | 55 | 20h25m |
| 26 | 4h09m41.37s | N21 00' 55.8" | Tau | 31.58 | 3h29m | 11h57m | 55 | 20h26m |
| 27 | 4h13m44.38s | N21 11' 21.6" | Tau | 31.57 | 3h28m | 11h57m | 55 | 20h28m |
| 28 | 4h17m47.88s | N21 21' 25.5" | Tau | 31.57 | 3h26m | 11h57m | 56 | 20h29m |
| 29 | 4h21m51.86s | N21 31' 07.2" | Tau | 31.56 | 3h25m | 11h57m | 56 | 20h31m |
| 30 | 4h25m56.30s | N21 40' 26.5" | Tau | 31.56 | 3h24m | 11h58m | 56 | 20h32m |
| 31 | 4h30m01.18s | N21 49' 23.2" | Tau | 31.55 | 3h23m | 11h58m | 56 | 20h33m |

СОЛНЦЕ 2030 ($\varphi=56^\circ$, $\lambda=0^\circ$)
ИЮНЬ

| д | α (2000.0) | δ (2000.0) | созв | диам | восход | ВК | Вс | заход |
|----|-------------------|-------------------|------|-------|--------|--------|----|--------|
| 1 | 4h34m06.50s | N21 57' 57.1" | Tau | 31.55 | 3h22m | 11h58m | 56 | 20h35m |
| 2 | 4h38m12.22s | N22 06' 08.1" | Tau | 31.54 | 3h21m | 11h58m | 56 | 20h36m |
| 3 | 4h42m18.33s | N22 13' 55.9" | Tau | 31.54 | 3h20m | 11h58m | 56 | 20h37m |
| 4 | 4h46m24.80s | N22 21' 20.4" | Tau | 31.53 | 3h19m | 11h58m | 57 | 20h39m |
| 5 | 4h50m31.63s | N22 28' 21.5" | Tau | 31.53 | 3h18m | 11h59m | 57 | 20h40m |
| 6 | 4h54m38.77s | N22 34' 58.9" | Tau | 31.53 | 3h17m | 11h59m | 57 | 20h41m |
| 7 | 4h58m46.22s | N22 41' 12.6" | Tau | 31.52 | 3h17m | 11h59m | 57 | 20h42m |
| 8 | 5h02m53.95s | N22 47' 02.3" | Tau | 31.52 | 3h16m | 11h59m | 57 | 20h43m |
| 9 | 5h07m01.94s | N22 52' 28.1" | Tau | 31.51 | 3h15m | 11h59m | 57 | 20h44m |
| 10 | 5h11m10.16s | N22 57' 29.7" | Tau | 31.51 | 3h15m | 12h00m | 57 | 20h45m |
| 11 | 5h15m18.60s | N23 02' 07.1" | Tau | 31.51 | 3h14m | 12h00m | 57 | 20h46m |
| 12 | 5h19m27.24s | N23 06' 20.2" | Tau | 31.50 | 3h14m | 12h00m | 57 | 20h46m |
| 13 | 5h23m36.05s | N23 10' 08.9" | Tau | 31.50 | 3h14m | 12h00m | 57 | 20h47m |
| 14 | 5h27m45.02s | N23 13' 33.1" | Tau | 31.50 | 3h13m | 12h00m | 57 | 20h48m |
| 15 | 5h31m54.13s | N23 16' 32.7" | Tau | 31.49 | 3h13m | 12h01m | 57 | 20h48m |
| 16 | 5h36m03.36s | N23 19' 07.8" | Tau | 31.49 | 3h13m | 12h01m | 57 | 20h49m |
| 17 | 5h40m12.70s | N23 21' 18.1" | Tau | 31.49 | 3h13m | 12h01m | 57 | 20h49m |
| 18 | 5h44m22.12s | N23 23' 03.7" | Tau | 31.49 | 3h13m | 12h01m | 57 | 20h50m |
| 19 | 5h48m31.61s | N23 24' 24.6" | Tau | 31.48 | 3h13m | 12h01m | 57 | 20h50m |
| 20 | 5h52m41.15s | N23 25' 20.7" | Tau | 31.48 | 3h13m | 12h02m | 57 | 20h50m |
| 21 | 5h56m50.72s | N23 25' 51.9" | Tau | 31.48 | 3h13m | 12h02m | 57 | 20h51m |
| 22 | 6h01m00.30s | N23 25' 58.4" | Gem | 31.48 | 3h13m | 12h02m | 57 | 20h51m |
| 23 | 6h05m09.85s | N23 25' 40.0" | Gem | 31.47 | 3h14m | 12h02m | 57 | 20h51m |
| 24 | 6h09m19.37s | N23 24' 56.8" | Gem | 31.47 | 3h14m | 12h03m | 57 | 20h51m |
| 25 | 6h13m28.82s | N23 23' 48.8" | Gem | 31.47 | 3h15m | 12h03m | 57 | 20h51m |
| 26 | 6h17m38.17s | N23 22' 16.1" | Gem | 31.47 | 3h15m | 12h03m | 57 | 20h51m |
| 27 | 6h21m47.41s | N23 20' 18.7" | Gem | 31.47 | 3h16m | 12h03m | 57 | 20h50m |
| 28 | 6h25m56.51s | N23 17' 56.6" | Gem | 31.47 | 3h16m | 12h03m | 57 | 20h50m |
| 29 | 6h30m05.44s | N23 15' 09.9" | Gem | 31.47 | 3h17m | 12h04m | 57 | 20h50m |
| 30 | 6h34m14.18s | N23 11' 58.8" | Gem | 31.47 | 3h18m | 12h04m | 57 | 20h49m |

СОЛНЦЕ 2030 ($\varphi=56^\circ$, $\lambda=0^\circ$)
ИЮЛЬ

| д | α (2000.0) | δ (2000.0) | созв | диам | восход | ВК | Вс | заход |
|----|-------------------|-------------------|------|-------|--------|--------|----|--------|
| 1 | 6h38m22.69s | N23 08' 23.2" | Gem | 31.46 | 3h19m | 12h04m | 57 | 20h49m |
| 2 | 6h42m30.97s | N23 04' 23.4" | Gem | 31.46 | 3h19m | 12h04m | 57 | 20h48m |
| 3 | 6h46m38.97s | N22 59' 59.4" | Gem | 31.46 | 3h20m | 12h04m | 57 | 20h48m |
| 4 | 6h50m46.68s | N22 55' 11.3" | Gem | 31.46 | 3h21m | 12h05m | 57 | 20h47m |
| 5 | 6h54m54.06s | N22 49' 59.2" | Gem | 31.46 | 3h22m | 12h05m | 57 | 20h46m |
| 6 | 6h59m01.11s | N22 44' 23.4" | Gem | 31.46 | 3h23m | 12h05m | 57 | 20h46m |
| 7 | 7h03m07.79s | N22 38' 23.9" | Gem | 31.46 | 3h25m | 12h05m | 57 | 20h45m |
| 8 | 7h07m14.08s | N22 32' 01.0" | Gem | 31.47 | 3h26m | 12h05m | 56 | 20h44m |
| 9 | 7h11m19.96s | N22 25' 14.7" | Gem | 31.47 | 3h27m | 12h05m | 56 | 20h43m |
| 10 | 7h15m25.42s | N22 18' 05.2" | Gem | 31.47 | 3h28m | 12h05m | 56 | 20h42m |
| 11 | 7h19m30.44s | N22 10' 32.8" | Gem | 31.47 | 3h30m | 12h06m | 56 | 20h41m |
| 12 | 7h23m35.00s | N22 02' 37.5" | Gem | 31.47 | 3h31m | 12h06m | 56 | 20h40m |
| 13 | 7h27m39.10s | N21 54' 19.5" | Gem | 31.47 | 3h32m | 12h06m | 56 | 20h38m |
| 14 | 7h31m42.72s | N21 45' 39.1" | Gem | 31.47 | 3h34m | 12h06m | 56 | 20h37m |
| 15 | 7h35m45.85s | N21 36' 36.4" | Gem | 31.47 | 3h35m | 12h06m | 55 | 20h36m |
| 16 | 7h39m48.49s | N21 27' 11.6" | Gem | 31.47 | 3h37m | 12h06m | 55 | 20h35m |
| 17 | 7h43m50.62s | N21 17' 24.9" | Gem | 31.47 | 3h38m | 12h06m | 55 | 20h33m |
| 18 | 7h47m52.24s | N21 07' 16.5" | Gem | 31.48 | 3h40m | 12h06m | 55 | 20h32m |
| 19 | 7h51m53.35s | N20 56' 46.6" | Gem | 31.48 | 3h41m | 12h06m | 55 | 20h30m |
| 20 | 7h55m53.92s | N20 45' 55.4" | Gem | 31.48 | 3h43m | 12h06m | 55 | 20h29m |
| 21 | 7h59m53.96s | N20 34' 43.1" | Cnc | 31.48 | 3h45m | 12h06m | 54 | 20h27m |
| 22 | 8h03m53.46s | N20 23' 10.1" | Cnc | 31.48 | 3h46m | 12h07m | 54 | 20h26m |
| 23 | 8h07m52.41s | N20 11' 16.5" | Cnc | 31.49 | 3h48m | 12h07m | 54 | 20h24m |
| 24 | 8h11m50.79s | N19 59' 02.5" | Cnc | 31.49 | 3h50m | 12h07m | 54 | 20h22m |
| 25 | 8h15m48.61s | N19 46' 28.5" | Cnc | 31.49 | 3h52m | 12h07m | 54 | 20h20m |
| 26 | 8h19m45.86s | N19 33' 34.7" | Cnc | 31.49 | 3h53m | 12h07m | 53 | 20h19m |
| 27 | 8h23m42.52s | N19 20' 21.4" | Cnc | 31.50 | 3h55m | 12h07m | 53 | 20h17m |
| 28 | 8h27m38.60s | N19 06' 48.8" | Cnc | 31.50 | 3h57m | 12h07m | 53 | 20h15m |
| 29 | 8h31m34.08s | N18 52' 57.3" | Cnc | 31.50 | 3h59m | 12h07m | 53 | 20h13m |
| 30 | 8h35m28.97s | N18 38' 47.2" | Cnc | 31.51 | 4h01m | 12h06m | 52 | 20h11m |
| 31 | 8h39m23.25s | N18 24' 18.6" | Cnc | 31.51 | 4h02m | 12h06m | 52 | 20h09m |

СОЛНЦЕ 2030 ($\varphi=56^\circ$, $\lambda=0^\circ$)
ДЕКАБРЬ

| д | α (2000.0) | δ (2000.0) | созв | диам | восход | ВК | Вс | заход |
|----|-------------------|-------------------|------|-------|--------|--------|----|--------|
| 1 | 16h26m36.78s | S21 42' 09.9" | Oph | 32.44 | 8h07m | 11h49m | 12 | 15h31m |
| 2 | 16h30m55.60s | S21 51' 32.4" | Oph | 32.44 | 8h09m | 11h49m | 12 | 15h30m |
| 3 | 16h35m15.03s | S22 00' 29.8" | Oph | 32.45 | 8h10m | 11h50m | 12 | 15h29m |
| 4 | 16h39m35.07s | S22 09' 01.7" | Oph | 32.45 | 8h12m | 11h50m | 12 | 15h28m |
| 5 | 16h43m55.67s | S22 17' 08.0" | Oph | 32.46 | 8h13m | 11h51m | 12 | 15h28m |
| 6 | 16h48m16.83s | S22 24' 48.3" | Oph | 32.46 | 8h15m | 11h51m | 12 | 15h27m |
| 7 | 16h52m38.51s | S22 32' 02.6" | Oph | 32.47 | 8h16m | 11h52m | 11 | 15h27m |
| 8 | 16h57m00.70s | S22 38' 50.4" | Oph | 32.47 | 8h18m | 11h52m | 11 | 15h26m |
| 9 | 17h01m23.38s | S22 45' 11.6" | Oph | 32.48 | 8h19m | 11h52m | 11 | 15h26m |
| 10 | 17h05m46.51s | S22 51' 06.1" | Oph | 32.48 | 8h20m | 11h53m | 11 | 15h25m |
| 11 | 17h10m10.08s | S22 56' 33.6" | Oph | 32.48 | 8h21m | 11h53m | 11 | 15h25m |
| 12 | 17h14m34.05s | S23 01' 33.8" | Oph | 32.49 | 8h22m | 11h54m | 11 | 15h25m |
| 13 | 17h18m58.41s | S23 06' 06.8" | Oph | 32.49 | 8h23m | 11h54m | 11 | 15h25m |
| 14 | 17h23m23.12s | S23 10' 12.2" | Oph | 32.49 | 8h24m | 11h55m | 11 | 15h25m |
| 15 | 17h27m48.15s | S23 13' 50.0" | Oph | 32.50 | 8h25m | 11h55m | 11 | 15h25m |
| 16 | 17h32m13.48s | S23 17' 00.0" | Oph | 32.50 | 8h26m | 11h56m | 11 | 15h25m |
| 17 | 17h36m39.07s | S23 19' 42.2" | Oph | 32.50 | 8h27m | 11h56m | 11 | 15h25m |
| 18 | 17h41m04.90s | S23 21' 56.3" | Oph | 32.51 | 8h28m | 11h57m | 11 | 15h25m |
| 19 | 17h45m30.93s | S23 23' 42.3" | Sgr | 32.51 | 8h29m | 11h57m | 11 | 15h26m |
| 20 | 17h49m57.13s | S23 25' 00.2" | Sgr | 32.51 | 8h29m | 11h58m | 11 | 15h26m |
| 21 | 17h54m23.46s | S23 25' 49.9" | Sgr | 32.51 | 8h30m | 11h58m | 11 | 15h27m |
| 22 | 17h58m49.89s | S23 26' 11.4" | Sgr | 32.52 | 8h30m | 11h59m | 11 | 15h27m |
| 23 | 18h03m16.38s | S23 26' 04.6" | Sgr | 32.52 | 8h31m | 11h59m | 11 | 15h28m |
| 24 | 18h07m42.89s | S23 25' 29.5" | Sgr | 32.52 | 8h31m | 12h00m | 11 | 15h28m |
| 25 | 18h12m09.37s | S23 24' 26.2" | Sgr | 32.52 | 8h31m | 12h00m | 11 | 15h29m |
| 26 | 18h16m35.80s | S23 22' 54.6" | Sgr | 32.52 | 8h31m | 12h01m | 11 | 15h30m |
| 27 | 18h21m02.12s | S23 20' 54.9" | Sgr | 32.52 | 8h32m | 12h01m | 11 | 15h31m |
| 28 | 18h25m28.31s | S23 18' 27.0" | Sgr | 32.53 | 8h32m | 12h02m | 11 | 15h32m |
| 29 | 18h29m54.32s | S23 15' 31.1" | Sgr | 32.53 | 8h32m | 12h02m | 11 | 15h33m |
| 30 | 18h34m20.11s | S23 12' 07.3" | Sgr | 32.53 | 8h32m | 12h03m | 11 | 15h34m |
| 31 | 18h38m45.66s | S23 08' 15.6" | Sgr | 32.53 | 8h31m | 12h03m | 11 | 15h35m |

СОЛНЦЕ 2030 ($\varphi=56^\circ$, $\lambda=0^\circ$)
СЕНТЯБРЬ

| д | α (2000.0) | δ (2000.0) | созв | диам | восход | ВК | Вс | заход |
|----|-------------------|-------------------|------|-------|--------|--------|----|--------|
| 1 | 10h39m23.32s | N 8 29' 30.4" | Leo | 31.69 | 5h05m | 12h00m | 42 | 18h54m |
| 2 | 10h43m00.98s | N 8 07' 46.0" | Leo | 31.70 | 5h07m | 12h00m | 42 | 18h51m |
| 3 | 10h46m38.33s | N 7 45' 53.9" | Leo | 31.71 | 5h09m | 11h59m | 41 | 18h49m |
| 4 | 10h50m15.39s | N 7 23' 54.4" | Leo | 31.72 | 5h10m | 11h59m | 41 | 18h46m |
| 5 | 10h53m52.17s | N 7 01' 47.8" | Leo | 31.73 | 5h12m | 11h59m | 41 | 18h44m |
| 6 | 10h57m28.70s | N 6 39' 34.4" | Leo | 31.73 | 5h14m | 11h58m | 40 | 18h41m |
| 7 | 11h01m04.98s | N 6 17' 14.6" | Leo | 31.74 | 5h16m | 11h58m | 40 | 18h38m |
| 8 | 11h04m41.05s | N 5 54' 48.7" | Leo | 31.75 | 5h18m | 11h58m | 40 | 18h36m |
| 9 | 11h08m16.91s | N 5 32' 17.0" | Leo | 31.76 | 5h20m | 11h57m | 39 | 18h33m |
| 10 | 11h11m52.60s | N 5 09' 39.7" | Leo | 31.77 | 5h22m | 11h57m | 39 | 18h30m |
| 11 | 11h15m28.14s | N 4 46' 57.2" | Leo | 31.77 | 5h24m | 11h57m | 38 | 18h28m |
| 12 | 11h19m03.54s | N 4 24' 09.8" | Leo | 31.78 | 5h26m | 11h56m | 38 | 18h25m |
| 13 | 11h22m38.84s | N 4 01' 17.8" | Leo | 31.79 | 5h28m | 11h56m | 38 | 18h22m |
| 14 | 11h26m14.05s | N 3 38' 21.5" | Leo | 31.80 | 5h30m | 11h55m | 37 | 18h20m |
| 15 | 11h29m49.20s | N 3 15' 21.1" | Leo | 31.81 | 5h32m | 11h55m | 37 | 18h17m |
| 16 | 11h33m24.31s | N 2 52' 17.1" | Leo | 31.81 | 5h34m | 11h55m | 36 | 18h14m |
| 17 | 11h36m59.40s | N 2 29' 09.7" | Vir | 31.82 | 5h36m | 11h54m | 36 | 18h12m |
| 18 | 11h40m34.49s | N 2 05' 59.3" | Vir | 31.83 | 5h38m | 11h54m | 36 | 18h09m |
| 19 | 11h44m09.61s | N 1 42' 46.2" | Vir | 31.84 | 5h40m | 11h54m | 35 | 18h07m |
| 20 | 11h47m44.78s | N 1 19' 30.7" | Vir | 31.85 | 5h42m | 11h53m | 35 | 18h04m |
| 21 | 11h51m20.01s | N 0 56' 13.1" | Vir | 31.86 | 5h44m | 11h53m | 35 | 18h01m |
| 22 | 11h54m55.33s | N 0 32' 53.9" | Vir | 31.87 | 5h46m | 11h53m | 34 | 17h59m |
| 23 | 11h58m30.76s | N 0 09' 33.3" | Vir | 31.87 | 5h48m | 11h52m | 34 | 17h56m |
| 24 | 12h02m06.31s | S 0 13' 48.1" | Vir | 31.88 | 5h49m | 11h52m | 33 | 17h53m |
| 25 | 12h05m42.01s | S 0 37' 10.3" | Vir | 31.89 | 5h51m | 11h52m | 33 | 17h51m |
| 26 | 12h09m17.88s | S 1 00' 32.7" | Vir | 31.90 | 5h53m | 11h51m | 33 | 17h48m |
| 27 | 12h12m53.92s | S 1 23' 55.1" | Vir | 31.91 | 5h55m | 11h51m | 32 | 17h45m |
| 28 | 12h16m30.16s | S 1 47' 17.0" | Vir | 31.92 | 5h57m | 11h51m | 32 | 17h43m |
| 29 | 12h20m06.61s | S 2 10' 38.1" | Vir | 31.93 | 5h59m | 11h50m | 31 | 17h40m |
| 30 | 12h23m43.29s | S 2 33' 57.9" | Vir | 31.94 | 6h01m | 11h50m | 31 | 17h37m |

СОЛНЦЕ 2030 ($\varphi=56^\circ$, $\lambda=0^\circ$)
ОКТЯБРЬ

| д | α (2000.0) | δ (2000.0) | созв | диам | восход | ВК | Вс | заход |
|----|-------------------|-------------------|------|-------|--------|--------|----|--------|
| 1 | 12h27m20.21s | S 2 57' 16.2" | Vir | 31.95 | 6h03m | 11h50m | 31 | 17h35m |
| 2 | 12h30m57.40s | S 3 20' 32.6" | Vir | 31.96 | 6h05m | 11h49m | 30 | 17h32m |
| 3 | 12h34m34.87s | S 3 43' 46.6" | Vir | 31.97 | 6h07m | 11h49m | 30 | 17h30m |
| 4 | 12h38m12.63s | S 4 06' 58.0" | Vir | 31.98 | 6h09m | 11h49m | 29 | 17h27m |
| 5 | 12h41m50.71s | S 4 30' 06.3" | Vir | 31.98 | 6h11m | 11h48m | 29 | 17h24m |
| 6 | 12h45m29.13s | S 4 53' 11.3" | Vir | 31.99 | 6h13m | 11h48m | 29 | 17h22m |
| 7 | 12h49m07.90s | S 5 16' 12.6" | Vir | 32.00 | 6h15m | 11h48m | 28 | 17h19m |
| 8 | 12h52m47.06s | S 5 39' 09.8" | Vir | 32.01 | 6h17m | 11h47m | 28 | 17h17m |
| 9 | 12h56m26.61s | S 6 02' 02.6" | Vir | 32.02 | 6h19m | 11h47m | 28 | 17h14m |
| 10 | 13h00m06.60s | S 6 24' 50.6" | Vir | 32.03 | 6h21m | 11h47m | 27 | 17h11m |
| 11 | 13h03m47.03s | S 6 47' 33.6" | Vir | 32.04 | 6h23m | 11h47m | 27 | 17h09m |
| 12 | 13h07m27.93s | S 7 10' 11.1" | Vir | 32.05 | 6h25m | 11h46m | 26 | 17h06m |
| 13 | 13h11m09.33s | S 7 32' 42.9" | Vir | 32.06 | 6h28m | 11h46m | 26 | 17h04m |
| 14 | 13h14m51.24s | S 7 55' 08.4" | Vir | 32.07 | 6h30m | 11h46m | 26 | 17h01m |
| 15 | 13h18m33.69s | S 8 17' 27.5" | Vir | 32.08 | 6h32m | 11h46m | 25 | 16h59m |
| 16 | 13h22m16.70s | S 8 39' 39.7" | Vir | 32.08 | 6h34m | 11h46m | 25 | 16h56m |
| 17 | 13h26m00.29s | S 9 01' 44.6" | Vir | 32.09 | 6h36m | 11h45m | 25 | 16h54m |
| 18 | 13h29m44.47s | S 9 23' 41.9" | Vir | 32.10 | 6h38m | 11h45m | 24 | 16h51m |
| 19 | 13h33m29.27s | S 9 45' 31.1" | Vir | 32.11 | 6h40m | 11h45m | 24 | 16h49m |
| 20 | 13h37m14.70s | S 10 07' 11.9" | Vir | 32.12 | 6h42m | 11h45m | 24 | 16h47m |
| 21 | 13h41m00.79s | S 10 28' 43.9" | Vir | 32.13 | 6h44m | 11h45m | 23 | 16h44m |
| 22 | 13h44m47.54s | S 10 50' 06.7" | Vir | 32.14 | 6h46m | 11h44m | 23 | 16h42m |
| 23 | 13h48m34.97s | S 11 11' 19.9" | Vir | 32.15 | 6h48m | 11h44m | 22 | 16h39m |
| 24 | 13h52m23.10s | S 11 32' 23.1" | Vir | 32.16 | 6h50m | 11h44m | 22 | 16h37m |
| 25 | 13h56m11.94s | S 11 53' 15.8" | Vir | 32.16 | 6h53m | 11h44m | 22 | 16h35m |
| 26 | 14h00m01.50s | S 12 13' 57.8" | Vir | 32.17 | 6h55m | 11h44m | 21 | 16h32m |
| 27 | 14h03m51.78s | S 12 34' 28.4" | Vir | 32.18 | 6h57m | 11h44m | 21 | 16h30m |
| 28 | 14h07m42.80s | S 12 54' 47.4" | Vir | 32.19 | 6h59m | 11h44m | 21 | 16h28m |
| 29 | 14h11m34.56s | S 13 14' 54.2" | Vir | 32.20 | 7h01m | 11h44m | 20 | 16h26m |
| 30 | 14h15m27.08s | S 13 34' 48.6" | Vir | 32.21 | 7h03m | 11h44m | 20 | 16h23m |
| 31 | 14h19m20.35s | S 13 54' 30.0" | Vir | 32.22 | 7h05m | 11h44m | 20 | 16h21m |

СОЛНЦЕ 2030 ($\varphi=56^\circ$, $\lambda=0^\circ$)
НОЯБРЬ

| д | α (2000.0) | δ (2000.0) | созв | диам | восход | ВК | Вс | заход |
|----|-------------------|-------------------|------|-------|--------|--------|----|--------|
| 1 | 14h23m14.39s | S 14 13' 58.0" | Lib | 32.23 | 7h07m | 11h44m | 19 | 16h19m |
| 2 | 14h27m09.20s | S 14 33' 12.3" | Lib | 32.23 | 7h10m | 11h44m | 19 | 16h17m |
| 3 | 14h31m04.78s | S 14 52' 12.5" | Lib | 32.24 | 7h12m | 11h44m | 19 | 16h15m |
| 4 | 14h35m01.16s | S 15 10' 58.1" | Lib | 32.25 | 7h14m | 11h44m | 19 | 16h13m |
| 5 | 14h38m58.34s | S 15 29' 28.7" | Lib | 32.26 | 7h16m | 11h44m | 18 | 16h11m |
| 6 | 14h42m56.32s | S 15 47' 44.0" | Lib | 32.27 | 7h18m | 11h44m | 18 | 16h09m |
| 7 | 14h46m55.12s | S 16 05' 43.6" | Lib | 32.28 | 7h20m | 11h44m | 18 | 16h06m |
| 8 | 14h50m54.74s | S 16 23' 27.1" | Lib | 32.28 | 7h22m | 11h44m | 17 | 16h05m |
| 9 | 14h54m55.20s | S 16 40' 54.1" | Lib | 32.29 | 7h24m | 11h44m | 17 | 16h03m |
| 10 | 14h58m56.50s | S 16 58' 04.1" | Lib | 32.30 | 7h26m | 11h44m | 17 | 16h01m |
| 11 | 15h02m58.64s | S 17 14' 56.9" | Lib | 32.31 | 7h29m | 11h44m | 16 | 15h59m |
| 12 | 15h07m01.63s | S 17 31' 32.0" | Lib | 32.31 | 7h31m | 11h44m | 16 | 15h57m |
| 13 | 15h11m05.48s | S 17 47' 49.1" | Lib | 32.32 | 7h33m | 11h44m | 16 | 15h55m |
| 14 | 15h15m10.19s | S 18 03' 47.7" | Lib | 32.33 | 7h35m | 11h44m | 16 | 15h53m |
| 15 | 15h19m15.75s | S 18 19' 27.4" | Lib | 32.34 | 7h37m | 11h45m | 15 | 15h52m |
| 16 | 15h23m22.18s | S 18 34' 47.9" | Lib | 32.34 | 7h39m | 11h45m | 15 | 15h50m |
| 17 | 15h27m29.47s | S 18 49' 48.7" | Lib | 32.35 | 7h41m | 11h45m | 15 | 15h48m |
| 18 | 15h31m37.61s | S 19 04' 29.5" | Lib | 32.36 | 7h43m | 11h45m | 15 | 15h47m |
| 19 | 15h35m46.60s | S 19 18' 49.9" | Lib | 32.36 | 7h45m | 11h45m | 14 | 15h45m |
| 20 | 15h39m56.45s | S 19 32' 49.6" | Lib | 32.37 | 7h47m | 11h46m | 14 | 15h44m |
| 21 | 15h44m07.13s | S 19 46' 28.1" | Lib | 32.38 | 7h49m | 11h46m | 14 | 15h42m |
| 22 | 15h48m18.63s | S 19 59' 45.0" | Lib | 32.38 | 7h51m | 11h46m | 14 | 15h41m |
| 23 | 15h52m30.96s | S 20 12' 40.1" | Lib | 32.39 | 7h53m | 11h46m | 14 | 15h40m |
| 24 | 15h56m44.08s | S 20 25' 12.9" | Sco | 32.40 | 7h55m | 11h47m | 13 | 15h38m |
| 25 | 16h00m57.99s | S 20 37' 23.0" | Sco | 32.40 | 7h57m | 11h47m | 13 | 15h37m |
| 26 | 16h05m12.66s | S 20 49' 10.2" | Sco | 32.41 | 7h58m | 11h47m | 13 | 15h36m |
| 27 | 16h09m28.08s | S 21 00' 34.1" | Sco | 32.41 | 8h00m | 11h48m | 13 | 15h35m |
| 28 | 16h13m44.22s | S 21 11' 34.3" | Sco | 32.42 | 8h02m | 11h48m | 13 | 15h34m |
| 29 | 16h18m01.07s | S 21 22' 10.6" | Sco | 32.43 | 8h04m | 11h48m | 13 | 15h33m |
| 30 | 16h22m18.59s | S 21 32' 22.5" | Oph | 32.43 | 8h05m | 11h49m | 12 | 15h32m |

ЛУНА 2030 ($\phi=56^\circ$, $\lambda=0^\circ$)
АПРЕЛЬ

| д | α (2000.0) | δ (2000.0) | созв | блеск | фаза | расст | восход | заход |
|----|-------------------|-------------------|------|-------|------|--------|--------|-------|
| 1 | 23h12m09.93s | S 0 31' 49.1" | Psc | -7.2 | 3.8 | 358356 | 04:34 | 17:33 |
| 2 | 23h57m52.28s | N 4 15' 22.4" | Psc | -5.0 | 1.0 | 363262 | 04:43 | 18:52 |
| 3 | 0h43m36.13s | N 8 46' 39.2" | Psc | -1.4 | 0.1 | 369348 | 04:52 | 20:11 |
| 4 | 1h29m55.15s | N12 51' 51.7" | Psc | -5.1 | 1.1 | 376055 | 05:04 | 21:29 |
| 5 | 2h17m13.84s | N16 21' 31.6" | Ari | -7.2 | 3.9 | 382851 | 05:19 | 22:44 |
| 6 | 3h05m45.09s | N19 07' 00.9" | Ari | -8.4 | 8.4 | 389291 | 05:40 | 23:53 |
| 7 | 3h55m28.53s | N21 00' 51.5" | Tau | -9.3 | 14.3 | 395043 | 06:09 | --:-- |
| 8 | 4h46m10.68s | N21 57' 13.8" | Tau | -10.0 | 21.5 | 399893 | 06:50 | 00:52 |
| 9 | 5h37m28.36s | N21 52' 25.6" | Tau | -10.5 | 29.8 | 403733 | 07:45 | 01:39 |
| 10 | 6h28m55.22s | N20 45' 11.5" | Gem | -11.0 | 38.9 | 406539 | 08:53 | 02:13 |
| 11 | 7h20m09.80s | N18 36' 45.8" | Gem | -11.4 | 48.6 | 408347 | 10:09 | 02:37 |
| 12 | 8h11m02.25s | N15 30' 42.4" | Cnc | -11.7 | 58.6 | 409228 | 11:31 | 02:55 |
| 13 | 9h01m38.01s | N11 32' 45.9" | Cnc | -12.0 | 68.6 | 409262 | 12:57 | 03:08 |
| 14 | 9h52m18.19s | N 6 51' 00.8" | Leo | -12.3 | 78.0 | 408520 | 14:25 | 03:19 |
| 15 | 10h43m37.38s | N 1 36' 24.5" | Sex | -12.5 | 86.5 | 407052 | 15:56 | 03:29 |
| 16 | 11h36m19.64s | S 3 56' 24.5" | Leo | -12.7 | 93.3 | 404881 | 17:31 | 03:40 |
| 17 | 12h31m12.01s | S 9 28' 26.8" | Vir | -12.8 | 97.9 | 402012 | 19:09 | 03:51 |
| 18 | 13h28m53.72s | S14 36' 29.8" | Vir | -12.9 | 99.8 | 398440 | 20:49 | 04:06 |
| 19 | 14h29m39.90s | S18 54' 52.8" | Lib | -12.9 | 98.7 | 394171 | 22:25 | 04:27 |
| 20 | 15h33m03.11s | S21 59' 21.6" | Lib | -12.8 | 94.6 | 389251 | 23:48 | 04:59 |
| 21 | 16h37m44.80s | S23 32' 38.7" | Oph | -12.6 | 88.0 | 383781 | --:-- | 05:47 |
| 22 | 17h41m51.85s | S23 29' 03.6" | Oph | -12.4 | 79.2 | 377950 | 00:49 | 06:55 |
| 23 | 18h43m35.53s | S21 55' 21.9" | Sgr | -12.1 | 69.1 | 372044 | 01:29 | 08:18 |
| 24 | 19h41m47.55s | S19 07' 11.1" | Sgr | -11.8 | 58.3 | 366445 | 01:55 | 09:46 |
| 25 | 20h36m10.86s | S15 23' 37.8" | Cap | -11.4 | 47.5 | 361611 | 02:12 | 11:14 |
| 26 | 21h27m08.25s | S11 03' 10.2" | Cap | -11.0 | 37.0 | 358016 | 02:25 | 12:39 |
| 27 | 22h15m24.47s | S 6 21' 46.4" | Aqr | -10.4 | 27.4 | 356078 | 02:35 | 14:01 |
| 28 | 23h01m52.10s | S 1 32' 44.7" | Psc | -9.8 | 18.9 | 356069 | 02:43 | 15:21 |
| 29 | 23h47m23.21s | N 3 12' 37.8" | Psc | -9.0 | 11.8 | 358055 | 02:52 | 16:39 |
| 30 | 0h32m44.86s | N 7 44' 17.1" | Psc | -8.0 | 6.3 | 361876 | 03:01 | 17:57 |

ЛУНА 2030 ($\phi=56^\circ$, $\lambda=0^\circ$)
ЯНВАРЬ

| д | α (2000.0) | δ (2000.0) | созв | блеск | фаза | расст | восход | заход |
|----|-------------------|-------------------|------|-------|------|--------|--------|-------|
| 1 | 15h42m10.97s | S22 43' 08.7" | Lib | -9.4 | 12.8 | 368718 | 06:22 | 12:18 |
| 2 | 16h45m07.61s | S24 03' 11.4" | Oph | -8.1 | 6.0 | 369087 | 07:36 | 13:14 |
| 3 | 17h48m27.07s | S23 48' 21.1" | Sgr | -6.0 | 1.7 | 370533 | 08:28 | 14:31 |
| 4 | 18h50m13.49s | S22 01' 48.2" | Sgr | 0.8 | 0.0 | 373074 | 09:00 | 16:02 |
| 5 | 19h48m58.44s | S18 57' 18.2" | Sgr | -5.2 | 1.0 | 376593 | 09:19 | 17:36 |
| 6 | 20h44m03.49s | S14 54' 41.0" | Cap | -7.6 | 4.5 | 380848 | 09:33 | 19:07 |
| 7 | 21h35m36.72s | S10 14' 46.9" | Cap | -8.9 | 10.0 | 385501 | 09:43 | 20:34 |
| 8 | 22h24m15.98s | S 5 16' 08.8" | Aqr | -9.7 | 17.1 | 390164 | 09:51 | 21:57 |
| 9 | 23h10m52.80s | S 0 13' 52.6" | Psc | -10.3 | 25.4 | 394453 | 09:58 | 23:17 |
| 10 | 23h56m22.18s | N 4 40' 06.0" | Psc | -10.8 | 34.4 | 398026 | 10:05 | --:-- |
| 11 | 0h41m37.14s | N 9 16' 05.9" | Psc | -11.2 | 43.9 | 400619 | 10:14 | 00:36 |
| 12 | 1h27m25.61s | N13 25' 36.3" | Psc | -11.5 | 53.4 | 402061 | 10:25 | 01:55 |
| 13 | 2h14m27.60s | N17 00' 22.9" | Ari | -11.8 | 62.8 | 402283 | 10:39 | 03:12 |
| 14 | 3h03m11.30s | N19 51' 55.3" | Ari | -12.1 | 71.7 | 401321 | 11:00 | 04:27 |
| 15 | 3h53m48.30s | N21 51' 28.4" | Tau | -12.3 | 79.8 | 399302 | 11:32 | 05:37 |
| 16 | 4h46m09.50s | N22 50' 44.5" | Tau | -12.4 | 87.0 | 396436 | 12:17 | 06:36 |
| 17 | 5h39m44.97s | N22 43' 13.3" | Tau | -12.6 | 92.8 | 392984 | 13:19 | 07:20 |
| 18 | 6h33m50.34s | N21 25' 45.2" | Gem | -12.7 | 97.1 | 389241 | 14:34 | 07:51 |
| 19 | 7h27m39.36s | N18 59' 41.5" | Gem | -12.8 | 99.5 | 385496 | 15:58 | 08:12 |
| 20 | 8h20m37.65s | N15 31' 12.3" | Cnc | -12.8 | 99.7 | 382006 | 17:25 | 08:27 |
| 21 | 9h12m31.76s | N11 10' 38.4" | Cnc | -12.8 | 97.8 | 378968 | 18:53 | 08:39 |
| 22 | 10h03m31.24s | N 6 11' 22.3" | Sex | -12.7 | 93.5 | 376497 | 20:22 | 08:48 |
| 23 | 10h54m05.09s | N 0 48' 38.6" | Leo | -12.6 | 87.1 | 374628 | 21:52 | 08:57 |
| 24 | 11h44m55.63s | S 4 41' 12.5" | Vir | -12.4 | 78.8 | 373327 | 23:24 | 09:05 |
| 25 | 12h36m51.36s | S10 01' 06.8" | Vir | -12.2 | 68.9 | 372522 | --:-- | 09:16 |
| 26 | 13h30m38.66s | S14 53' 18.9" | Vir | -11.9 | 58.1 | 372137 | 00:57 | 09:29 |
| 27 | 14h26m50.93s | S18 59' 35.9" | Lib | -11.5 | 46.8 | 372116 | 02:31 | 09:48 |
| 28 | 15h25m35.06s | S22 02' 14.5" | Lib | -11.0 | 35.6 | 372450 | 04:02 | 10:17 |
| 29 | 16h26m19.48s | S23 46' 11.4" | Oph | -10.4 | 25.1 | 373175 | 05:21 | 11:02 |
| 30 | 17h27m53.31s | S24 02' 11.5" | Oph | -9.7 | 16.0 | 374363 | 06:20 | 12:09 |
| 31 | 18h28m44.13s | S22 49' 32.7" | Sgr | -8.7 | 8.6 | 376092 | 06:59 | 13:32 |

ЛУНА 2030 ($\varphi=56^\circ$, $\lambda=0^\circ$)
ФЕВРАЛЬ

| д | α (2000.0) | δ (2000.0) | созв | блеск | фаза | расст | восход | заход |
|----|-------------------|-------------------|------|-------|------|--------|--------|-------|
| 1 | 19h27m28.36s | S20 16' 38.2" | Sgr | -7.2 | 3.4 | 378418 | 07:23 | 15:04 |
| 2 | 20h23m15.77s | S16 38' 44.4" | Cap | -4.3 | 0.6 | 381335 | 07:39 | 16:35 |
| 3 | 21h15m55.80s | S12 14' 24.6" | Aqr | -2.5 | 0.2 | 384757 | 07:51 | 18:04 |
| 4 | 22h05m49.08s | S 7 22' 14.5" | Aqr | -6.3 | 2.1 | 388511 | 08:00 | 19:30 |
| 5 | 22h53m34.33s | S 2 18' 55.4" | Psc | -8.0 | 6.0 | 392350 | 08:08 | 20:52 |
| 6 | 23h39m57.79s | N 2 41' 27.1" | Psc | -9.0 | 11.7 | 395982 | 08:15 | 22:13 |
| 7 | 0h25m46.54s | N 7 27' 13.3" | Psc | -9.8 | 18.7 | 399102 | 08:24 | 23:32 |
| 8 | 1h11m44.64s | N11 48' 33.7" | Psc | -10.4 | 26.8 | 401427 | 08:34 | --:-- |
| 9 | 1h58m30.30s | N15 36' 47.1" | Ari | -10.9 | 35.7 | 402727 | 08:47 | 00:51 |
| 10 | 2h46m32.99s | N18 43' 44.8" | Ari | -11.2 | 44.9 | 402847 | 09:05 | 02:07 |
| 11 | 3h36m09.84s | N21 01' 33.4" | Tau | -11.6 | 54.4 | 401722 | 09:31 | 03:19 |
| 12 | 4h27m22.36s | N22 22' 44.0" | Tau | -11.9 | 63.7 | 399391 | 10:10 | 04:22 |
| 13 | 5h19m54.98s | N22 40' 52.0" | Tau | -12.1 | 72.7 | 395995 | 11:04 | 05:13 |
| 14 | 6h13m18.04s | N21 51' 39.0" | Gem | -12.3 | 81.0 | 391770 | 12:13 | 05:50 |
| 15 | 7h06m55.56s | N19 53' 58.6" | Gem | -12.5 | 88.2 | 387033 | 13:33 | 06:15 |
| 16 | 8h00m15.90s | N16 50' 44.1" | Cnc | -12.7 | 94.0 | 382155 | 14:59 | 06:33 |
| 17 | 8h53m01.08s | N12 49' 05.5" | Cnc | -12.8 | 98.0 | 377525 | 16:28 | 06:46 |
| 18 | 9h45m11.53s | N 8 00' 16.0" | Leo | -12.8 | 99.7 | 373508 | 17:58 | 06:57 |
| 19 | 10h37m05.68s | N 2 38' 58.1" | Sex | -12.8 | 99.0 | 370396 | 19:30 | 07:06 |
| 20 | 11h29m15.90s | S 2 57' 21.8" | Leo | -12.8 | 95.8 | 368369 | 21:03 | 07:16 |
| 21 | 12h22m21.95s | S 8 29' 24.8" | Vir | -12.7 | 90.0 | 367478 | 22:38 | 07:26 |
| 22 | 13h17m02.59s | S13 36' 54.8" | Vir | -12.5 | 82.1 | 367649 | --:-- | 07:39 |
| 23 | 14h13m44.89s | S17 59' 47.2" | Vir | -12.3 | 72.5 | 368718 | 00:14 | 07:56 |
| 24 | 15h12m32.07s | S21 19' 41.1" | Lib | -12.0 | 61.8 | 370474 | 01:46 | 08:22 |
| 25 | 16h12m54.08s | S23 22' 05.9" | Sco | -11.6 | 50.5 | 372709 | 03:09 | 09:02 |
| 26 | 17h13m48.27s | S23 58' 42.6" | Oph | -11.2 | 39.3 | 375246 | 04:14 | 10:01 |
| 27 | 18h13m55.08s | S23 09' 02.9" | Sgr | -10.6 | 28.8 | 377969 | 04:58 | 11:17 |
| 28 | 19h12m02.96s | S21 00' 22.9" | Sgr | -10.0 | 19.5 | 380814 | 05:26 | 12:44 |

ЛУНА 2030 ($\varphi=56^\circ$, $\lambda=0^\circ$)
МАРТ

| д | α (2000.0) | δ (2000.0) | созв | блеск | фаза | расст | восход | заход |
|----|-------------------|-------------------|------|-------|------|--------|--------|-------|
| 1 | 20h07m28.39s | S17 45' 45.6" | Cap | -9.1 | 11.7 | 355485 | 05:45 | 14:13 |
| 2 | 21h00m01.55s | S13 41' 13.9" | Aqr | -7.9 | 5.8 | 355744 | 05:58 | 15:41 |
| 3 | 21h49m59.87s | S 9 03' 26.0" | Cap | -6.1 | 1.9 | 357984 | 06:08 | 17:06 |
| 4 | 22h37m57.35s | S 4 08' 06.1" | Aqr | -2.6 | 0.2 | 361906 | 06:17 | 18:29 |
| 5 | 23h24m35.25s | S 0 50' 33.7" | Psc | -4.3 | 0.6 | 367067 | 06:25 | 19:50 |
| 6 | 0h10m35.84s | N 5 40' 01.4" | Psc | -6.8 | 3.1 | 372962 | 06:34 | 21:10 |
| 7 | 0h56m38.51s | N10 09' 14.5" | Psc | -8.2 | 7.2 | 379109 | 06:43 | 22:29 |
| 8 | 1h43m17.07s | N14 08' 24.7" | Psc | -9.2 | 13.0 | 385104 | 06:55 | 23:46 |
| 9 | 2h30m57.24s | N17 28' 42.5" | Ari | -9.9 | 20.0 | 390649 | 07:12 | --:-- |
| 10 | 3h19m54.09s | N20 02' 09.1" | Ari | -10.4 | 28.0 | 395552 | 07:35 | 01:00 |
| 11 | 4h10m09.92s | N21 41' 41.1" | Tau | -10.9 | 36.8 | 399715 | 08:08 | 02:07 |
| 12 | 5h01m33.73s | N22 21' 31.7" | Tau | -11.3 | 46.2 | 403105 | 08:55 | 03:02 |
| 13 | 5h53m43.81s | N21 57' 41.5" | Ori | -11.6 | 55.8 | 405731 | 09:56 | 03:44 |
| 14 | 6h46m13.76s | N20 28' 33.2" | Gem | -11.9 | 65.4 | 407617 | 11:09 | 04:14 |
| 15 | 7h38m40.43s | N17 55' 17.2" | Gem | -12.2 | 74.6 | 408778 | 12:31 | 04:36 |
| 16 | 8h30m51.26s | N14 22' 10.5" | Cnc | -12.4 | 83.1 | 409212 | 13:57 | 04:51 |
| 17 | 9h22m48.50s | N 9 56' 49.6" | Leo | -12.6 | 90.3 | 408885 | 15:27 | 05:03 |
| 18 | 10h14m49.86s | N 4 50' 26.0" | Sex | -12.7 | 95.8 | 407743 | 16:58 | 05:14 |
| 19 | 11h07m25.87s | S 0 42' 01.5" | Leo | -12.8 | 99.0 | 405716 | 18:32 | 05:23 |
| 20 | 12h01m14.78s | S 6 21' 50.0" | Vir | -12.9 | 99.6 | 402745 | 20:09 | 05:34 |
| 21 | 12h56m54.55s | S11 47' 08.1" | Vir | -12.8 | 97.5 | 398798 | 21:47 | 05:46 |
| 22 | 13h54m51.35s | S16 34' 26.3" | Vir | -12.7 | 92.5 | 393903 | 23:24 | 06:03 |
| 23 | 14h55m05.47s | S20 21' 10.9" | Lib | -12.6 | 85.2 | 388166 | --:-- | 06:26 |
| 24 | 15h56m59.88s | S22 49' 11.1" | Sco | -12.3 | 75.9 | 381794 | 00:53 | 07:03 |
| 25 | 16h59m21.26s | S23 48' 06.4" | Oph | -12.0 | 65.4 | 375112 | 02:05 | 07:57 |
| 26 | 18h00m39.36s | S23 17' 18.7" | Sgr | -11.7 | 54.3 | 368554 | 02:56 | 09:09 |
| 27 | 18h59m36.36s | S21 25' 02.9" | Sgr | -11.3 | 43.2 | 362644 | 03:29 | 10:32 |
| 28 | 19h55m28.49s | S18 25' 24.5" | Sgr | -10.8 | 32.7 | 357932 | 03:51 | 12:00 |
| 29 | 20h48m09.92s | S14 34' 48.4" | Cap | -10.2 | 23.2 | 354917 | 04:05 | 13:26 |
| 30 | 21h38m03.61s | S10 09' 25.4" | Cap | -9.5 | 15.1 | 353943 | 04:17 | 14:50 |
| 31 | 22h25m48.60s | S 5 24' 02.1" | Aqr | -8.5 | 8.5 | 355132 | 04:26 | 16:12 |

**ЛУНА 2030 ($\phi=56^\circ$, $\lambda=0^\circ$)
АВГУСТ**

| д | α (2000.0) | δ (2000.0) | созв | блеск | фаза | расст | восход | заход |
|----|-------------------|-------------------|------|-------|------|--------|--------|-------|
| 1 | 9h48m02.72s | N 7 13' 22.7" | Leo | -6.7 | 2.8 | 390530 | 06:38 | 20:15 |
| 2 | 10h36m27.07s | N 2 23' 21.1" | Sex | -8.2 | 7.2 | 387356 | 08:02 | 20:25 |
| 3 | 11h25m11.22s | S 2 39' 50.0" | Leo | -9.3 | 13.5 | 384190 | 09:28 | 20:35 |
| 4 | 12h14m59.29s | S 7 42' 28.7" | Vir | -10.1 | 21.7 | 381056 | 10:56 | 20:47 |
| 5 | 13h06m37.80s | S12 29' 33.8" | Vir | -10.7 | 31.4 | 377978 | 12:26 | 21:02 |
| 6 | 14h00m48.01s | S16 44' 36.2" | Vir | -11.2 | 42.1 | 375005 | 13:57 | 21:23 |
| 7 | 14h57m54.60s | S20 09' 57.0" | Lib | -11.6 | 53.4 | 372231 | 15:24 | 21:55 |
| 8 | 15h57m51.71s | S22 28' 09.4" | Sco | -12.0 | 64.6 | 369806 | 16:40 | 22:44 |
| 9 | 16h59m52.63s | S23 24' 47.1" | Oph | -12.3 | 75.2 | 367930 | 17:39 | 23:52 |
| 10 | 18h02m33.99s | S22 52' 06.1" | Sgr | -12.5 | 84.5 | 366828 | 18:18 | --:-- |
| 11 | 19h04m19.35s | S20 51' 53.1" | Sgr | -12.6 | 92.0 | 366710 | 18:45 | 01:17 |
| 12 | 20h03m50.89s | S17 35' 28.3" | Sgr | -12.7 | 97.1 | 367725 | 19:03 | 02:49 |
| 13 | 21h00m29.50s | S13 20' 56.7" | Aqr | -12.8 | 99.6 | 369919 | 19:16 | 04:22 |
| 14 | 21h54m15.20s | S 8 29' 09.8" | Cap | -12.8 | 99.5 | 373205 | 19:28 | 05:53 |
| 15 | 22h45m35.27s | S 3 20' 25.3" | Aqr | -12.7 | 96.9 | 377371 | 19:38 | 07:20 |
| 16 | 23h35m10.49s | N 1 47' 26.6" | Psc | -12.6 | 92.2 | 382098 | 19:48 | 08:45 |
| 17 | 0h23m44.91s | N 6 39' 41.5" | Psc | -12.4 | 85.7 | 387012 | 19:59 | 10:07 |
| 18 | 1h11m59.45s | N11 04' 27.3" | Psc | -12.2 | 77.9 | 391726 | 20:12 | 11:27 |
| 19 | 2h00m27.79s | N14 52' 11.8" | Ari | -12.0 | 69.2 | 395883 | 20:29 | 12:45 |
| 20 | 2h49m33.46s | N17 55' 08.1" | Ari | -11.7 | 59.9 | 399191 | 20:53 | 13:59 |
| 21 | 3h39m27.57s | N20 06' 52.5" | Tau | -11.4 | 50.4 | 401439 | 21:25 | 15:06 |
| 22 | 4h30m07.83s | N21 22' 22.7" | Tau | -11.0 | 40.9 | 402513 | 22:10 | 16:02 |
| 23 | 5h21m19.76s | N21 38' 12.4" | Tau | -10.6 | 31.8 | 402398 | 23:08 | 16:46 |
| 24 | 6h12m40.99s | N20 52' 57.3" | Ori | -10.1 | 23.3 | 401175 | --:-- | 17:18 |
| 25 | 7h03m47.86s | N19 07' 37.3" | Gem | -9.5 | 15.6 | 399004 | 00:17 | 17:41 |
| 26 | 7h54m22.55s | N16 25' 48.3" | Gem | -8.6 | 9.2 | 396110 | 01:33 | 17:59 |
| 27 | 8h44m18.39s | N12 53' 39.6" | Cnc | -7.4 | 4.3 | 392753 | 02:54 | 18:12 |
| 28 | 9h33m42.15s | N 8 39' 44.0" | Leo | -5.4 | 1.2 | 389204 | 04:18 | 18:24 |
| 29 | 10h22m53.55s | N 3 54' 45.7" | Sex | -2.8 | 0.3 | 385714 | 05:43 | 18:34 |
| 30 | 11h12m22.90s | S 1 08' 30.5" | Leo | -5.8 | 1.6 | 382488 | 07:10 | 18:45 |
| 31 | 12h02m47.48s | S 6 15' 29.3" | Vir | -7.8 | 5.3 | 379662 | 08:39 | 18:57 |

**ЛУНА 2030 ($\phi=56^\circ$, $\lambda=0^\circ$)
МАЙ**

| д | α (2000.0) | δ (2000.0) | созв | блеск | фаза | расст | восход | заход |
|----|-------------------|-------------------|------|-------|------|--------|--------|---------|
| 1 | 1h18m36.39s | N11 52' 42.8" | Psc | -6.4 | 2.4 | 404864 | 03:12 | 19:15 |
| 2 | 2h05m26.86s | N15 28' 40.7" | Ari | -3.4 | 0.4 | 406327 | 03:26 | 20:30 |
| 3 | 2h53m32.46s | N18 23' 19.6" | Ari | -1.9 | 0.2 | 407138 | 03:45 | 21:42 |
| 4 | 3h42m54.26s | N20 28' 39.0" | Tau | -5.8 | 1.7 | 407275 | 04:11 | 22:44 |
| 5 | 4h33m17.85s | N21 38' 12.5" | Tau | -7.6 | 5.0 | 406685 | 04:49 | 23:35 |
| 6 | 5h24m16.58s | N21 47' 51.6" | Tau | -8.7 | 9.9 | 405301 | 05:39 | --:-- |
| 7 | 6h15m18.70s | N20 56' 16.7" | Ori | -9.5 | 16.3 | 403052 | 06:42 | 00:13 |
| 8 | 7h05m56.71s | N19 04' 59.1" | Gem | -10.2 | 24.0 | 399883 | 07:55 | 00:40 |
| 9 | 7h55m55.61s | N16 17' 57.9" | Cnc | -10.7 | 32.9 | 395788 | 09:13 | 00:59 |
| 10 | 8h45m17.33s | N12 41' 03.3" | Cnc | -11.2 | 42.6 | 390826 | 10:35 | 01:14 |
| 11 | 9h34m21.32s | N 8 21' 33.4" | Leo | -11.6 | 52.9 | 385145 | 11:59 | 01:26 1 |
| 12 | 10h23m42.39s | N 3 28' 19.5" | Sex | -11.9 | 63.4 | 378999 | 13:26 | 01:36 1 |
| 13 | 11h14m07.42s | S 1 47' 33.6" | Leo | -12.2 | 73.6 | 372751 | 14:56 | 01:46 |
| 14 | 12h06m30.79s | S 7 11' 44.1" | Vir | -12.5 | 83.0 | 366861 | 16:30 | 01:56 |
| 15 | 13h01m46.79s | S12 25' 30.1" | Vir | -12.7 | 90.9 | 361841 | 18:08 | 02:09 |
| 16 | 14h00m36.05s | S17 05' 37.3" | Vir | -12.8 | 96.6 | 358187 | 19:47 | 02:26 |
| 17 | 15h03m04.72s | S20 46' 07.8" | Lib | -12.9 | 99.6 | 356295 | 21:19 | 02:52 |
| 18 | 16h08m22.87s | S23 03' 04.1" | Sco | -12.9 | 99.5 | 356382 | 22:33 | 03:32 |
| 19 | 17h14m41.09s | S23 41' 18.0" | Oph | -12.8 | 96.4 | 358437 | 23:24 | 04:33 |
| 20 | 18h19m41.70s | S22 39' 43.7" | Sgr | -12.6 | 90.5 | 362229 | 23:57 | 05:52 |
| 21 | 19h21m30.66s | S20 10' 57.4" | Sgr | -12.4 | 82.5 | 367351 | --:-- | 07:23 |
| 22 | 20h19m12.24s | S16 35' 42.1" | Cap | -12.2 | 73.0 | 373302 | 00:17 | 08:54 |
| 23 | 21h12m48.63s | S12 16' 11.2" | Aqr | -11.9 | 62.7 | 379572 | 00:32 | 10:23 |
| 24 | 22h02m59.27s | S 7 32' 00.8" | Aqr | -11.5 | 52.2 | 385708 | 00:43 | 11:47 |
| 25 | 22h50m39.87s | S 2 38' 55.4" | Aqr | -11.1 | 41.8 | 391353 | 00:52 | 13:09 |
| 26 | 23h36m49.06s | N 2 10' 42.5" | Psc | -10.7 | 32.1 | 396261 | 01:01 | 14:28 |
| 27 | 0h22m21.47s | N 6 46' 47.9" | Psc | -10.1 | 23.3 | 400289 | 01:10 | 15:46 |
| 28 | 1h08m04.27s | N11 00' 27.0" | Psc | -9.4 | 15.7 | 403385 | 01:20 | 17:03 |
| 29 | 1h54m34.45s | N14 43' 12.1" | Ari | -8.6 | 9.4 | 405562 | 01:33 | 18:19 |
| 30 | 2h42m16.03s | N17 46' 42.9" | Ari | -7.4 | 4.6 | 406873 | 01:50 | 19:32 |
| 31 | 3h31m17.18s | N20 03' 00.2" | Tau | -5.5 | 1.5 | 407391 | 02:14 | 20:38 |

ЛУНА 2030 ($\phi=56^\circ$, $\lambda=0^\circ$)
ИЮНЬ

| д | α (2000.0) | δ (2000.0) | созв | блеск | фаза | расст | восход | заход |
|----|-------------------|-------------------|------|-------|------|--------|--------|---------|
| 1 | 4h21m28.64s | N21 25' 08.6" | Tau | -0.5 | 0.1 | 407182 | 02:48 | 21:32 |
| 2 | 5h12m25.42s | N21 48' 12.4" | Tau | -3.7 | 0.5 | 406292 | 03:34 | 22:14 |
| 3 | 6h03m32.99s | N21 10' 06.1" | Ori | -6.5 | 2.7 | 404742 | 04:34 | 22:45 |
| 4 | 6h54m17.03s | N19 31' 56.6" | Gem | -8.0 | 6.7 | 402529 | 05:44 | 23:06 |
| 5 | 7h44m13.42s | N16 57' 49.8" | Gem | -9.1 | 12.4 | 399635 | 07:01 | 23:22 |
| 6 | 8h33m14.91s | N13 34' 08.8" | Cnc | -9.8 | 19.6 | 396046 | 08:21 | 23:34 |
| 7 | 9h21m33.11s | N 9 28' 46.8" | Cnc | -10.5 | 28.2 | 391776 | 09:43 | 23:44 |
| 8 | 10h09m36.87s | N 4 50' 39.0" | Sex | -11.0 | 37.9 | 386886 | 11:06 | 23:54 |
| 9 | 10h58m08.92s | S 0 10' 12.6" | Leo | -11.4 | 48.4 | 381515 | 12:32 | --:-- 1 |
| 10 | 11h48m02.09s | S 5 22' 01.4" | Vir | -11.8 | 59.3 | 375893 | 14:01 | 00:04 |
| 11 | 12h40m14.41s | S10 30' 13.1" | Vir | -12.1 | 70.1 | 370348 | 15:34 | 00:15 |
| 12 | 13h35m40.56s | S15 16' 27.2" | Vir | -12.4 | 80.1 | 365295 | 17:10 | 00:29 |
| 13 | 14h34m56.49s | S19 18' 30.5" | Lib | -12.6 | 88.7 | 361190 | 18:45 | 00:50 |
| 14 | 15h37m56.91s | S22 12' 16.4" | Lib | -12.8 | 95.2 | 358470 | 20:08 | 01:21 |
| 15 | 16h43m35.71s | S23 36' 44.1" | Oph | -12.8 | 99.1 | 357469 | 21:12 | 02:10 |
| 16 | 17h49m50.48s | S23 20' 45.4" | Sgr | -12.9 | 99.9 | 358352 | 21:54 | 03:21 |
| 17 | 18h54m22.52s | S21 27' 35.5" | Sgr | -12.8 | 97.8 | 361067 | 22:20 | 04:48 |
| 18 | 19h55m28.89s | S18 13' 29.5" | Sgr | -12.7 | 92.9 | 365360 | 22:38 | 06:23 |
| 19 | 20h52m28.79s | S14 01' 31.4" | Aqr | -12.5 | 85.8 | 370816 | 22:51 | 07:56 |
| 20 | 21h45m35.69s | S 9 15' 04.3" | Cap | -12.3 | 77.1 | 376934 | 23:01 | 09:25 |
| 21 | 22h35m34.73s | S 4 14' 05.5" | Aqr | -12.0 | 67.5 | 383211 | 23:10 | 10:50 |
| 22 | 23h23m23.16s | N 0 45' 48.2" | Psc | -11.7 | 57.4 | 389195 | 23:19 | 12:12 |
| 23 | 0h09m58.69s | N 5 32' 38.6" | Psc | -11.3 | 47.2 | 394530 | 23:29 | 13:32 |
| 24 | 0h56m13.67s | N 9 56' 53.8" | Psc | -10.9 | 37.5 | 398967 | 23:41 | 14:50 |
| 25 | 1h42m51.76s | N13 50' 20.5" | Psc | -10.4 | 28.4 | 402365 | 23:57 | 16:07 |
| 26 | 2h30m24.99s | N17 05' 17.5" | Ari | -9.8 | 20.2 | 404679 | --:-- | 17:21 |
| 27 | 3h19m10.78s | N19 34' 20.8" | Ari | -9.1 | 13.2 | 405944 | 00:18 | 18:29 |
| 28 | 4h09m09.31s | N21 10' 42.0" | Tau | -8.2 | 7.5 | 406247 | 00:48 | 19:28 |
| 29 | 5h00m03.43s | N21 48' 56.0" | Tau | -6.9 | 3.3 | 405710 | 01:30 | 20:15 |
| 30 | 5h51m22.63s | N21 25' 59.5" | Ori | -4.5 | 0.8 | 404461 | 02:25 | 20:49 |

ЛУНА 2030 ($\phi=56^\circ$, $\lambda=0^\circ$)
ИЮЛЬ

| д | α (2000.0) | δ (2000.0) | созв | блеск | фаза | расст | восход | заход |
|----|-------------------|-------------------|------|-------|-------|--------|--------|-------|
| 1 | 6h42m31.41s | N20 01' 55.0" | Gem | -0.8 | 0.1 | 402614 | 03:33 | 21:13 |
| 2 | 7h32m59.47s | N17 40' 02.7" | Gem | -5.4 | 1.3 | 400263 | 04:48 | 21:30 |
| 3 | 8h22m30.16s | N14 26' 35.5" | Cnc | -7.4 | 4.4 | 397468 | 06:08 | 21:44 |
| 4 | 9h11m04.71s | N10 29' 53.8" | Cnc | -8.6 | 9.4 | 394266 | 07:30 | 21:55 |
| 5 | 9h59m02.20s | N 5 59' 40.2" | Sex | -9.6 | 16.2 | 390678 | 08:52 | 22:04 |
| 6 | 10h46m56.83s | N 1 06' 33.7" | Sex | -10.3 | 24.6 | 386730 | 10:16 | 22:14 |
| 7 | 11h35m34.17s | S 3 57' 47.8" | Leo | -10.8 | 34.3 | 382476 | 11:42 | 22:24 |
| 8 | 12h25m46.87s | S 9 00' 17.9" | Vir | -11.3 | 44.9 | 378026 | 13:11 | 22:37 |
| 9 | 13h18m28.79s | S13 45' 37.0" | Vir | -11.7 | 56.1 | 373557 | 14:43 | 22:53 |
| 10 | 14h14m25.09s | S17 55' 40.8" | Vir | -12.1 | 67.2 | 369330 | 16:16 | 23:18 |
| 11 | 15h13m56.36s | S21 10' 08.0" | Lib | -12.3 | 77.6 | 365668 | 17:43 | 23:57 |
| 12 | 16h16m39.28s | S23 08' 45.6" | Sco | -12.5 | 86.6 | 362927 | 18:55 | --:-- |
| 13 | 17h21m16.22s | S23 36' 10.2" | Oph | -12.7 | 93.7 | 361442 | 19:47 | 00:55 |
| 14 | 18h25m50.14s | S22 27' 07.7" | Sgr | -12.8 | 98.2 | 361455 | 20:20 | 02:14 |
| 15 | 19h28m24.90s | S19 49' 06.1" | Sgr | -12.8 | 100.0 | 363067 | 20:42 | 03:46 |
| 16 | 20h27m44.73s | S15 59' 58.3" | Cap | -12.8 | 98.8 | 366200 | 20:58 | 05:21 |
| 17 | 21h23m27.60s | S11 22' 35.3" | Aqr | -12.7 | 95.0 | 370604 | 21:09 | 06:54 |
| 18 | 22h15m54.09s | S 6 19' 33.4" | Aqr | -12.5 | 89.1 | 375897 | 21:19 | 08:23 |
| 19 | 23h05m48.17s | S 1 10' 15.7" | Psc | -12.3 | 81.4 | 381628 | 21:29 | 09:48 |
| 20 | 23h54m01.90s | N 3 49' 54.8" | Psc | -12.1 | 72.6 | 387336 | 21:38 | 11:11 |
| 21 | 0h41m26.35s | N 8 29' 03.5" | Psc | -11.8 | 63.1 | 392609 | 21:50 | 12:31 |
| 22 | 1h28m46.53s | N12 37' 43.9" | Psc | -11.5 | 53.3 | 397114 | 22:04 | 13:49 |
| 23 | 2h16m38.12s | N16 08' 00.5" | Ari | -11.1 | 43.6 | 400616 | 22:23 | 15:05 |
| 24 | 3h05m24.58s | N18 52' 50.7" | Ari | -10.7 | 34.3 | 402986 | 22:49 | 16:16 |
| 25 | 3h55m14.46s | N20 45' 55.0" | Tau | -10.2 | 25.6 | 404193 | 23:26 | 17:19 |
| 26 | 4h46m00.32s | N21 41' 56.3" | Tau | -9.6 | 17.8 | 404292 | --:-- | 18:11 |
| 27 | 5h37m20.54s | N21 37' 21.9" | Tau | -8.9 | 11.1 | 403410 | 00:17 | 18:49 |
| 28 | 6h28m45.25s | N20 31' 10.4" | Gem | -7.8 | 5.9 | 401717 | 01:20 | 19:17 |
| 29 | 7h19m44.97s | N18 25' 21.1" | Gem | -6.2 | 2.2 | 399405 | 02:33 | 19:37 |
| 30 | 8h09m59.14s | N15 24' 57.1" | Cnc | -3.3 | 0.4 | 396664 | 03:53 | 19:52 |
| 31 | 8h59m21.69s | N11 37' 41.6" | Cnc | -3.9 | 0.5 | 393662 | 05:15 | 20:04 |

ЛУНА 2030 ($\phi=56^\circ$, $\lambda=0^\circ$)
ДЕКАБРЬ

| д | α (2000.0) | δ (2000.0) | созв | блеск | фаза | расст | восход | заход |
|----|-------------------|-------------------|------|-------|-------|--------|--------|---------|
| 1 | 21h45m45.42s | S 8 35' 21.6" | Cap | -11.2 | 39.2 | 378378 | 12:10 | 23:34 |
| 2 | 22h36m00.76s | S 3 45' 11.7" | Aqr | -11.5 | 49.9 | 382963 | 12:21 | --:-- 1 |
| 3 | 23h24m28.17s | N 1 06' 04.8" | Psc | -11.8 | 60.4 | 387221 | 12:32 | 00:57 |
| 4 | 0h12m01.32s | N 5 46' 22.2" | Psc | -12.1 | 70.1 | 390966 | 12:43 | 02:17 |
| 5 | 0h59m28.07s | N10 05' 19.5" | Psc | -12.3 | 78.8 | 394105 | 12:56 | 03:36 |
| 6 | 1h47m26.54s | N13 53' 34.5" | Ari | -12.4 | 86.3 | 396620 | 13:12 | 04:53 |
| 7 | 2h36m21.49s | N17 02' 20.7" | Ari | -12.5 | 92.2 | 398542 | 13:33 | 06:08 |
| 8 | 3h26m21.20s | N19 23' 35.6" | Tau | -12.6 | 96.6 | 399929 | 14:02 | 07:17 |
| 9 | 4h17m16.01s | N20 50' 39.7" | Tau | -12.7 | 99.2 | 400839 | 14:41 | 08:18 |
| 10 | 5h08m40.36s | N21 19' 10.5" | Tau | -12.7 | 100.0 | 401311 | 15:32 | 09:08 |
| 11 | 5h59m59.61s | N20 47' 48.8" | Ori | -12.7 | 99.0 | 401349 | 16:34 | 09:45 |
| 12 | 6h50m39.81s | N19 18' 32.3" | Gem | -12.6 | 96.2 | 400921 | 17:44 | 10:13 |
| 13 | 7h40m17.32s | N16 56' 12.1" | Gem | -12.5 | 91.7 | 399963 | 18:58 | 10:33 |
| 14 | 8h28m44.75s | N13 47' 41.5" | Cnc | -12.4 | 85.6 | 398394 | 20:14 | 10:49 |
| 15 | 9h16m12.50s | N10 01' 02.2" | Cnc | -12.2 | 78.1 | 396138 | 21:32 | 11:02 |
| 16 | 10h03m06.83s | N 5 44' 46.5" | Sex | -12.0 | 69.4 | 393150 | 22:52 | 11:13 |
| 17 | 10h50m06.62s | N 1 07' 51.3" | Sex | -11.8 | 59.8 | 389440 | --:-- | 11:23 |
| 18 | 11h37m59.95s | S 3 39' 57.0" | Vir | -11.5 | 49.5 | 385097 | 00:13 | 11:34 |
| 19 | 12h27m40.65s | S 8 27' 12.1" | Vir | -11.1 | 38.9 | 380306 | 01:38 | 11:47 |
| 20 | 13h20m02.96s | S12 59' 46.6" | Vir | -10.6 | 28.5 | 375359 | 03:06 | 12:03 |
| 21 | 14h15m51.84s | S17 00' 09.8" | Vir | -10.0 | 18.9 | 370637 | 04:38 | 12:25 |
| 22 | 15h15m26.65s | S20 07' 55.1" | Lib | -9.1 | 10.6 | 366575 | 06:08 | 12:58 |
| 23 | 16h18m21.54s | S22 02' 17.1" | Sco | -7.6 | 4.4 | 363607 | 07:29 | 13:49 |
| 24 | 17h23m15.27s | S22 27' 19.8" | Oph | -4.9 | 0.8 | 362083 | 08:31 | 15:01 |
| 25 | 18h28m07.51s | S21 17' 39.0" | Sgr | -2.0 | 0.1 | 362207 | 09:15 | 16:29 |
| 26 | 19h31m00.55s | S18 40' 56.9" | Sgr | -6.7 | 2.5 | 363988 | 09:43 | 18:04 |
| 27 | 20h30m38.97s | S14 55' 24.3" | Cap | -8.5 | 7.5 | 367237 | 10:03 | 19:39 |
| 28 | 21h26m42.21s | S10 23' 51.7" | Cap | -9.6 | 14.7 | 371604 | 10:18 | 21:10 |
| 29 | 22h19m32.46s | S 5 28' 30.1" | Aqr | -10.3 | 23.6 | 376645 | 10:30 | 22:37 |
| 30 | 23h09m54.99s | S 0 28' 03.1" | Psc | -10.9 | 33.4 | 381895 | 10:41 | --:-- 1 |
| 31 | 23h58m42.70s | N 4 22' 43.9" | Psc | -11.3 | 43.7 | 386939 | 10:52 | 00:00 |

ЛУНА 2030 ($\phi=56^\circ$, $\lambda=0^\circ$)
СЕНТЯБРЬ

| д | α (2000.0) | δ (2000.0) | созв | блеск | фаза | расст | восход | заход |
|----|-------------------|-------------------|------|-------|------|--------|--------|-------|
| 1 | 12h54m46.56s | S11 09' 58.7" | Vir | -9.0 | 11.2 | 377301 | 10:09 | 19:11 |
| 2 | 13h48m54.30s | S15 34' 35.3" | Vir | -9.9 | 19.1 | 375406 | 11:41 | 19:31 |
| 3 | 14h45m30.00s | S19 11' 33.6" | Lib | -10.6 | 28.7 | 373941 | 13:09 | 20:00 |
| 4 | 15h44m27.08s | S21 44' 17.7" | Lib | -11.1 | 39.5 | 372860 | 14:28 | 20:42 |
| 5 | 16h45m05.86s | S22 59' 39.1" | Oph | -11.6 | 50.8 | 372135 | 15:32 | 21:43 |
| 6 | 17h46m17.63s | S22 50' 34.3" | Sgr | -11.9 | 62.0 | 371779 | 16:17 | 23:00 |
| 7 | 18h46m43.02s | S21 17' 51.4" | Sgr | -12.2 | 72.7 | 371847 | 16:47 | --:-- |
| 8 | 19h45m16.36s | S18 30' 04.6" | Sgr | -12.4 | 82.1 | 372426 | 17:08 | 00:27 |
| 9 | 20h41m22.37s | S14 41' 36.3" | Cap | -12.6 | 89.9 | 373612 | 17:23 | 01:57 |
| 10 | 21h34m58.29s | S10 09' 53.2" | Cap | -12.7 | 95.5 | 375475 | 17:35 | 03:27 |
| 11 | 22h26m25.68s | S 5 13' 03.5" | Aqr | -12.7 | 98.9 | 378026 | 17:46 | 04:54 |
| 12 | 23h16m19.37s | S 0 08' 23.4" | Psc | -12.7 | 99.9 | 381198 | 17:56 | 06:19 |
| 13 | 0h05m18.33s | N 4 48' 31.5" | Psc | -12.7 | 98.6 | 384833 | 18:07 | 07:42 |
| 14 | 0h53m59.26s | N 9 24' 06.3" | Psc | -12.6 | 95.2 | 388699 | 18:20 | 09:04 |
| 15 | 1h42m52.31s | N13 26' 49.9" | Psc | -12.5 | 90.0 | 392513 | 18:36 | 10:23 |
| 16 | 2h32m17.96s | N16 47' 12.6" | Ari | -12.3 | 83.3 | 395972 | 18:57 | 11:39 |
| 17 | 3h22m24.96s | N19 17' 41.9" | Ari | -12.1 | 75.5 | 398789 | 19:26 | 12:49 |
| 18 | 4h13m09.71s | N20 52' 43.6" | Tau | -11.9 | 66.8 | 400716 | 20:05 | 13:50 |
| 19 | 5h04m18.01s | N21 28' 47.1" | Tau | -11.6 | 57.6 | 401572 | 20:57 | 14:39 |
| 20 | 5h55m29.43s | N21 04' 32.4" | Ori | -11.3 | 48.1 | 401262 | 22:01 | 15:15 |
| 21 | 6h46m23.61s | N19 40' 50.9" | Gem | -11.0 | 38.7 | 399785 | 23:13 | 15:42 |
| 22 | 7h36m46.46s | N17 20' 40.1" | Gem | -10.5 | 29.4 | 397241 | --:-- | 16:02 |
| 23 | 8h26m34.61s | N14 08' 54.0" | Cnc | -10.0 | 20.9 | 393823 | 00:32 | 16:17 |
| 24 | 9h15m57.16s | N10 12' 20.0" | Cnc | -9.3 | 13.3 | 389805 | 01:53 | 16:30 |
| 25 | 10h05m15.11s | N 5 39' 46.5" | Sex | -8.2 | 7.0 | 385515 | 03:17 | 16:41 |
| 26 | 10h54m59.22s | N 0 42' 20.1" | Leo | -6.7 | 2.6 | 381308 | 04:44 | 16:52 |
| 27 | 11h45m46.70s | S 4 26' 15.2" | Vir | -3.7 | 0.4 | 377520 | 06:13 | 17:04 |
| 28 | 12h38m16.32s | S 9 29' 31.2" | Vir | -4.5 | 0.7 | 374425 | 07:45 | 17:18 |
| 29 | 13h33m01.06s | S14 08' 38.9" | Vir | -7.2 | 3.5 | 372205 | 09:18 | 17:37 |
| 30 | 14h30m17.63s | S18 03' 41.9" | Lib | -8.7 | 8.9 | 370924 | 10:50 | 18:04 |

ЛУНА 2030 ($\phi=56^\circ$, $\lambda=0^\circ$)
ОКТЯБРЬ

| д | α (2000.0) | δ (2000.0) | созв | блеск | фаза | расст | восход | заход |
|----|-------------------|-------------------|------|-------|------|--------|--------|-------|
| 1 | 15h29m54.85s | S20 55' 51.2" | Lib | -9.7 | 16.5 | 370537 | 12:15 | 18:43 |
| 2 | 16h31m06.75s | S22 30' 29.9" | Oph | -10.5 | 25.9 | 370917 | 13:24 | 19:38 |
| 3 | 17h32m38.64s | S22 40' 10.5" | Oph | -11.0 | 36.6 | 371893 | 14:15 | 20:51 |
| 4 | 18h33m08.00s | S21 26' 03.2" | Sgr | -11.5 | 47.8 | 373296 | 14:49 | 22:15 |
| 5 | 19h31m29.89s | S18 57' 03.0" | Sgr | -11.8 | 59.0 | 374987 | 15:13 | 23:43 |
| 6 | 20h27m12.64s | S15 27' 13.6" | Cap | -12.1 | 69.6 | 376883 | 15:29 | --:-- |
| 7 | 21h20m18.05s | S11 12' 52.2" | Aqr | -12.3 | 79.1 | 378950 | 15:42 | 01:11 |
| 8 | 22h11m12.03s | S 6 30' 24.4" | Aqr | -12.5 | 87.1 | 381192 | 15:54 | 02:36 |
| 9 | 23h00m33.06s | S 1 35' 22.1" | Psc | -12.6 | 93.4 | 383629 | 16:04 | 04:00 |
| 10 | 23h49m03.13s | N 3 17' 53.6" | Psc | -12.7 | 97.6 | 386265 | 16:15 | 05:22 |
| 11 | 0h37m21.28s | N 7 56' 11.2" | Psc | -12.7 | 99.7 | 389066 | 16:27 | 06:43 |
| 12 | 1h25m59.26s | N12 07' 27.6" | Psc | -12.7 | 99.7 | 391946 | 16:42 | 08:03 |
| 13 | 2h15m18.06s | N15 40' 59.0" | Ari | -12.6 | 97.7 | 394765 | 17:01 | 09:20 |
| 14 | 3h05m25.53s | N18 27' 41.6" | Ari | -12.5 | 93.8 | 397336 | 17:27 | 10:33 |
| 15 | 3h56m15.51s | N20 20' 37.8" | Tau | -12.4 | 88.4 | 399446 | 18:03 | 11:37 |
| 16 | 4h47m29.79s | N21 15' 20.3" | Tau | -12.3 | 81.6 | 400878 | 18:50 | 12:30 |
| 17 | 5h38m43.22s | N21 10' 04.6" | Tau | -12.1 | 73.7 | 401435 | 19:49 | 13:12 |
| 18 | 6h29m31.12s | N20 05' 43.3" | Gem | -11.9 | 65.0 | 400969 | 20:57 | 13:42 |
| 19 | 7h19m36.64s | N18 05' 23.1" | Gem | -11.6 | 55.6 | 399400 | 22:11 | 14:04 |
| 20 | 8h08m55.67s | N15 13' 52.6" | Cnc | -11.3 | 45.9 | 396737 | 23:29 | 14:21 |
| 21 | 8h57m38.51s | N11 37' 17.0" | Cnc | -10.9 | 36.2 | 393091 | --:-- | 14:35 |
| 22 | 9h46m08.79s | N 7 22' 52.7" | Leo | -10.4 | 26.7 | 388673 | 00:50 | 14:47 |
| 23 | 10h35m01.04s | N 2 39' 28.9" | Sex | -9.8 | 18.0 | 383793 | 02:14 | 14:58 |
| 24 | 11h24m57.56s | S 2 21' 49.5" | Leo | -8.9 | 10.5 | 378836 | 03:41 | 15:09 |
| 25 | 12h16m44.16s | S 7 26' 54.7" | Vir | -7.7 | 4.7 | 374224 | 05:11 | 15:23 |
| 26 | 13h11m03.35s | S12 18' 04.6" | Vir | -5.3 | 1.1 | 370366 | 06:45 | 15:40 |
| 27 | 14h08m23.22s | S16 34' 28.3" | Vir | -1.9 | 0.1 | 367600 | 08:20 | 16:03 |
| 28 | 15h08m42.35s | S19 54' 05.2" | Lib | -6.3 | 2.0 | 366134 | 09:51 | 16:38 |
| 29 | 16h11m16.63s | S21 57' 35.8" | Sco | -8.3 | 6.6 | 366023 | 11:10 | 17:29 |
| 30 | 17h14m40.31s | S22 33' 04.9" | Oph | -9.5 | 13.7 | 367161 | 12:09 | 18:38 |
| 31 | 18h17m09.17s | S21 39' 15.5" | Sgr | -10.3 | 22.7 | 369318 | 12:50 | 20:01 |

ЛУНА 2030 ($\phi=56^\circ$, $\lambda=0^\circ$)
НОЯБРЬ

| д | α (2000.0) | δ (2000.0) | созв | блеск | фаза | расст | восход | заход |
|----|-------------------|-------------------|------|-------|-------|--------|--------|-------|
| 1 | 19h17m15.75s | S19 25' 07.3" | Sgr | -10.9 | 33.0 | 372195 | 13:17 | 21:30 |
| 2 | 20h14m13.84s | S16 06' 21.2" | Cap | -11.3 | 44.0 | 375480 | 13:36 | 22:58 |
| 3 | 21h08m00.84s | S12 00' 58.4" | Aqr | -11.7 | 55.0 | 378900 | 13:50 | --:-- |
| 4 | 21h59m05.22s | S 7 26' 18.8" | Aqr | -12.0 | 65.6 | 382255 | 14:02 | 00:24 |
| 5 | 22h48m11.54s | S 2 37' 47.4" | Aqr | -12.2 | 75.2 | 385419 | 14:12 | 01:47 |
| 6 | 23h36m09.07s | N 2 11' 08.0" | Psc | -12.4 | 83.6 | 388338 | 14:23 | 03:09 |
| 7 | 0h23m44.53s | N 6 48' 27.1" | Psc | -12.5 | 90.4 | 391003 | 14:35 | 04:29 |
| 8 | 1h11m37.42s | N11 03' 05.2" | Psc | -12.6 | 95.5 | 393431 | 14:49 | 05:48 |
| 9 | 2h00m16.14s | N14 44' 38.6" | Ari | -12.7 | 98.7 | 395631 | 15:06 | 07:05 |
| 10 | 2h49m54.73s | N17 43' 34.4" | Ari | -12.7 | 100.0 | 397593 | 15:30 | 08:19 |
| 11 | 3h40m30.73s | N19 51' 45.3" | Tau | -12.7 | 99.4 | 399265 | 16:02 | 09:26 |
| 12 | 4h31m45.82s | N21 03' 17.1" | Tau | -12.6 | 96.9 | 400560 | 16:45 | 10:24 |
| 13 | 5h23m10.43s | N21 15' 09.2" | Tau | -12.5 | 92.8 | 401353 | 17:40 | 11:09 |
| 14 | 6h14m12.02s | N20 27' 30.4" | Ori | -12.4 | 87.1 | 401502 | 18:44 | 11:43 |
| 15 | 7h04m24.44s | N18 43' 21.7" | Gem | -12.2 | 80.1 | 400863 | 19:56 | 12:08 |
| 16 | 7h53m35.12s | N16 07' 54.1" | Gem | -12.1 | 71.9 | 399323 | 21:11 | 12:26 |
| 17 | 8h41m48.28s | N12 47' 38.7" | Cnc | -11.8 | 62.8 | 396817 | 22:29 | 12:41 |
| 18 | 9h29m24.33s | N 8 49' 52.6" | Leo | -11.6 | 53.1 | 393359 | 23:49 | 12:53 |
| 19 | 10h16m57.20s | N 4 22' 31.6" | Sex | -11.2 | 43.0 | 389054 | --:-- | 13:04 |
| 20 | 11h05m11.12s | S 0 25' 22.0" | Leo | -10.8 | 32.9 | 384116 | 01:12 | 13:15 |
| 21 | 11h54m57.18s | S 5 22' 46.1" | Vir | -10.3 | 23.2 | 378861 | 02:37 | 13:27 |
| 22 | 12h47m08.48s | S10 15' 33.9" | Vir | -9.5 | 14.5 | 373697 | 04:07 | 13:42 |
| 23 | 13h42m31.50s | S14 45' 47.4" | Vir | -8.4 | 7.4 | 369081 | 05:41 | 14:01 |
| 24 | 14h41m31.42s | S18 31' 57.0" | Lib | -6.6 | 2.4 | 365462 | 07:15 | 14:29 |
| 25 | 15h43m52.81s | S21 11' 28.7" | Lib | -1.8 | 0.1 | 363208 | 08:43 | 15:12 |
| 26 | 16h48m26.31s | S22 25' 41.9" | Oph | -4.8 | 0.8 | 362540 | 09:54 | 16:15 |
| 27 | 17h53m18.09s | S22 05' 40.8" | Sgr | -7.6 | 4.4 | 363490 | 10:45 | 17:36 |
| 28 | 18h56m27.14s | S20 15' 24.8" | Sgr | -9.1 | 10.6 | 365898 | 11:19 | 19:06 |
| 29 | 19h56m27.72s | S17 09' 53.2" | Sgr | -10.0 | 18.9 | 369453 | 11:41 | 20:38 |
| 30 | 20h52m48.68s | S13 09' 37.1" | Aqr | -10.7 | 28.7 | 373751 | 11:57 | 22:08 |

ЛУНА

Фазы Луны в 2030 году (UT)

| Новолуние | Первая четверть | Полнолуние | Последняя чет. |
|----------------|-----------------|----------------|----------------|
| Jan 4 02:50 | Jan 11 14:05 | Jan 19 15:55 | Jan 26 18:14 |
| Feb 2 16:08 | Feb 10 11:50 | Feb 18 06:21 | Feb 25 01:58 |
| Mar 4 06:35 | Mar 12 08:47 | Mar 19 17:57 | Mar 26 09:51 |
| Apr 2 22:03 | Apr 11 02:56 | Apr 18 03:20 | Apr 24 18:39 |
| May 2 14:12 | May 10 17:11 | May 17 11:18 | May 24 04:57 |
| Jun 1 06:21 A | Jun 9 03:34 | Jun 15 18:40 P | Jun 22 17:19 |
| Jun 30 21:33 | Jul 8 11:00 | Jul 15 02:10 | Jul 22 08:07 |
| Jul 30 11:10 | Aug 6 16:42 | Aug 13 10:43 | Aug 21 01:15 |
| Aug 28 23:06 | Sep 4 21:55 | Sep 11 21:16 | Sep 19 19:56 |
| Sep 27 09:53 | Oct 4 03:56 | Oct 11 10:45 | Oct 19 14:50 |
| Oct 26 20:16 | Nov 2 11:56 | Nov 10 03:30 | Nov 18 08:32 |
| Nov 25 06:46 T | Dec 1 22:57 | Dec 9 22:41 n | Dec 18 00:01 |
| Dec 24 17:32 | Dec 31 13:36 | | |

Данные с сайта <http://sunearth.gsfc.nasa.gov>. Отмечены даты солнечных и лунных затмений.
A - кольцеобразное солнечное, T - полное солнечное, P - частное лунное, n - полутеневое лунное.

Луна в перигее и апогее (UT)

Данные <http://astropixels.com>

| Перигей | | | Апогей | | | | |
|---------|-------|-----------------|--------|--------|-----------------|----------|-------|
| Дата | Время | Расстояние (км) | Дата | Время | Расстояние (км) | | |
| Jan 01 | 15:33 | 364250 | 0,02- | Jan 13 | 08:51 | 404647 | 0,67+ |
| Jan 28 | 16:03 | 369541 | 0,29- | Feb 10 | 06:06 | 404292 | 0,48+ |
| Feb 22 | 10:01 | 368405 | 0,79- | Mar 10 | 02:23 | 404748 | 0,29+ |
| Mar 21 | 22:00 | 362974 | 0,93- | Apr 06 | 18:47 | 405659 | 0,13+ |
| Apr 19 | 03:44 | 358706 | 0,98- | May 04 | 03:39 | 406364 | 0,02+ |
| May 17 | 13:45 | 357018 | 1,00 | May 31 | 06:14 | 406469 M | 0,01- |
| Jun 14 | 23:37 | 358183 | 0,99+ | Jun 27 | 14:14 | 405881 | 0,10- |
| Jul 13 | 05:12 | 361792 | 0,95+ | Jul 25 | 04:55 | 404891 | 0,24- |
| Aug 09 | 22:50 | 366742 | 0,84+ | Aug 21 | 22:49 | 404174 m | 0,41- |
| Sep 04 | 17:06 | 369884 M | 0,48+ | Sep 18 | 18:09 | 404258 | 0,60- |
| Sep 30 | 15:39 | 366348 | 0,14+ | Oct 16 | 13:21 | 405078 | 0,78- |
| Oct 28 | 12:07 | 361122 | 0,04+ | Nov 13 | 05:00 | 405993 | 0,92- |
| Nov 25 | 21:07 | 357521 | 0,01+ | Dec 10 | 10:03 | 406371 | 1,00 |
| Dec 24 | 10:09 | 356926 m | 0,00 | | | | |

Луна в восходящем и нисходящем узле орбиты (UT)

Данные Astronomy Lab 2.03

| Дата | Время | Узел | Фаза | Дата | Время | Узел | Фаза |
|------------|-------|------|-------|------------|-------|------|-------|
| 02.01.2030 | 20:30 | Вос | 0,02- | 16.01.2030 | 22:40 | Нис | 0,93+ |
| 30.01.2030 | 3:27 | Вос | 0,15- | 13.02.2030 | 4:06 | Нис | 0,75+ |
| 26.02.2030 | 5:22 | Вос | 0,37- | 12.03.2030 | 6:42 | Нис | 0,49+ |
| 25.03.2030 | 5:47 | Вос | 0,63- | 08.04.2030 | 8:28 | Нис | 0,25+ |
| 21.04.2030 | 9:45 | Вос | 0,85- | 05.05.2030 | 11:54 | Нис | 0,07+ |
| 18.05.2030 | 18:31 | Вос | 0,97- | 01.06.2030 | 17:29 | Нис | 0,00 |
| 15.06.2030 | 5:23 | Вос | 1,00 | 28.06.2030 | 23:49 | Нис | 0,03- |
| 12.07.2030 | 14:40 | Вос | 0,91+ | 26.07.2030 | 5:00 | Нис | 0,16- |
| 08.08.2030 | 19:43 | Вос | 0,74+ | 22.08.2030 | 8:08 | Нис | 0,38- |
| 04.09.2030 | 20:51 | Вос | 0,50+ | 18.09.2030 | 10:11 | Нис | 0,63- |
| 01.10.2030 | 21:59 | Вос | 0,25+ | 15.10.2030 | 13:19 | Нис | 0,85- |
| 29.10.2030 | 3:23 | Вос | 0,08+ | 11.11.2030 | 18:43 | Нис | 0,98- |
| 25.11.2030 | 13:30 | Вос | 0,00 | 09.12.2030 | 1:16 | Нис | 0,99+ |
| 23.12.2030 | 0:53 | Вос | 0,04- | | | | |

Конфигурации Земли, Луны и планет

с покрытиями звезд и планет Луной

(краткий астрономический календарь на 2030 год по Occult v4.0, время - UT)

| January | | February | |
|---------|-----------------------------|-----------|------------------------------|
| d | h | d | h |
| 1 15 | Moon at perigee | 19 15 | FULL MOON |
| 1 19 | Antares 3.2S of Moon | 19 21 | Saturn stationary |
| 2 8 | Moon furthest South (-23.5) | 21 23 | Regulus 5.2N of Moon |
| 3 9 | Earth at perihelion | 22 13 | Mercury greatest elong W(24) |
| 3 14 | Mercury 2.0N of Moon | 23 4 | Mercury 5.5S of Venus |
| 4 2 | NEW MOON | 25 20 | Spica 2.4N of Moon |
| 4 9 | Venus 2.1N of Moon | 26 18 | LAST QUARTER |
| 6 13 | Venus inferior conjunction | 26 21 | Venus stationary |
| 6 15 | Mars 5.3S of Moon | 28 0 | Jupiter 3.6N of Moon |
| 11 7 | Mercury stationary | 28 15 | Moon at perigee |
| 11 14 | FIRST QUARTER | 29 2 | Antares 3.3S of Moon |
| 13 8 | Moon at apogee | 29 16 | Moon furthest South (-23.4) |
| 13 20 | Saturn 5.4S of Moon | 29 21 | Pluto at conjunction |
| 16 2 | Uranus 0.9S of Moon | Occn 31 3 | Venus 5.2N of Moon |
| 16 8 | Moon furthest North (23.5) | 31 21 | Mercury 2.4S of Moon |

| March | | April | |
|-------|------------------------------|------------|------------------------------|
| d | h | d | h |
| 2 16 | NEW MOON | 18 7 | Regulus 5.1N of Moon |
| 4 19 | Mars 5.9S of Moon | 20 23 | Uranus stationary |
| 10 5 | Saturn 5.1S of Moon | 22 2 | Spica 2.3N of Moon |
| 10 6 | Moon at apogee | 22 10 | Moon at perigee |
| 10 11 | FIRST QUARTER | 24 10 | Jupiter 3.3N of Moon |
| 12 9 | Uranus 0.8S of Moon | Occn 25 1 | LAST QUARTER |
| 12 16 | Moon furthest North (23.4) | 25 8 | Antares 3.5S of Moon |
| 15 13 | Mercury 4.0N of Pluto | 25 21 | Moon furthest South (-23.3) |
| 18 6 | FULL MOON | 28 14 | Venus 1.3N of Moon |
| March | | April | |
| d | h | d | h |
| 4 6 | NEW MOON | 19 17 | FULL MOON |
| 5 22 | Mars 5.5S of Moon | 20 13 | Equinox |
| 9 16 | Saturn 4.6S of Moon | 20 15 | Mercury 1.4N of Neptune |
| 9 22 | Mercury superior conjunction | 21 10 | Spica 2.1N of Moon |
| 10 2 | Moon at apogee | 21 22 | Moon at perigee |
| 11 18 | Uranus 0.5S of Moon | Occn 23 17 | Jupiter 3.1N of Moon |
| 12 1 | Moon furthest North (23.2) | 24 14 | Antares 3.7S of Moon |
| 12 8 | FIRST QUARTER | 25 3 | Moon furthest South (-23.1) |
| 12 22 | Mars 0.9N of Neptune | 25 15 | Mercury 1.2N of Mars |
| 13 18 | Jupiter stationary | 26 9 | LAST QUARTER |
| 17 17 | Regulus 5.2N of Moon | 29 22 | Venus 3.6S of Moon |
| 18 2 | Venus greatest elong W(47) | 31 11 | Neptune at conjunction |
| April | | April | |
| d | h | d | h |
| 2 22 | NEW MOON | 14 3 | Regulus 5.3N of Moon |
| 4 0 | Mars 4.2S of Moon | 17 7 | Mercury 2.8N of Mars |
| 4 6 | Mercury greatest elong E(19) | 17 21 | Spica 2.0N of Moon |
| 4 14 | Mercury 0.9S of Moon | Occn 18 3 | FULL MOON |
| 6 5 | Saturn 4.1S of Moon | 19 3 | Moon at perigee |
| 6 18 | Moon at apogee | 19 22 | Jupiter 3.2N of Moon |
| 8 3 | Uranus 0.3S of Moon | Occn 20 22 | Antares 3.9S of Moon |
| 8 8 | Moon furthest North (23.0) | 21 11 | Moon furthest South (-22.9) |
| 11 2 | FIRST QUARTER | 23 11 | Mercury inferior conjunction |
| 13 7 | Mercury stationary | 24 18 | LAST QUARTER |

Краткий астрономический календарь на 2030 год по Occult v4.0, время - UT

| | | May | |
|-------|----------------------------|-------|------------------------------|
| d | h | d | h |
| 1 10 | Mercury 4.6S of Moon | 16 13 | Mars 2.0N of Saturn |
| 2 14 | NEW MOON | 17 4 | Jupiter 3.3N of Moon |
| 3 2 | Mars 2.4S of Moon | 17 11 | FULL MOON |
| 3 18 | Saturn 3.7S of Moon | 17 13 | Moon at perigee |
| 4 2 | Moon at apogee | 18 8 | Antares 4.0S of Moon |
| 5 12 | Uranus 0.0N of Moon | 18 21 | Moon furthest South (-22.8) |
| 5 14 | Moon furthest North (22.8) | 19 6 | Saturn at conjunction |
| 5 18 | Mercury stationary | 21 4 | Mercury greatest elong W(26) |
| 10 17 | FIRST QUARTER | 24 5 | LAST QUARTER |
| 11 11 | Regulus 5.5N of Moon | 25 10 | Mars at conjunction |
| 12 23 | Venus 0.3S of Neptune | 28 21 | Venus 5.7S of Moon |
| 13 11 | Jupiter at opposition | 30 2 | Mercury 5.6S of Moon |
| 15 7 | Spica 2.0N of Moon | 31 6 | Moon at apogee |
| 15 17 | Pluto stationary | 31 8 | Saturn 3.3S of Moon |

| | | June | | | |
|-------|-----------------------------|---------|------------------------------|------------------------|---------|
| d | h | d | h | | |
| 1 2 | Mars 0.3S of Moon | Occn | 15 18 | FULL MOON | Eclipse |
| 1 6 | NEW MOON | Eclipse | 18 0 | Mercury 0.1N of Uranus | |
| 1 20 | Moon furthest North (22.8) | 19 0 | Mercury 0.2S of Mars | | |
| 1 21 | Uranus 0.2N of Moon | Occn | 21 7 | Solstice | |
| 2 21 | Mars 5.8N of Aldebaran | 22 17 | LAST QUARTER | | |
| 7 18 | Regulus 5.5N of Moon | 24 7 | Mercury superior conjunction | | |
| 8 18 | Mercury 0.3N of Saturn | 24 23 | Venus 0.3N of Saturn | | |
| 9 3 | FIRST QUARTER | 27 14 | Moon at apogee | | |
| 9 10 | Uranus at conjunction | 27 21 | Saturn 3.0S of Moon | | |
| 11 17 | Spica 2.0N of Moon | 28 4 | Venus 2.3S of Moon | | |
| 13 10 | Jupiter 3.4N of Moon | 28 11 | Aldebaran 6.0S of Moon | | |
| 13 15 | Mercury 4.8N of Aldebaran | 29 3 | Moon furthest North (22.7) | | |
| 14 19 | Antares 4.0S of Moon | 29 6 | Uranus 0.4N of Moon | | |
| 14 23 | Moon at perigee | 30 1 | Mars 1.8N of Moon | | |
| 15 8 | Moon furthest South (-22.7) | 30 21 | NEW MOON | | |
| 15 13 | Mars 0.4N of Uranus | | | | |

| | | July | |
|-------|-----------------------------|-------|----------------------------|
| d | h | d | h |
| 1 1 | Venus 4.1N of Aldebaran | 15 11 | Jupiter stationary |
| 1 16 | Mercury 4.5N of Moon | 17 9 | Neptune stationary |
| 4 3 | Mercury 4.8S of Pollux | 22 8 | LAST QUARTER |
| 4 14 | Earth at aphelion | 25 5 | Moon at apogee |
| 5 0 | Regulus 5.5N of Moon | 25 10 | Saturn 2.7S of Moon |
| 8 10 | FIRST QUARTER | 25 18 | Aldebaran 5.9S of Moon |
| 9 0 | Spica 2.0N of Moon | 26 10 | Moon furthest North (22.6) |
| 9 13 | Venus 1.1S of Uranus | 26 16 | Uranus 0.6N of Moon |
| 10 16 | Jupiter 3.4N of Moon | 26 21 | Regulus 0.7S of Regulus |
| 12 5 | Antares 4.1S of Moon | 28 12 | Venus 2.2N of Moon |
| 12 18 | Moon furthest South (-22.7) | 28 22 | Mars 3.6N of Moon |
| 13 4 | Moon at perigee | 30 11 | NEW MOON |
| 15 2 | FULL MOON | | |

| | | August | |
|-------|------------------------------|--------|------------------------------|
| d | h | d | h |
| 1 5 | Regulus 5.4N of Moon | 17 8 | Neptune 5.9S of Moon |
| 1 17 | Mercury 3.7N of Moon | 21 1 | LAST QUARTER |
| 2 3 | Mercury greatest elong E(27) | 21 21 | Saturn 2.4S of Moon |
| 3 2 | Pluto at opposition | 21 22 | Moon at apogee |
| 5 6 | Spica 1.8N of Moon | 22 1 | Aldebaran 5.7S of Moon |
| 5 18 | Venus 0.7S of Mars | 22 18 | Moon furthest North (22.5) |
| 6 5 | Mars 5.8S of Pollux | 23 2 | Uranus 0.9N of Moon |
| 6 16 | FIRST QUARTER | 26 18 | Mars 5.1N of Moon |
| 7 0 | Jupiter 3.1N of Moon | 27 19 | Venus 5.6N of Moon |
| 8 12 | Antares 4.2S of Moon | 28 13 | Regulus 5.3N of Moon |
| 9 1 | Moon furthest South (-22.5) | 28 23 | NEW MOON |
| 9 22 | Moon at perigee | 29 1 | Mercury 0.7N of Moon |
| 13 10 | FULL MOON | 29 20 | Mercury inferior conjunction |
| 15 6 | Mercury stationary | | |

Краткий астрономический календарь на 2030 год по Occult v4.0, время - UT

| | | September | |
|-------|------------------------------|-----------|----------------------------|
| d | h | d | h |
| 1 11 | Spica 1.7N of Moon | 18 9 | Aldebaran 5.5S of Moon |
| 3 10 | Jupiter 2.6N of Moon | 18 17 | Moon at apogee |
| 4 16 | Moon at perigee | 19 2 | Moon furthest North (22.2) |
| 4 18 | Antares 4.4S of Moon | 19 11 | Uranus 1.2N of Moon |
| 4 19 | Venus 0.7N of Regulus | 19 19 | LAST QUARTER |
| 4 21 | FIRST QUARTER | 21 2 | Saturn stationary |
| 5 7 | Moon furthest South (-22.3) | 22 23 | Equinox |
| 5 21 | Mercury 3.4S of Venus | 24 22 | Regulus 5.4N of Moon |
| 7 12 | Mercury stationary | 27 9 | NEW MOON |
| 11 21 | FULL MOON | 28 8 | Uranus stationary |
| 13 16 | Neptune 5.8S of Moon | 28 19 | Spica 1.5N of Moon |
| 15 8 | Mercury greatest elong W(18) | 30 15 | Moon at perigee |
| 18 7 | Saturn 2.2S of Moon | 30 23 | Jupiter 2.0N of Moon |

| | | October | |
|-------|------------------------------|---------|-----------------------------|
| d | h | d | h |
| 1 23 | Antares 4.6S of Moon | 16 19 | Uranus 1.3N of Moon |
| 2 13 | Moon furthest South (-22.2) | 18 4 | Venus 3.2N of Spica |
| 2 19 | Mars 0.8N of Regulus | 19 14 | LAST QUARTER |
| 4 3 | FIRST QUARTER | 20 11 | Venus superior conjunction |
| 5 3 | Neptune at opposition | 22 7 | Regulus 5.6N of Moon |
| 7 13 | Merkury 0.1N of Venus | 24 2 | Pluto stationary |
| 10 22 | Neptune 5.8S of Moon | 26 5 | Spica 1.5N of Moon |
| 11 10 | FULL MOON | 26 20 | NEW MOON |
| 11 23 | Mercury superior conjunction | 26 23 | Venus 3.7N of Moon |
| 15 6 | Mercury 2.7N of Spica | 27 13 | Mercury 1.4N of Moon |
| 15 14 | Saturn 2.1S of Moon | 28 12 | Moon at perigee |
| 15 17 | Aldebaran 5.3S of Moon | 28 17 | Jupiter 1.3N of Moon |
| 16 9 | Moon furthest North (22.1) | 29 7 | Antares 4.7S of Moon |
| 16 12 | Moon at apogee | 29 20 | Moon furthest South (-22.1) |

| | | November | |
|-------|----------------------------|----------|------------------------------|
| d | h | d | h |
| 2 11 | FIRST QUARTER | 22 16 | Spica 1.5N of Moon |
| 7 3 | Neptune 5.9S of Moon | 23 19 | Venus 4.4N of Antares |
| 9 14 | Mercury 2.6S of Jupiter | 25 6 | NEW MOON |
| 10 3 | FULL MOON | 25 13 | Eclipse |
| 11 17 | Saturn 2.2S of Moon | 25 18 | Jupiter 0.6N of Moon |
| 12 0 | Aldebaran 5.2S of Moon | 25 21 | Occn |
| 12 16 | Moon furthest North (22.0) | 25 22 | Moon at perigee |
| 13 0 | Uranus 1.4N of Moon | 26 6 | Venus 0.7S of Moon |
| 13 4 | Moon at apogee | 26 19 | Moon furthest South (-22.0) |
| 14 2 | Mercury 2.3N of Antares | 26 20 | Mercury 4.0S of Moon |
| 18 8 | LAST QUARTER | 27 15 | Mercury greatest elong E(22) |
| 18 16 | Regulus 5.7N of Moon | 30 14 | Saturn at opposition |
| 20 15 | Venus 0.6S of Jupiter | | Jupiter at conjunction |

| | | December | |
|-------|------------------------------|----------|----------------------|
| d | h | d | h |
| 1 22 | FIRST QUARTER | 19 11 | Mars 5.7N of Moon |
| 4 8 | Neptune 6.0S of Moon | 20 2 | Spica 1.5N of Moon |
| 5 23 | Mercury stationary | 21 20 | Solstice |
| 8 11 | Jupiter 5.2N of Antares | 22 10 | Neptune stationary |
| 8 19 | Saturn 2.3S of Moon | 23 5 | Antares 4.9S of Moon |
| 9 7 | Aldebaran 5.2S of Moon | 23 10 | Jupiter 0.1S of Moon |
| 9 20 | Mercury 0.7N of Venus | 23 15 | Occn |
| 9 22 | FULL MOON | 23 18 | Mercury 2.1N of Moon |
| 9 23 | Moon furthest North (21.9) | 24 10 | Moon at perigee |
| 10 4 | Uranus 1.3N of Moon | 24 17 | NEW MOON |
| 10 10 | Moon at apogee | 25 21 | Venus 4.8S of Moon |
| 12 20 | Uranus at opposition | 26 1 | Mercury stationary |
| 15 19 | Mercury inferior conjunction | 31 13 | FIRST QUARTER |
| 15 23 | Regulus 5.7N of Moon | 31 15 | Neptune 5.9S of Moon |
| 18 0 | LAST QUARTER | | |

| ДАТА | Солнце | Меркурий | Венера | Марс | Юпитер | Сатурн | Уран | Нептун | | | | | | | | |
|-------------|--------|----------|--------|-------|--------|--------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| | Восх. | Заход | Восх. | Заход | Восх. | Заход | Восх. | Заход | Восх. | Заход | Восх. | Заход | Восх. | Заход | Восх. | Заход |
| 2030 Oct 2 | 6 5 | 17 37 | 5 13 | 17 38 | 5 33 | 17 39 | 2 4 | 16 52 | 10 48 | 19 1 | 19 32 | 12 3 | 20 1 | 13 33 | 17 39 | 6 29 |
| 2030 Oct 4 | 6 9 | 17 32 | 5 27 | 17 34 | 5 40 | 17 34 | 2 3 | 16 46 | 10 42 | 18 54 | 19 24 | 11 54 | 19 53 | 13 25 | 17 35 | 6 24 |
| 2030 Oct 6 | 6 13 | 17 27 | 5 42 | 17 30 | 5 47 | 17 30 | 2 3 | 16 40 | 10 37 | 18 47 | 19 16 | 11 46 | 19 45 | 13 17 | 17 27 | 6 16 |
| 2030 Oct 8 | 6 17 | 17 22 | 5 56 | 17 26 | 5 54 | 17 25 | 2 3 | 16 34 | 10 31 | 18 40 | 19 8 | 11 38 | 19 37 | 13 9 | 17 19 | 6 8 |
| 2030 Oct 10 | 6 22 | 17 17 | 6 10 | 17 21 | 6 2 | 17 20 | 2 2 | 16 28 | 10 25 | 18 33 | 19 0 | 11 30 | 19 29 | 13 1 | 17 11 | 6 0 |
| 2030 Oct 12 | 6 26 | 17 12 | 6 23 | 17 17 | 6 9 | 17 16 | 2 2 | 16 22 | 10 20 | 18 26 | 18 52 | 11 21 | 19 21 | 12 53 | 17 3 | 5 51 |
| 2030 Oct 14 | 6 30 | 17 6 | 6 37 | 17 13 | 6 16 | 17 11 | 2 2 | 16 16 | 10 14 | 18 19 | 18 44 | 11 13 | 19 13 | 12 45 | 16 55 | 5 43 |
| 2030 Oct 16 | 6 34 | 17 1 | 6 50 | 17 8 | 6 24 | 17 6 | 2 1 | 16 10 | 10 9 | 18 12 | 18 36 | 11 5 | 19 5 | 12 37 | 16 47 | 5 35 |
| 2030 Oct 18 | 6 38 | 16 56 | 7 4 | 17 4 | 6 31 | 17 2 | 2 1 | 16 3 | 10 3 | 18 5 | 18 28 | 10 56 | 18 57 | 12 29 | 16 39 | 5 27 |
| 2030 Oct 20 | 6 42 | 16 52 | 7 17 | 16 59 | 6 39 | 16 57 | 2 0 | 15 57 | 9 58 | 17 58 | 18 20 | 10 48 | 18 49 | 12 21 | 16 31 | 5 18 |
| 2030 Oct 22 | 6 46 | 16 47 | 7 30 | 16 55 | 6 46 | 16 53 | 2 0 | 15 51 | 9 52 | 17 51 | 18 11 | 10 39 | 18 41 | 12 13 | 16 23 | 5 10 |
| 2030 Oct 24 | 6 51 | 16 42 | 7 42 | 16 51 | 6 53 | 16 49 | 1 59 | 15 45 | 9 47 | 17 44 | 18 3 | 10 31 | 18 32 | 12 5 | 16 15 | 5 2 |
| 2030 Oct 26 | 6 55 | 16 37 | 7 55 | 16 47 | 7 1 | 16 45 | 1 59 | 15 39 | 9 41 | 17 37 | 17 55 | 10 22 | 18 24 | 11 57 | 16 7 | 4 54 |
| 2030 Oct 28 | 6 59 | 16 33 | 8 7 | 16 43 | 7 9 | 16 40 | 1 58 | 15 32 | 9 36 | 17 30 | 17 47 | 10 13 | 18 16 | 11 48 | 15 59 | 4 45 |
| 2030 Oct 30 | 7 3 | 16 28 | 8 20 | 16 39 | 7 16 | 16 36 | 1 57 | 15 26 | 9 30 | 17 23 | 17 38 | 10 5 | 18 8 | 11 40 | 15 51 | 4 37 |
| 2030 Nov 1 | 7 8 | 16 24 | 8 32 | 16 36 | 7 24 | 16 33 | 1 57 | 15 20 | 9 25 | 17 16 | 17 30 | 9 56 | 18 0 | 11 32 | 15 43 | 4 29 |
| 2030 Nov 3 | 7 12 | 16 19 | 8 44 | 16 32 | 7 31 | 16 29 | 1 56 | 15 14 | 9 19 | 17 10 | 17 22 | 9 48 | 17 52 | 11 24 | 15 35 | 4 21 |
| 2030 Nov 5 | 7 16 | 16 15 | 8 55 | 16 29 | 7 39 | 16 25 | 1 55 | 15 7 | 9 14 | 17 3 | 17 14 | 9 39 | 17 44 | 11 16 | 15 27 | 4 13 |
| 2030 Nov 7 | 7 20 | 16 11 | 9 7 | 16 27 | 7 46 | 16 22 | 1 55 | 15 1 | 9 9 | 16 56 | 17 5 | 9 30 | 17 36 | 11 8 | 15 19 | 4 5 |
| 2030 Nov 9 | 7 25 | 16 7 | 9 18 | 16 25 | 7 54 | 16 19 | 1 54 | 14 55 | 9 3 | 16 49 | 16 57 | 9 21 | 17 28 | 10 59 | 15 11 | 3 56 |
| 2030 Nov 11 | 7 29 | 16 3 | 9 28 | 16 23 | 8 1 | 16 16 | 1 53 | 14 49 | 8 58 | 16 43 | 16 49 | 9 13 | 17 19 | 10 51 | 15 3 | 3 48 |
| 2030 Nov 13 | 7 33 | 15 59 | 9 38 | 16 22 | 8 9 | 16 13 | 1 52 | 14 42 | 8 52 | 16 36 | 16 40 | 9 4 | 17 11 | 10 43 | 14 55 | 3 40 |
| 2030 Nov 15 | 7 37 | 15 56 | 9 47 | 16 21 | 8 16 | 16 11 | 1 52 | 14 36 | 8 47 | 16 29 | 16 32 | 8 55 | 17 3 | 10 35 | 14 47 | 3 32 |
| 2030 Nov 17 | 7 41 | 15 52 | 9 55 | 16 21 | 8 23 | 16 8 | 1 51 | 14 30 | 8 42 | 16 22 | 16 24 | 8 46 | 16 55 | 10 26 | 14 39 | 3 24 |
| 2030 Nov 19 | 7 45 | 15 49 | 10 3 | 16 21 | 8 31 | 16 6 | 1 50 | 14 23 | 8 36 | 16 16 | 16 15 | 8 38 | 16 47 | 10 18 | 14 31 | 3 16 |
| 2030 Nov 21 | 7 49 | 15 46 | 10 9 | 16 22 | 8 37 | 16 5 | 1 49 | 14 17 | 8 31 | 16 9 | 16 7 | 8 29 | 16 38 | 10 10 | 14 23 | 3 8 |
| 2030 Nov 23 | 7 53 | 15 43 | 10 14 | 16 23 | 8 44 | 16 3 | 1 48 | 14 11 | 8 26 | 16 2 | 15 58 | 8 20 | 16 30 | 10 2 | 14 16 | 2 59 |
| 2030 Nov 25 | 7 57 | 15 41 | 10 17 | 16 25 | 8 51 | 16 2 | 1 47 | 14 4 | 8 20 | 15 56 | 15 50 | 8 11 | 16 22 | 9 53 | 14 8 | 2 51 |
| 2030 Nov 27 | 8 1 | 15 38 | 10 19 | 16 26 | 8 57 | 16 2 | 1 46 | 13 58 | 8 15 | 15 49 | 15 46 | 8 6 | 16 14 | 9 45 | 14 0 | 2 43 |
| 2030 Nov 29 | 8 4 | 15 36 | 10 18 | 16 28 | 9 3 | 16 2 | 1 45 | 13 52 | 8 9 | 15 43 | 15 37 | 7 58 | 16 6 | 9 37 | 13 52 | 2 35 |
| 2030 Dec 1 | 8 8 | 15 34 | 10 15 | 16 29 | 9 9 | 16 2 | 1 44 | 13 45 | 8 4 | 15 36 | 15 29 | 7 49 | 15 57 | 9 28 | 13 44 | 2 27 |
| 2030 Dec 3 | 8 11 | 15 32 | 10 10 | 16 29 | 9 14 | 16 3 | 1 43 | 13 39 | 7 59 | 15 29 | 15 20 | 7 40 | 15 49 | 9 20 | 13 36 | 2 19 |
| 2030 Dec 5 | 8 14 | 15 31 | 10 1 | 16 28 | 9 19 | 16 4 | 1 42 | 13 33 | 7 53 | 15 23 | 15 12 | 7 31 | 15 41 | 9 12 | 13 28 | 2 11 |
| 2030 Dec 7 | 8 17 | 15 30 | 9 49 | 16 25 | 9 24 | 16 5 | 1 41 | 13 26 | 7 48 | 15 16 | 15 4 | 7 22 | 15 33 | 9 3 | 13 20 | 2 3 |
| 2030 Dec 9 | 8 20 | 15 29 | 9 33 | 16 19 | 9 28 | 16 7 | 1 39 | 13 20 | 7 42 | 15 10 | 14 55 | 7 14 | 15 24 | 8 55 | 13 12 | 1 55 |
| 2030 Dec 11 | 8 22 | 15 28 | 9 13 | 16 10 | 9 32 | 16 10 | 1 38 | 13 14 | 7 37 | 15 3 | 14 47 | 7 5 | 15 16 | 8 47 | 13 4 | 1 47 |
| 2030 Dec 13 | 8 24 | 15 28 | 8 50 | 15 59 | 9 35 | 16 13 | 1 37 | 13 7 | 7 31 | 14 57 | 14 39 | 6 56 | 15 12 | 8 42 | 12 56 | 1 39 |
| 2030 Dec 15 | 8 26 | 15 27 | 8 24 | 15 47 | 9 38 | 16 16 | 1 36 | 13 1 | 7 26 | 14 50 | 14 30 | 6 47 | 15 4 | 8 34 | 12 48 | 1 31 |
| 2030 Dec 17 | 8 28 | 15 28 | 7 59 | 15 33 | 9 40 | 16 20 | 1 34 | 12 55 | 7 20 | 14 44 | 14 22 | 6 39 | 14 56 | 8 26 | 12 40 | 1 23 |
| 2030 Dec 19 | 8 30 | 15 28 | 7 36 | 15 19 | 9 42 | 16 25 | 1 33 | 12 48 | 7 15 | 14 37 | 14 13 | 6 30 | 14 47 | 8 17 | 12 32 | 1 15 |
| 2030 Dec 21 | 8 31 | 15 29 | 7 16 | 15 6 | 9 43 | 16 29 | 1 31 | 12 42 | 7 9 | 14 31 | 14 5 | 6 21 | 14 39 | 8 9 | 12 24 | 1 7 |
| 2030 Dec 23 | 8 32 | 15 30 | 7 0 | 14 54 | 9 44 | 16 35 | 1 30 | 12 36 | 7 4 | 14 24 | 13 57 | 6 13 | 14 31 | 8 1 | 12 16 | 1 0 |
| 2030 Dec 25 | 8 33 | 15 31 | 6 49 | 14 44 | 9 44 | 16 40 | 1 28 | 12 30 | 6 58 | 14 18 | 13 48 | 6 4 | 14 23 | 7 52 | 12 9 | 0 52 |
| 2030 Dec 27 | 8 33 | 15 33 | 6 42 | 14 35 | 9 44 | 16 46 | 1 27 | 12 23 | 6 53 | 14 11 | 13 40 | 5 56 | 14 14 | 7 44 | 12 1 | 0 44 |
| 2030 Dec 29 | 8 33 | 15 35 | 6 38 | 14 28 | 9 44 | 16 52 | 1 25 | 12 17 | 6 47 | 14 5 | 13 32 | 5 47 | 14 6 | 7 36 | 11 53 | 0 36 |
| 2030 Dec 31 | 8 33 | 15 37 | 6 38 | 14 22 | 9 43 | 16 58 | 1 24 | 12 11 | 6 41 | 13 58 | 13 24 | 5 39 | 13 58 | 7 27 | 11 45 | 0 28 |

Восходы и заходы Солнца и планет ($\phi=56^\circ, \lambda=0^\circ$)

| ДАТА | Солнце | Меркурий | Венера | Марс | Юпитер | Сатурн | Уран | Нептун | | | | | | | | |
|-------------|--------|----------|--------|-------|--------|--------|-------|--------|------|-------|-------|------|-------|------|-------|-------|
| | Восх. | Заход | Восх. | Заход | Восх. | Заход | Восх. | Заход | | | | | | | | |
| 2030 Jan 1 | 8 33 | 15 38 | 8 8 | 15 51 | 8 38 | 16 46 | 10 16 | 18 44 | 4 14 | 12 50 | 12 47 | 4 7 | 13 38 | 6 58 | 11 37 | 0 10 |
| 2030 Jan 3 | 8 32 | 15 41 | 7 47 | 15 33 | 8 23 | 16 35 | 10 11 | 18 45 | 4 8 | 12 43 | 12 39 | 3 59 | 13 30 | 6 50 | 11 29 | 0 2 |
| 2030 Jan 5 | 8 31 | 15 43 | 7 29 | 15 17 | 8 7 | 16 25 | 10 6 | 18 47 | 4 2 | 12 36 | 12 31 | 3 51 | 13 22 | 6 42 | 11 21 | 23 54 |
| 2030 Jan 7 | 8 30 | 15 46 | 7 13 | 15 2 | 7 52 | 16 14 | 10 0 | 18 49 | 3 56 | 12 29 | 12 23 | 3 42 | 13 13 | 6 34 | 11 13 | 23 47 |
| 2030 Jan 9 | 8 29 | 15 49 | 7 2 | 14 48 | 7 36 | 16 3 | 9 55 | 18 51 | 3 50 | 12 22 | 12 15 | 3 34 | 13 5 | 6 25 | 11 5 | 23 39 |
| 2030 Jan 11 | 8 27 | 15 53 | 6 54 | 14 37 | 7 22 | 15 52 | 9 50 | 18 53 | 3 44 | 12 15 | 12 7 | 3 26 | 12 57 | 6 17 | 10 57 | 23 31 |
| 2030 Jan 13 | 8 25 | 15 56 | 6 49 | 14 29 | 7 7 | 15 41 | 9 44 | 18 55 | 3 38 | 12 8 | 11 59 | 3 18 | 12 49 | 6 9 | 10 49 | 23 23 |
| 2030 Jan 15 | 8 23 | 16 0 | 6 46 | 14 21 | 6 54 | 15 30 | 9 39 | 18 57 | 3 32 | 12 0 | 11 51 | 3 10 | 12 41 | 6 1 | 10 41 | 23 16 |
| 2030 Jan 17 | 8 21 | 16 3 | 6 46 | 14 16 | 6 41 | 15 19 | 9 33 | 18 59 | 3 26 | 11 53 | 11 43 | 3 2 | 12 33 | 5 52 | 10 34 | 23 8 |
| 2030 Jan 19 | 8 18 | 16 7 | 6 46 | 14 12 | 6 29 | 15 9 | 9 28 | 19 0 | 3 20 | 11 46 | 11 35 | 2 54 | 12 25 | 5 44 | 10 26 | 23 0 |
| 2030 Jan 21 | 8 15 | 16 11 | 6 48 | 14 10 | 6 18 | 15 0 | 9 22 | 19 2 | 3 14 | 11 39 | 11 27 | 2 47 | 12 17 | 5 36 | 10 18 | 22 53 |
| 2030 Jan 23 | 8 12 | 16 15 | 6 51 | 14 9 | 6 8 | 14 50 | 9 17 | 19 4 | 3 7 | 11 31 | 11 19 | 2 39 | 12 9 | 5 28 | 10 10 | 22 45 |
| 2030 Jan 25 | 8 9 | 16 19 | 6 54 | 14 9 | 5 59 | 14 42 | 9 11 | 19 6 | 3 1 | 11 24 | 11 11 | 2 31 | 12 0 | 5 20 | 10 2 | |

| ДАТА | Солнце | Меркурий | Венера | Марс | Юпитер | Сатурн | Уран | Нептун | | | | | | | | |
|-------------|--------|----------|--------|-------|--------|--------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| | Восх. | Заход | Восх. | Заход | Восх. | Заход | Восх. | Заход | Восх. | Заход | Восх. | Заход | Восх. | Заход | Восх. | Заход |
| 2030 Apr 1 | 5 32 | 18 40 | 5 44 | 20 40 | 4 24 | 14 3 | 5 55 | 19 57 | 22 56 | 7 11 | 6 57 | 22 37 | 7 41 | 1 1 | 5 44 | 18 29 |
| 2030 Apr 3 | 5 27 | 18 44 | 5 37 | 20 49 | 4 21 | 14 7 | 5 49 | 19 59 | 22 47 | 7 3 | 6 49 | 22 31 | 7 33 | 0 53 | 5 36 | 18 22 |
| 2030 Apr 5 | 5 22 | 18 48 | 5 30 | 20 55 | 4 18 | 14 11 | 5 43 | 20 0 | 22 38 | 6 55 | 6 42 | 22 24 | 7 25 | 0 46 | 5 28 | 18 14 |
| 2030 Apr 7 | 5 17 | 18 52 | 5 23 | 20 59 | 4 14 | 14 15 | 5 37 | 20 1 | 22 30 | 6 46 | 6 34 | 22 18 | 7 18 | 0 38 | 5 20 | 18 7 |
| 2030 Apr 9 | 5 11 | 18 56 | 5 15 | 20 59 | 4 11 | 14 20 | 5 32 | 20 3 | 22 21 | 6 38 | 6 27 | 22 11 | 7 10 | 0 31 | 5 13 | 17 59 |
| 2030 Apr 11 | 5 6 | 19 0 | 5 8 | 20 55 | 4 8 | 14 25 | 5 26 | 20 4 | 22 12 | 6 30 | 6 19 | 22 5 | 7 2 | 0 23 | 5 5 | 17 52 |
| 2030 Apr 13 | 5 1 | 19 4 | 5 1 | 20 49 | 4 4 | 14 30 | 5 20 | 20 5 | 22 3 | 6 22 | 6 12 | 21 58 | 6 55 | 0 16 | 4 57 | 17 44 |
| 2030 Apr 15 | 4 56 | 19 8 | 4 53 | 20 39 | 4 0 | 14 35 | 5 14 | 20 7 | 21 54 | 6 13 | 6 5 | 21 52 | 6 47 | 0 8 | 4 49 | 17 37 |
| 2030 Apr 17 | 4 51 | 19 12 | 4 47 | 20 26 | 3 57 | 14 40 | 5 9 | 20 8 | 21 45 | 6 5 | 5 57 | 21 45 | 6 39 | 0 1 | 4 41 | 17 29 |
| 2030 Apr 19 | 4 46 | 19 17 | 4 40 | 20 11 | 3 53 | 14 45 | 5 3 | 20 9 | 21 36 | 5 57 | 5 50 | 21 39 | 6 32 | 23 53 | 4 34 | 17 22 |
| 2030 Apr 21 | 4 41 | 19 21 | 4 34 | 19 54 | 3 49 | 14 50 | 4 58 | 20 10 | 21 27 | 5 48 | 5 42 | 21 32 | 6 24 | 23 46 | 4 26 | 17 15 |
| 2030 Apr 23 | 4 36 | 19 25 | 4 27 | 19 35 | 3 45 | 14 55 | 4 52 | 20 12 | 21 18 | 5 40 | 5 35 | 21 26 | 6 17 | 23 38 | 4 18 | 17 7 |
| 2030 Apr 25 | 4 31 | 19 29 | 4 22 | 19 16 | 3 41 | 15 0 | 4 47 | 20 13 | 21 8 | 5 31 | 5 28 | 21 19 | 6 9 | 23 31 | 4 10 | 17 0 |
| 2030 Apr 27 | 4 27 | 19 33 | 4 16 | 18 57 | 3 37 | 15 6 | 4 41 | 20 14 | 20 59 | 5 23 | 5 20 | 21 13 | 6 1 | 23 24 | 4 2 | 16 52 |
| 2030 Apr 29 | 4 22 | 19 37 | 4 11 | 18 39 | 3 32 | 15 11 | 4 36 | 20 15 | 20 50 | 5 14 | 5 13 | 21 6 | 5 54 | 23 16 | 3 55 | 16 45 |
| 2030 May 1 | 4 17 | 19 41 | 4 5 | 18 22 | 3 28 | 15 17 | 4 30 | 20 16 | 20 41 | 5 6 | 5 6 | 21 0 | 5 46 | 23 9 | 3 47 | 16 37 |
| 2030 May 3 | 4 13 | 19 45 | 4 0 | 18 8 | 3 24 | 15 22 | 4 25 | 20 17 | 20 31 | 4 58 | 4 58 | 20 54 | 5 39 | 23 2 | 3 39 | 16 30 |
| 2030 May 5 | 4 8 | 19 49 | 3 55 | 17 55 | 3 20 | 15 28 | 4 20 | 20 19 | 20 22 | 4 49 | 4 51 | 20 47 | 5 31 | 22 54 | 3 31 | 16 22 |
| 2030 May 7 | 4 4 | 19 53 | 3 50 | 17 44 | 3 15 | 15 34 | 4 15 | 20 20 | 20 13 | 4 41 | 4 44 | 20 41 | 5 24 | 22 47 | 3 23 | 16 15 |
| 2030 May 9 | 4 0 | 19 57 | 3 45 | 17 36 | 3 11 | 15 39 | 4 10 | 20 21 | 20 3 | 4 32 | 4 36 | 20 34 | 5 16 | 22 39 | 3 16 | 16 7 |
| 2030 May 11 | 3 56 | 20 1 | 3 40 | 17 30 | 3 6 | 15 45 | 4 5 | 20 21 | 19 54 | 4 24 | 4 29 | 20 28 | 5 9 | 22 32 | 3 8 | 16 0 |
| 2030 May 13 | 3 52 | 20 5 | 3 35 | 17 25 | 3 2 | 15 51 | 4 0 | 20 22 | 19 48 | 4 19 | 4 22 | 20 22 | 5 1 | 22 25 | 3 0 | 15 52 |
| 2030 May 15 | 3 48 | 20 9 | 3 30 | 17 23 | 2 58 | 15 57 | 3 55 | 20 23 | 19 39 | 4 11 | 4 14 | 20 15 | 4 53 | 22 17 | 2 52 | 15 44 |
| 2030 May 17 | 3 45 | 20 12 | 3 26 | 17 22 | 2 53 | 16 3 | 3 50 | 20 24 | 19 30 | 4 2 | 4 7 | 20 9 | 4 46 | 22 10 | 2 44 | 15 37 |
| 2030 May 19 | 3 41 | 20 16 | 3 21 | 17 24 | 2 49 | 16 9 | 3 45 | 20 25 | 19 20 | 3 54 | 4 0 | 20 2 | 4 38 | 22 3 | 2 37 | 15 29 |
| 2030 May 21 | 3 38 | 20 19 | 3 16 | 17 26 | 2 45 | 16 15 | 3 41 | 20 25 | 19 11 | 3 45 | 3 53 | 19 56 | 4 31 | 21 55 | 2 29 | 15 22 |
| 2030 May 23 | 3 35 | 20 23 | 3 11 | 17 31 | 2 40 | 16 21 | 3 36 | 20 26 | 19 2 | 3 37 | 3 45 | 19 50 | 4 23 | 21 48 | 2 21 | 15 14 |
| 2030 May 25 | 3 32 | 20 26 | 3 7 | 17 36 | 2 36 | 16 27 | 3 32 | 20 26 | 18 52 | 3 28 | 3 38 | 19 43 | 4 16 | 21 41 | 2 13 | 15 7 |
| 2030 May 27 | 3 29 | 20 29 | 3 2 | 17 43 | 2 32 | 16 33 | 3 28 | 20 27 | 18 43 | 3 20 | 3 31 | 19 37 | 4 8 | 21 34 | 2 5 | 14 59 |
| 2030 May 29 | 3 26 | 20 32 | 2 58 | 17 52 | 2 28 | 16 39 | 3 23 | 20 27 | 18 34 | 3 11 | 3 23 | 19 30 | 4 1 | 21 26 | 1 57 | 14 51 |
| 2030 May 31 | 3 24 | 20 35 | 2 54 | 18 1 | 2 24 | 16 46 | 3 19 | 20 28 | 18 24 | 3 3 | 3 16 | 19 24 | 3 53 | 21 19 | 1 50 | 14 44 |
| 2030 Jun 2 | 3 22 | 20 38 | 2 51 | 18 12 | 2 20 | 16 52 | 3 15 | 20 28 | 18 15 | 2 54 | 3 9 | 19 18 | 3 46 | 21 12 | 1 42 | 14 36 |
| 2030 Jun 4 | 3 20 | 20 41 | 2 47 | 18 24 | 2 16 | 16 58 | 3 11 | 20 28 | 18 6 | 2 46 | 3 2 | 19 11 | 3 38 | 21 4 | 1 34 | 14 28 |
| 2030 Jun 6 | 3 18 | 20 43 | 2 45 | 18 37 | 2 12 | 17 5 | 3 8 | 20 28 | 17 57 | 2 37 | 2 54 | 19 5 | 3 31 | 20 57 | 1 26 | 14 21 |
| 2030 Jun 8 | 3 17 | 20 45 | 2 42 | 18 51 | 2 8 | 17 11 | 3 4 | 20 28 | 17 48 | 2 29 | 2 47 | 18 58 | 3 23 | 20 50 | 1 18 | 14 13 |
| 2030 Jun 10 | 3 16 | 20 47 | 2 41 | 19 7 | 2 5 | 17 17 | 3 0 | 20 27 | 17 39 | 2 21 | 2 40 | 18 52 | 3 16 | 20 42 | 1 10 | 14 5 |
| 2030 Jun 12 | 3 15 | 20 49 | 2 40 | 19 23 | 2 1 | 17 24 | 2 57 | 20 27 | 17 30 | 2 12 | 2 33 | 18 45 | 3 8 | 20 35 | 1 3 | 13 58 |
| 2030 Jun 14 | 3 14 | 20 50 | 2 40 | 19 40 | 1 58 | 17 30 | 2 53 | 20 26 | 17 21 | 2 4 | 2 25 | 18 39 | 3 1 | 20 28 | 0 55 | 13 50 |
| 2030 Jun 16 | 3 14 | 20 52 | 2 42 | 19 57 | 1 55 | 17 37 | 2 50 | 20 26 | 17 12 | 1 56 | 2 18 | 18 32 | 2 53 | 20 21 | 0 47 | 13 42 |
| 2030 Jun 18 | 3 13 | 20 53 | 2 45 | 20 14 | 1 52 | 17 43 | 2 47 | 20 25 | 17 3 | 1 47 | 2 11 | 18 26 | 2 46 | 20 13 | 0 39 | 13 35 |
| 2030 Jun 20 | 3 14 | 20 53 | 2 50 | 20 31 | 1 49 | 17 49 | 2 44 | 20 24 | 16 54 | 1 39 | 2 4 | 18 19 | 2 38 | 20 6 | 0 31 | 13 27 |
| 2030 Jun 22 | 3 14 | 20 54 | 2 57 | 20 46 | 1 46 | 17 56 | 2 41 | 20 23 | 16 46 | 1 31 | 1 56 | 18 13 | 2 31 | 19 59 | 0 23 | 13 19 |
| 2030 Jun 24 | 3 15 | 20 54 | 3 5 | 21 1 | 1 44 | 18 2 | 2 39 | 20 22 | 16 37 | 1 23 | 1 49 | 18 6 | 2 23 | 19 51 | 0 15 | 13 11 |
| 2030 Jun 26 | 3 16 | 20 54 | 3 15 | 21 13 | 1 42 | 18 8 | 2 36 | 20 21 | 16 28 | 1 14 | 1 42 | 17 59 | 2 16 | 19 44 | 0 8 | 13 4 |
| 2030 Jun 28 | 3 17 | 20 54 | 3 28 | 21 24 | 1 40 | 18 14 | 2 34 | 20 19 | 16 20 | 1 6 | 1 34 | 17 53 | 2 9 | 19 37 | 2 4 | 12 56 |
| 2030 Jun 30 | 3 18 | 20 53 | 3 41 | 21 32 | 1 38 | 18 20 | 2 32 | 20 18 | 16 11 | 0 58 | 1 27 | 17 46 | 2 1 | 19 29 | 2 35 | 12 48 |

| ДАТА | Солнце | Меркурий | Венера | Марс | Юпитер | Сатурн | Уран | Нептун | | | | | | | | |
|-------------|--------|----------|--------|-------|--------|--------|-------|--------|-------|-------|------|-------|------|-------|-------|-------|
| | Восх. | Заход | Восх. | Заход | Восх. | Заход | Восх. | Заход | | | | | | | | |
| 2030 Jul 2 | 3 20 | 20 52 | 3 55 | 21 38 | 1 37 | 18 26 | 2 29 | 20 16 | 16 3 | 0 50 | 1 20 | 17 40 | 1 54 | 19 22 | 23 44 | 12 40 |
| 2030 Jul 4 | 3 22 | 20 51 | 4 11 | 21 42 | 1 36 | 18 31 | 2 27 | 20 14 | 15 55 | 0 42 | 1 13 | 17 33 | 1 46 | 19 15 | 23 36 | 12 32 |
| 2030 Jul 6 | 3 24 | 20 50 | 4 26 | 21 44 | 1 35 | 18 36 | 2 25 | 20 12 | 15 47 | 0 34 | 1 5 | 17 26 | 1 39 | 19 7 | 23 28 | 12 25 |
| 2030 Jul 8 | 3 26 | 20 48 | 4 42 | 21 45 | 1 35 | 18 41 | 2 24 | 20 10 | 15 38 | 0 26 | 0 58 | 17 20 | 1 31 | 19 0 | 23 20 | 12 17 |
| 2030 Jul 10 | 3 28 | 20 46 | 4 57 | 21 44 | 1 35 | 18 46 | 2 22 | 20 8 | 15 30 | 0 18 | 0 51 | 17 13 | 1 23 | 18 53 | 23 12 | 12 9 |
| 2030 Jul 12 | 3 31 | 20 44 | 5 12 | 21 42 | 1 36 | 18 51 | 2 20 | 20 5 | 15 22 | 0 9 | 0 43 | 17 6 | 1 16 | 18 45 | 23 5 | 12 1 |
| 2030 Jul 14 | 3 34 | 20 42 | 5 26 | 21 40 | 1 36 | 18 55 | 2 19 | 20 2 | 15 14 | 0 1 | 0 36 | 16 59 | 1 8 | 18 38 | 22 57 | 11 53 |
| 2030 Jul 16 | 3 37 | 20 39 | 5 40 | 21 36 | 1 38 | 18 59 | 2 18 | 20 0 | 15 7 | 0 23 | 0 29 | 16 53 | 1 1 | 18 31 | 22 49 | 11 45 |
| 2030 Jul 18 | 3 40 | 20 37 | 5 52 | 21 32 | 1 39 | 19 2 | 2 16 | 19 57 | 14 59 | 2 34 | 0 22 | 16 46 | 0 53 | 18 23 | 22 41 | 11 37 |
| 2030 Jul 20 | 3 43 | 20 34 | 6 5 | 21 27 | 1 42 | 19 5 | 2 15 | 19 54 | 14 51 | 2 33 | 0 14 | 16 39 | 0 46 | 18 16 | 22 33 | 11 29 |
| 2030 Jul 22 | 3 46 | 20 31 | 6 16 | 21 22 | 1 44 | 19 8 | 2 14 | 19 50 | 14 43 | 2 30 | 0 7 | 16 32 | 0 38 | 18 8 | 22 25 | 11 21 |
| 2030 Jul 24 | 3 50 | 20 27 | 6 26 | 21 16 | 1 47 | 19 10 | 2 13 | 19 47 | 14 36 | 2 27 | 0 15 | 16 25 | 0 31 | 18 1 | 22 17 | 11 13 |
| 2030 Jul 26 | 3 53 | 20 24 | 6 36 | 21 9 | 1 50 | 19 12 | 2 12 | 19 44 | 14 28 | 2 34 | 0 23 | 16 18 | 0 23 | 17 54 | 22 9 | 11 5 |
| 2030 Jul 28 | 3 57 | 20 20 | 6 44 | 21 3 | 1 54 | 19 14 | 2 12 | 19 40 | 14 21 | 2 3</ | | | | | | |



**АСТРОНОМИЧЕСКИЙ
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