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АСТРОНОМИЧЕСКИЙ КАЛЕНДАРЬ - СПРАВОЧНИК (1901 - 2100)

специальный выпуск

Приложение содержит карманный атлас звездного неба до 6m.

«АстроКА»
2017

АСТРОНОМИЧЕСКИЙ КАЛЕНДАРЬ - СПРАВОЧНИК (1901 – 2100)

СПРАВОЧНОЕ ИЗДАНИЕ
Серия «Астробиблиотека»
Специальный выпуск

Астрономический календарь - справочник, составитель Козловский Александр Николаевич, «АстроКА», 2017 год, 304 стр..

Календарь составлен целенаправленно для печатного варианта в виде книги, которую всегда можно иметь при себе, и используя которую можно быстро узнать о всех основных астрономических явлениях и небесных телах на протяжении 200-летнего промежутка (и более) времени. Инструкция для распечатки в книгу находится в конце календаря. Данный АКС является обобщенной версией ежегодного астрономического календаря, который всегда можно найти на Астронет <http://astronet.ru/>. При составлении календаря были использованы программы Occult v4.0, Guide 8.0 <http://www.projectpluto.com>, сайт <http://www.eclipsewise.com/eclipse.html> (Фред Эспенак), он-лайн календарь <http://www.calsky.com/> и сайт <http://www.imo.net>. Календарь содержит данные по Солнцу, Луне и покрытиям Луной звезд и планет, большим планетам, основным метеорным потокам, а также по некоторым малым телам, доступным для наблюдений любительскими средствами. Целью данного календаря является охват многих явлений в течение указанного периода для последующего определения подробных обстоятельств явлений при помощи программ-планетариев. При желании можно ограничиться только данным календарем, проводя вычисления вручную. Календарь составлен для любителей астрономии со стажем и для тех, которым такое издание необходимо для занятий астрономией.

Уважаемые любители астрономии!



Надеюсь, что АКС_1901_2100 послужит Вам надежным помощником при определении обстоятельств тех или иных явлений, а также при определении положений небесных тел. В серии «Астробиблиотека» вышли книги: «Астрономический календарь на 2005 год» (выпускается ежегодно с указанного 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 периодические издания: журнал «Небосвод» и «Календарь наблюдателя» (выкладка ежемесячно на <http://astronet.ru>). E-mail: nebosvod_journal@mail.ru

Искренне Ваш. Александр Козловский

Набрано и сверстано в 2017 году
MSOffice-2003

Набор, верстка, редакция и печать: Козловский Александр Николаевич
Корректор: Козловский Алексей Александрович
Обложка: Кушнир Николай

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1901 - 2100 годы

КАЛЕНДАРЬ ДНЕЙ НЕДЕЛИ

Для того, чтобы узнать день недели конкретного дня, требуется:

1. Найти в первой таблице цифру, соответствующую указанному году и месяцу;
2. Сложить эту цифру с номером дня;
3. Найти во второй таблице получившееся число и посмотреть, какому дню недели оно соответствует.

Пример: требуется определить, каким днём недели было 22 февраля 2074 года.

1. Цифра, соответствующая февралю (**Ф**) 2074 в таблице 1, равна **3**.
2. $22+3=25$.
3. Числу 25 в таблице 2 соответствует **четверг** — это и есть искомый день недели.

Таблица 1

Годы	я	ф	м	а	м	и	н	а	с	о	н	д						
1901	1929	1957	1985	2013	2041	2069	1	4	4	7	2	5	7	3	6	1	4	6
1902	1930	1958	1986	2014	2042	2070	2	5	5	1	3	6	1	4	7	2	5	7
1903	1931	1959	1987	2015	2043	2071	3	6	6	2	4	7	2	5	1	3	6	1
1904	1932	1960	1988	2016	2044	2072	4	7	1	4	6	2	4	7	3	5	1	3
1905	1933	1961	1989	2017	2045	2073	6	2	2	5	7	3	5	1	4	6	2	4
1906	1934	1962	1990	2018	2046	2074	7	3	3	6	1	4	6	2	5	7	3	5
1907	1935	1963	1991	2019	2047	2075	1	4	4	7	2	5	7	3	6	1	4	6
1908	1936	1964	1992	2020	2048	2076	2	5	6	2	4	7	2	5	1	3	6	1
1909	1937	1965	1993	2021	2049	2077	4	7	7	3	5	1	3	6	2	4	7	2
1910	1938	1966	1994	2022	2050	2078	5	1	1	4	6	2	4	7	3	5	1	3
1911	1939	1967	1995	2023	2051	2079	6	2	2	5	7	3	5	1	4	6	2	4
1912	1940	1968	1996	2024	2052	2080	7	3	4	7	2	5	7	3	6	1	4	6
1913	1941	1969	1997	2025	2053	2081	2	5	5	1	3	6	1	4	7	2	5	7
1914	1942	1970	1998	2026	2054	2082	3	6	6	2	4	7	2	5	1	3	6	1
1915	1943	1971	1999	2027	2055	2083	4	7	7	3	5	1	3	6	2	4	7	2
1916	1944	1972	2000	2028	2056	2084	5	1	2	5	7	3	5	1	4	6	2	4
1917	1945	1973	2001	2029	2057	2085	7	3	3	6	1	4	6	2	5	7	3	5
1918	1946	1974	2002	2030	2058	2086	1	4	4	7	2	5	7	3	6	1	4	6
1919	1947	1975	2003	2031	2059	2087	2	5	5	1	3	6	1	4	7	2	5	7
1920	1948	1976	2004	2032	2060	2088	3	6	7	3	5	1	3	6	2	4	7	2
1921	1949	1977	2005	2033	2061	2089	5	1	1	4	6	2	4	7	3	5	1	3
1922	1950	1978	2006	2034	2062	2090	6	2	2	5	7	3	5	1	4	6	2	4
1923	1951	1979	2007	2035	2063	2091	7	3	3	6	1	4	6	2	5	7	3	5
1924	1952	1980	2008	2036	2064	2092	1	4	5	1	3	6	1	4	7	2	5	7
1925	1953	1981	2009	2037	2065	2093	3	6	6	2	4	7	2	5	1	3	6	1
1926	1954	1982	2010	2038	2066	2094	4	7	7	3	5	1	3	6	2	4	7	2
1927	1955	1983	2011	2039	2067	2095	5	1	1	4	6	2	4	7	3	5	1	3
1928	1956	1984	2012	2040	2068	2096	6	2	3	6	1	4	6	2	5	7	3	5

Годы я ф м а м и н а с о н д

Таблица 2

Понедельник	1	8	15	22	29	36
Вторник	2	9	16	23	30	37
Среда	3	10	17	24	31	
Четверг	4	11	18	25	32	
Пятница	5	12	19	26	33	
Суббота	6	13	20	27	34	
Воскресенье	7	14	21	28	35	

Источник: <https://ru.wikipedia.org/>

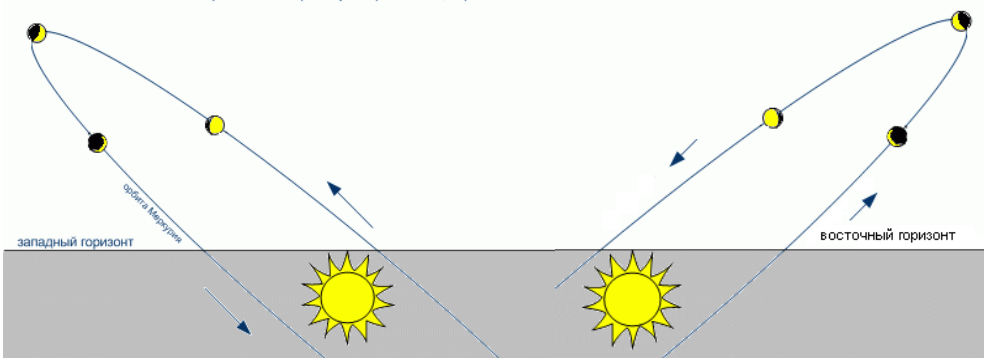
Примечание: дни недели остатка лет (2097-2100) следует определять по первым 4 строкам прошлых лет.

Конфигурации планет

(вспомогательные изображения для более четкого представления положений небесных тел при вычислениях в уме)



Максимальное удаление планеты от Солнца к востоку
(восточная (вечерняя) элонгация)



Движение внутренних планет (Меркурия и Венеры) на вечернем и утреннем (справа) небе.

От автора

Уважаемые любители астрономии! Перед Вами **специальный** выпуск Астрономического календаря, издающегося в серии «Астробиблиотека» от АстроКА и являющегося приложением к журналу «Небосвод». Астрономический календарь - справочник (АКС) содержит сведения по Солнцу, Луне и затмениям. В календаре по годам приведены сведения о солнечных и лунных затмениях, покрытиях звезд и планет Луной, конфигурации Луны и планет и т.д. Время во всех таблицах календаря **приводится всемирное - UT**, которое отличается от московского на 3 часа в меньшую сторону (Тмск = UT+3 часа). Астрономический календарь составлен в редакторе MSOffice Word - 2003 с конвертацией в pdf-формат. Существенное преимущество данного АКС в том, что после **бесплатного** скачивания с Интернет-ресурса <http://astronet.ru>, его легко распечатать и собрать в книгу, которой можно пользоваться для просмотра прошлых астрономических явлений, в также при планировании наблюдений и во время самих наблюдений, особенно в походных или иных условиях, когда электронные средства недоступны. Используя данные АКС_1901_2100, можно определять положение небесных тел в любое время за весь описываемый период с достаточной для наблюдений невооруженным глазом точностью. Например, нужно определить положение Юпитера и условия его видимости 16 апреля 2040 года. По данным АКС противостояние Юпитера 16 марта, а соединение 4 октября. Промежуток между этими конфигурациями немногим более полугода. По координатам Солнца 16 марта и 4 октября определяем прямое восхождение Юпитера. В соединении оно равно солнечному, а в противостоянии на 12 часов больше солнечного. Значит, 16 апреля 2040 года (в первом приближении) Юпитер будет находиться около противоположной от Солнца точки небесной сферы, а поскольку все планеты движутся вдоль эклиптики, то вторая координата (склонение) известна всегда (это и есть эклиптика). Нам остается лишь прибавить к положению Солнца (23 часа 36 минут) в день противостояния Юпитера 12 часов и определить по звездной карте, что планета 16 апреля 2040 года будет видна у границы созвездий Льва и Девы. Теперь можно взглянуть на небо в указанное место и найти лишнюю яркую звезду. Поскольку планета находится около противостояния, то видна она практически всю ночь. Проверим по программе положение Юпитера в этот день (альфа= 11 часов 36 минут и дельта= +04°14'), что при весьма небольшой для невооруженного глаза погрешности совпадает с нашими вычислениями. Подобным образом проводятся вычисления и для других планет. Отличие имеется только для внутренних планет - Меркурия и Венеры, где вместо противостояний - элонгации (наибольшее удаление от Солнца в градусах). Положение этих планет определить еще легче, т.к. они все время находятся близ центрального светила и разнятся только вечерней и утренней видимостью. Некоторые явления, например, метеорные потоки, повторяются из года в год, и их наблюдение зависит только от наличия или отсутствия Луны на небе. Для этого нужно использовать таблицы фаз Луны, из которых можно узнать, что Лириды (максимум - 22 апреля), например, в 2020 году будут благоприятны для наблюдений, т.к. 23 апреля этого года Луна будет в фазе новолуния, а вот в 2030 году условия для наблюдений Лирид будут неблагоприятны, т.к. 18 апреля Луна будет в фазе полнолуния. Безусловно, что в наш компьютерный век легче произвести вышеописанные расчеты при помощи софта, но разве не интереснее это сделать самому, без какой-либо электронной помощи? Желаю вам успешного использования данного календаря. Кроме АКС_1901_2100 автором этого издания выпускаются ежегодник АКС и ежемесячник «Календарь наблюдателя» (КН). Они распространяются, как и другие издания автора, **бесплатно** в печатном и в электронном виде. Дополнительные сведения можно найти на сайтах автора <http://astrogalaxy.ru/>, <http://moscowaleks.narod.ru>, а также на <http://astronet.ru>, <http://ka-dar.ru>, <http://shvedun.ru>, <http://astronomy.ru>. В журнале для любителей астрономии «Небосвод» <http://astronet.ru> ежемесячно публикуются подробные сведения о предстоящих интересных астрономических явлениях.

Замечания и иное по АКС писать автору на e-mail nebosvod_journal@mail.ru

Краткий обзор интересных явлений

Ближайшее покрытие одновременно двух планет Луной (Венеры и Урана) состоится в 17 августа 2053 года (в созвездии Девы). К сожалению, жители нашей страны, по большей части, не увидят это замечательное явление, т.к. полоса покрытия пройдет по Северной Америке и лишь часть полосы захватит самую восточную часть Чукотки.

В 2061 году жители Европейской части России впервые за полвека увидят полное солнечное затмение (20 апреля), а также комету Галлея, вернувшуюся к Солнцу впервые после 1986 года.

Ближайшее полное солнечное затмение, которое можно будет наблюдать в Москве, произойдет 16 октября 2126 года. Луна закроет Солнце от взоров жителей столицы на целых 4 минуты (даже немногим более!), что для средних широт нашей страны - почти наибольшее время полной фазы.

Самое продолжительное полное лунное затмение в ближайшем будущем состоится 27 июля 2018 года. Луна полностью войдет в земную тень на 1 час 43 минуты. Это затмение весьма благоприятно для наблюдений с территории России (за исключением северных и восточных районов) и стран СНГ.

Ближайшее солнечное затмение с максимальной продолжительностью полной фазы (в описываемый период) 6 минут 23 секунды состоится 2 августа 2027 года. Полностью закрытое Солнце будет доступно для наблюдений в Испании, Африке и на Аравийском полуострове. Максимальная ширина полосы полной фазы затмения составит 258 километров

Ближайший год, когда произойдет шесть затмений в году - 2020, а ближайший год, когда произойдет 7 затмений в году - 2038. В 2020 году можно будет наблюдать одно кольцеобразное и одно полное солнечное затмение, а также 4 лунных полутеневых затмения. В 2038 году взору землян будут доступны два кольцеобразных и одно полное солнечное затмение, а Луна 4 раза пройдет сквозь земную полутень (4 полутеневых лунных затмения).

Самыми богатыми на тесные сближения планет будут 30-е годы нынешнего столетия (4 сближения до половины угловой минуты и менее) и самым интересным среди них будет сближение Меркурия и Сатурна 15 сентября 2037 года в созвездии Льва (близ Регула). Максимальное сближение можно будет наблюдать в Сибири в утреннее время. Следует отметить, что до 2100 года до 1 угловой минуты планеты сближаются 16 раз. Из них 2 сближения Меркурия и Юпитера (2088 и 2094 года) практически не наблюдаемы из-за близости к Солнцу (5 и 2 градуса).

Ближайшее сближение четырех (!) планет (Меркурий, Марс, Сатурн и Нептун), доступных для наблюдения в поле зрения широкоугольного бинокля (менее 5 градусов) произойдет на утреннем небе 17 апреля 2026 года у границы созвездий Кита и Рыб.

Ближайшее соединение пяти (!!) ярких планет в секторе менее 10 градусов, к тому же в присутствии тонкого серпа Луны, состоится вечером 8 сентября 2040 года в созвездии Девы. Вот это будет зрелище!

Оперативные сведения о явлениях - на <http://astronomy.ru/forum/>, <http://astroalert.ka-dar.ru>, <http://aerith.net/come/weekly/current.htm>, <http://edu.zelenogorsk.ru/>, <http://astrkot.ru/>, <http://shvedun.ru>, <http://www.starlab.ru/forumdisplay.php?f=58>, <http://meteoweb.ru>.

Ясного неба и успешных наблюдений!

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	Microscopium, 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	Pyxis, Компас	Pyx
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
Cruх, 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	Telescopium, 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	Nor	Vela, Паруса	Vel
Hydra, Гидра	Nya	Virgo, Дева	Vir
Hydrus, Южная Гидра	Nyi	Volan, Летучая Рыба	Vol
Indus, Индеец	Ind	Vulpecula, Лисичка	Vul

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

Д	α (2000.0)	δ (2000.0)	созв	диам	восход	ВК	Вс	заход
1	0:41:14.8	+4:26:04	Psc	32.01	5h31m	12h04m	39	18h39m
2	0:44:53.5	+4:49:13	Psc	32.00	5h28m	12h04m	39	18h41m
3	0:48:32.4	+5:12:16	Psc	31.99	5h26m	12h04m	40	18h43m
4	0:52:11.3	+5:35:13	Psc	31.99	5h23m	12h04m	40	18h45m
5	0:55:50.5	+5:58:04	Psc	31.98	5h21m	12h03m	40	18h47m
6	0:59:29.7	+6:20:49	Psc	31.97	5h18m	12h03m	41	18h49m
7	1:03:09.2	+6:43:28	Psc	31.96	5h15m	12h03m	41	18h51m
8	1:06:48.8	+7:05:59	Psc	31.95	5h13m	12h02m	41	18h53m
9	1:10:28.7	+7:28:24	Psc	31.94	5h10m	12h02m	42	18h56m
10	1:14:08.8	+7:50:40	Psc	31.93	5h08m	12h02m	42	18h58m
11	1:17:49.2	+8:12:49	Psc	31.92	5h05m	12h02m	43	19h00m
12	1:21:29.9	+8:34:49	Psc	31.91	5h03m	12h01m	43	19h02m
13	1:25:10.8	+8:56:41	Psc	31.90	5h00m	12h01m	43	19h04m
14	1:28:52.1	+9:18:24	Psc	31.89	4h57m	12h01m	44	19h06m
15	1:32:33.8	+9:39:57	Psc	31.89	4h55m	12h01m	44	19h08m
16	1:36:15.7	+10:01:21	Psc	31.88	4h52m	12h00m	44	19h10m
17	1:39:58.1	+10:22:36	Psc	31.87	4h50m	12h00m	45	19h12m
18	1:43:40.9	+10:43:39	Psc	31.86	4h47m	12h00m	45	19h14m
19	1:47:24.0	+11:04:33	Ari	31.85	4h45m	12h00m	45	19h16m
20	1:51:07.6	+11:25:15	Ari	31.84	4h42m	12h00m	46	19h18m
21	1:54:51.7	+11:45:47	Ari	31.83	4h40m	11h59m	46	19h20m
22	1:58:36.2	+12:06:06	Ari	31.82	4h38m	11h59m	46	19h22m
23	2:02:21.1	+12:26:14	Ari	31.81	4h35m	11h59m	47	19h24m
24	2:06:06.5	+12:46:10	Ari	31.81	4h33m	11h59m	47	19h26m
25	2:09:52.4	+13:05:53	Ari	31.80	4h30m	11h59m	47	19h28m
26	2:13:38.8	+13:25:23	Ari	31.79	4h28m	11h58m	48	19h30m
27	2:17:25.7	+13:44:40	Ari	31.78	4h26m	11h58m	48	19h32m
28	2:21:13.1	+14:03:44	Ari	31.77	4h23m	11h58m	48	19h34m
29	2:25:00.9	+14:22:34	Ari	31.76	4h21m	11h58m	49	19h36m
30	2:28:49.3	+14:41:09	Ari	31.76	4h19m	11h58m	49	19h38m

СОЛНЦЕ

(обобщенные годовичные эфемериды на эпоху 2000.0)

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

Д	α (2000.0)	δ (2000.0)	созв	диам	восход	ВК	Вс	заход
1	18:45:46.0	-23:01:18	Sgr	32.53	8h32m	12h04m	11	15h37m
2	18:50:10.8	-22:56:15	Sgr	32.53	8h32m	12h05m	11	15h38m
3	18:54:35.3	-22:50:44	Sgr	32.53	8h31m	12h05m	11	15h40m
4	18:58:59.5	-22:44:46	Sgr	32.53	8h31m	12h06m	11	15h41m
5	19:03:23.2	-22:38:21	Sgr	32.53	8h30m	12h06m	12	15h42m
6	19:07:46.4	-22:31:30	Sgr	32.53	8h30m	12h07m	12	15h44m
7	19:12:09.2	-22:24:11	Sgr	32.53	8h29m	12h07m	12	15h45m
8	19:16:31.4	-22:16:26	Sgr	32.53	8h28m	12h07m	12	15h47m
9	19:20:53.2	-22:08:15	Sgr	32.53	8h28m	12h08m	12	15h49m
10	19:25:14.3	-21:59:38	Sgr	32.53	8h27m	12h08m	12	15h50m
11	19:29:35.0	-21:50:35	Sgr	32.53	8h26m	12h09m	12	15h52m
12	19:33:55.0	-21:41:07	Sgr	32.53	8h25m	12h09m	13	15h54m
13	19:38:14.4	-21:31:13	Sgr	32.52	8h24m	12h09m	13	15h55m
14	19:42:33.2	-21:20:55	Sgr	32.52	8h23m	12h10m	13	15h57m
15	19:46:51.3	-21:10:11	Sgr	32.52	8h22m	12h10m	13	15h59m
16	19:51:08.8	-20:59:04	Sgr	32.52	8h20m	12h11m	13	16h01m
17	19:55:25.6	-20:47:32	Sgr	32.52	8h19m	12h11m	13	16h03m
18	19:59:41.7	-20:35:37	Sgr	32.51	8h18m	12h11m	14	16h05m
19	20:03:57.2	-20:23:18	Sgr	32.51	8h17m	12h11m	14	16h07m
20	20:08:11.9	-20:10:36	Cap	32.51	8h15m	12h12m	14	16h09m
21	20:12:25.9	-19:57:31	Cap	32.50	8h14m	12h12m	14	16h11m
22	20:16:39.2	-19:44:04	Cap	32.50	8h12m	12h12m	14	16h13m
23	20:20:51.7	-19:30:15	Cap	32.50	8h11m	12h13m	15	16h15m
24	20:25:03.4	-19:16:04	Cap	32.49	8h09m	12h13m	15	16h17m
25	20:29:14.4	-19:01:32	Cap	32.49	8h08m	12h13m	15	16h19m
26	20:33:24.6	-18:46:39	Cap	32.49	8h06m	12h13m	15	16h21m
27	20:37:34.0	-18:31:25	Cap	32.48	8h04m	12h13m	16	16h23m
28	20:41:42.6	-18:15:52	Cap	32.48	8h03m	12h14m	16	16h25m
29	20:45:50.4	-17:59:58	Cap	32.48	8h01m	12h14m	16	16h28m
30	20:49:57.4	-17:43:45	Cap	32.47	7h59m	12h14m	17	16h30m
31	20:54:03.5	-17:27:14	Cap	32.47	7h57m	12h14m	17	16h32m

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

Д	α (2000.0)	δ (2000.0)	созв	диам	восход	ВК	Вс	заход
1	20:58:08.9	-17:10:23	Cap	32.46	7h55m	12h14m	17	16h34m
2	21:02:13.4	-16:53:15	Cap	32.46	7h53m	12h14m	17	16h36m
3	21:06:17.0	-16:35:49	Cap	32.45	7h51m	12h15m	18	16h38m
4	21:10:19.8	-16:18:05	Cap	32.45	7h49m	12h15m	18	16h41m
5	21:14:21.8	-16:00:05	Cap	32.44	7h47m	12h15m	18	16h43m
6	21:18:23.0	-15:41:49	Cap	32.44	7h45m	12h15m	19	16h45m
7	21:22:23.3	-15:23:16	Cap	32.43	7h43m	12h15m	19	16h47m
8	21:26:22.8	-15:04:27	Cap	32.43	7h41m	12h15m	19	16h49m
9	21:30:21.5	-14:45:24	Cap	32.42	7h39m	12h15m	20	16h52m
10	21:34:19.4	-14:26:05	Cap	32.42	7h37m	12h15m	20	16h54m
11	21:38:16.5	-14:06:32	Cap	32.41	7h35m	12h15m	20	16h56m
12	21:42:12.9	-13:46:46	Cap	32.41	7h32m	12h15m	21	16h58m
13	21:46:08.5	-13:26:45	Cap	32.40	7h30m	12h15m	21	17h00m
14	21:50:03.4	-13:06:31	Cap	32.39	7h28m	12h15m	21	17h03m
15	21:53:57.5	-12:46:05	Cap	32.39	7h26m	12h15m	22	17h05m
16	21:57:51.0	-12:25:26	Cap	32.38	7h23m	12h15m	22	17h07m
17	22:01:43.7	-12:04:35	Aqr	32.37	7h21m	12h15m	22	17h09m
18	22:05:35.7	-11:43:32	Aqr	32.37	7h19m	12h15m	23	17h11m
19	22:09:27.1	-11:22:18	Aqr	32.36	7h16m	12h14m	23	17h14m
20	22:13:17.8	-11:00:54	Aqr	32.35	7h14m	12h14m	23	17h16m
21	22:17:07.9	-10:39:19	Aqr	32.34	7h12m	12h14m	24	17h18m
22	22:20:57.3	-10:17:34	Aqr	32.34	7h09m	12h14m	24	17h20m
23	22:24:46.2	-9:55:40	Aqr	32.33	7h07m	12h14m	24	17h22m
24	22:28:34.4	-9:33:36	Aqr	32.32	7h04m	12h14m	25	17h24m
25	22:32:22.0	-9:11:24	Aqr	32.31	7h02m	12h14m	25	17h27m
26	22:36:09.1	-8:49:04	Aqr	32.31	6h59m	12h14m	25	17h29m
27	22:39:55.6	-8:26:35	Aqr	32.30	6h57m	12h13m	26	17h31m
28	22:43:41.5	-8:04:00	Aqr	32.29	6h54m	12h13m	26	17h33m

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

Д	α (2000.0)	δ (2000.0)	созв	диам	восход	ВК	Вс	заход
1	22:47:26.9	-7:41:17	Aqr	32.28	6h52m	12h13m	27	17h35m
2	22:51:11.8	-7:18:27	Aqr	32.28	6h49m	12h13m	27	17h37m
3	22:54:56.2	-6:55:31	Aqr	32.27	6h47m	12h13m	27	17h39m
4	22:58:40.1	-6:32:30	Aqr	32.26	6h44m	12h12m	28	17h41m
5	23:02:23.5	-6:09:23	Aqr	32.25	6h42m	12h12m	28	17h44m
6	23:06:06.5	-5:46:11	Aqr	32.24	6h39m	12h12m	29	17h46m
7	23:09:49.0	-5:22:55	Aqr	32.24	6h37m	12h12m	29	17h48m
8	23:13:31.1	-4:59:34	Aqr	32.23	6h34m	12h11m	29	17h50m
9	23:17:12.8	-4:36:10	Aqr	32.22	6h31m	12h11m	30	17h52m
10	23:20:54.1	-4:12:42	Aqr	32.21	6h29m	12h11m	30	17h54m
11	23:24:35.1	-3:49:10	Aqr	32.20	6h26m	12h11m	31	17h56m
12	23:28:15.7	-3:25:37	Aqr	32.19	6h24m	12h10m	31	17h58m
13	23:31:56.1	-3:02:00	Psc	32.19	6h21m	12h10m	31	18h00m
14	23:35:36.1	-2:38:22	Psc	32.18	6h18m	12h10m	32	18h02m
15	23:39:15.9	-2:14:42	Psc	32.17	6h16m	12h10m	32	18h04m
16	23:42:55.5	-1:51:01	Psc	32.16	6h13m	12h09m	32	18h06m
17	23:46:34.9	-1:27:19	Psc	32.15	6h11m	12h09m	33	18h09m
18	23:50:14.1	-1:03:36	Psc	32.14	6h08m	12h09m	33	18h11m
19	23:53:53.1	-0:39:53	Psc	32.13	6h05m	12h08m	34	18h13m
20	23:57:32.0	-0:16:10	Psc	32.12	6h03m	12h08m	34	18h15m
21	0:01:10.8	+0:07:33	Psc	32.11	6h00m	12h08m	34	18h17m
22	0:04:49.5	+0:31:14	Psc	32.10	5h57m	12h07m	35	18h19m
23	0:08:28.1	+0:54:55	Psc	32.09	5h55m	12h07m	35	18h21m
24	0:12:06.6	+1:18:33	Psc	32.09	5h52m	12h07m	36	18h23m
25	0:15:45.1	+1:42:10	Psc	32.08	5h49m	12h07m	36	18h25m
26	0:19:23.5	+2:05:45	Psc	32.07	5h47m	12h06m	36	18h27m
27	0:23:02.0	+2:29:17	Psc	32.06	5h44m	12h06m	37	18h29m
28	0:26:40.5	+2:52:46	Psc	32.05	5h42m	12h06m	37	18h31m
29	0:30:19.0	+3:16:12	Psc	32.04	5h39m	12h05m	38	18h33m
30	0:33:57.5	+3:39:33	Psc	32.03	5h36m	12h05m	38	18h35m
31	0:37:36.1	+4:02:51	Psc	32.02	5h34m	12h05m	38	18h37m

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

Д	α (2000.0)	δ (2000.0)	созв	диам	восход	ВК	Вс	заход
1	8:44:32.5	+18:04:47	Cnc	31.52	4h05m	12h07m	52	20h08m
2	8:48:25.2	+17:49:37	Cnc	31.52	4h07m	12h07m	52	20h06m
3	8:52:17.4	+17:34:10	Cnc	31.52	4h09m	12h07m	51	20h04m
4	8:56:08.9	+17:18:26	Cnc	31.53	4h10m	12h07m	51	20h02m
5	8:59:59.8	+17:02:25	Cnc	31.53	4h12m	12h07m	51	20h00m
6	9:03:50.1	+16:46:07	Cnc	31.54	4h14m	12h07m	51	19h57m
7	9:07:39.8	+16:29:34	Cnc	31.54	4h16m	12h06m	50	19h55m
8	9:11:28.9	+16:12:44	Cnc	31.55	4h18m	12h06m	50	19h53m
9	9:15:17.4	+15:55:39	Cnc	31.55	4h20m	12h06m	50	19h51m
10	9:19:05.4	+15:38:18	Cnc	31.56	4h22m	12h06m	49	19h49m
11	9:22:52.7	+15:20:43	Leo	31.56	4h24m	12h06m	49	19h46m
12	9:26:39.6	+15:02:52	Leo	31.57	4h26m	12h06m	49	19h44m
13	9:30:25.8	+14:44:47	Leo	31.57	4h28m	12h05m	49	19h42m
14	9:34:11.6	+14:26:28	Leo	31.58	4h30m	12h05m	48	19h39m
15	9:37:56.8	+14:07:56	Leo	31.58	4h32m	12h05m	48	19h37m
16	9:41:41.5	+13:49:09	Leo	31.59	4h34m	12h05m	48	19h35m
17	9:45:25.7	+13:30:10	Leo	31.59	4h36m	12h05m	47	19h32m
18	9:49:09.4	+13:10:57	Leo	31.60	4h38m	12h04m	47	19h30m
19	9:52:52.6	+12:51:32	Leo	31.61	4h40m	12h04m	47	19h27m
20	9:56:35.4	+12:31:54	Leo	31.61	4h42m	12h04m	46	19h25m
21	10:00:17.6	+12:12:05	Leo	31.62	4h44m	12h04m	46	19h23m
22	10:03:59.4	+11:52:04	Leo	31.62	4h46m	12h04m	46	19h20m
23	10:07:40.8	+11:31:52	Leo	31.63	4h47m	12h03m	45	19h18m
24	10:11:21.7	+11:11:29	Leo	31.64	4h49m	12h03m	45	19h15m
25	10:15:02.1	+10:50:55	Leo	31.64	4h51m	12h03m	45	19h13m
26	10:18:42.2	+10:30:11	Leo	31.65	4h53m	12h02m	44	19h10m
27	10:22:21.8	+10:09:17	Leo	31.66	4h55m	12h02m	44	19h08m
28	10:26:01.0	+9:48:14	Leo	31.67	4h57m	12h02m	44	19h05m
29	10:29:39.9	+9:27:01	Leo	31.67	4h59m	12h02m	43	19h03m
30	10:33:18.4	+9:05:39	Leo	31.68	5h01m	12h01m	43	19h00m
31	10:36:56.5	+8:44:08	Leo	31.69	5h03m	12h01m	42	18h57m

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

Д	α (2000.0)	δ (2000.0)	созв	диам	восход	ВК	Вс	заход
1	2:32:38.2	+14:59:30	Ari	31.75	4h17m	11h58m	49	19h40m
2	2:36:27.6	+15:17:35	Ari	31.74	4h14m	11h58m	50	19h42m
3	2:40:17.6	+15:35:26	Ari	31.73	4h12m	11h58m	50	19h44m
4	2:44:08.0	+15:53:01	Ari	31.73	4h10m	11h57m	50	19h46m
5	2:47:59.0	+16:10:20	Ari	31.72	4h08m	11h57m	50	19h48m
6	2:51:50.6	+16:27:23	Ari	31.71	4h06m	11h57m	51	19h50m
7	2:55:42.6	+16:44:09	Ari	31.70	4h03m	11h57m	51	19h52m
8	2:59:35.3	+17:00:39	Ari	31.70	4h01m	11h57m	51	19h54m
9	3:03:28.5	+17:16:51	Ari	31.69	3h59m	11h57m	51	19h56m
10	3:07:22.2	+17:32:47	Ari	31.68	3h57m	11h57m	52	19h58m
11	3:11:16.6	+17:48:24	Ari	31.67	3h55m	11h57m	52	20h00m
12	3:15:11.5	+18:03:44	Ari	31.67	3h53m	11h57m	52	20h02m
13	3:19:06.9	+18:18:45	Ari	31.66	3h51m	11h57m	53	20h04m
14	3:23:03.0	+18:33:28	Ari	31.65	3h50m	11h57m	53	20h06m
15	3:26:59.6	+18:47:52	Tau	31.65	3h48m	11h57m	53	20h08m
16	3:30:56.9	+19:01:57	Tau	31.64	3h46m	11h57m	53	20h09m
17	3:34:54.7	+19:15:43	Tau	31.63	3h44m	11h57m	53	20h11m
18	3:38:53.0	+19:29:09	Tau	31.63	3h42m	11h57m	54	20h13m
19	3:42:52.0	+19:42:16	Tau	31.62	3h41m	11h57m	54	20h15m
20	3:46:51.5	+19:55:02	Tau	31.61	3h39m	11h57m	54	20h17m
21	3:50:51.6	+20:07:28	Tau	31.61	3h37m	11h57m	54	20h18m
22	3:54:52.2	+20:19:34	Tau	31.60	3h36m	11h57m	54	20h20m
23	3:58:53.4	+20:31:19	Tau	31.59	3h34m	11h57m	55	20h22m
24	4:02:55.1	+20:42:42	Tau	31.59	3h33m	11h58m	55	20h23m
25	4:06:57.3	+20:53:45	Tau	31.58	3h31m	11h58m	55	20h25m
26	4:11:00.0	+21:04:25	Tau	31.58	3h30m	11h58m	55	20h27m
27	4:15:03.3	+21:14:44	Tau	31.57	3h29m	11h58m	55	20h28m
28	4:19:06.9	+21:24:41	Tau	31.57	3h27m	11h58m	56	20h30m
29	4:23:11.1	+21:34:16	Tau	31.56	3h26m	11h58m	56	20h31m
30	4:27:15.6	+21:43:28	Tau	31.56	3h25m	11h58m	56	20h33m
31	4:31:20.6	+21:52:18	Tau	31.55	3h24m	11h58m	56	20h34m

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

Д	α (2000.0)	δ (2000.0)	созв	диам	восход	ВК	Вс	заход
1	4:35:26.0	+22:00:44	Tau	31.55	3h23m	11h59m	56	20h35m
2	4:39:31.7	+22:08:48	Tau	31.54	3h22m	11h59m	56	20h37m
3	4:43:37.8	+22:16:28	Tau	31.54	3h21m	11h59m	56	20h38m
4	4:47:44.3	+22:23:45	Tau	31.53	3h20m	11h59m	56	20h39m
5	4:51:51.1	+22:30:39	Tau	31.53	3h19m	11h59m	57	20h40m
6	4:55:58.2	+22:37:08	Tau	31.52	3h18m	11h59m	57	20h41m
7	5:00:05.7	+22:43:14	Tau	31.52	3h17m	12h00m	57	20h42m
8	5:04:13.4	+22:48:56	Tau	31.52	3h17m	12h00m	57	20h43m
9	5:08:21.3	+22:54:14	Tau	31.51	3h16m	12h00m	57	20h44m
10	5:12:29.5	+22:59:08	Tau	31.51	3h15m	12h00m	57	20h45m
11	5:16:38.0	+23:03:37	Tau	31.51	3h15m	12h00m	57	20h46m
12	5:20:46.7	+23:07:43	Tau	31.50	3h15m	12h01m	57	20h47m
13	5:24:55.5	+23:11:23	Tau	31.50	3h14m	12h01m	57	20h48m
14	5:29:04.6	+23:14:39	Tau	31.50	3h14m	12h01m	57	20h48m
15	5:33:13.8	+23:17:31	Tau	31.49	3h14m	12h01m	57	20h49m
16	5:37:23.1	+23:19:58	Tau	31.49	3h14m	12h01m	57	20h49m
17	5:41:32.6	+23:22:00	Tau	31.49	3h14m	12h02m	57	20h50m
18	5:45:42.1	+23:23:38	Tau	31.48	3h14m	12h02m	57	20h50m
19	5:49:51.7	+23:24:50	Tau	31.48	3h14m	12h02m	57	20h51m
20	5:54:01.4	+23:25:38	Tau	31.48	3h14m	12h02m	57	20h51m
21	5:58:11.1	+23:26:02	Tau	31.48	3h14m	12h03m	57	20h51m
22	6:02:20.7	+23:26:00	Gem	31.47	3h14m	12h03m	57	20h51m
23	6:06:30.4	+23:25:34	Gem	31.47	3h14m	12h03m	57	20h51m
24	6:10:40.0	+23:24:43	Gem	31.47	3h15m	12h03m	57	20h51m
25	6:14:49.5	+23:23:27	Gem	31.47	3h15m	12h03m	57	20h51m
26	6:18:58.8	+23:21:46	Gem	31.47	3h16m	12h04m	57	20h51m
27	6:23:08.1	+23:19:41	Gem	31.47	3h16m	12h04m	57	20h51m
28	6:27:17.1	+23:17:11	Gem	31.47	3h17m	12h04m	57	20h51m
29	6:31:26.0	+23:14:17	Gem	31.46	3h18m	12h04m	57	20h50m
30	6:35:34.6	+23:10:58	Gem	31.46	3h18m	12h04m	57	20h50m

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

Д	α (2000.0)	δ (2000.0)	созв	диам	восход	ВК	Вс	заход
1	6:39:43.0	+23:07:15	Gem	31.46	3h19m	12h05m	57	20h50m
2	6:43:51.0	+23:03:08	Gem	31.46	3h20m	12h05m	57	20h49m
3	6:47:58.9	+22:58:36	Gem	31.46	3h21m	12h05m	57	20h48m
4	6:52:06.3	+22:53:40	Gem	31.46	3h22m	12h05m	57	20h48m
5	6:56:13.5	+22:48:21	Gem	31.46	3h23m	12h05m	57	20h47m
6	7:00:20.3	+22:42:38	Gem	31.46	3h24m	12h05m	57	20h46m
7	7:04:26.8	+22:36:31	Gem	31.46	3h25m	12h06m	57	20h45m
8	7:08:32.9	+22:30:00	Gem	31.46	3h26m	12h06m	56	20h45m
9	7:12:38.5	+22:23:06	Gem	31.46	3h28m	12h06m	56	20h44m
10	7:16:43.8	+22:15:49	Gem	31.47	3h29m	12h06m	56	20h43m
11	7:20:48.7	+22:08:09	Gem	31.47	3h30m	12h06m	56	20h41m
12	7:24:53.1	+22:00:06	Gem	31.47	3h31m	12h06m	56	20h40m
13	7:28:57.0	+21:51:41	Gem	31.47	3h33m	12h06m	56	20h39m
14	7:33:00.5	+21:42:53	Gem	31.47	3h34m	12h07m	56	20h38m
15	7:37:03.6	+21:33:43	Gem	31.47	3h36m	12h07m	55	20h37m
16	7:41:06.1	+21:24:11	Gem	31.47	3h37m	12h07m	55	20h35m
17	7:45:08.2	+21:14:16	Gem	31.47	3h39m	12h07m	55	20h34m
18	7:49:09.8	+21:04:01	Gem	31.47	3h40m	12h07m	55	20h32m
19	7:53:10.8	+20:53:24	Gem	31.48	3h42m	12h07m	55	20h31m
20	7:57:11.4	+20:42:25	Gem	31.48	3h44m	12h07m	55	20h29m
21	8:01:11.3	+20:31:06	Cnc	31.48	3h45m	12h07m	54	20h28m
22	8:05:10.8	+20:19:26	Cnc	31.48	3h47m	12h07m	54	20h26m
23	8:09:09.7	+20:07:26	Cnc	31.49	3h49m	12h07m	54	20h25m
24	8:13:08.0	+19:55:05	Cnc	31.49	3h50m	12h07m	54	20h23m
25	8:17:05.7	+19:42:25	Cnc	31.49	3h52m	12h07m	54	20h21m
26	8:21:02.8	+19:29:24	Cnc	31.49	3h54m	12h07m	53	20h19m
27	8:24:59.3	+19:16:05	Cnc	31.50	3h56m	12h07m	53	20h18m
28	8:28:55.2	+19:02:26	Cnc	31.50	3h57m	12h07m	53	20h16m
29	8:32:50.4	+18:48:29	Cnc	31.50	3h59m	12h07m	53	20h14m
30	8:36:45.1	+18:34:13	Cnc	31.51	4h01m	12h07m	52	20h12m
31	8:40:39.1	+18:19:39	Cnc	31.51	4h03m	12h07m	52	20h10m

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

Д	α (2000.0)	δ (2000.0)	созв	диам	восход	ВК	Вс	заход
1	16:28:02.3	-21:45:25	Oph	32.44	8h08m	11h50m	12	15h31m
2	16:32:21.3	-21:54:39	Oph	32.44	8h09m	11h50m	12	15h31m
3	16:36:40.8	-22:03:28	Oph	32.45	8h11m	11h51m	12	15h30m
4	16:41:01.0	-22:11:51	Oph	32.45	8h12m	11h51m	12	15h29m
5	16:45:21.7	-22:19:49	Oph	32.46	8h14m	11h51m	12	15h28m
6	16:49:43.0	-22:27:20	Oph	32.46	8h15m	11h52m	12	15h28m
7	16:54:04.9	-22:34:25	Oph	32.47	8h17m	11h52m	11	15h27m
8	16:58:27.2	-22:41:04	Oph	32.47	8h18m	11h53m	11	15h27m
9	17:02:50.1	-22:47:17	Oph	32.48	8h19m	11h53m	11	15h27m
10	17:07:13.5	-22:53:02	Oph	32.48	8h21m	11h54m	11	15h26m
11	17:11:37.3	-22:58:20	Oph	32.48	8h22m	11h54m	11	15h26m
12	17:16:01.5	-23:03:12	Oph	32.49	8h23m	11h54m	11	15h26m
13	17:20:26.1	-23:07:35	Oph	32.49	8h24m	11h55m	11	15h26m
14	17:24:51.0	-23:11:32	Oph	32.49	8h25m	11h55m	11	15h26m
15	17:29:16.3	-23:15:00	Oph	32.50	8h26m	11h56m	11	15h26m
16	17:33:41.8	-23:18:01	Oph	32.50	8h27m	11h56m	11	15h26m
17	17:38:07.6	-23:20:34	Oph	32.50	8h28m	11h57m	11	15h26m
18	17:42:33.6	-23:22:39	Oph	32.51	8h29m	11h57m	11	15h26m
19	17:46:59.7	-23:24:16	Sgr	32.51	8h29m	11h58m	11	15h26m
20	17:51:26.0	-23:25:25	Sgr	32.51	8h30m	11h58m	11	15h27m
21	17:55:52.4	-23:26:05	Sgr	32.51	8h30m	11h59m	11	15h27m
22	18:00:18.8	-23:26:17	Sgr	32.52	8h31m	11h59m	11	15h28m
23	18:04:45.3	-23:26:01	Sgr	32.52	8h31m	12h00m	11	15h28m
24	18:09:11.7	-23:25:17	Sgr	32.52	8h32m	12h00m	11	15h29m
25	18:13:38.1	-23:24:05	Sgr	32.52	8h32m	12h01m	11	15h30m
26	18:18:04.4	-23:22:24	Sgr	32.52	8h32m	12h01m	11	15h31m
27	18:22:30.6	-23:20:15	Sgr	32.53	8h32m	12h02m	11	15h32m
28	18:26:56.6	-23:17:38	Sgr	32.53	8h32m	12h02m	11	15h32m
29	18:31:22.4	-23:14:33	Sgr	32.53	8h32m	12h03m	11	15h33m
30	18:35:48.0	-23:11:00	Sgr	32.53	8h32m	12h03m	11	15h35m
31	18:40:13.3	-23:06:59	Sgr	32.53	8h32m	12h04m	11	15h36m

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

Д	α (2000.0)	δ (2000.0)	созв	диам	восход	ВК	Вс	заход
1	10:40:34.3	+8:22:30	Leo	31.70	5h05m	12h01m	42	18h55m
2	10:44:11.7	+8:00:43	Leo	31.70	5h07m	12h00m	42	18h52m
3	10:47:48.9	+7:38:49	Leo	31.71	5h09m	12h00m	41	18h50m
4	10:51:25.8	+7:16:47	Leo	31.72	5h11m	12h00m	41	18h47m
5	10:55:02.4	+6:54:38	Leo	31.73	5h13m	11h59m	41	18h44m
6	10:58:38.8	+6:32:22	Leo	31.73	5h15m	11h59m	40	18h42m
7	11:02:15.0	+6:10:00	Leo	31.74	5h17m	11h59m	40	18h39m
8	11:05:51.0	+5:47:32	Leo	31.75	5h19m	11h58m	40	18h37m
9	11:09:26.8	+5:24:59	Leo	31.76	5h21m	11h58m	39	18h34m
10	11:13:02.5	+5:02:19	Leo	31.77	5h23m	11h58m	39	18h31m
11	11:16:38.0	+4:39:35	Leo	31.77	5h25m	11h57m	38	18h29m
12	11:20:13.4	+4:16:45	Leo	31.78	5h27m	11h57m	38	18h26m
13	11:23:48.8	+3:53:51	Leo	31.79	5h29m	11h57m	38	18h23m
14	11:27:24.1	+3:30:53	Leo	31.80	5h30m	11h56m	37	18h21m
15	11:30:59.3	+3:07:50	Leo	31.81	5h32m	11h56m	37	18h18m
16	11:34:34.6	+2:44:45	Leo	31.82	5h34m	11h55m	36	18h15m
17	11:38:09.8	+2:21:36	Vir	31.82	5h36m	11h55m	36	18h13m
18	11:41:45.0	+1:58:24	Vir	31.83	5h38m	11h55m	36	18h10m
19	11:45:20.3	+1:35:09	Vir	31.84	5h40m	11h54m	35	18h07m
20	11:48:55.6	+1:11:52	Vir	31.85	5h42m	11h54m	35	18h05m
21	11:52:30.9	+0:48:34	Vir	31.86	5h44m	11h54m	35	18h02m
22	11:56:06.3	+0:25:14	Vir	31.87	5h46m	11h53m	34	17h59m
23	11:59:41.9	+0:01:52	Vir	31.88	5h48m	11h53m	34	17h57m
24	12:03:17.5	-0:21:30	Vir	31.88	5h50m	11h53m	33	17h54m
25	12:06:53.2	-0:44:52	Vir	31.89	5h52m	11h52m	33	17h51m
26	12:10:29.1	-1:08:14	Vir	31.90	5h54m	11h52m	33	17h49m
27	12:14:05.2	-1:31:37	Vir	31.91	5h56m	11h52m	32	17h46m
28	12:17:41.4	-1:54:58	Vir	31.92	5h58m	11h51m	32	17h44m
29	12:21:17.9	-2:18:19	Vir	31.93	6h00m	11h51m	31	17h41m
30	12:24:54.6	-2:41:38	Vir	31.94	6h02m	11h51m	31	17h38m

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

Д	α (2000.0)	δ (2000.0)	созв	диам	восход	ВК	Вс	заход
1	12:28:31.5	-3:04:55	Vir	31.95	6h04m	11h50m	31	17h36m
2	12:32:08.7	-3:28:11	Vir	31.96	6h06m	11h50m	30	17h33m
3	12:35:46.2	-3:51:24	Vir	31.97	6h08m	11h50m	30	17h30m
4	12:39:23.9	-4:14:34	Vir	31.98	6h10m	11h49m	30	17h28m
5	12:43:02.1	-4:37:41	Vir	31.99	6h12m	11h49m	29	17h25m
6	12:46:40.6	-5:00:45	Vir	32.00	6h14m	11h49m	29	17h23m
7	12:50:19.4	-5:23:45	Vir	32.00	6h16m	11h48m	28	17h20m
8	12:53:58.7	-5:46:41	Vir	32.01	6h18m	11h48m	28	17h17m
9	12:57:38.4	-6:09:33	Vir	32.02	6h20m	11h48m	28	17h15m
10	13:01:18.6	-6:32:19	Vir	32.03	6h22m	11h48m	27	17h12m
11	13:04:59.2	-6:55:01	Vir	32.04	6h24m	11h47m	27	17h10m
12	13:08:40.4	-7:17:37	Vir	32.05	6h26m	11h47m	26	17h07m
13	13:12:22.0	-7:40:07	Vir	32.06	6h28m	11h47m	26	17h05m
14	13:16:04.3	-8:02:31	Vir	32.07	6h30m	11h47m	26	17h02m
15	13:19:47.0	-8:24:49	Vir	32.08	6h32m	11h46m	25	17h00m
16	13:23:30.3	-8:46:59	Vir	32.09	6h34m	11h46m	25	16h57m
17	13:27:14.2	-9:09:02	Vir	32.09	6h36m	11h46m	25	16h55m
18	13:30:58.7	-9:30:57	Vir	32.10	6h38m	11h46m	24	16h52m
19	13:34:43.9	-9:52:44	Vir	32.11	6h40m	11h46m	24	16h50m
20	13:38:29.6	-10:14:23	Vir	32.12	6h43m	11h45m	24	16h47m
21	13:42:16.0	-10:35:52	Vir	32.13	6h45m	11h45m	23	16h45m
22	13:46:03.0	-10:57:12	Vir	32.14	6h47m	11h45m	23	16h43m
23	13:49:50.7	-11:18:23	Vir	32.15	6h49m	11h45m	22	16h40m
24	13:53:39.1	-11:39:22	Vir	32.16	6h51m	11h45m	22	16h38m
25	13:57:28.1	-12:00:12	Vir	32.17	6h53m	11h45m	22	16h36m
26	14:01:17.9	-12:20:50	Vir	32.18	6h55m	11h45m	21	16h33m
27	14:05:08.4	-12:41:17	Vir	32.18	6h57m	11h45m	21	16h31m
28	14:08:59.6	-13:01:32	Vir	32.19	6h59m	11h44m	21	16h29m
29	14:12:51.5	-13:21:34	Vir	32.20	7h02m	11h44m	20	16h26m
30	14:16:44.1	-13:41:24	Vir	32.21	7h04m	11h44m	20	16h24m
31	14:20:37.6	-14:01:01	Vir	32.22	7h06m	11h44m	20	16h22m

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

Д	α (2000.0)	δ (2000.0)	созв	диам	восход	ВК	Вс	заход
1	14:24:31.8	-14:20:25	Lib	32.23	7h08m	11h44m	19	16h20m
2	14:28:26.7	-14:39:34	Lib	32.24	7h10m	11h44m	19	16h18m
3	14:32:22.5	-14:58:29	Lib	32.25	7h12m	11h44m	19	16h16m
4	14:36:19.1	-15:17:10	Lib	32.25	7h14m	11h44m	19	16h13m
5	14:40:16.5	-15:35:36	Lib	32.26	7h16m	11h44m	18	16h11m
6	14:44:14.7	-15:53:46	Lib	32.27	7h19m	11h44m	18	16h09m
7	14:48:13.8	-16:11:40	Lib	32.28	7h21m	11h44m	18	16h07m
8	14:52:13.7	-16:29:18	Lib	32.29	7h23m	11h44m	17	16h05m
9	14:56:14.5	-16:46:40	Lib	32.29	7h25m	11h45m	17	16h03m
10	15:00:16.1	-17:03:44	Lib	32.30	7h27m	11h45m	17	16h02m
11	15:04:18.6	-17:20:31	Lib	32.31	7h29m	11h45m	17	16h00m
12	15:08:22.0	-17:37:01	Lib	32.32	7h31m	11h45m	16	15h58m
13	15:12:26.3	-17:53:12	Lib	32.32	7h33m	11h45m	16	15h56m
14	15:16:31.4	-18:09:05	Lib	32.33	7h35m	11h45m	16	15h54m
15	15:20:37.4	-18:24:38	Lib	32.34	7h37m	11h45m	15	15h53m
16	15:24:44.2	-18:39:53	Lib	32.34	7h39m	11h45m	15	15h51m
17	15:28:51.9	-18:54:47	Lib	32.35	7h42m	11h46m	15	15h49m
18	15:33:00.4	-19:09:22	Lib	32.36	7h44m	11h46m	15	15h48m
19	15:37:09.8	-19:23:36	Lib	32.36	7h46m	11h46m	14	15h46m
20	15:41:20.0	-19:37:29	Lib	32.37	7h48m	11h46m	14	15h45m
21	15:45:31.0	-19:51:00	Lib	32.38	7h50m	11h47m	14	15h43m
22	15:49:42.8	-20:04:10	Lib	32.38	7h51m	11h47m	14	15h42m
23	15:53:55.3	-20:16:58	Lib	32.39	7h53m	11h47m	14	15h40m
24	15:58:08.7	-20:29:23	Sco	32.40	7h55m	11h47m	13	15h39m
25	16:02:22.8	-20:41:26	Sco	32.40	7h57m	11h48m	13	15h38m
26	16:06:37.6	-20:53:06	Sco	32.41	7h59m	11h48m	13	15h37m
27	16:10:53.2	-21:04:22	Sco	32.42	8h01m	11h48m	13	15h35m
28	16:15:09.5	-21:15:14	Sco	32.42	8h03m	11h49m	13	15h34m
29	16:19:26.4	-21:25:42	Sco	32.43	8h04m	11h49m	13	15h33m
30	16:23:44.1	-21:35:46	Oph	32.43	8h06m	11h49m	12	15h32m

ЛУНА

Фазы Луны в 1901 – 2100 годах

(UT, с указанием затмений: Т(t) – полное, А – кольцеобразное, Р(p) – частное, п – полутеневое)

Год	Новолуние	1 четверть	Полнолуние	Посл. четверть	Delta T
1916	Jan 5 04:45	Jan 12 03:37	Jan 20 08:29 p	Jan 28 00:35	
	Feb 3 16:05 T	Feb 10 22:20	Feb 19 02:28	Feb 26 09:24	
	Mar 4 03:57	Mar 11 18:33	Mar 19 17:26	Mar 26 16:22	
	Apr 2 16:21	Apr 10 14:35	Apr 18 05:07	Apr 24 22:38	
	May 2 05:29	May 10 08:47	May 17 14:11	May 24 05:16	
	May 31 19:37	Jun 8 23:58	Jun 15 21:41	Jun 22 13:16	
	Jun 30 10:43	Jul 8 11:55	Jul 15 04:40 p	Jul 21 23:33	
	Jul 30 02:15 A	Aug 6 21:05	Aug 13 12:00	Aug 20 12:52	
	Aug 28 17:24	Sep 5 04:26	Sep 11 20:30	Sep 19 05:35	
	Sep 27 07:34	Oct 4 11:00	Oct 11 07:01	Oct 19 01:08	
	Oct 26 20:37	Nov 2 17:50	Nov 9 20:18	Nov 17 22:00	
	Nov 25 00:50	Dec 2 01:55	Dec 9 12:43	Dec 17 18:06	
	Dec 24 20:31 P	Dec 31 12:07			
1917			Jan 8 07:42 t	Jan 16 11:42	
	Jan 23 07:40 P	Jan 30 01:01	Feb 7 03:28	Feb 15 01:53	
	Feb 21 18:09	Feb 28 16:43	Mar 8 21:58	Mar 16 12:33	
	Mar 23 04:05	Mar 30 10:36	Apr 7 13:49	Apr 14 20:12	
	Apr 21 14:01	Apr 29 05:22	May 7 02:43	May 14 01:48	
	May 21 00:46	May 28 23:33	Jun 5 13:06	Jun 12 06:38	
	Jun 19 13:02 P	Jun 27 16:08	Jul 4 21:40 t	Jul 11 12:12	
	Jul 19 03:00 P	Jul 27 06:40	Aug 3 05:10	Aug 9 19:56	
	Aug 17 18:21	Aug 25 19:08	Sep 1 12:28	Sep 8 07:05	
	Sep 16 10:27	Sep 24 05:41	Sep 30 20:31	Oct 7 22:14	
	Oct 16 02:41	Oct 23 14:37	Oct 30 06:19	Nov 6 17:03	
	Nov 14 18:28	Nov 21 22:29	Nov 28 18:41	Dec 6 14:13	
	Dec 14 09:17 A	Dec 21 06:07	Dec 28 09:51 t		
1918				Jan 5 11:49	
	Jan 12 22:35	Jan 19 14:38	Jan 27 03:14	Feb 4 07:52	
	Feb 11 10:04	Feb 18 00:57	Feb 25 21:34	Mar 6 00:43	
	Mar 12 19:52	Mar 19 13:30	Mar 27 15:33	Apr 4 13:33	
	Apr 11 04:34	Apr 18 04:07	Apr 26 08:05	May 3 22:26	
	May 10 13:01	May 17 20:14	May 25 22:32	Jun 2 04:20	
	Jun 8 22:02 T	Jun 16 13:11	Jun 24 10:38 p	Jul 1 08:43	
	Jul 8 08:22	Jul 16 06:24	Jul 23 20:34	Jul 30 13:14	
	Aug 6 20:29	Aug 14 23:16	Aug 22 05:02	Aug 28 19:27	
	Sep 5 10:43	Sep 13 15:02	Sep 20 13:01	Sep 27 04:38	
	Oct 5 03:05	Oct 13 04:59	Oct 19 21:34	Oct 26 17:35	
	Nov 3 21:01	Nov 11 16:46	Nov 18 07:33	Nov 25 10:25	
	Dec 3 15:19 A	Dec 11 02:31	Dec 17 19:17 n	Dec 25 06:30	
1919	Jan 2 08:24	Jan 9 10:55	Jan 16 08:44	Jan 24 04:22	
	Jan 31 23:07	Feb 7 18:52	Feb 14 23:38	Feb 23 01:47	
	Mar 2 11:11	Mar 9 03:14	Mar 16 15:41	Mar 24 20:34	
	Mar 31 21:04	Apr 7 12:38	Apr 15 08:25	Apr 23 11:21	
	Apr 30 05:30	May 6 23:33	May 15 01:01 n	May 22 22:04	
	May 29 13:12 T	Jun 5 12:22	Jun 13 16:28	Jun 21 05:33	
	Jun 27 20:52	Jul 5 03:17	Jul 13 06:02	Jul 20 11:03	
	Jul 27 05:21	Aug 3 20:11	Aug 11 17:39	Aug 18 15:56	
	Aug 25 15:37	Sep 2 14:21	Sep 10 03:54	Sep 16 21:32	
	Sep 24 04:33	Oct 2 08:37	Oct 9 13:38	Oct 16 05:05	
	Oct 23 20:39	Nov 1 01:43	Nov 7 23:35 p	Nov 14 15:40	
	Nov 22 15:19 A	Nov 30 16:47	Dec 7 10:03	Dec 14 06:02	
	Dec 22 10:55	Dec 30 05:25			
1920			Jan 5 21:05	Jan 13 00:08	
	Jan 21 05:27	Jan 28 15:38	Feb 4 08:42	Feb 11 20:49	
	Feb 19 21:34	Feb 26 23:49	Mar 4 21:12	Mar 12 17:57	
	Mar 20 10:55	Mar 27 06:45	Apr 3 10:54	Apr 11 13:24	
	Apr 18 21:43	Apr 25 13:27	May 3 01:47 t	May 11 05:51	
	May 18 06:25 P	May 24 21:07	Jun 1 17:18	Jun 9 18:58	
	Jun 16 13:41	Jun 23 06:49	Jul 1 08:40	Jul 9 05:05	
	Jul 15 20:25	Jul 22 19:20	Jul 30 23:19	Aug 7 12:50	
	Aug 14 03:44	Aug 21 10:52	Aug 29 13:02	Sep 5 19:05	
	Sep 12 12:51	Sep 20 04:55	Sep 28 01:56	Oct 5 00:53	
	Oct 12 00:50	Oct 20 00:28	Oct 27 14:09 t	Nov 3 07:35	
	Nov 10 16:05 P	Nov 18 20:12	Nov 26 01:42	Dec 2 16:29	
	Dec 10 10:04	Dec 18 14:40	Dec 25 12:38		

Год	Новолуние	1 четверть	Полнолуние	Посл. четверть	Delta T
1901			Jan 5 00:13	Jan 12 20:38	00h00m
	Jan 20 14:36	Jan 27 09:52	Feb 3 15:30	Feb 11 18:12	
	Feb 19 02:45	Feb 25 18:38	Mar 5 08:04	Mar 13 13:06	
	Mar 20 12:53	Mar 27 04:39	Apr 4 01:20	Apr 12 03:57	
	Apr 18 21:37	Apr 25 16:15	May 3 18:19 n	May 11 14:38	
	May 18 05:38 T	May 25 05:39	Jun 2 09:53	Jun 9 22:00	
	Jun 16 13:33	Jun 23 20:59	Jul 1 23:18	Jul 9 03:20	
	Jul 15 22:10	Jul 23 13:58	Jul 31 10:34	Aug 7 08:02	
	Aug 14 08:27	Aug 22 07:52	Aug 29 20:21	Sep 5 13:27	
	Sep 12 21:19	Sep 21 01:33	Sep 28 05:36	Oct 4 20:53	
	Oct 12 13:11	Oct 20 17:58	Oct 27 15:06 p	Nov 3 07:25	
	Nov 11 07:34 A	Nov 19 08:23	Nov 26 01:18	Dec 2 21:50	
	Dec 11 02:53	Dec 18 20:35	Dec 25 12:16		
1902				Jan 1 16:08	00h00m
	Jan 9 21:14	Jan 17 06:38	Jan 24 00:06	Jan 31 13:08	
	Feb 8 13:21	Feb 15 14:56	Feb 22 13:03	Mar 1 10:39	
	Mar 10 02:50	Mar 16 22:13	Mar 24 03:21	Apr 1 06:24	
	Apr 8 13:50 P	Apr 15 05:26	Apr 22 18:49 t	Apr 30 22:58	
	May 7 22:45 P	May 14 13:40	May 22 10:46	May 30 12:00	
	Jun 6 06:11	Jun 12 23:54	Jun 21 02:17	Jun 28 21:52	
	Jul 5 12:59	Jul 12 12:46	Jul 20 16:45	Jul 28 05:15	
	Aug 3 20:17	Aug 11 04:24	Aug 19 06:03	Aug 26 11:04	
	Sep 2 05:19	Sep 9 22:15	Sep 17 18:23	Sep 24 16:32	
	Oct 1 17:09	Oct 9 17:21	Oct 17 06:01 t	Oct 23 22:58	
	Oct 31 08:14 P	Nov 8 12:30	Nov 15 17:06	Nov 22 07:47	
	Nov 30 02:04	Dec 8 06:27	Dec 15 03:47	Dec 21 20:00	
Dec 29 21:25					
1903				Jan 28 11:49	00h00m
	Jan 28 16:39	Feb 5 10:12	Feb 12 00:58	Feb 19 06:23	
	Feb 27 10:19	Mar 6 19:14	Mar 13 12:13	Mar 21 02:08	
	Mar 29 01:26 A	Apr 5 01:51	Apr 12 00:18 p	Apr 19 21:30	
	Apr 27 13:31	May 4 07:26	May 11 13:18	May 19 15:18	
	May 26 22:50	Jun 2 13:24	Jun 10 03:08	Jun 18 06:44	
	Jun 25 06:11	Jul 1 21:02	Jul 9 17:43	Jul 17 19:24	
	Jul 24 12:46	Jul 31 07:14	Aug 8 08:54	Aug 16 05:23	
	Aug 22 19:51	Aug 29 20:34	Sep 7 00:20	Sep 14 13:14	
	Sep 21 04:31 T	Sep 28 13:08	Oct 6 15:24 p	Oct 13 19:57	
	Oct 20 15:30	Oct 28 08:33	Nov 5 05:27	Nov 12 02:46	
	Nov 19 05:10	Nov 27 05:37	Dec 4 18:13	Dec 11 10:53	
	Dec 18 21:26	Dec 27 02:22			
1904			Jan 3 05:47	Jan 9 21:10	00h00m
	Jan 17 15:47	Jan 25 20:41	Feb 1 16:33	Feb 8 09:56	
	Feb 16 11:05	Feb 24 11:08	Mar 2 02:48 n	Mar 9 01:01	
	Mar 17 05:39 A	Mar 24 21:36	Mar 31 12:44 n	Apr 7 17:53	
	Apr 15 21:53	Apr 23 04:55	Apr 29 22:36	May 7 11:50	
	May 15 10:58	May 22 10:19	May 29 08:54	Jun 6 05:52	
	Jun 13 21:10	Jun 20 15:10	Jun 27 09:42	Jul 5 22:54	
	Jul 13 05:27	Jul 19 20:48	Jul 27 09:42	Aug 4 14:03	
	Aug 11 12:58	Aug 18 04:27	Aug 26 01:02	Sep 3 02:58	
	Sep 9 20:43 T	Sep 16 15:12	Sep 24 17:50 n	Oct 2 13:52	
	Oct 9 05:25	Oct 16 05:54	Oct 24 10:56	Oct 31 23:13	
	Nov 7 15:37	Nov 15 00:35	Nov 23 03:12	Nov 30 07:38	
	Dec 7 03:46	Dec 14 22:07	Dec 22 18:01	Dec 29 15:46	
1905			Jan 21 07:14	Jan 28 00:20	00h00m
	Jan 5 18:17	Jan 13 20:11	Feb 19 18:52 p	Feb 26 10:04	
	Feb 4 11:06	Feb 12 16:20	Mar 21 04:55	Mar 27 21:35	
	Mar 6 05:19 A	Mar 14 08:59	Apr 19 13:38	Apr 26 11:13	
	Apr 4 23:23	Apr 12 21:41	Apr 19 13:38	May 26 02:50	
	May 4 15:50	May 12 06:46	May 18 21:36	Jun 24 19:46	
	Jun 3 05:56	Jun 10 13:04	Jun 17 05:51	Jun 24 13:08	
	Jul 2 17:50	Jul 9 17:46	Jul 16 15:31	Jul 24 13:08	
	Aug 1 04:02	Aug 7 22:16	Aug 15 03:31 p	Aug 23 06:10	
	Aug 30 13:13 T	Sep 6 04:09	Sep 13 18:10	Sep 21 22:13	
	Sep 28 21:59	Sep 5 12:54	Oct 13 11:03	Oct 21 12:51	
	Oct 28 06:58	Nov 4 01:39	Nov 12 05:11	Nov 20 01:34	
	Nov 26 16:47	Dec 3 18:37	Dec 11 23:25	Dec 19 12:09	
Dec 26 04:04					

Год	Новолуние	1 четверть	Полнолуние	Посл. четверть	Delta T	Год	Новолуние	1 четверть	Полнолуние	Посл. четверть	Delta T
1906	Jan 24 17:09	Jan 2 14:52	Jan 10 16:36	Jan 17 20:49		1911	Jan 30 09:44	Jan 8 06:20	Jan 14 22:26	Jan 22 06:21	
	Feb 23 07:57 P	Feb 1 12:31	Feb 9 07:46 t	Feb 16 04:22			Jan 1 00:31	Feb 6 15:27	Feb 13 10:37	Feb 21 03:44	
	Mar 24 23:52	Mar 3 09:28	Mar 10 20:17	Mar 17 11:57			Mar 30 12:37	Mar 7 23:01	Mar 14 23:58	Mar 23 00:26	
	Apr 23 16:07	Apr 2 04:02	Apr 9 06:12	Apr 15 20:37			Apr 28 22:25 T	Apr 6 05:55	Apr 13 14:36	Apr 21 18:35	
	May 23 08:01	May 1 19:07	May 8 14:09	May 15 07:03			May 28 06:24	May 5 13:13	May 13 06:09 n	May 21 09:23	
	Jun 21 23:06	May 31 06:23	Jun 6 21:12	Jun 13 19:34			Jun 26 13:19	Jun 3 22:04	Jun 11 21:50	Jun 19 20:50	
	Jul 21 12:59 P	Jun 29 14:19	Jul 6 04:27	Jul 13 10:13			Jul 25 20:12	Jul 3 09:20	Jul 11 12:53	Jul 19 05:31	
	Aug 20 01:27 P	Jul 28 19:56	Aug 4 12:59 t	Aug 12 02:48			Aug 24 04:14	Aug 1 23:29	Aug 10 02:54	Aug 17 12:10	
	Sep 18 12:33	Aug 27 00:42	Sep 2 23:36	Sep 10 20:53			Sep 22 14:37	Aug 31 16:20	Sep 8 15:56	Sep 15 17:51	
	Oct 17 22:43	Sep 25 06:11	Oct 2 12:48	Oct 10 15:39			Oct 22 04:09 A	Sep 30 11:08	Oct 8 04:11	Oct 14 23:46	
	Nov 16 08:36	Oct 24 13:50	Nov 1 04:46	Nov 9 09:45			Nov 20 20:49	Oct 30 06:41	Nov 6 15:48 n	Nov 13 07:19	
	Dec 15 18:54	Nov 23 00:39	Nov 30 23:07	Dec 9 01:45			Dec 20 15:40	Nov 29 01:42	Dec 6 02:52	Dec 12 17:45	
		Dec 22 15:04	Dec 30 18:44					Dec 28 18:47			
1907	Jan 14 05:57 T	Jan 21 08:42	Jan 29 13:45 p	Jan 7 14:47		1912	Jan 19 11:10	Jan 27 08:51	Jan 4 13:29	Jan 11 07:43	
	Feb 12 17:43	Feb 20 04:35	Feb 28 06:23	Feb 6 00:52			Feb 18 05:44	Feb 25 19:26	Feb 3 10:42	Feb 10 19:55	
	Mar 14 06:05	Mar 22 01:09	Mar 29 19:44	Mar 7 08:42			Mar 18 22:08	Mar 26 03:02	Mar 5 15:24	Mar 12 15:24	
	Apr 12 19:06	Apr 20 20:38	Apr 28 06:04	Apr 5 15:20			Apr 17 11:40 A	Apr 24 08:47	Apr 1 10:19	Apr 9 09:56	
	May 12 08:59	May 20 13:27	May 27 14:18	May 4 21:53			May 16 22:13	May 23 14:11	May 30 23:29	May 8 02:35	
	Jun 10 23:50	Jun 19 02:55	Jun 25 21:27	Jun 3 05:19			Jun 15 06:23	Jun 21 20:39	Jun 29 13:34	Jun 7 16:47	
	Jul 10 15:17 A	Jul 18 13:11	Jul 25 04:29 p	Jul 2 14:34			Jul 14 13:13	Jul 21 05:18	Jul 29 04:28	Jul 6 04:17	
	Aug 9 06:36	Aug 16 21:05	Aug 23 12:15	Aug 1 02:25			Aug 12 19:57	Aug 19 16:56	Aug 27 19:59	Aug 4 13:23	
	Sep 7 21:04	Sep 15 03:40	Sep 21 21:34	Sep 29 11:37			Sep 11 03:48	Sep 18 07:54	Sep 26 11:34 p	Sep 3 20:48	
	Oct 7 10:21	Oct 14 10:02	Oct 21 09:16	Oct 29 07:52			Oct 10 13:40 T	Oct 18 02:06	Oct 26 02:30	Oct 2 03:37	
	Nov 5 22:39	Nov 12 17:14	Nov 20 00:04	Nov 28 04:21			Nov 9 02:05	Nov 16 22:43	Nov 24 16:12	Nov 1 11:05	
	Dec 5 10:22	Dec 12 02:16	Dec 19 17:55	Dec 27 23:11			Dec 8 17:07	Dec 16 20:06	Dec 24 04:30	Dec 30 20:12	
	1908	Jan 3 21:43 T	Jan 10 13:53	Jan 18 13:37 n	Jan 26 15:01			1913	Jan 7 10:28	Jan 15 16:01	Jan 22 15:40
Feb 2 08:36		Feb 9 04:27	Feb 17 09:05	Feb 25 03:24		Feb 6 05:22	Feb 14 08:34		Feb 21 02:03	Feb 27 21:15	
Mar 2 18:57		Mar 9 21:42	Mar 18 02:28	Mar 25 12:32		Mar 8 00:22	Mar 15 20:58		Mar 22 11:56 t	Mar 29 12:57	
Apr 1 05:02		Apr 8 16:31	Apr 16 16:55	Apr 23 19:07		Apr 6 17:48 P	Apr 14 05:39		Apr 20 21:32	Apr 28 06:09	
Apr 30 15:33		May 8 11:23	May 16 04:32	May 23 00:17		May 6 08:24	May 13 11:45		May 20 07:18	May 28 00:03	
May 30 03:14		Jun 7 04:56	Jun 14 13:55 n	Jun 21 05:26		Jun 4 19:57	Jun 11 16:37		Jun 18 17:53	Jun 26 17:40	
Jun 28 16:31 A		Jul 6 20:25	Jul 13 21:48 n	Jul 20 12:02		Jul 4 05:06	Jul 10 21:37		Jul 18 06:06	Jul 26 09:58	
Jul 28 07:17		Aug 5 09:40	Aug 12 04:58	Aug 18 21:25		Aug 2 12:58	Aug 9 04:03		Aug 16 20:27	Aug 25 00:18	
Aug 26 22:59		Sep 3 20:51	Sep 10 12:23	Sep 17 10:33		Aug 31 20:38 P	Sep 7 13:05		Sep 15 12:46 t	Sep 23 12:30	
Sep 25 14:59		Oct 3 06:13	Oct 9 21:03	Oct 17 03:35		Sep 30 04:56 P	Oct 7 01:46		Oct 15 06:07	Oct 22 22:53	
Oct 25 06:46		Nov 1 14:16	Nov 8 07:58	Nov 15 23:41		Oct 29 14:29	Nov 5 18:34		Nov 13 23:11	Nov 21 07:56	
Nov 23 21:53		Nov 30 21:44	Dec 7 21:44 n	Dec 15 21:12		Nov 28 01:41	Dec 5 14:58		Dec 13 15:00	Dec 20 16:15	
Dec 23 11:50 A		Dec 30 05:40				Dec 27 14:58					
1909	Jan 22 00:12	Jan 28 15:07	Jan 6 14:12	Jan 14 18:11		1914	Jan 26 06:34	Jan 4 13:09	Jan 12 05:09	Jan 19 00:29	
	Feb 20 10:52	Feb 27 02:49	Feb 5 08:24	Feb 13 12:47			Feb 25 00:02 A	Feb 3 10:32	Feb 10 17:34	Feb 17 09:23	
	Mar 21 20:11	Mar 28 16:48	Mar 7 02:55	Mar 15 03:41			Mar 26 18:09	Mar 5 05:03	Mar 12 04:18 p	Mar 18 19:39	
	Apr 20 04:51	Apr 27 08:36	Apr 5 20:28	Apr 13 14:30			Apr 25 11:21	Apr 3 19:41	Apr 10 13:28	Apr 17 07:52	
	May 19 13:42	May 27 01:27	May 5 12:08	May 12 21:45			May 25 11:21	May 3 06:29	May 9 21:30	May 16 22:12	
	Jun 17 23:28 H	Jun 25 18:43	Jun 4 01:24 t	Jun 11 02:42			May 25 02:34	Jun 1 14:03	Jun 8 05:18	Jun 15 14:20	
	Jul 17 10:44	Jul 25 11:45	Jul 3 12:17	Jul 10 06:58			Jun 23 15:33	Jun 30 19:24	Jul 7 13:59	Jul 15 07:32	
	Aug 15 23:55	Aug 24 03:55	Aug 1 21:14	Aug 8 12:10			Jul 23 02:38	Jul 29 23:51	Aug 6 00:40	Aug 14 00:56	
	Sep 14 15:08	Sep 22 18:31	Aug 31 05:08	Sep 6 19:44			Aug 21 12:26 T	Aug 28 04:52	Sep 4 17:48	Sep 12 17:48	
	Oct 14 08:13	Oct 22 07:03	Sep 29 13:05	Oct 6 06:44			Sep 19 21:33	Sep 26 12:03	Oct 4 05:59	Oct 12 09:33	
	Nov 13 02:18	Nov 20 17:29	Oct 28 22:07	Nov 4 21:38			Oct 19 06:33	Oct 25 22:44	Nov 2 23:48	Nov 10 23:37	
	Dec 12 19:58 P	Dec 20 02:18	Nov 27 08:52 t	Dec 4 16:12			Nov 17 16:02	Nov 24 13:38	Dec 2 18:20	Dec 10 11:31	
			Dec 26 21:30				Dec 17 02:35	Dec 24 08:24			
1910	Jan 11 11:51	Jan 18 10:20	Jan 25 11:50	Jan 3 13:27		1915	Jan 15 14:42	Jan 23 05:32	Jan 1 12:20	Jan 8 21:12	
	Feb 10 01:13	Feb 16 18:32	Feb 24 03:36	Feb 2 11:27			Feb 14 04:31 A	Feb 22 02:58	Jan 31 04:41 n	Feb 7 05:11	
	Mar 11 12:12	Mar 18 03:37	Mar 25 20:21	Mar 3 00:48			Mar 15 19:42	Mar 23 22:47	Mar 1 18:32 n	Mar 8 12:27	
	Apr 9 21:25	Apr 16 14:04	Apr 24 13:22	May 2 13:29			Apr 14 11:35	Apr 22 15:38	Mar 31 05:37	Apr 6 20:12	
	May 9 05:33 T	May 16 02:13	May 24 05:39 t	May 31 22:24			May 14 03:31	May 22 04:49	Apr 29 14:19	May 6 05:22	
	Jun 7 13:16	Jun 14 16:19	Jun 22 20:12	Jun 30 04:39			Jun 12 18:57	Jun 20 14:24	May 28 21:33	Jun 4 16:32	
	Jul 6 21:20	Jul 14 08:24	Jul 22 08:37	Jul 29 09:34			Jul 12 09:30	Jul 20 21:08	Jun 27 04:27	Jul 4 05:54	
	Aug 5 06:37	Aug 13 02:01	Aug 20 19:14	Aug 27 14:33			Aug 10 22:52 A	Aug 18 02:17	Jul 26 12:11 n	Aug 2 21:27	
	Sep 3 18:05	Sep 11 20:10	Sep 19 04:52	Sep 25 20:54			Sep 9 10:52	Sep 16 07:21	Aug 24 21:40 n	Sep 1 14:56	
	Oct 3 08:32	Oct 11 13:40	Oct 18 14:24	Oct 25 05:48			Oct 8 21:42	Oct 15 13:51	Sep 23 09:35	Oct 1 09:44	
	Nov 2 01:56 P	Nov 10 05:29	Nov 17 00:25 t	Nov 23 18:13			Nov 7 07:52	Nov 13 23:03	Oct 23 00:15	Oct 31 04:39	
	Dec 1 21:11	Dec 9 19:05	Dec 16 11:05	Dec 23 10:36			Nov 6 18:03	Nov 13 11:38	Nov 21 17:36	Nov 29 22:10	
	Dec 31 16:21								Dec 21 12:52	Dec 29 12:59	

Год	Новолуние	1 четверть	Полнолуние	Посл. четверть	Delta T	Год	Новолуние	1 четверть	Полнолуние	Посл. четверть	Delta T
1926	Jan 14 06:34 T	Jan 20 22:31	Jan 28 21:35 n	Jan 7 07:22		1931	Jan 18 18:36	Jan 27 00:05	Jan 4 13:15	Jan 11 05:09	
	Feb 12 17:20	Feb 19 12:36	Feb 27 16:51	Feb 5 23:25			Feb 17 13:11	Feb 25 16:42	Mar 4 10:36	Mar 11 05:15	
	Mar 14 03:20	Mar 21 05:11	Mar 29 10:00	Mar 7 11:49			Mar 19 07:50	Mar 27 05:04	Apr 2 20:05 t	Apr 9 20:15	
	Apr 12 12:56	Apr 19 23:23	Apr 28 00:16	Apr 5 20:50			Apr 18 01:00 P	Apr 25 13:40	May 2 05:14	May 9 12:48	
	May 11 22:55	May 19 17:48	May 27 11:48	Apr 5 03:13			May 17 15:28	May 24 19:39	May 31 14:33	Jun 8 06:18	
	Jun 10 10:08	Jun 18 11:13	Jun 25 21:13 n	Jun 3 08:09			Jun 16 03:02	Jun 23 00:23	Jun 30 00:47	Jul 7 23:51	
	Jul 9 23:06 A	Jul 18 02:55	Jul 25 05:13 n	Jul 2 13:02			Jul 15 12:20	Jul 22 05:16	Jul 29 12:47	Aug 6 16:28	
	Aug 8 13:48	Aug 16 16:38	Aug 23 12:37	Jul 31 19:25			Aug 13 20:27	Aug 20 11:36	Aug 28 03:09	Sep 5 07:21	
	Sep 7 05:45	Sep 15 04:26	Sep 21 20:19	Aug 30 04:40			Sep 12 04:26 P	Sep 18 20:37	Sep 26 19:45 t	Oct 4 20:15	
	Oct 6 22:13	Oct 14 14:28	Oct 21 05:15	Sep 28 17:47			Oct 11 13:06 P	Oct 18 09:20	Oct 26 13:34	Nov 3 07:17	
	Nov 5 14:34	Nov 12 23:01	Nov 19 16:21	Oct 28 10:57			Nov 9 22:55	Nov 17 02:13	Nov 25 07:10	Dec 2 16:50	
	Dec 5 06:11	Dec 12 06:47	Dec 19 06:09 n	Nov 27 07:15			Dec 9 10:16	Dec 16 22:43	Dec 24 23:23		
	Dec 27 04:59			Dec 27 04:59							
1927	Jan 3 20:28 A	Jan 10 14:43	Jan 17 22:27	Jan 26 02:05		1932	Jan 7 23:29	Jan 15 20:55	Jan 23 13:44	Jan 1 01:23	
	Feb 2 08:54	Feb 8 23:54	Feb 16 16:18	Feb 24 20:42			Feb 6 14:45	Feb 14 18:16	Feb 22 02:07	Feb 28 18:03	
	Mar 3 19:25	Mar 10 11:03	Mar 18 10:24	Mar 26 11:35			Mar 7 07:44 A	Mar 15 12:41	Mar 22 12:37 p	Mar 29 03:44	
	Apr 2 04:24	Apr 9 00:20	Apr 17 03:35	Apr 24 22:21			Apr 6 01:21	Apr 14 03:15	Apr 20 21:27	Apr 27 15:14	
	May 1 12:40	May 8 15:27	May 16 19:03	May 24 05:34			May 5 18:11	May 13 14:02	May 20 05:09	May 27 04:54	
	May 30 21:06	Jun 7 07:48	Jun 15 08:19 t	Jun 22 10:29			Jun 4 09:16	Jun 11 21:39	Jun 18 12:38	Jun 25 20:36	
	Jun 29 06:32 H	Jul 7 00:52	Jul 14 19:22	Jul 21 14:43			Jul 3 22:20	Jul 11 03:07	Jul 17 21:06	Jul 25 13:41	
	Jul 28 17:36	Aug 5 18:05	Aug 13 04:37	Aug 19 19:54			Aug 2 09:42	Aug 9 07:40	Aug 16 07:41	Aug 24 07:21	
	Aug 27 06:45	Sep 4 10:44	Sep 11 12:54	Sep 18 03:29			Aug 31 19:54 T	Sep 7 12:49	Sep 14 21:06 p	Sep 23 00:47	
	Sep 25 22:11	Oct 2 02:01	Oct 10 21:14	Oct 17 14:31			Sep 30 05:30	Oct 6 20:05	Oct 14 13:18	Oct 22 17:14	
	Oct 25 15:37	Nov 2 15:16	Nov 9 06:36	Nov 16 05:28			Oct 29 14:56	Nov 5 06:50	Nov 13 07:28	Nov 21 07:58	
	Nov 24 10:09	Dec 2 02:15	Dec 8 17:32 t	Dec 16 00:04			Nov 28 00:43	Dec 4 21:45	Dec 13 02:21	Dec 20 20:22	
	Dec 24 04:13 P	Dec 31 11:22					Dec 27 11:22				
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	Feb 21 09:41	Feb 28 03:21	Feb 5 20:11	Feb 13 19:05			Feb 24 12:44 A	Mar 4 10:23	Mar 12 02:46 n	Mar 18 21:04	
	Mar 21 20:29	Mar 28 11:54	Mar 6 11:27	Mar 14 15:20			Mar 26 03:20	Apr 3 05:56	Apr 10 13:37	Apr 17 04:17	
	Apr 20 05:25	Apr 26 21:42	Apr 5 03:38	Apr 13 08:09			Apr 24 18:38	May 2 22:39	May 9 22:04	May 16 12:50	
	May 19 13:14 T	May 26 09:11	May 4 20:12	May 12 20:50			May 24 10:07	Jun 1 11:53	Jun 8 05:05	Jun 14 23:25	
	Jun 17 20:42 P	Jun 24 22:47	Jun 3 12:13 t	Jun 11 05:51			Jun 23 01:22	Jun 30 21:40	Jul 7 11:50	Jul 14 12:24	
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	Dec 12 05:06	Dec 20 03:43	Nov 27 09:05 t	Dec 4 02:31			Dec 17 02:53	Dec 23 20:09	Dec 31 20:54		
	Dec 26 19:55										
1929	Jan 11 00:28	Jan 18 15:15	Jan 25 07:09	Jan 2 18:44		1934	Jan 15 13:37	Jan 22 11:50	Jan 30 16:31 p	Jan 8 21:36	
	Feb 9 17:55	Feb 17 00:22	Feb 23 18:58	Feb 1 14:10			Feb 14 00:43 T	Feb 21 06:05	Mar 1 10:26	Mar 8 18:06	
	Mar 11 08:36	Mar 18 07:41	Mar 25 07:46	Mar 3 11:09			Mar 15 12:08	Mar 23 01:44	Mar 31 01:15	Apr 7 00:48	
	Apr 9 20:32	Apr 16 14:09	Apr 23 21:47	Apr 2 07:29			Apr 13 23:57	Apr 21 21:20	Apr 29 12:45	May 6 06:41	
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	Nov 1 12:01 A	Nov 9 14:10	Oct 18 12:06	Oct 25 08:21			Nov 7 04:43	Nov 14 02:39	Nov 21 04:26	Nov 29 05:39	
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	Apr 28 19:08 A	Apr 6 11:25	Apr 13 05:48 p	Apr 20 22:09			Apr 3 12:11	Apr 10 17:42	Apr 18 21:10	Apr 26 04:20	
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	Nov 20 10:21	Oct 29 09:22	Nov 6 10:28	Nov 13 12:27			Oct 27 10:15	Nov 3 23:12	Nov 10 14:42	Nov 18 00:36	
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		Dec 28 03:59					Dec 25 17:49 A				

Год	Новолуние	1 четверть	Полнолуние	Посл. четверть	Delta T	Год	Новолуние	1 четверть	Полнолуние	Посл. четверть	Delta T
1956	Jan 13 03:01 Feb 11 21:38 Mar 12 13:37 Apr 11 02:39 May 10 13:04 Jun 8 21:29 T Jul 8 04:37 Aug 6 11:25 Sep 4 18:57 Oct 4 04:24 Nov 2 16:44 Dec 2 08:12 P	Jan 20 22:58 Feb 19 09:21 Mar 19 17:14 Apr 17 23:28 May 17 05:15 Jun 15 11:56 Jul 14 20:47 Aug 13 08:45 Sep 12 00:13 Oct 11 18:44 Nov 10 15:09 Dec 10 11:51	Jan 27 14:40 Feb 26 01:42 Mar 26 13:11 Apr 25 01:40 May 24 15:26 p Jun 23 06:13 Jul 22 21:29 Aug 21 12:38 Sep 20 03:19 Oct 19 17:25 Nov 18 06:45 t Dec 17 19:06	Jan 4 22:41 Feb 3 16:08 Mar 4 11:53 Apr 3 08:06 May 3 02:55 Jun 1 19:13 Jul 1 08:41 Jul 30 19:31 Aug 29 04:13 Sep 27 11:25 Oct 26 18:02 Nov 25 01:13 Dec 24 10:10		1941	Jan 27 11:03 Feb 26 03:02 Mar 27 20:14 A Apr 26 13:23 May 26 05:18 Jun 24 19:22 Jul 24 07:39 Aug 22 18:34 Sep 21 04:38 T Oct 20 14:20 Nov 19 00:04 Dec 18 10:18	Jan 5 13:40 Feb 4 11:42 Mar 6 07:43 Apr 5 00:12 May 4 12:48 Jun 2 21:56 Jul 2 04:24 Jul 31 09:19 Aug 29 14:04 Sep 27 20:09 Oct 27 05:04 Nov 25 17:52 Dec 25 10:43	Jan 13 11:04 Feb 12 00:26 Mar 13 11:47 p Apr 11 21:15 May 11 05:15 Jun 9 12:34 Jul 8 20:17 Aug 7 05:38 Sep 5 17:36 p Oct 5 08:32 Nov 4 02:00 Dec 3 20:51	Jan 20 10:01 Feb 18 18:07 Mar 20 02:51 Apr 18 13:03 May 18 01:17 Jun 16 15:45 Jul 16 08:07 Aug 15 01:40 Sep 13 19:31 Oct 13 12:52 Nov 12 04:54 Dec 11 18:48	
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1958	Jan 19 22:08 Feb 18 15:38 Mar 20 09:50 Apr 19 03:23 A May 18 19:00 Jun 17 07:59 Jul 16 18:33 Aug 15 03:33 Sep 13 12:02 Oct 12 20:52 T Nov 11 06:34 Dec 10 17:23	Jan 28 02:16 Feb 26 20:52 Mar 28 11:19 Apr 26 21:36 May 26 04:38 Jun 24 09:45 Jul 23 14:19 Aug 21 19:45 Sep 20 03:18 Oct 19 14:07 Nov 18 04:59 Dec 17 23:52	Jan 5 20:09 Feb 4 08:05 Mar 5 18:28 Apr 4 03:45 n May 3 12:23 p Jun 1 20:55 Jul 1 06:04 Jul 30 16:47 Aug 29 05:53 Sep 27 21:44 Oct 27 15:41 n Nov 26 10:17 Dec 26 03:54	Jan 12 14:01 Feb 10 23:34 Mar 12 10:48 Apr 10 23:50 May 10 14:38 Jun 9 06:59 Jul 9 00:21 Aug 7 17:49 Sep 6 10:24 Oct 6 01:20 Nov 4 14:19 Dec 4 01:24		1943	Jan 6 12:38 Feb 4 23:29 T Mar 6 10:34 Apr 4 21:53 May 4 09:43 Jun 2 22:33 Jul 2 12:44 Aug 1 04:06 A Sep 30 19:59 Oct 29 11:29 Nov 27 01:59 Dec 27 03:50	Jan 13 07:49 Feb 12 00:40 Mar 13 19:30 Apr 12 15:04 May 12 09:52 Jun 11 02:35 Jul 10 16:29 Aug 9 03:36 Sep 7 12:33 Oct 6 20:10 Nov 5 03:22 Dec 4 11:03	Jan 21 10:48 Feb 20 05:45 p Mar 21 22:08 Apr 20 11:11 May 19 21:13 Jun 18 05:14 Jul 17 12:21 Aug 15 19:34 p Sep 14 03:39 Oct 13 13:22 Nov 12 01:26 Dec 11 16:24	Jan 29 08:13 Feb 27 18:23 Mar 29 01:52 Apr 27 07:51 May 26 13:34 Jun 24 20:08 Jul 24 04:38 Aug 22 16:04 Sep 21 07:06 Oct 21 01:42 Nov 19 22:43 Dec 19 20:03	
1959	Jan 9 05:34 Feb 7 19:22 Mar 9 10:51 Apr 8 03:29 A May 7 20:11 Jun 6 11:53 Jul 6 02:00 Aug 4 14:34 Sep 3 01:56 Oct 2 12:31 T Oct 31 22:41 Nov 30 08:46 Dec 29 19:09	Jan 16 21:27 Feb 15 19:20 Mar 17 15:10 Apr 16 07:33 May 15 20:09 Jun 14 05:23 Jul 13 12:01 Aug 11 17:10 Sep 9 22:07 Oct 9 04:22 Nov 7 13:24 Dec 7 02:12	Jan 24 19:33 Feb 23 08:54 Mar 24 20:02 p Apr 23 05:13 May 22 12:56 Jun 20 20:00 Jul 20 03:33 Aug 18 12:51 Sep 17 00:52 n Oct 16 15:59 Nov 15 09:42 Dec 15 04:49	Jan 31 19:06 Mar 2 02:54 Mar 31 11:06 Apr 29 20:38 May 29 08:14 Jun 27 22:12 Jul 27 14:22 Aug 26 08:03 Sep 25 02:22 Oct 24 20:22 Nov 23 13:03 Dec 23 03:28		1944	Jan 25 15:24 T Feb 24 01:59 Mar 24 11:36 Apr 22 20:43 May 22 06:12 Jun 20 17:00 Jul 20 05:42 A Aug 18 20:25 Sep 17 12:37 Oct 17 05:35 Nov 15 22:29 Dec 15 14:35	Jan 2 20:04 Feb 1 07:08 Mar 1 20:40 Mar 31 12:34 Apr 30 06:06 May 30 00:06 Jun 28 17:27 Jul 28 09:24 Aug 26 23:39 Sep 25 12:07 Oct 24 22:48 Nov 23 07:53 Dec 22 15:54	Jan 10 10:09 Feb 9 05:29 n Mar 10 00:28 Apr 8 17:22 May 8 07:28 Jun 6 18:58 Jul 6 04:27 n Aug 4 12:39 n Sep 2 20:21 Oct 2 04:22 Oct 31 13:35 Nov 30 00:52 Dec 29 14:38 n	Jan 18 15:32 Feb 17 07:42 Mar 17 20:05 Apr 16 04:59 May 15 11:12 Jun 13 15:56 Jul 12 20:38 Aug 11 02:52 Sep 9 12:03 Oct 9 01:12 Nov 7 18:29 Dec 7 14:57	
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Год	Новолуние	1 четверть	Полнолуние	Посл. четверть	Delta T	Год	Новолуние	1 четверть	Полнолуние	Посл. четверть	Delta T	
1946	Jan 3 12:30 P	Jan 10 20:27	Jan 17 14:46	Jan 25 05:00		1951	Jan 7 20:10	Jan 15 00:23	Jan 23 04:47	Jan 1 05:11		
	Feb 2 04:43	Feb 9 04:28	Feb 16 04:28	Feb 24 02:36			Feb 6 07:54	Feb 13 20:55	Feb 21 21:12	Feb 28 22:59	Jan 30 15:14	
	Mar 3 18:01	Mar 10 12:03	Mar 17 19:11	Mar 25 22:37			Mar 7 20:51 A	Mar 15 17:40	Mar 23 10:50 n	Mar 30 05:35	Feb 28 22:59	
	Apr 2 04:37	Apr 8 20:04	Apr 16 10:47	Apr 24 15:19			Apr 6 10:52	Apr 14 12:55	Apr 21 21:30	Apr 28 12:18	Mar 30 05:35	
	May 1 13:16	May 8 05:13	May 16 02:53	May 24 04:02			May 6 01:36	May 14 05:32	May 21 05:45	May 27 20:17	Apr 28 12:18	
	May 30 20:49 P	Jun 6 16:06	Jun 14 18:42 t	Jun 22 13:12			Jun 4 16:40	Jun 12 18:52	Jun 19 12:36	Jun 26 06:21	May 27 20:17	
	Jun 29 04:06 P	Jul 6 05:15	Jul 14 09:23	Jul 21 19:52			Jul 4 07:48	Jul 12 04:56	Jul 18 19:17	Jul 25 18:59	Jun 26 06:21	
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	Aug 26 21:07	Sep 3 14:49	Sep 11 09:59	Sep 18 06:44			Sep 1 12:49 A	Sep 8 18:16	Sep 15 12:38 n	Sep 23 04:13	Aug 24 10:20	
	Sep 25 08:45	Oct 3 09:53	Oct 10 20:40	Oct 17 13:28			Oct 1 01:57	Oct 8 00:00	Oct 15 00:51	Oct 22 23:55	Sep 23 04:13	
	Oct 24 23:32	Nov 2 04:40	Nov 9 07:10	Nov 15 22:35			Oct 30 13:54	Nov 6 06:59	Nov 13 15:52	Nov 20 20:01	Oct 22 23:55	
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1947			Jan 7 04:47	Jan 14 02:56		1952		Jan 4 04:42	Jan 12 04:55	Jan 20 06:09		
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	Mar 10 21:15	Mar 18 12:27	Mar 25 03:10	Apr 1 10:25			Mar 15 11:05	Mar 22 08:11	Mar 30 12:55	Apr 7 04:58	Mar 8 18:26	
	Apr 9 13:17	Apr 16 19:42	Apr 23 13:28 p	May 1 04:48			Apr 13 20:09	Apr 21 00:41	Apr 29 04:21	May 6 12:21	Apr 7 04:58	
	May 9 02:30 A	May 16 00:55	May 23 00:37	May 30 22:43			May 13 05:06	May 20 18:20	May 28 17:03	Jun 4 17:36	May 6 12:21	
	Jun 7 12:55	Jun 14 05:40	Jun 21 12:54	Jun 29 15:23			Jun 11 14:55	Jun 19 12:01	Jun 27 03:29	Jul 3 22:03	Jun 4 17:36	
	Jul 6 21:09	Jul 13 11:30	Jul 21 02:31	Jul 29 06:11			Jul 11 02:28 P	Jul 19 04:47	Jul 26 12:21 t	Aug 2 03:16	Jul 3 22:03	
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1949		Jan 7 11:51	Jan 14 21:59	Jan 21 14:07		1954	Jan 5 02:21 A	Jan 12 00:22	Jan 19 02:37 t	Jan 27 03:28		
	Jan 29 02:42	Feb 6 08:05	Feb 13 09:08	Feb 20 00:43			Feb 3 15:55	Feb 10 08:29	Feb 17 19:17	Feb 25 23:29	Jan 27 03:28	
	Feb 27 20:55	Mar 8 00:42	Mar 14 19:03	Mar 21 13:10			Mar 5 03:11	Mar 11 17:52	Mar 19 12:42	Mar 27 16:14	Feb 25 23:29	
	Mar 29 15:11	Apr 6 13:01	Apr 13 04:08 t	Apr 20 03:27			Apr 3 12:25	Apr 10 05:05	Apr 18 05:49	Apr 26 04:57	Mar 27 16:14	
	Apr 28 08:02 P	May 5 21:33	May 12 12:51	May 19 19:22			May 2 20:22	May 9 18:17	May 17 21:47	May 25 13:49	Apr 26 04:57	
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	Nov 20 07:29	Nov 27 10:01	Dec 5 15:14	Dec 13 01:48			Nov 25 12:31	Dec 3 09:56	Dec 10 00:57	Dec 17 02:22	Nov 17 09:33	
	Dec 19 18:56	Dec 27 06:32					Dec 25 07:33 A				Dec 17 02:22	
1950			Jan 4 07:48	Jan 11 10:31		1955		Jan 1 20:29	Jan 8 12:44 n	Jan 15 22:14		
	Jan 18 08:00	Jan 26 04:40	Feb 2 22:16	Feb 9 18:32			Jan 24 01:07	Jan 31 05:06	Feb 7 01:43	Feb 14 19:40	Jan 15 22:14	
	Feb 16 22:53	Feb 25 01:52	Mar 4 10:34	Mar 11 02:38			Feb 22 15:54	Mar 1 12:41	Mar 8 15:41	Mar 16 16:36	Feb 14 19:40	
	Mar 18 15:20 A	Mar 26 20:10	Apr 2 20:49 t	Apr 9 11:42			Mar 24 03:42	Mar 30 20:10	Apr 7 06:35	Apr 15 11:01	Mar 16 16:36	
	Apr 17 08:25	Apr 25 10:40	May 2 05:19	May 8 22:32			Apr 22 13:06	Apr 29 04:23	May 6 22:14	May 15 01:42	Apr 15 11:01	
	May 17 00:54	May 24 21:28	May 31 12:43	Jun 7 11:35			May 21 20:59	May 28 14:01	Jun 5 14:08 n	Jun 13 12:37	May 15 01:42	
	Jun 15 15:53	Jun 23 05:12	Jun 29 19:58	Jul 7 02:53			Jun 20 04:12 T	Jun 27 01:44	Jul 5 05:28	Jul 12 20:31	Jun 13 12:37	
	Jul 15 05:05	Jul 22 10:50	Jul 29 04:18	Aug 5 19:56			Jul 19 11:34	Jul 26 16:00	Aug 3 19:30	Aug 11 02:33	Jul 12 20:31	
	Aug 13 16:48	Aug 20 15:35	Aug 27 14:51	Sep 4 13:53			Aug 17 19:58	Aug 25 08:52	Sep 2 07:59	Sep 9 07:59	Aug 11 02:33	
	Sep 12 03:29 T	Sep 18 20:54	Sep 26 04:21 t	Oct 4 07:53			Sep 16 06:19	Sep 24 03:41	Oct 1 19:17	Oct 8 14:04	Sep 9 07:59	
	Oct 11 13:33	Oct 18 04:18	Oct 25 20:46	Nov 3 01:00			Oct 15 19:32	Oct 23 23:05	Oct 31 06:04	Nov 6 21:56	Oct 8 14:04	
	Nov 9 23:25	Nov 16 15:06	Nov 24 15:14	Dec 2 16:22			Nov 14 12:01	Nov 22 17:29	Nov 29 16:50 p	Dec 6 08:35	Nov 6 21:56	
	Dec 9 09:29	Dec 16 05:57	Dec 24 10:23				Dec 14 07:07 A	Dec 22 09:39	Dec 29 03:44		Dec 6 08:35	

Год	Новолуние	1 четверть	Полнолуние	Посл. четверть	Delta T	Год	Новолуние	1 четверть	Полнолуние	Посл. четверть	Delta T
1976	Jan 1 14:40	Jan 9 12:40	Jan 17 04:47	Jan 23 23:04		1961	Jan 16 21:30	Jan 23 16:13	Jan 1 23:06	Jan 10 03:02	
	Jan 31 06:20	Feb 8 10:05	Feb 15 16:43	Feb 22 08:16			Jan 31 18:47	Feb 8 16:49	Feb 15 13:35 p	Mar 10 02:57	
	Feb 29 23:25	Mar 9 04:38	Mar 16 02:53	Mar 22 18:54			Mar 16 18:51	Mar 24 02:48	Apr 1 05:47	Apr 8 10:16	
	Mar 30 17:08	Apr 7 19:02	Apr 14 11:49	Apr 21 07:14			Apr 15 05:37	Apr 22 21:49	Apr 30 18:40	May 7 15:57	
	Apr 29 10:20 A	May 7 05:17	May 13 20:04 p	May 20 21:22			May 14 16:54	May 22 16:18	May 30 04:37	Jun 5 21:19	
	May 29 01:47	Jun 5 12:20	Jun 12 04:15	Jun 19 13:15			Jun 13 05:16	Jun 21 09:01	Jun 28 12:38	Jul 5 03:32	
	Jun 27 14:50	Jul 4 17:28	Jul 11 13:09	Jul 19 06:29			Jul 12 19:11	Jul 20 23:13	Jul 27 19:50	Aug 3 11:47	
	Jul 27 01:39	Aug 2 22:06	Aug 9 23:43	Aug 18 00:12			Aug 11 10:36 A	Aug 19 10:51	Aug 26 03:13 p	Sep 1 23:05	
	Aug 25 11:01	Sep 1 03:35	Sep 8 12:52	Sep 16 17:20			Sep 10 02:49	Sep 17 20:23	Sep 24 11:33	Oct 1 14:10	
	Sep 23 19:55	Sep 30 11:12	Oct 8 04:56	Oct 16 08:59			Oct 9 18:53	Oct 17 04:35	Oct 23 21:31	Oct 31 08:59	
	Oct 23 05:10 T	Oct 29 22:05	Nov 6 23:15 n	Nov 14 22:39			Nov 8 09:58	Nov 15 12:13	Nov 22 09:44	Nov 30 06:19	
	Nov 21 15:11	Nov 28 12:59	Dec 6 18:15	Dec 14 10:14			Dec 7 23:52	Dec 14 20:06	Dec 22 00:42	Dec 30 03:57	
	Dec 21 02:08	Dec 28 07:48									
1977			Jan 5 12:10	Jan 12 19:55		1962	Jan 6 12:35	Jan 13 05:01	Jan 20 18:16	Jan 28 23:36	
	Jan 19 14:11	Jan 27 05:12	Feb 4 03:56	Feb 11 04:07			Feb 5 00:10 T	Feb 11 15:43	Feb 19 13:18 n	Feb 27 15:50	
	Feb 18 03:37	Feb 26 02:50	Mar 5 17:13	Mar 12 11:35			Mar 6 10:31	Mar 13 04:38	Mar 21 07:55	Mar 29 04:11	
	Mar 19 18:33	Mar 27 22:27	Apr 4 04:09 p	Apr 10 19:15			Apr 4 19:45	Apr 11 19:50	Apr 20 00:33	Apr 27 12:59	
	Apr 18 10:36 A	Apr 26 14:42	May 3 13:03	May 10 04:08			May 4 04:25	May 11 12:44	May 19 14:32	May 26 19:05	
	May 18 02:52	May 26 03:20	Jun 1 20:31	Jun 8 15:07			Jun 2 13:27	Jun 10 06:21	Jun 18 02:02	Jun 24 23:43	
	Jun 16 18:23	Jun 24 12:44	Jul 1 03:24	Jul 8 04:39			Jul 1 23:52	Jul 9 23:39	Jul 17 11:41 n	Jul 24 04:18	
	Jul 16 08:36	Jul 23 19:38	Jul 30 10:52	Aug 6 20:40			Jul 31 12:24 A	Aug 8 15:55	Aug 15 20:09 n	Aug 22 10:26	
	Aug 14 21:31	Aug 22 01:04	Aug 28 20:10	Sep 5 14:33			Aug 30 03:09	Sep 7 06:44	Sep 14 04:11	Sep 20 19:36	
	Sep 13 09:23	Sep 20 06:18	Sep 27 08:17 n	Oct 5 09:21			Sep 28 19:39	Oct 6 19:54	Oct 13 12:33	Oct 20 08:47	
	Oct 12 20:31 T	Oct 19 12:46	Oct 26 23:35	Nov 4 03:58			Oct 28 13:05	Nov 5 07:15	Nov 11 22:03	Nov 19 02:09	
	Nov 11 07:09	Nov 17 21:52	Nov 25 17:32	Dec 3 21:16			Nov 27 06:30	Dec 4 16:48	Dec 11 09:27	Dec 18 22:42	
	Dec 10 17:33	Dec 17 10:37	Dec 25 12:49				Dec 26 22:59				
1978				Jan 2 12:07		1963	Jan 25 13:42 A	Feb 1 08:50	Jan 9 23:08 n	Jan 17 20:34	
	Jan 9 04:00	Jan 16 03:03	Jan 24 07:56	Jan 31 23:51			Feb 24 02:06	Mar 2 17:17	Mar 10 07:48	Mar 18 17:38	
	Feb 7 14:54	Feb 14 22:11	Feb 23 01:26	Mar 2 08:34			Mar 25 12:10	Apr 1 03:15	Apr 9 00:56	Apr 17 02:52	
	Mar 9 02:36	Mar 16 18:21	Mar 24 16:20 t	Mar 31 15:11			Apr 23 20:29	Apr 30 15:07	May 8 17:23	May 16 13:36	
	Apr 7 15:15 P	Apr 15 13:56	Apr 23 04:11	Apr 29 21:02			May 23 04:00	May 30 04:55	Jun 7 08:30	Jun 14 20:53	
	May 7 04:47	May 15 07:40	May 22 13:17	May 29 03:30			Jun 21 11:46	Jun 28 20:23	Jul 6 21:55 p	Jul 14 01:57	
	Jun 5 19:02	Jun 13 22:44	Jun 20 20:30	Jun 27 11:44			Jul 20 20:43 T	Jul 28 13:13	Aug 5 09:31	Aug 12 06:21	
	Jul 5 09:50	Jul 13 10:49	Jul 20 03:05	Jul 26 22:31			Aug 19 07:34	Aug 27 06:54	Sep 3 19:34	Sep 10 11:42	
	Aug 4 01:01	Aug 11 20:06	Aug 18 10:14	Aug 25 12:18			Sep 17 20:51	Sep 26 00:38	Oct 3 04:44	Oct 9 19:27	
	Sep 2 16:09	Sep 10 03:20	Sep 16 19:01 t	Sep 24 05:07			Oct 17 12:43	Oct 25 17:20	Nov 1 13:55	Nov 8 06:37	
	Oct 2 06:41 P	Oct 9 09:38	Oct 16 06:09	Oct 24 00:34			Nov 16 06:50	Nov 24 07:56	Nov 30 23:54	Dec 7 21:34	
	Oct 31 20:06	Nov 7 16:18	Nov 14 20:00	Nov 22 21:24			Dec 16 02:06	Dec 23 19:54	Dec 30 11:04 t		
	Nov 30 08:19	Dec 7 00:34	Dec 14 12:31	Dec 22 17:42							
Dec 29 19:36											
1979		Jan 5 11:15	Jan 13 07:09	Jan 21 11:23		1964	Jan 14 20:44 P	Jan 22 05:29	Jan 28 23:23	Jan 6 15:58	
	Jan 28 06:20	Feb 4 00:36	Feb 12 02:39	Feb 20 01:17			Feb 13 13:01	Feb 20 13:24	Feb 27 12:39	Mar 6 10:00	
	Feb 26 16:45 T	Mar 5 16:23	Mar 13 21:14 p	Mar 21 11:22			Mar 14 02:14	Mar 20 20:39	Mar 28 02:48	Apr 5 05:45	
	Mar 28 02:59	Apr 4 09:57	Apr 12 13:15	Apr 19 18:30			Apr 12 12:37	Apr 19 04:09	Apr 26 17:49	May 4 22:20	
	Apr 26 13:15	May 4 04:25	May 12 02:01	May 18 23:57			May 11 21:02	May 18 12:42	May 26 09:29	Jun 3 11:07	
	May 26 00:00	Jun 2 22:37	Jun 10 11:55	Jun 17 05:01			Jun 10 04:22 P	Jun 16 23:02	Jun 25 01:08 t	Jul 2 20:31	
	Jun 24 11:58	Jul 1 21:24	Jul 9 19:59	Jul 16 10:59			Jul 9 11:31 P	Jul 16 11:47	Jul 24 15:58	Aug 1 03:29	
	Jul 24 01:41	Aug 1 05:57	Aug 8 03:21	Aug 14 19:02			Aug 7 19:17	Aug 15 03:19	Aug 23 05:25	Aug 30 09:15	
	Aug 22 17:11 A	Aug 30 18:09	Sep 6 10:58 t	Sep 13 06:15			Sep 6 04:34	Sep 13 21:24	Sep 21 17:31	Sep 28 15:01	
	Sep 21 09:47	Sep 29 04:20	Oct 5 19:35	Oct 12 21:24			Oct 5 16:20	Oct 13 16:56	Oct 21 04:45	Oct 27 21:59	
	Oct 21 02:23	Oct 28 13:06	Nov 4 05:47	Nov 11 16:24			Nov 4 07:16	Nov 12 12:20	Nov 19 15:43	Nov 26 07:10	
	Nov 19 18:04	Nov 26 21:09	Dec 3 18:08	Dec 11 13:59			Dec 4 01:18 P	Dec 12 06:01	Dec 19 02:41 t	Dec 25 19:27	
	Dec 19 08:23	Dec 26 05:11									
1980			Jan 2 09:02	Jan 10 11:50		1965	Jan 2 21:07	Jan 10 20:59	Jan 17 13:37	Jan 24 11:07	
	Jan 17 21:19	Jan 24 13:58	Feb 1 02:21	Feb 9 07:35			Feb 1 16:36	Feb 9 08:53	Feb 16 00:27	Feb 23 05:39	
	Feb 16 08:51 T	Feb 23 00:14	Mar 1 21:00 n	Mar 9 23:49			Mar 3 09:56	Mar 10 17:52	Mar 17 11:24	Mar 25 01:37	
	Mar 16 18:56	Mar 23 12:31	Mar 31 15:14	Apr 8 12:06			Apr 2 00:20	Apr 9 00:40	Apr 15 23:02	Apr 23 21:07	
	Apr 15 03:46	Apr 22 02:59	Apr 30 07:35	May 7 20:51			May 1 11:56	May 8 06:19	May 15 11:52	May 23 14:40	
	May 14 12:00	May 21 19:16	May 29 21:28	Jun 6 02:53			May 30 21:12 T	Jun 6 12:11	Jun 14 01:59 p	Jun 22 05:36	
	Jun 12 20:38	Jun 20 12:32	Jun 28 09:02	Jul 5 07:27			Jun 29 04:52	Jul 5 19:36	Jul 13 17:01	Jul 21 17:53	
	Jul 12 06:46	Jul 20 05:51	Jul 27 18:54 n	Aug 3 12:00			Jul 28 11:45	Aug 4 05:47	Aug 12 08:22	Aug 20 03:50	
	Aug 10 19:09 A	Aug 18 22:28	Aug 26 03:42 n	Sep 1 18:08			Aug 26 18:50	Sep 2 19:27	Sep 10 23:32	Sep 18 11:58	
	Sep 9 10:00	Sep 17 13:54	Sep 24 12:08	Oct 1 03:18			Sep 25 03:18	Oct 2 12:37	Oct 10 14:14	Oct 17 19:00	
	Oct 9 02:50	Oct 17 03:47	Oct 23 20:52	Oct 30 16:33			Oct 24 14:11	Nov 1 08:26	Nov 9 04:15	Nov 16 01:54	
	Nov 7 20:43	Nov 15 15:47	Nov 22 06:39	Nov 29 09:59			Nov 23 04:10 A	Dec 1 05:24	Dec 8 17:21 n	Dec 15 09:52	
	Dec 7 14:35	Dec 15 01:47	Dec 21 18:08	Dec 29 06:32			Dec 22 21:03	Dec 31 01:46			

Год	Новолуние	1 четверть	Полнолуние	Посл. четверть	Delta T	Год	Новолуние	1 четверть	Полнолуние	Посл. четверть	Delta T
1996	Jan 20 12:50	Jan 27 11:14	Jan 5 20:51	Jan 13 20:45		1981	Jan 6 07:24	Jan 13 10:10	Jan 20 07:39 n	Jan 28 04:19	
	Feb 18 23:30	Feb 26 05:52	Feb 4 15:58	Feb 12 08:37			Feb 4 22:14 A	Feb 11 17:49	Feb 18 22:58	Feb 27 01:14	
	Mar 19 10:45	Mar 27 01:31	Mar 5 09:23	Mar 12 17:15			Mar 6 10:31	Mar 13 01:51	Mar 20 15:22	Mar 28 19:34	
	Apr 17 22:49 P	Apr 25 20:40	Apr 4 00:07 t	Apr 10 23:36			Apr 4 20:19	Apr 11 11:11	Apr 19 07:59	Apr 27 10:15	
	May 17 11:46	May 25 14:13	May 3 11:48	May 10 05:04			May 4 04:19	May 10 22:22	May 19 00:04	May 26 21:00	
	Jun 16 01:36	Jun 24 05:23	Jun 1 20:47	Jun 8 11:05			Jun 2 11:32	Jun 9 11:33	Jun 17 15:05	Jun 25 04:25	
	Jul 15 16:15	Jul 23 17:49	Jul 1 03:58	Jul 7 18:55			Jul 1 19:03	Jul 9 02:40	Jul 17 04:39 p	Jul 24 09:40	
	Aug 14 07:34	Aug 22 03:36	Jul 30 10:35	Aug 6 05:25			Jul 31 03:52 T	Aug 7 19:26	Aug 15 16:37	Aug 22 14:16	
	Sep 12 23:07	Sep 20 11:23	Aug 28 17:52	Sep 4 19:06			Aug 29 14:44	Sep 6 13:26	Sep 14 03:09	Sep 20 19:47	
	Oct 12 14:15 P	Oct 19 18:09	Sep 27 02:51 t	Oct 4 12:04			Sep 28 04:07	Oct 6 07:45	Oct 13 12:49	Oct 20 03:41	
	Nov 11 04:16	Nov 18 01:09	Oct 26 14:11	Nov 3 07:50			Oct 27 20:13	Nov 5 01:09	Nov 11 22:26	Nov 18 14:54	
	Dec 10 16:56	Dec 17 09:31	Nov 25 04:10	Dec 3 05:06			Nov 26 14:38	Dec 4 16:22	Dec 11 08:41	Dec 18 05:47	
			Dec 24 20:41				Dec 26 10:10				
1997	Jan 9 04:26	Jan 15 20:02	Jan 23 15:11	Jan 2 01:45		1982	Jan 25 04:56 P	Jan 3 04:45	Jan 9 19:53 t	Jan 16 23:58	
	Feb 7 15:06	Feb 14 08:57	Feb 22 10:27	Jan 31 19:40			Feb 23 21:13	Feb 1 14:28	Feb 8 07:57	Feb 15 20:21	
	Mar 9 01:15 T	Mar 16 00:06	Mar 24 04:45 p	Mar 2 09:38			Mar 25 10:18	Mar 2 22:15	Mar 9 20:45	Mar 17 17:15	
	Apr 7 11:02	Apr 14 17:00	Apr 22 20:34	Mar 31 19:38			Apr 7 11:02	Apr 1 05:08	Apr 8 10:18	Apr 16 12:42	
	May 6 20:46	May 14 10:55	Apr 30 02:37	Apr 30 02:37			Apr 23 20:29	Apr 30 12:07	May 8 00:45	May 16 05:11	
	Jun 5 07:04	Jun 13 04:52	May 22 09:13	May 29 07:51			May 6 20:46	May 29 20:06	Jun 6 15:59	Jun 14 18:06	
	Jul 4 18:40	Jul 12 21:44	Jun 20 19:09	Jun 27 12:42			Jun 5 07:04	Jun 28 05:56	Jul 6 07:32 t	Jul 14 03:47	
	Aug 3 08:14	Aug 11 12:43	Jul 20 03:20	Jul 26 18:28			Jul 4 18:40	Jul 27 18:22	Aug 4 22:34	Aug 12 11:08	
	Sep 1 23:52 P	Sep 10 01:31	Aug 18 10:55	Aug 25 02:24			Aug 3 08:14	Aug 26 09:49	Sep 3 12:28	Sep 10 17:19	
	Oct 1 16:52	Oct 9 12:22	Sep 16 18:50 t	Sep 23 13:35			Sep 1 23:52 P	Sep 25 04:07	Oct 3 01:08	Oct 9 23:26	
	Oct 31 10:01	Nov 7 21:44	Oct 16 03:46	Oct 23 04:48			Oct 1 16:52	Oct 25 00:08	Nov 1 12:57	Nov 8 06:38	
	Nov 30 02:14	Dec 7 06:09	Nov 14 14:12	Nov 21 23:58			Oct 31 10:01	Nov 23 20:06	Dec 1 00:21	Dec 7 15:53	
	Dec 29 16:57		Dec 14 02:37	Dec 21 21:43			Nov 30 02:14	Dec 23 14:17	Dec 30 11:33 t		
					Dec 29 16:57						
1998	Jan 28 06:01	Jan 5 14:18	Jan 12 17:24	Jan 20 19:40		1983	Jan 14 05:08	Jan 22 05:33	Jan 28 22:26	Jan 6 04:00	
	Feb 26 17:26 T	Mar 5 08:41	Feb 11 10:23	Feb 19 15:27			Feb 13 00:32	Feb 20 17:32	Feb 27 08:58	Mar 6 13:16	
	Mar 28 03:14	Apr 3 20:18	Mar 13 04:34 n	Mar 21 07:38			Mar 14 17:44	Mar 22 02:25	Mar 28 19:27	Apr 5 08:38	
	Apr 26 11:41	May 3 10:04	Apr 3 20:18	Apr 19 19:53			Apr 13 07:58	Apr 20 08:58	Apr 27 06:31	May 5 03:43	
	May 25 19:32	Jun 2 01:45	May 11 14:29	May 19 04:35			May 12 19:25	May 19 14:17	May 26 18:48	Jun 3 21:07	
	Jun 24 03:50	Jul 1 18:43	Jun 10 04:18	Jun 17 10:38			Jun 11 04:38 T	Jun 17 19:46	Jun 25 08:32 p	Jul 3 12:12	
	Jul 23 13:44	Aug 1 12:05	Jul 9 16:01	Jul 16 15:13			Jul 10 12:18	Jul 17 02:50	Aug 2 00:52	Aug 2 00:52	
	Aug 22 02:03 A	Aug 30 05:06	Aug 8 02:10 n	Aug 14 19:48			Aug 8 19:18	Aug 15 12:47	Aug 23 14:59	Aug 31 11:22	
	Sep 20 17:01	Sep 28 21:11	Aug 30 05:06	Sep 13 01:58			Sep 7 02:35	Sep 14 02:24	Sep 22 06:36	Sep 29 20:05	
	Oct 20 10:09	Oct 28 11:46	Oct 5 20:12	Oct 12 11:11			Oct 6 11:16	Oct 13 19:42	Oct 21 21:53	Oct 29 03:37	
	Nov 19 04:27	Nov 27 00:23	Nov 4 05:18	Nov 11 00:28			Nov 4 22:21	Nov 12 15:49	Nov 20 12:29	Nov 27 10:50	
	Dec 18 22:42	Dec 26 10:46	Dec 3 15:19	Dec 10 17:54			Dec 4 12:26 A	Dec 12 13:09	Dec 20 02:00 n	Dec 26 18:52	
1999	Jan 17 15:46	Jan 24 19:15	Jan 2 02:50	Jan 9 14:22		1984	Jan 3 05:16	Jan 11 09:48	Jan 18 14:05	Jan 25 04:48	
	Feb 16 06:39 A	Feb 23 02:43	Jan 31 16:07 n	Feb 8 11:58			Feb 1 23:46	Feb 10 04:00	Feb 17 00:41	Feb 23 17:12	
	Mar 17 18:48	Mar 24 10:18	Mar 2 06:59	Mar 10 08:40			Mar 2 18:31	Mar 10 18:27	Mar 17 10:10	Mar 24 07:58	
	Apr 16 04:22	Apr 22 19:02	Mar 31 22:49	Apr 9 02:51			Apr 1 12:10	Apr 9 04:51	Apr 15 19:11	Apr 23 00:26	
	May 15 12:05	May 22 05:34	Apr 30 14:55	May 8 17:29			May 1 03:45	May 8 11:50	May 15 04:29 n	May 22 17:45	
	Jun 13 19:03	Jun 20 18:13	May 30 06:40	Jun 7 04:20			May 30 16:48 A	Jun 6 16:42	Jun 13 14:42 n	Jun 21 11:10	
	Jul 13 02:24	Jul 20 09:00	Jun 28 21:37	Jul 6 11:57			Jun 29 03:18	Jul 5 21:04	Jul 13 02:20	Jul 21 04:01	
	Aug 11 11:08 T	Aug 19 01:47	Jul 28 11:25 p	Aug 4 17:27			Jul 28 11:51	Aug 4 02:33	Aug 11 15:43	Aug 19 19:41	
	Sep 9 22:02	Sep 17 20:06	Aug 26 23:48	Sep 2 22:17			Aug 26 19:25	Sep 2 10:30	Sep 10 07:01	Sep 18 09:31	
	Oct 9 11:34	Oct 17 15:00	Sep 25 10:51	Oct 2 04:02			Sep 25 03:11	Oct 1 21:53	Oct 9 23:58	Oct 17 21:14	
	Nov 8 03:53	Nov 16 09:03	Oct 24 21:02	Oct 31 12:04			Oct 24 12:08	Oct 31 13:08	Nov 8 17:43 n	Nov 16 06:59	
	Dec 7 22:32	Dec 16 00:50	Nov 4 05:18	Nov 11 00:28			Nov 22 22:57 T	Nov 30 08:01	Dec 8 10:53	Dec 15 15:25	
			Dec 3 15:19	Dec 10 17:54			Dec 22 11:47	Dec 30 05:27			
		Dec 22 17:31	Dec 29 14:04								
2000	Jan 6 18:14	Jan 14 13:34	Jan 21 04:40 t	Jan 28 07:57		1985	Jan 21 02:28	Jan 29 03:29	Jan 7 02:16	Jan 13 23:27	
	Feb 5 13:03 P	Feb 12 23:21	Jan 19 16:27	Feb 27 03:54			Feb 19 18:43	Feb 27 23:41	Feb 5 15:19	Feb 12 07:57	
	Mar 6 05:17	Mar 13 06:59	Mar 20 04:44	Mar 28 00:21			Mar 21 11:59	Mar 29 16:11	Mar 7 02:13	Mar 13 17:34	
	Apr 4 18:12	Apr 11 13:30	Mar 31 22:49	Apr 8 17:29			Apr 20 05:22	Apr 28 04:25	Apr 5 11:32	Apr 12 04:41	
	May 4 04:12	May 10 20:01	Apr 30 14:55	May 7 04:20			May 19 21:41 P	May 27 12:56	May 4 19:53 t	May 11 17:34	
	Jun 2 12:14	Jun 9 03:29	May 30 06:40	Jun 6 11:57			Jun 29 03:18	Jul 5 21:04	Jun 3 03:50	Jun 10 08:19	
	Jul 1 19:20 P	Jul 8 12:53	Jun 28 21:37	Jul 6 11:57			Jul 28 11:51	Aug 4 02:33	Jul 2 12:08	Jul 10 00:50	
	Aug 29 10:19	Aug 7 01:02	Jul 28 11:25 p	Aug 4 17:27			Jul 17 23:56	Jul 24 23:39	Jul 31 21:41	Aug 8 18:29	
	Sep 27 19:53	Sep 5 16:27	Aug 26 23:48	Sep 2 22:17			Aug 16 10:05	Aug 23 04:36	Aug 30 09:27	Sep 7 12:16	
	Oct 27 07:58	Nov 4 07:27	Sep 25 10:51	Oct 2 04:02			Sep 14 19:25	Sep 21 11:03	Sep 29 00:08	Oct 7 05:04	
	Nov 25 23:11	Dec 4 03:55	Oct 24 21:02	Oct 31 12:04			Oct 14 04:33	Oct 20 20:13	Oct 28 17:38 t	Nov 5 20:07	
	Dec 25 17:22 P		Nov 4 07:27	Nov 11 15:25			Nov 12 14:20 T	Nov 19 09:04	Nov 27 12:42	Dec 5 09:01	
			Nov 23 07:04	Nov 29 23:19			Dec 12 00:54	Dec 19 01:58	Dec 27 07:30		
		Dec 11 09:03	Dec 18 00:41								

Год	Новолуние	1 четверть	Полнолуние	Посл. четверть	Delta T	Год	Новолуние	1 четверть	Полнолуние	Посл. четверть	Delta T
1986	Jan 10 12:22	Jan 17 22:13	Jan 26 00:31	Jan 3 19:47		1991	Jan 15 23:50 A	Jan 23 14:22	Jan 30 06:10 n	Jan 7 18:36	
	Feb 9 00:55	Feb 16 19:55	Feb 24 15:02	Feb 2 04:41			Feb 14 17:32	Feb 21 22:58	Feb 28 18:25	Mar 8 10:32	
	Mar 10 14:52	Mar 18 16:39	Mar 26 03:02	Mar 3 12:17			Mar 16 08:11	Mar 23 06:03	Mar 30 07:17	Apr 7 06:45	
	Apr 9 06:08 P	Apr 17 10:35	Apr 24 12:46 t	Apr 1 19:30			Apr 14 19:38	Apr 21 12:39	Apr 28 20:58	May 7 00:46	
	May 8 22:10	May 17 01:00	May 23 20:45	May 1 03:22			May 14 04:36	May 20 19:46	May 28 11:37	Jun 5 15:30	
	Jun 7 14:00	Jun 15 12:00	Jun 22 03:42	May 30 12:55			Jun 12 12:06	Jun 19 04:19	Jun 27 02:58 n	Jul 5 02:50	
	Jul 7 04:55	Jul 14 20:10	Jul 21 10:40	Jun 29 03:42			Jul 11 19:06 T	Jul 18 15:11	Jul 26 18:24 n	Aug 3 11:26	
	Aug 5 18:36	Aug 13 02:21	Aug 19 18:54	Jul 28 15:34			Aug 10 02:28	Aug 17 05:01	Aug 25 09:07	Sep 1 18:16	
	Sep 4 07:10	Sep 11 07:41	Sep 18 05:34	Aug 27 08:39			Sep 8 11:01	Sep 15 22:01	Sep 23 22:40	Oct 1 00:30	
	Oct 3 18:55 A	Oct 10 13:28	Oct 17 19:22 t	Sep 26 03:17			Oct 7 21:39	Oct 15 17:33	Oct 23 11:08	Oct 30 07:11	
	Nov 2 06:02	Nov 8 21:11	Nov 16 12:12	Oct 25 22:26			Nov 6 11:11	Nov 14 14:01	Nov 21 22:56	Nov 28 15:21	
	Dec 1 16:43	Dec 8 08:02	Dec 16 07:05	Nov 24 16:51			Dec 6 03:56	Dec 14 09:32	Dec 21 10:23 p	Dec 28 01:55	
	Dec 31 03:10			Dec 24 09:17							
1987	Jan 29 13:44	Jan 6 22:35	Jan 15 02:31	Jan 22 22:45		1992	Jan 4 23:09 A	Jan 13 02:32	Jan 19 21:28	Jan 26 15:27	
	Feb 28 00:51	Feb 5 16:21	Feb 13 20:58	Feb 21 08:56			Feb 3 19:00	Feb 11 16:15	Feb 18 08:04	Feb 25 07:56	
	Mar 29 12:45 A	Mar 7 11:58	Mar 15 13:13	Mar 22 16:22			Mar 4 13:22	Mar 12 02:36	Mar 18 18:18	Mar 26 02:30	
	Apr 28 01:34	Apr 6 07:48	Apr 14 02:31 n	Mar 29 10:56			Apr 3 05:02	Apr 10 10:06	Apr 17 04:42	Apr 24 21:40	
	May 27 15:13	May 6 02:25	May 13 12:50	Apr 20 22:15			May 2 17:54	May 9 15:44	May 16 16:03	May 24 15:53	
	Jun 26 05:37	Jun 4 18:53	Jun 11 20:49	May 20 04:02			Jun 1 03:47	Jun 7 20:47	Jun 15 04:50 p	Jun 23 08:11	
	Jul 25 20:37	Jul 4 08:34	Jul 11 03:32	Jun 18 11:02			Jun 30 12:18 T	Jul 7 02:43	Jul 14 19:06	Jul 22 22:12	
	Aug 24 11:59	Aug 2 19:24	Aug 9 10:17	Jul 27 20:17			Jul 29 19:35	Aug 5 10:59	Aug 13 10:27	Aug 21 10:01	
	Sep 23 03:08 A	Sep 1 03:48	Sep 7 18:13	Aug 16 08:25			Aug 28 02:42	Sep 3 22:39	Sep 12 02:17	Sep 19 19:53	
	Oct 22 17:28	Sep 23 03:08 A	Sep 30 10:39	Sep 14 23:45			Sep 26 10:40	Oct 3 14:12	Oct 11 18:03	Oct 19 04:12	
	Nov 21 06:33	Oct 22 17:28	Oct 29 17:10	Oct 7 04:12 n			Oct 25 20:34	Nov 2 09:11	Nov 10 09:20	Nov 17 11:39	
	Dec 20 18:25	Nov 21 06:33	Nov 28 00:37	Nov 13 14:38			Nov 24 09:11	Dec 2 06:17	Dec 9 23:41 t	Dec 16 19:13	
		Dec 20 18:25	Dec 27 10:01	Dec 5 08:01	Dec 13 11:41		Dec 24 00:43 P				
1988	Jan 19 05:26	Jan 25 21:54	Jan 4 01:40	Jan 12 07:04		1993	Jan 22 18:27	Jan 1 03:38	Jan 8 12:37	Jan 15 04:01	
	Feb 17 15:54	Feb 24 12:15	Feb 2 20:52	Feb 10 23:01			Feb 21 13:05	Jan 30 23:20	Feb 6 23:55	Feb 13 14:57	
	Mar 18 02:02 T	Mar 25 04:41	Mar 3 16:01 n	Mar 11 10:56			Mar 23 07:14	Mar 1 15:47	Mar 8 09:46	Mar 15 04:16	
	Apr 16 12:00	Apr 23 22:32	Apr 2 09:21	Apr 9 19:21			Apr 21 23:49	Mar 31 04:10	Apr 6 18:43	Apr 13 19:39	
	May 15 22:10	May 23 16:49	May 1 23:41	May 9 01:23			May 21 14:07 P	Apr 29 12:41	May 6 03:34	May 13 12:20	
	Jun 14 09:14	Jun 22 10:23	May 31 10:53	Jun 7 06:21			Jun 20 01:52	May 28 18:21	Jun 4 13:02 t	Jun 12 05:36	
	Jul 13 21:53	Jul 22 02:14	Jun 29 19:46	Jun 14 11:36			Jul 19 11:24	Jun 26 22:43	Jul 3 23:45	Jul 11 22:49	
	Aug 12 12:31	Aug 20 15:51	Jul 29 03:25	Jul 6 11:36			Aug 17 19:28	Jul 26 03:25	Aug 2 12:10	Aug 10 15:19	
	Sep 11 04:49 A	Sep 19 03:18	Aug 27 10:56 p	Aug 4 18:22			Sep 16 03:10	Aug 24 09:57	Sep 1 02:33	Sep 9 06:26	
	Oct 10 21:49	Oct 18 13:01	Sep 3 03:50	Sep 11 10:56			Oct 15 11:36	Sep 22 19:32	Sep 30 18:54	Oct 8 19:35	
	Nov 9 14:20	Nov 16 21:35	Oct 25 04:36	Oct 2 16:58			Nov 13 21:34 P	Oct 22 08:52	Oct 30 12:38	Nov 7 06:36	
	Dec 9 05:36	Dec 16 05:40	Nov 1 10:11	Nov 9 06:49			Dec 13 09:27	Nov 21 02:03	Nov 29 06:31 t	Dec 6 15:49	
			Dec 23 05:29	Dec 1 06:49	Dec 31 04:56		Dec 20 22:26	Dec 28 23:05			
1989	Jan 7 19:22	Jan 14 13:58	Jan 21 21:34	Jan 30 02:02		1994	Jan 11 23:10	Jan 19 20:27	Jan 27 13:23	Jan 5 00:01	
	Feb 6 07:37	Feb 12 23:15	Feb 20 15:32 t	Feb 28 20:08			Feb 10 14:30	Feb 18 17:47	Feb 26 01:15	Feb 3 08:06	
	Mar 7 18:19 P	Mar 14 10:11	Mar 22 09:58	Mar 30 10:21			Mar 12 07:05	Mar 20 12:15	Mar 27 11:09	Mar 4 16:53	
	Apr 6 03:33	Apr 12 23:13	Apr 21 03:13	Apr 28 20:46			Apr 11 00:17	Apr 19 02:34	Apr 25 19:45	Apr 3 02:55	
	May 5 11:46	May 12 14:20	May 20 18:16	May 28 04:01			May 10 17:07 A	Apr 28 12:50	May 5 03:39 p	May 2 14:32	
	Jun 3 19:53	Jun 11 06:59	Jun 19 06:57	May 26 09:09			Jun 9 08:27	May 16 19:57	Jun 23 11:33	Jun 1 04:02	
	Jul 3 04:59	Jul 11 00:19	Jul 18 17:42	Jun 26 04:01			Jul 8 21:37	Jun 16 01:12	Jul 22 20:16	Jun 30 19:31	
	Aug 1 16:06	Aug 9 17:28	Aug 17 03:07 t	Jul 25 13:31			Aug 7 08:45	Jul 16 01:12	Aug 21 06:47	Jul 30 12:40	
	Aug 31 05:45 P	Sep 8 09:49	Sep 15 11:50	Aug 23 18:40			Sep 5 18:33	Aug 14 05:57	Aug 21 06:47	Aug 29 06:41	
	Sep 29 21:47	Oct 8 00:52	Oct 14 20:32	Sep 22 02:10			Oct 5 03:55	Sep 12 11:34	Sep 19 20:00	Sep 28 00:23	
	Oct 29 15:27	Nov 6 14:11	Nov 13 05:51	Oct 21 13:19			Nov 3 13:36 T	Oct 11 19:17	Oct 19 12:18	Oct 27 16:44	
	Nov 28 09:41	Dec 6 01:26	Dec 12 16:30	Nov 20 04:44			Dec 2 23:54	Nov 10 06:14	Nov 18 06:57 n	Nov 26 07:04	
	Dec 28 03:20			Dec 19 23:55				Dec 9 21:06	Dec 18 02:17	Dec 25 19:07	
1990	Jan 26 19:20 A	Jan 4 10:40	Jan 11 04:57	Jan 18 21:17		1995	Jan 1 10:56	Jan 8 15:46	Jan 16 20:26	Jan 24 04:58	
	Feb 25 08:54	Feb 2 18:33	Feb 9 19:16 t	Feb 17 18:48			Jan 30 22:48	Feb 7 12:54	Feb 15 12:15	Feb 22 13:04	
	Mar 26 19:48	Mar 4 02:05	Mar 11 10:59	Mar 19 14:30			Mar 1 11:48	Mar 9 10:14	Mar 17 01:26	Mar 23 20:10	
	Apr 25 04:27	Apr 2 10:24	Apr 10 03:18	Apr 18 07:03			Mar 31 02:09	Apr 8 05:35	Apr 15 12:08 p	Apr 22 03:18	
	May 24 11:47	May 1 20:18	May 9 19:31	May 17 19:45			Apr 29 17:36 A	Apr 7 21:44	Apr 14 20:48	Apr 21 11:36	
	Jun 22 18:55	Jun 9 08:11	Jun 16 11:01	Jun 24 04:48			May 29 09:27	May 6 10:26	May 13 04:03	May 20 22:01	
	Jul 22 02:54 T	Jul 9 22:07	Jul 16 01:23	Jul 24 11:04			Jun 28 00:50	Jun 5 20:02	Jun 12 10:49	Jun 19 11:10	
	Aug 20 12:39	Aug 7 14:01	Aug 14 15:54	Aug 22 11:04			Jul 27 15:13	Aug 4 03:16	Aug 11 18:15	Aug 18 03:04	
	Sep 19 00:46	Sep 6 07:34	Sep 13 20:53	Sep 21 20:53			Aug 26 04:31	Sep 3 09:03	Sep 10 03:37	Sep 17 21:10	
	Oct 18 15:37	Sep 27 02:05	Oct 4 12:02	Oct 11 03:31			Sep 24 16:55	Oct 1 14:36	Oct 8 15:52 n	Oct 15 16:26	
	Nov 17 09:04	Oct 26 20:26	Nov 2 21:48	Nov 9 13:02			Oct 24 04:36 T	Oct 30 21:17	Nov 7 07:21	Nov 14 11:40	
	Dec 17 04:22	Nov 25 13:11	Dec 2 07:50	Dec 9 02:04			Nov 22 15:43	Nov 29 06:28	Dec 7 01:27	Dec 14 05:31	
	Dec 20 01:43	Dec 25 03:16	Dec 31 18:35				Dec 22 02:22	Dec 28 19:07			

Год	Новолуние	1 четверть	Полнолуние	Посл. четверть	Delta T	Год	Новолуние	1 четверть	Полнолуние	Посл. четверть	Delta T
2016	Jan 10 01:31	Jan 16 23:26	Jan 24 01:46	Jan 2 05:30	00h01m	2001	Jan 24 13:07	Jan 2 22:31	Jan 9 20:24 t	Jan 16 12:35	00h01m
	Feb 8 14:39	Feb 15 07:46	Feb 22 18:20	Feb 1 03:28			Feb 1 14:02	Feb 8 07:12			
	Mar 9 01:54 T	Mar 15 17:03	Mar 23 12:01 n	Mar 31 15:17			Mar 3 02:03	Mar 16 20:45			
	Apr 7 11:24	Apr 14 03:59	Apr 22 05:24	Apr 30 03:29			Mar 10 10:49	Mar 15 15:31			
	May 6 19:30	May 13 17:02	May 21 21:15	May 29 12:12			Apr 25 15:26	Apr 30 17:08			
	Jun 5 03:00	Jun 12 08:10	Jun 20 11:02	Jun 27 18:19			May 23 02:46	May 29 22:09			
	Jul 4 11:01	Jul 12 00:52	Jul 19 22:57	Jul 26 23:00			Jun 21 11:58 T	Jun 28 03:20			
	Aug 2 20:45	Aug 10 18:21	Aug 18 09:27	Aug 25 03:41			Jul 20 19:44	Jul 27 10:08			
	Sep 1 09:03 A	Sep 9 11:49	Sep 16 19:05 n	Sep 23 09:56			Aug 19 02:55	Aug 25 19:55			
	Oct 1 00:12	Oct 9 04:33	Oct 16 04:23	Oct 22 19:14			Sep 17 10:27	Sep 24 09:31			
	Oct 30 17:38	Nov 7 19:51	Nov 14 13:52	Nov 21 08:33			Oct 16 19:23	Oct 24 02:58			
	Nov 29 12:18	Dec 7 09:03	Dec 14 00:06	Dec 21 01:56			Nov 15 06:40	Nov 22 23:21			
	Dec 29 06:53						Dec 14 20:48 A	Dec 22 20:56			
					Dec 30 10:41 n						
2017	Jan 28 00:07	Jan 5 19:47	Jan 12 11:34	Jan 19 22:14	00h01m	2002	Jan 13 13:29	Jan 21 17:47	Jan 28 22:50	Jan 6 03:55	00h01m
	Feb 26 14:58 A	Feb 4 04:19	Feb 11 00:33 n	Feb 18 19:33			Feb 12 07:41	Feb 20 12:02			
	Mar 28 02:57	Mar 5 11:32	Mar 12 14:54	Mar 20 15:58			Mar 14 02:03	Mar 22 02:28			
	Apr 26 12:16	Apr 3 18:39	Apr 11 06:08	Apr 19 09:57			Apr 12 19:21	Apr 20 12:48			
	May 25 19:44	May 3 02:47	May 10 21:43	May 19 00:33			May 12 10:45	May 19 19:42			
	Jun 24 02:31	Jun 1 12:42	Jun 9 13:10	Jun 17 11:33			Jun 10 23:47 A	Jun 18 00:29			
	Jul 23 09:46	Jul 1 00:51	Jul 9 04:07	Jul 16 19:26			Jul 10 10:26	Jul 17 04:47			
	Aug 21 18:30 T	Aug 29 08:13	Sep 6 07:03	Sep 13 06:25			Aug 8 19:15	Aug 15 10:12			
	Sep 20 05:30	Sep 28 02:54	Oct 5 18:40	Oct 12 12:25			Sep 7 03:10	Sep 13 18:08			
	Oct 19 19:12	Oct 27 22:22	Nov 4 05:23	Nov 10 20:37			Oct 6 11:17	Oct 13 05:33			
	Nov 18 11:42	Nov 26 17:03	Dec 3 15:47	Dec 10 07:51			Nov 4 20:34	Nov 11 20:52			
	Dec 18 06:31	Dec 26 09:20					Dec 4 07:34 T	Dec 11 15:49			
								Dec 19 19:10			
2018	Jan 17 02:17	Jan 24 22:20	Jan 2 02:24	Jan 8 22:25	00h01m	2003	Jan 2 20:23	Jan 10 13:15	Jan 18 10:48	Jan 25 08:33	00h01m
	Feb 15 21:05 P	Feb 23 08:09	Mar 2 00:51	Mar 9 11:20			Feb 1 10:48	Feb 9 11:11			
	Mar 17 13:12	Mar 24 15:35	Mar 31 12:37	Apr 8 07:18			Mar 3 02:35	Mar 11 07:15			
	Apr 16 01:57	Apr 22 21:46	Apr 30 00:58	May 8 02:09			Apr 1 19:19	Apr 9 23:40			
	May 15 11:48	May 22 03:49	May 29 14:20	Jun 6 18:32			May 1 12:15	May 9 11:53			
	Jun 13 19:43	Jun 20 10:51	Jun 28 04:53	Jul 6 07:51			May 31 04:20 A	Jun 7 20:28			
	Jul 13 02:48 P	Jul 19 19:52	Jul 27 20:21 t	Aug 4 18:18			Jun 29 18:39	Jul 7 02:32			
	Aug 11 09:58 P	Aug 18 07:49	Aug 26 11:56	Aug 3 02:37			Jul 29 06:53	Aug 5 07:28			
	Sep 9 18:01	Sep 16 23:15	Sep 25 02:53	Oct 2 09:45			Aug 27 17:26	Sep 3 12:34			
	Oct 9 03:47	Oct 16 18:02	Oct 24 16:45	Oct 31 16:40			Sep 26 03:09	Oct 2 19:09			
	Nov 7 16:02	Nov 15 14:54	Nov 23 05:39	Nov 30 00:19			Oct 25 12:50	Nov 1 04:25			
	Dec 7 07:20	Dec 15 11:49	Dec 22 17:49	Dec 29 09:34			Nov 23 22:59 T	Nov 30 17:16			
							Dec 23 09:43	Dec 30 10:03			
					Jan 7 15:40						
2019	Jan 6 01:28 P	Jan 14 06:45	Jan 21 05:16 t	Jan 27 21:11	00h01m	2004	Jan 21 21:05	Jan 29 06:03	Feb 6 08:47	Jan 15 04:46	00h01m
	Feb 4 21:04	Feb 12 22:26	Feb 19 15:53	Feb 26 11:28			Feb 20 09:18	Feb 28 03:24			
	Mar 6 16:04	Mar 14 10:27	Mar 21 01:43	Mar 28 04:10			Mar 20 22:41	Mar 28 23:48			
	Apr 5 08:50	Apr 12 19:06	Apr 19 11:12	Apr 26 22:18			Apr 19 13:21 P	Apr 27 17:32			
	May 4 22:45	May 12 01:12	May 18 21:11	May 26 16:33			May 19 04:52	May 27 07:57			
	Jun 3 10:02	Jun 10 05:59	Jun 17 08:31	Jun 25 09:46			Jun 17 20:27	Jun 25 19:08			
	Jul 2 19:16 T	Jul 9 10:55	Jul 16 21:38 p	Jul 25 01:18			Jul 17 11:24	Jul 25 03:37			
	Aug 1 03:12	Aug 7 17:31	Aug 15 12:29	Aug 23 14:56			Aug 16 01:24	Aug 23 10:12			
	Aug 30 10:37	Sep 6 03:10	Sep 14 04:33	Sep 22 02:41			Sep 14 14:29	Sep 21 15:54			
	Sep 28 18:26	Oct 5 16:47	Oct 13 21:08	Oct 21 12:39			Oct 14 02:48 P	Oct 20 21:59			
	Oct 28 03:38	Nov 4 10:23	Nov 12 13:34	Nov 19 21:11			Nov 12 14:27	Nov 19 05:50			
	Nov 26 15:06	Dec 4 06:58	Dec 12 05:12	Dec 19 04:57			Dec 12 01:29	Dec 18 16:40			
	Dec 26 05:13 A							Dec 26 15:06			
2020	Jan 24 21:42	Jan 3 04:45	Jan 10 19:21 n	Jan 17 12:58	00h01m	2005	Jan 10 12:03	Jan 17 06:58	Jan 25 10:32	Jan 3 17:46	00h01m
	Feb 23 15:32	Feb 2 01:42	Feb 9 07:33	Feb 15 22:17			Feb 8 22:28	Feb 16 00:16			
	Mar 24 09:28	Mar 2 19:57	Mar 9 17:48	Mar 16 09:34			Mar 10 09:10	Mar 17 19:19			
	Apr 23 02:26	Apr 1 10:21	Apr 8 02:35	Apr 14 22:56			Apr 8 20:32 H	Apr 16 14:37			
	May 22 17:39	May 30 03:30	Jun 5 19:12 n	Jun 13 06:24			May 8 08:45	May 16 08:56			
	Jun 21 06:41 A	Jun 28 08:16	Jul 5 04:44 n	Jul 12 23:29			Jun 6 21:55	Jun 15 01:22			
	Jul 20 17:33	Jul 27 12:32	Aug 3 15:59	Aug 11 16:45			Jul 6 12:03	Jul 14 15:20			
	Aug 19 02:42	Aug 25 17:58	Sep 2 05:22	Sep 10 09:26			Aug 5 03:05	Aug 13 02:39			
	Sep 17 11:00	Sep 24 01:55	Oct 1 21:05	Oct 10 00:40			Sep 3 18:45	Sep 11 11:37			
	Oct 16 19:31	Oct 23 13:23	Oct 31 14:49	Nov 8 13:46			Oct 3 10:28 A	Oct 10 19:01			
	Nov 15 05:07	Nov 22 04:45	Nov 30 09:30 n	Dec 8 00:37			Nov 2 01:25	Nov 9 01:57			
	Dec 14 16:17 T	Dec 21 23:41	Dec 30 03:28				Dec 1 15:01	Dec 8 09:36			
							Dec 31 03:12	Dec 15 16:16			
					Dec 23 19:36						

Год	Новолуние	1 четверть	Полнолуние	Посл. четверть	Delta T	Год	Новолуние	1 четверть	Полнолуние	Посл. четверть	Delta T
2006	Jan 29 14:15	Jan 6 18:57	Jan 14 09:48	Jan 22 15:14	00h01m	2011	Jan 4 09:03 P	Jan 12 11:31	Jan 19 21:21	Jan 26 12:57	00h01m
	Feb 28 00:31	Feb 5 06:29	Feb 13 04:44	Feb 21 07:17			Feb 18 08:36	Feb 24 23:26			
	Mar 29 10:15 T	Mar 6 20:16	Mar 14 23:35 n	Mar 22 19:10			Mar 4 20:46	Mar 12 23:45	Mar 19 18:10	Mar 26 12:07	
	Apr 27 19:44	Apr 5 05:13	Apr 13 16:40	Apr 21 03:28			Apr 3 14:32	Apr 11 12:05	Apr 18 02:44	Apr 25 02:47	
	May 27 05:26	May 5 23:06	May 13 06:51	May 20 09:21			May 3 06:51	May 10 20:33	May 17 11:09	May 24 18:52	
	Jun 25 16:05	Jun 3 23:06	Jun 11 18:03	Jun 18 14:08			Jun 1 21:03 P	Jun 9 02:11	Jun 15 20:13 t	Jun 23 11:48	
	Jul 25 04:31	Jul 3 16:37	Jul 11 03:02	Jul 17 19:13			Jul 1 08:54 P	Jul 8 06:29	Jul 15 06:40	Jul 23 05:02	
	Aug 23 19:10	Aug 2 08:46	Aug 9 10:54	Aug 16 01:51			Jul 30 18:40	Aug 6 11:08	Aug 13 18:58	Aug 21 21:55	
	Sep 22 11:45 A	Aug 31 22:56	Sep 7 18:42 p	Sep 14 11:15			Aug 29 03:04	Sep 4 17:39	Sep 12 09:27	Sep 20 13:39	
	Oct 22 05:14	Sep 30 11:04	Oct 7 03:13	Oct 14 00:25			Sep 27 11:09	Oct 4 03:15	Oct 12 02:06	Oct 20 03:30	
	Nov 20 22:18	Oct 29 21:25	Nov 5 12:58	Nov 12 17:45			Oct 26 19:56	Nov 2 16:38	Nov 10 20:16	Nov 18 15:09	
	Dec 20 14:01	Nov 28 06:29	Dec 5 00:25	Dec 12 14:32			Nov 25 06:10 P	Dec 2 09:52	Dec 10 14:36 t	Dec 18 00:48	
		Dec 27 14:48					Dec 24 18:06				
2007			Jan 3 13:57	Jan 11 12:45	00h01m	2012		Jan 1 06:15	Jan 9 07:30	Jan 16 09:08	00h01m
	Jan 19 04:01	Jan 25 23:02	Feb 2 05:45	Feb 10 09:51			Jan 23 07:39	Jan 31 04:10	Feb 7 21:54	Feb 14 17:04	
	Feb 17 16:14	Feb 24 07:56	Mar 3 23:17 t	Mar 12 03:54			Feb 21 22:35	Mar 1 01:22	Mar 8 09:40	Mar 15 01:25	
	Mar 19 02:43 P	Mar 25 18:16	Apr 2 17:15	Apr 10 18:04			Mar 22 14:37	Mar 30 19:41	Apr 6 19:19	Apr 13 10:50	
	Apr 17 11:36	Apr 24 06:36	May 2 10:09	May 10 04:27			Apr 21 07:18	Apr 29 09:58	May 6 03:35	May 12 21:47	
	May 16 19:27	May 23 21:03	Jun 1 01:04	Jun 8 11:43			May 20 23:47 A	May 28 20:16	Jun 4 11:12 p	Jun 11 10:41	
	Jun 15 03:13	Jun 22 13:15	Jun 30 13:49	Jul 7 16:54			Jun 19 15:02	Jun 27 03:30	Jul 3 18:52	Jul 11 01:48	
	Jul 14 12:04	Jul 22 06:29	Jul 30 00:48	Aug 5 21:20			Jul 19 04:24	Jul 26 08:56	Aug 2 03:27	Aug 9 18:55	
	Aug 12 23:03	Aug 20 23:54	Aug 28 10:35 t	Sep 4 02:33			Aug 17 15:55	Aug 24 13:54	Aug 31 13:58	Sep 8 13:15	
	Sep 11 12:44 P	Sep 19 16:48	Sep 26 19:45	Oct 3 10:06			Sep 16 02:11	Sep 22 19:41	Sep 30 03:19	Oct 8 07:33	
	Oct 11 05:01	Oct 19 08:33	Oct 26 04:52	Nov 1 21:18			Oct 15 12:03	Oct 22 03:32	Oct 29 19:50	Nov 7 00:36	
	Nov 9 23:03	Nov 17 22:33	Nov 24 14:30	Dec 1 12:44			Nov 13 22:08 T	Nov 20 14:31	Nov 28 14:46 n	Dec 6 15:32	
	Dec 9 17:40	Dec 17 10:17	Dec 24 01:16	Dec 31 07:51			Dec 13 08:42	Dec 20 05:19	Dec 28 10:21		
2008	Jan 8 11:37	Jan 15 19:46	Jan 22 13:35	Jan 30 05:03	00h01m	2013	Jan 11 19:44	Jan 18 23:45	Jan 27 04:39	Jan 5 03:58	00h01m
	Feb 7 03:44 A	Feb 14 03:34	Feb 21 03:31 t	Feb 29 02:18			Feb 10 07:20	Feb 17 20:31	Feb 25 20:26	Feb 3 13:56	
	Mar 7 17:14	Mar 14 10:46	Mar 21 18:40	Mar 29 21:47			Mar 11 19:51	Mar 19 17:27	Mar 27 09:27	Mar 4 04:37	
	Apr 6 03:55	Apr 12 18:32	Apr 20 10:25	Apr 28 14:12			Apr 10 09:35	Apr 18 12:31	Apr 25 19:57 p	Apr 2 11:14	
	May 5 12:18	May 12 03:47	May 20 02:11	May 28 02:57			May 10 00:29 A	May 18 04:35	May 25 04:25 n	May 31 18:58	
	Jun 3 19:23	Jun 10 15:04	Jun 18 17:30	Jun 26 12:10			Jun 8 15:57	Jun 16 17:24	Jun 23 11:32	Jun 30 04:54	
	Jul 3 02:19	Jul 10 04:35	Jul 18 07:59	Jul 25 18:42			Jul 8 07:14	Jul 16 03:18	Jul 22 18:15	Jul 29 17:43	
	Aug 1 10:13 T	Aug 8 20:20	Aug 16 21:16 p	Aug 23 23:50			Aug 6 21:51	Aug 14 10:56	Aug 21 01:45	Aug 28 09:35	
	Aug 30 19:58	Sep 7 14:04	Sep 15 09:13	Sep 22 05:04			Sep 5 11:36	Sep 12 17:08	Sep 19 11:13	Sep 27 03:56	
	Sep 29 08:12	Oct 7 09:04	Oct 14 20:03	Oct 21 11:55			Oct 5 00:35	Oct 11 23:02	Oct 18 23:38 n	Oct 26 23:41	
	Oct 28 23:14	Nov 6 04:04	Nov 13 06:17	Nov 19 21:31			Nov 3 12:50 H	Nov 10 05:57	Nov 17 15:16	Nov 25 19:28	
	Nov 27 16:55	Dec 5 21:26	Dec 12 16:37	Dec 19 10:29			Dec 3 00:22	Dec 9 15:12	Dec 17 09:28	Dec 25 13:48	
	Dec 27 12:23										
2009		Jan 4 11:56	Jan 11 03:27	Jan 18 02:46	00h01m	2014	Jan 1 11:14	Jan 8 03:39	Jan 16 04:52	Jan 24 05:19	00h01m
	Jan 26 07:55 A	Feb 2 23:13	Feb 9 14:49 n	Feb 16 21:37			Jan 30 21:39	Feb 6 19:22	Feb 14 23:53	Feb 22 17:15	
	Feb 25 01:35	Mar 4 07:46	Mar 11 02:38	Mar 18 17:47			Mar 1 08:00	Mar 8 13:27	Mar 16 17:09	Mar 24 01:46	
	Mar 26 16:06	Apr 2 14:34	Apr 9 14:56	Apr 17 13:36			Mar 30 18:45	Apr 7 08:31	Apr 15 07:42 t	Apr 22 07:52	
	Apr 25 03:23	May 1 20:44	May 9 04:01	May 17 07:26			Apr 29 06:14 A	May 7 03:15	May 14 19:16	May 21 12:59	
	May 24 12:11	May 31 03:22	Jun 7 18:12	Jun 15 22:15			May 28 18:40	Jun 5 20:39	Jun 13 04:11	Jun 19 18:39	
	Jun 22 19:35	Jun 29 11:28	Jul 7 09:21 n	Jul 15 09:53			Jun 27 08:09	Jul 5 11:59	Jul 12 11:25	Jul 19 02:08	
	Jul 22 02:35 T	Jul 28 22:00	Aug 6 00:55 n	Aug 13 18:55			Jul 26 22:42	Aug 4 00:50	Aug 10 18:09	Aug 17 12:26	
	Aug 20 10:02	Aug 27 11:42	Sep 4 16:03	Sep 12 02:16			Aug 25 14:13	Sep 2 11:11	Sep 9 01:38	Sep 16 02:05	
	Sep 18 18:44	Sep 26 04:50	Oct 4 06:10	Oct 11 08:56			Sep 24 06:14	Oct 1 19:33	Oct 8 10:51 t	Oct 15 19:12	
	Oct 18 05:33	Oct 26 00:42	Nov 2 19:14	Nov 9 15:56			Oct 23 21:57 P	Oct 31 02:48	Nov 6 22:23	Nov 14 15:16	
	Nov 16 19:14	Nov 24 21:39	Dec 2 07:30	Dec 9 00:13			Nov 22 12:32	Nov 29 10:06	Dec 6 12:27	Dec 14 12:51	
	Dec 16 12:02	Dec 24 17:36	Dec 31 19:13 p				Dec 22 01:36	Dec 28 18:31			
2010			Jan 30 06:18	Jan 7 10:40	00h01m	2015	Jan 20 13:14	Jan 27 04:48	Jan 5 04:53	Jan 13 09:47	00h01m
	Jan 15 07:11 A	Jan 23 10:53	Feb 28 16:38	Feb 5 23:49			Feb 18 23:47	Feb 25 17:14	Mar 5 18:06	Mar 13 17:48	
	Feb 14 02:51	Feb 22 00:42	Mar 7 15:42	Mar 14 09:37			Mar 20 09:36 T	Mar 27 07:43	Apr 4 12:06 t	Apr 12 03:45	
	Mar 15 21:01	Mar 23 11:00	Apr 6 09:37	Apr 13 04:15			Apr 18 18:57	Apr 25 23:55	May 4 03:42	May 11 10:36	
	Apr 14 12:29	Apr 21 18:20	May 6 04:15	May 13 22:13			May 18 04:13	May 25 17:19	Jun 2 16:19	Jun 9 15:42	
	May 14 01:04	May 20 23:43	May 27 23:07	Jun 4 22:13			Jun 16 14:05	Jun 24 11:03	Jul 2 02:20	Jul 8 20:24	
	Jun 12 11:15	Jun 19 04:30	Jun 26 11:30 p	Jul 4 14:35			Jul 16 01:24	Jul 24 04:04	Jul 31 10:43	Aug 7 02:03	
	Jul 11 19:40 T	Jul 18 10:11	Jul 26 01:37	Aug 3 04:59			Aug 14 14:54	Aug 22 19:31	Aug 29 18:35	Sep 5 09:54	
	Aug 10 03:08	Aug 16 18:14	Aug 24 17:05	Sep 1 17:22			Sep 13 06:41 P	Sep 21 08:59	Sep 28 02:50 t	Oct 4 21:06	
	Sep 8 10:30	Sep 15 05:50	Sep 23 09:17	Oct 1 03:52			Oct 13 00:06	Oct 20 20:31	Oct 27 12:05	Nov 3 12:24	
	Oct 7 18:44	Oct 14 21:27	Oct 23 01:36	Oct 30 12:46			Nov 11 17:47	Nov 19 06:27	Nov 25 22:44	Dec 3 07:40	
	Nov 6 04:52	Nov 13 16:39	Nov 21 17:27	Nov 28 20:36			Dec 11 10:29	Dec 18 15:14	Dec 25 11:11		
	Dec 5 17:36	Dec 13 13:59	Dec 21 08:13 t	Dec 28 04:18							

Год	Новолуние	1 четверть	Полнолуние	Посл. четверть	Delta T	Год	Новолуние	1 четверть	Полнолуние	Посл. четверть	Delta T
2036	Jan 28 10:17	Jan 6 17:47	Jan 13 11:16	Jan 20 06:47	00h02m	2021	Jan 13 05:01	Jan 20 21:02	Jan 28 19:17	Jan 6 09:37	00h01m
	Feb 27 05:00 P	Feb 5 07:00	Feb 11 22:08 t	Feb 18 23:48			Feb 11 19:07	Feb 19 18:48	Feb 27 08:18	Mar 6 01:31	
	Mar 27 20:58	Mar 5 16:48	Mar 12 09:09	Mar 19 18:40			Mar 13 10:22	Mar 21 14:40	Mar 28 18:49	Apr 4 10:03	
	Apr 26 09:34	Apr 4 00:02	Apr 10 20:22	Apr 18 14:08			Apr 12 02:32	Apr 20 06:59	Apr 27 03:32	May 3 19:50	
	May 25 19:17	May 3 05:54	May 10 08:09	May 18 08:41			May 11 19:00	May 19 19:12	May 26 11:13 t	Jun 2 07:25	
	Jun 24 03:10	Jun 1 11:34	Jun 8 21:01	Jun 17 01:04			Jun 10 10:53 A	Jun 18 03:53	Jun 24 18:39	Jul 1 21:11	
	Jul 23 10:17 P	Jun 30 02:56	Jul 8 11:19	Jul 16 14:40			Jul 10 01:16	Jul 17 10:10	Jul 24 02:36	Jul 31 13:17	
	Aug 21 17:35 P	Aug 28 14:43	Aug 7 02:49 t	Aug 15 01:36			Aug 8 13:49	Aug 15 15:20	Aug 22 12:01	Aug 30 07:14	
	Sep 20 01:51	Sep 27 06:12	Sep 5 18:46	Sep 13 10:29			Sep 7 00:51	Sep 13 20:40	Sep 20 23:53	Sep 29 01:57	
	Oct 19 11:49	Oct 27 01:13	Oct 5 10:16	Oct 12 18:09			Oct 6 11:04	Oct 13 03:26	Oct 20 14:56	Oct 28 20:05	
	Nov 18 00:14	Nov 25 22:27	Nov 4 00:45	Nov 11 01:29			Nov 4 21:14	Nov 11 12:47	Nov 19 08:58 p	Nov 27 12:28	
	Dec 17 15:34	Dec 25 19:43	Dec 3 14:09	Dec 10 09:19			Dec 4 07:43 T	Dec 11 01:36	Dec 19 04:37	Dec 27 02:25	
	2037	Jan 16 09:35 P	Jan 24 14:55	Jan 2 02:35	Jan 8 18:30		00h02m	2022	Jan 2 18:34	Jan 9 18:12	Jan 17 23:50
Feb 15 04:54		Feb 23 06:40	Jan 31 14:04 t	Feb 7 05:44		Feb 1 05:48	Feb 8 13:50		Feb 16 16:58	Feb 23 22:33	
Mar 16 23:37		Mar 24 18:39	Mar 2 00:28	Mar 8 19:26		Mar 2 17:37	Mar 10 10:45		Mar 18 07:19	Mar 25 05:38	
Apr 15 16:09		Apr 23 03:11	Mar 31 09:53	Apr 7 11:26		Apr 1 06:26	Apr 9 06:47		Apr 16 18:56	Apr 23 11:57	
May 15 05:55		May 22 09:09	Apr 29 18:53	May 7 04:57		Apr 30 20:29 P	May 9 00:21		May 16 04:14 t	May 22 18:43	
Jun 13 17:10		Jun 20 13:46	May 29 04:24	May 5 22:49		May 30 11:31	Jun 7 14:48		Jun 14 11:51	Jun 21 03:10	
Jul 13 02:32 T		Jul 19 18:32	Jun 27 15:20	Jul 5 16:01		Jun 29 02:52	Jul 7 02:13		Jul 13 18:37	Jul 20 14:18	
Aug 11 10:41		Aug 18 01:00	Jul 27 04:15 p	Aug 4 07:52		Jul 28 17:54	Aug 5 11:06		Aug 12 01:35	Aug 19 04:35	
Sep 9 18:25		Sep 16 10:36	Aug 25 19:10	Sep 2 22:04		Aug 27 08:15	Sep 3 18:07		Sep 10 09:57	Sep 17 21:51	
Oct 9 02:34		Oct 16 00:14	Sep 24 11:32	Oct 2 10:30		Sep 25 21:53	Oct 3 00:14		Oct 9 20:53	Oct 17 17:15	
Nov 7 12:03		Nov 14 17:57	Oct 24 04:37	Oct 31 21:07		Oct 25 10:47 P	Nov 1 06:37		Nov 8 11:01 t	Nov 16 13:28	
Dec 6 23:39		Dec 14 14:41	Nov 22 21:36	Nov 30 06:07		Nov 23 22:56	Nov 30 14:37		Dec 8 04:08	Dec 16 08:58	
Dec 26 01:03 T		Jan 3 12:45	Dec 22 13:39	Dec 29 14:05		Dec 23 10:16	Dec 30 01:21				
2038	Jan 5 13:42 A	Jan 13 12:34	Jan 21 04:01 n	Jan 27 22:01	00h02m	2023	Jan 21 20:54	Jan 28 15:19	Jan 6 23:08	Jan 15 02:12	00h01m
	Feb 4 05:53	Feb 12 09:31	Feb 19 16:10	Feb 26 06:57			Feb 20 07:08	Feb 27 08:05	Feb 5 18:29	Feb 13 16:02	
	Mar 5 23:16	Mar 14 03:42	Mar 21 02:10	Mar 27 17:37			Mar 21 17:25	Mar 29 02:32	Mar 7 12:41	Mar 15 02:09	
	Apr 4 16:44	Apr 12 18:02	Apr 19 10:36	Apr 26 06:15			Apr 20 04:14 H	Apr 27 21:20	Apr 6 04:36	Apr 13 09:11	
	May 4 09:20	May 12 04:17	May 18 18:23	May 25 20:43			May 19 15:54	May 27 15:22	May 5 17:35 n	May 12 14:28	
	Jun 3 00:24	Jun 10 11:11	Jun 17 02:29 n	Jun 24 12:39			Jun 18 04:38	Jun 26 07:50	Jun 4 03:42	Jun 10 19:31	
	Jul 2 13:31 A	Jul 9 16:00	Jun 16 11:47 n	Jul 24 05:40			Jul 17 18:32	Jul 25 22:07	Jul 3 11:39	Jul 10 01:48	
	Aug 1 00:39	Aug 7 20:21	Aug 14 22:55	Aug 22 23:13			Aug 16 09:37	Aug 24 09:57	Aug 1 18:32	Aug 8 10:28	
	Aug 30 10:11	Sep 6 01:50	Sep 13 12:23	Sep 21 16:27			Sep 15 01:39	Sep 22 19:31	Aug 31 01:36	Sep 6 22:21	
	Sep 28 18:56	Oct 5 09:52	Oct 13 04:21	Oct 21 08:23			Oct 14 17:54 A	Oct 22 03:29	Sep 29 09:57	Oct 6 13:48	
	Oct 28 03:52	Nov 3 21:23	Nov 11 22:28	Nov 19 22:10			Nov 13 09:26	Nov 20 10:49	Oct 28 20:23 p	Nov 5 08:37	
	Nov 26 13:47	Dec 3 12:45	Dec 11 17:31 n	Dec 19 09:29			Dec 12 23:31	Dec 19 18:39	Nov 27 09:15	Dec 5 05:51	
	Dec 26 01:03 T								Dec 27 00:32		
2039	Jan 24 13:38	Jan 2 07:37	Jan 10 11:46	Jan 17 18:42	00h02m	2024	Jan 11 11:57	Jan 18 03:52	Jan 25 17:53	Jan 4 03:31	00h01m
	Feb 23 03:19	Feb 1 04:46	Feb 9 03:41	Feb 16 02:37			Feb 9 22:59	Feb 16 15:01	Feb 24 12:30	Feb 2 23:19	
	Mar 24 18:01	Mar 3 02:16	Mar 10 16:36	Mar 17 10:08			Mar 10 09:01	Mar 17 04:10	Mar 25 07:00 n	Mar 3 15:24	
	Apr 23 09:36	Apr 1 21:55	Apr 9 02:54	Apr 15 18:08			Apr 8 18:22 T	Apr 15 19:13	Apr 23 23:50	Apr 2 03:14	
	May 23 01:38	May 1 14:07	May 8 11:20	May 15 03:17			May 8 03:23	May 15 11:48	May 23 13:54	May 1 11:26	
	Jun 21 17:21 A	May 31 02:24	Jun 6 18:47 p	Jun 13 14:17			Jun 6 12:39	Jun 14 05:18	Jun 22 01:09	May 30 17:12	
	Jul 21 07:53	Jun 29 11:16	Jul 7 02:02	Jul 13 03:39			Jul 5 22:58	Jul 13 22:48	Jun 28 21:54	Jun 28 21:54	
	Aug 19 20:49	Jul 28 17:49	Aug 4 09:55	Aug 11 19:36			Aug 4 11:13	Aug 12 15:18	Jul 21 10:18	Jul 28 02:53	
	Sep 18 08:21	Aug 26 23:16	Sep 2 19:22	Sep 10 13:45			Sep 3 01:55	Sep 11 06:05	Aug 19 18:27	Aug 26 09:28	
	Oct 17 19:07	Sep 25 04:53	Oct 2 07:21	Oct 10 08:59			Oct 2 18:49 A	Oct 10 18:55	Sep 18 02:35 p	Sep 24 18:51	
	Nov 16 05:45	Oct 24 11:51	Oct 31 22:35	Nov 9 03:45			Nov 1 12:47	Nov 9 05:55	Oct 17 11:26	Oct 24 08:04	
	Dec 15 16:31 T	Nov 22 21:17	Nov 30 16:49 p	Dec 8 20:44			Dec 1 06:21	Dec 8 15:26	Nov 15 21:28	Nov 23 01:28	
		Dec 22 10:01	Dec 30 12:38				Dec 30 22:26		Dec 15 09:01	Dec 22 22:18	
2040	Jan 14 03:25	Jan 21 02:21	Jan 29 07:55	Jan 7 11:05	00h02m	2025	Jan 29 12:36	Jan 6 23:56	Jan 13 22:26	Jan 21 20:31	00h01m
	Feb 12 14:25	Feb 19 21:33	Feb 28 01:01	Feb 5 22:32			Feb 5 08:02	Feb 12 13:53	Feb 19 18:48	Feb 20 17:33	
	Mar 13 01:48	Mar 20 17:58	Mar 28 15:13	Mar 6 07:19			Mar 6 16:32	Mar 14 06:54 t	Mar 21 11:31	Mar 22 11:31	
	Apr 11 14:02	Apr 19 13:37	Apr 27 02:39	Apr 4 14:07			Mar 29 10:59 P	Apr 5 02:15	Apr 13 00:22	Apr 21 01:36	
	May 11 03:29 P	May 19 07:00	May 26 11:48 t	May 3 20:00			Apr 27 19:32	May 4 13:52	May 12 16:57	May 20 11:59	
	Jun 9 18:04	Jun 17 21:33	Jun 24 19:20	Jun 2 02:18			May 27 03:03	Jun 3 03:40	Jun 11 07:45	Jun 18 19:19	
	Jul 9 09:15	Jun 13 03:39	Jul 1 10:18	Jul 8 19:08			Jun 25 10:32	Jul 2 19:29	Jun 10 20:37	Jul 18 00:38	
	Aug 8 00:26	Jul 28 17:49	Aug 4 09:55	Aug 11 19:36			Jul 24 19:11	Aug 1 12:40	Aug 9 07:56	Aug 16 05:13	
	Sep 6 15:13	Aug 26 23:16	Sep 2 19:22	Sep 10 13:45			Aug 23 06:06	Aug 31 06:24	Sep 7 18:09 t	Sep 14 10:34	
	Oct 6 05:24	Sep 25 04:53	Oct 2 07:21	Oct 10 08:59			Sep 21 19:53 P	Sep 29 23:53	Oct 7 03:47	Oct 13 18:13	
	Nov 4 18:54 P	Oct 24 11:51	Oct 31 22:35	Nov 9 03:45			Oct 21 12:24	Oct 29 16:21	Nov 5 13:19	Nov 12 05:28	
	Dec 4 07:31	Nov 22 21:17	Nov 30 16:49 p	Dec 8 20:44			Nov 20 06:47	Nov 28 06:58	Dec 4 23:14	Dec 11 20:51	
		Dec 22 10:01	Dec 30 12:38				Dec 20 01:43	Dec 27 19:09			

Год	Новолуние	1 четверть	Полнолуние	Посл. четверть	Delta T	Год	Новолуние	1 четверть	Полнолуние	Посл. четверть	Delta T
2026	Jan 18 19:52	Jan 26 04:47	Jan 3 10:03	Jan 10 15:48	00h02m	2031	Jan 23 04:31	Jan 30 07:43	Jan 8 18:26	Jan 16 12:47	00h02m
	Feb 17 12:02 A	Feb 24 12:27	Mar 3 11:38 t	Mar 11 09:40			Feb 7 12:47	Feb 14 22:49			
	Mar 19 01:25	Mar 25 19:18	Apr 2 02:12	Apr 10 04:54			Mar 9 04:31	Mar 16 06:36			
	Apr 17 11:53	Apr 24 02:32	May 1 17:23	May 9 21:12			Apr 7 17:22	Apr 14 12:58			
	May 16 20:02	May 23 11:11	May 31 08:45	Jun 8 10:02			Apr 29 19:19	May 7 03:40 n			
	Jun 15 02:54	Jun 21 21:54	Jun 29 23:57	Jul 7 19:29			May 21 07:18 A	May 29 11:19			
	Jul 14 09:44	Jul 21 11:04	Jul 29 14:36	Aug 6 02:21			Jun 29 00:19	Jun 5 11:58 n			
	Aug 12 17:36 T	Aug 20 02:45	Aug 28 04:18 p	Sep 4 07:51			Jul 19 13:40	Jul 27 10:35			
	Sep 11 03:26	Sep 18 20:43	Sep 26 16:49	Oct 3 13:25			Aug 18 04:31	Aug 25 18:40			
	Oct 10 15:49	Oct 18 16:12	Oct 26 04:12	Nov 1 20:29			Sep 16 18:46	Sep 24 01:20			
	Nov 9 07:01	Nov 17 11:47	Nov 24 14:54	Dec 1 06:09			Oct 16 08:19	Oct 23 07:37			
	Dec 9 00:51	Dec 17 05:42	Dec 24 01:28	Dec 30 18:59			Nov 14 21:08 H	Nov 21 14:45			
							Dec 14 09:04	Dec 21 00:00			
					Dec 28 17:32						
2027	Jan 7 20:24	Jan 15 20:33	Jan 22 12:17	Jan 29 10:55	00h02m	2032	Jan 12 20:06	Jan 19 12:13	Jan 27 12:51	Jan 5 22:05	00h02m
	Feb 6 15:56 A	Feb 14 07:57	Feb 20 23:23 n	Feb 28 05:17			Feb 11 06:24	Feb 18 03:27			
	Mar 8 09:30	Mar 15 16:24	Mar 22 10:43	Mar 30 00:55			Mar 11 16:25	Mar 18 20:54			
	Apr 6 23:52	Apr 13 22:55	Apr 20 22:26	Apr 28 20:19			Apr 10 02:40	Apr 17 15:23			
	May 6 10:59	May 13 04:43	May 20 10:58	May 28 13:58			May 9 13:37 A	May 17 09:43			
	Jun 4 19:40	Jun 11 10:56	Jun 19 00:44	Jun 27 04:55			Jun 8 01:33	Jun 16 03:00			
	Jul 4 03:02	Jul 10 18:39	Jul 18 15:45	Jul 26 16:55			Jul 7 14:42	Jul 15 18:33			
	Aug 2 10:05 T	Aug 9 04:54	Aug 17 07:29 n	Aug 25 02:27			Aug 6 05:11	Aug 14 07:51			
	Aug 31 17:40	Sep 7 18:30	Sep 15 23:04	Sep 23 10:20			Sep 4 20:56	Sep 12 18:49			
	Sep 30 02:35	Oct 7 11:46	Oct 15 13:47	Oct 22 17:29			Oct 4 13:25	Oct 12 03:47			
	Oct 29 13:35	Nov 6 07:58	Nov 14 03:26	Nov 21 00:49			Nov 3 05:44 P	Nov 10 11:33			
	Nov 28 03:24	Dec 6 05:20	Dec 13 16:09	Dec 20 09:12			Dec 2 20:52	Dec 9 19:08			
	Dec 27 20:12							Dec 16 20:48			
					Dec 24 20:41						
2028	Jan 26 15:13 A	Jan 5 01:40	Jan 12 04:03 p	Jan 18 19:27	00h02m	2033	Jan 1 10:16	Jan 8 03:34	Jan 15 13:06	Jan 23 17:46	00h02m
	Feb 25 10:37	Feb 3 19:10	Feb 10 15:03	Feb 17 08:09			Jan 30 21:59	Feb 6 13:34			
	Mar 26 04:32	Mar 4 09:01	Mar 11 01:05	Mar 17 23:23			Mar 1 08:24	Mar 8 01:26			
	Apr 24 19:47	Apr 2 19:14	Apr 9 10:25	Apr 16 16:37			Mar 30 17:52 T	Apr 6 15:13			
	May 24 08:16	May 31 07:37	Jun 7 06:08	Jun 15 04:28			Apr 29 02:46	May 6 06:45			
	Jun 22 18:27	Jun 29 12:11	Jul 6 18:11 p	Jul 14 20:58			May 28 11:37	Jun 4 23:39			
	Jul 22 03:01 T	Jul 28 17:41	Aug 5 08:10	Aug 13 11:47			Jun 26 21:07	Jul 4 17:12			
	Aug 20 10:43	Aug 27 01:36	Sep 3 23:48	Sep 12 00:47			Jul 26 08:12	Aug 3 10:25			
	Sep 18 18:23	Sep 25 13:09	Oct 3 16:25	Oct 11 11:57			Aug 24 21:39	Sep 2 02:23			
	Oct 18 02:56	Oct 25 04:51	Nov 2 09:17	Nov 9 21:25			Sep 23 13:39 P	Oct 1 16:32			
	Nov 16 13:17	Nov 24 00:12	Dec 2 01:40	Dec 9 05:38			Oct 23 07:28	Oct 31 04:46			
	Dec 16 02:06	Dec 23 21:43	Dec 31 16:48 t				Nov 22 01:39	Nov 29 15:15			
							Dec 21 18:46	Dec 29 00:20			
					Jan 4 19:47						
2029	Jan 14 17:24 P	Jan 22 19:23	Jan 30 06:03	Feb 5 21:52	00h02m	2034	Jan 20 10:02	Jan 27 08:32	Feb 3 10:04	Feb 11 11:09	00h02m
	Feb 13 10:32	Feb 21 15:10	Feb 28 17:10	Mar 7 07:52			Feb 18 23:11	Feb 25 16:35			
	Mar 15 04:20	Mar 23 07:33	Mar 30 02:26	Apr 5 19:51			Mar 20 10:15 T	Mar 27 01:19			
	Apr 13 21:40	Apr 21 19:50	Apr 28 10:36	May 5 09:48			Apr 18 19:26	Apr 25 11:34			
	May 13 13:42	May 21 04:16	May 27 18:37	Jun 4 01:19			May 18 03:12	May 24 23:57			
	Jun 12 03:50 P	Jun 19 09:54	Jun 26 03:22 t	Jul 3 17:58			Jun 16 10:26	Jun 23 14:34			
	Jul 11 15:51 P	Jul 18 14:14	Jul 25 13:35	Aug 2 11:17			Jul 15 18:15	Jul 23 07:03			
	Aug 10 01:55	Aug 16 18:55	Aug 24 01:51	Sep 1 04:34			Aug 14 03:52	Aug 22 00:42			
	Sep 8 10:43	Sep 15 01:29	Sep 22 16:29	Sep 30 20:57			Sep 12 16:13 A	Sep 20 18:39			
	Oct 7 19:14	Oct 14 11:08	Oct 22 09:27	Oct 30 11:32			Oct 12 07:32	Oct 20 12:03			
	Nov 6 04:23	Nov 13 00:34	Nov 21 04:03	Nov 28 23:47			Nov 11 01:16	Nov 19 04:01			
	Dec 5 14:52 P	Dec 12 17:48	Dec 20 22:46 t	Dec 28 09:48			Dec 10 20:14	Dec 18 17:45			
								Dec 25 08:55			
					Jan 12 13:17						
2030	Jan 4 02:50	Jan 11 14:05	Jan 19 15:55	Jan 26 18:14	00h02m	2035	Jan 9 15:03	Jan 17 04:45	Jan 23 20:17	Jan 1 10:01	00h02m
	Feb 2 16:08	Feb 10 11:50	Feb 18 06:21	Feb 25 01:58			Feb 8 08:22	Feb 15 13:16			
	Mar 4 06:35	Mar 12 08:47	Mar 19 17:57	Mar 26 09:51			Mar 9 23:10 A	Mar 16 20:14			
	Apr 2 22:03	Apr 11 02:56	Apr 18 03:20	Apr 24 18:39			Apr 8 10:58	Apr 15 02:54			
	May 2 14:12	May 10 17:11	May 17 11:18	May 24 04:57			May 7 20:03	May 14 10:27			
	Jun 1 06:21 A	Jun 9 03:34	Jun 15 18:40 p	Jun 22 17:19			Jun 6 03:20	Jun 12 19:48			
	Jun 30 21:33	Jul 8 11:00	Jul 15 02:10	Jul 22 08:07			Jul 5 09:59	Jul 12 07:31			
	Jul 30 11:10	Aug 6 16:42	Aug 13 10:43	Aug 21 01:15			Aug 3 17:11	Aug 10 21:51			
	Aug 28 23:06	Sep 4 21:55	Sep 11 21:16	Sep 19 19:56			Sep 2 01:59 T	Sep 9 14:47			
	Sep 27 09:53	Oct 4 03:56	Oct 11 10:45	Oct 19 14:50			Oct 1 13:06	Oct 9 09:49			
	Oct 26 20:16	Nov 2 11:56	Nov 10 03:30	Nov 18 08:32			Oct 31 02:58	Nov 8 05:51			
	Nov 25 06:46 T	Dec 1 22:57	Dec 9 22:41 n	Dec 18 00:01			Nov 29 19:37	Dec 8 01:05			
	Dec 24 17:32	Dec 31 13:36					Dec 29 14:31	Dec 15 00:34			
					Dec 22 20:57						
					Nov 15 13:49						
					Dec 21 16:29						

Год	Новолуние	1 четверть	Полнолуние	Посл. четверть	Delta T	Год	Новолуние	1 четверть	Полнолуние	Посл. четверть	Delta T
2056	Jan 16 22:11 A	Jan 24 20:21	Jan 2 22:06	Jan 9 23:14	00h02m	2041	Jan 2 19:06	Jan 9 10:05	Jan 17 07:11	Jan 25 10:34	00h02m
	Feb 15 14:00	Feb 23 17:12	Feb 1 12:36 n	Feb 8 07:01			Feb 16 02:21	Feb 24 00:29			
	Mar 16 06:52	Mar 24 11:17	Mar 2 00:40	Mar 8 15:31			Mar 2 15:40	Mar 9 15:50	Mar 17 20:19	Mar 25 10:32	
	Apr 14 23:51	Apr 23 01:34	Mar 31 10:25	Apr 7 01:34			Apr 1 01:31	Apr 8 09:38	Apr 16 12:02	Apr 23 17:24	
	May 14 16:06	May 22 11:50	Apr 29 18:31	May 6 13:30			Apr 30 11:48 T	May 8 03:54	May 16 00:54 p	May 22 22:26	
	Jun 13 07:04	Jun 20 18:49	May 29 01:58	Jun 5 03:22			May 29 22:57	Jun 6 21:41	Jun 14 11:00	Jun 21 03:12	
	Jul 12 20:20 A	Jul 19 23:45	Jun 27 09:48 n	Jul 4 18:55			Jun 28 11:18	Jul 6 14:13	Jul 13 19:02	Jul 20 09:14	
	Aug 11 07:48	Aug 18 04:14	Jul 26 18:55 n	Aug 3 11:53			Jul 28 01:02	Aug 5 04:53	Aug 12 02:05	Aug 18 17:44	
	Sep 9 17:47	Sep 16 09:51	Aug 25 06:01	Sep 2 05:43			Aug 26 16:15	Sep 3 17:18	Sep 10 09:24	Sep 17 05:33	
	Oct 9 03:01	Oct 15 17:58	Sep 23 19:35	Oct 1 23:33			Sep 25 08:40	Oct 3 03:32	Oct 9 18:02	Oct 16 21:04	
	Nov 7 12:21	Nov 14 05:33	Oct 23 11:47	Oct 31 16:12			Oct 25 01:28 A	Nov 1 12:04	Nov 8 04:42 p	Nov 15 16:06	
	Dec 6 22:31	Dec 13 20:54	Nov 7 06:12	Nov 30 06:37			Nov 23 17:35	Nov 30 19:48	Dec 7 17:41	Dec 15 13:33	
			Dec 22 01:34 n	Dec 29 18:22			Dec 23 08:05	Dec 30 03:45			
2057	Jan 5 09:49 T	Jan 12 15:35	Jan 20 20:01	Jan 28 03:44	00h02m	2042	Jan 21 20:41	Jan 28 12:48	Jan 6 08:52	Jan 14 11:25	00h02m
	Feb 3 22:11	Feb 11 12:25	Feb 19 11:57	Feb 26 11:30			Feb 20 07:39	Feb 26 23:29	Feb 5 01:56	Feb 13 07:17	
	Mar 5 11:25	Mar 13 09:35	Mar 21 00:45	Mar 27 18:39			Mar 21 17:24	Mar 28 11:59	Mar 6 20:09	Mar 14 23:21	
	Apr 4 01:31	Apr 12 04:59	Apr 19 10:49	Apr 26 02:06			Apr 20 02:20 T	Apr 27 02:19	Apr 5 14:16 n	Apr 13 11:09	
	May 3 16:32	May 11 21:07	Apr 27 02:06	May 25 10:41			May 19 10:56	May 26 18:18	May 5 06:49	May 12 19:17	
	Jun 2 08:11	Jun 10 09:30	May 18 19:02	Jun 23 21:08			Jun 17 19:49	Jun 25 11:29	Jun 3 20:49	Jun 11 01:00	
	Jul 1 23:47 A	Jul 9 18:38	Jun 17 02:19 p	Jul 23 10:09			Jul 17 05:52	Jul 25 05:01	Jul 3 08:10	Jul 10 05:38	
	Jul 31 14:32	Aug 8 01:30	Jul 16 09:28	Aug 22 02:02			Aug 15 18:01	Aug 23 21:55	Aug 1 17:34	Aug 8 10:36	
	Aug 30 03:55	Sep 6 07:19	Jul 31 10:09	Sep 20 20:26			Sep 14 08:49	Sep 22 13:20	Aug 31 02:03	Sep 6 17:10	
	Sep 28 16:00	Oct 5 13:14	Aug 14 17:21	Oct 20 16:09			Oct 14 02:02 A	Oct 22 02:52	Sep 29 10:35 n	Oct 6 02:36	
	Oct 28 03:19	Nov 3 20:24	Sep 13 02:53	Nov 19 11:32			Nov 12 20:28	Nov 20 14:30	Oct 28 19:48	Nov 4 15:52	
	Nov 26 14:23	Dec 3 05:54	Oct 12 15:02	Dec 19 05:02			Dec 12 14:29	Dec 20 00:26	Nov 27 06:05	Dec 4 09:19	
	Dec 26 01:23 T		Nov 3 20:24						Dec 26 17:41		
		Dec 11 00:46 p									
2058	Jan 24 12:14	Jan 31 10:29	Jan 9 20:39	Jan 17 19:43	00h02m	2043	Jan 11 06:52	Jan 18 09:04	Jan 25 06:55	Jan 3 06:08	00h02m
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	Mar 24 09:50	Apr 1 01:03	Mar 10 08:53	Mar 17 15:56			Mar 11 09:09	Mar 18 01:02	Mar 25 14:25 t	Mar 2 18:56	
	Apr 22 21:29	Apr 30 20:18	Apr 8 22:55	Apr 15 22:27			Apr 9 19:06 T	Apr 16 10:08	Apr 24 07:22	Apr 2 08:58	
	May 22 10:23 P	May 30 13:33	Apr 22 22:27	Apr 29 03:58			May 9 03:21	May 15 21:04	May 23 23:36	May 31 19:24	
	Jun 21 00:35 P	Jun 29 04:13	May 8 10:12	May 15 03:58			Jun 7 10:35	Jun 14 10:17	Jun 22 14:20	Jun 30 02:53	
	Jul 20 15:40	Jul 28 16:19	Jun 6 19:15 t	Jun 13 09:51			Jul 6 17:51	Jul 14 01:45	Jul 22 03:24	Jul 29 08:23	
	Aug 19 07:03	Aug 27 02:10	Jul 6 02:47	Jul 12 17:28			Aug 5 02:22	Aug 12 18:56	Aug 20 15:05	Aug 27 13:10	
	Sep 17 22:18	Sep 25 10:15	Jul 20 15:40	Aug 11 04:01			Sep 3 13:17	Sep 11 13:00	Sep 19 01:48 t	Sep 25 18:42	
	Oct 17 13:05	Oct 24 17:16	Aug 19 07:03	Aug 27 02:10			Oct 3 03:12 A	Oct 11 07:05	Oct 18 11:56	Oct 25 02:29	
	Nov 16 03:09 P	Nov 23 00:16	Sep 17 22:18	Sep 25 10:15			Nov 1 19:58	Nov 10 00:13	Nov 16 21:53	Nov 23 13:46	
	Dec 15 16:12	Dec 22 08:27	Oct 17 13:05	Oct 24 17:16			Dec 1 14:37	Dec 9 15:27	Dec 16 08:02	Dec 23 05:04	
			Nov 16 03:09 P	Nov 23 00:16			Dec 31 09:48				
		Dec 22 08:27	Dec 29 20:26								
2059	Jan 14 03:57	Jan 20 18:51	Jan 28 15:11	Jan 7 01:07	00h02m	2044	Jan 30 04:04	Jan 8 04:01	Jan 14 18:51	Jan 21 23:46	00h02m
	Feb 12 14:27	Feb 19 07:58	Feb 27 10:06	Feb 5 18:49			Feb 28 20:12 A	Feb 6 13:45	Feb 13 06:41	Feb 20 20:19	
	Mar 14 00:06	Mar 20 23:30	Mar 10 08:53	Mar 7 08:47			Mar 29 09:26	Mar 6 21:16	Mar 13 19:40 t	Mar 21 16:53	
	Apr 12 09:29	Apr 19 16:38	Mar 29 03:48	Apr 5 18:46			Apr 27 19:42	Apr 5 03:44	Apr 12 09:38	Apr 20 11:49	
	May 11 19:15 T	May 19 10:22	Apr 27 19:17	May 5 01:30			May 27 03:39	May 4 10:27	May 12 00:16	May 20 04:03	
	Jun 10 05:57	Jun 18 03:56	May 27 08:04 p	Jun 3 06:20			Jun 25 10:24	Jun 2 18:32	Jun 10 15:15	Jun 18 17:00	
	Jul 9 17:59	Jul 17 20:35	Jun 25 18:13	Jul 2 10:54			Jul 24 17:10	Jul 2 04:47	Jul 10 06:22	Jul 18 02:47	
	Aug 8 07:38	Aug 16 11:41	Jul 6 02:47	Jul 12 17:28			Aug 23 01:05 T	Aug 30 09:18	Aug 8 21:14	Aug 16 10:03	
	Sep 6 23:01	Sep 15 00:45	Jul 20 15:40	Aug 11 04:01			Sep 21 11:02	Sep 29 03:30	Sep 7 11:25 t	Sep 14 15:58	
	Oct 6 15:50	Oct 14 11:39	Aug 19 07:03	Aug 27 02:10			Oct 20 23:35	Oct 28 23:27	Oct 7 00:30	Oct 13 21:52	
	Nov 5 09:12 A	Nov 12 20:45	Sep 17 22:18	Sep 25 10:15			Nov 19 14:57	Nov 27 19:36	Nov 5 12:27	Nov 12 05:10	
	Dec 5 01:49	Dec 12 04:51	Oct 17 13:05	Oct 24 17:16			Dec 19 08:53	Dec 27 13:59	Dec 4 23:34	Dec 11 14:52	
			Nov 16 03:09 P	Nov 23 00:16							
		Dec 22 08:27	Dec 29 20:26								
2060	Jan 3 16:40	Jan 10 12:52	Jan 17 17:14	Jan 25 19:14	00h02m	2045	Jan 18 04:25	Jan 26 05:07	Jan 3 10:20	Jan 10 03:32	00h02m
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	Mar 2 16:12	Mar 9 07:53	Mar 17 03:41	Mar 25 07:08			Mar 18 17:15	Mar 26 00:54	Mar 3 07:51 n	Mar 10 12:50	
	Apr 1 01:38	Apr 7 19:42	Mar 25 07:08	Apr 2 18:46			Apr 17 07:27	Apr 24 07:11	Apr 1 18:41	Apr 9 07:53	
	Apr 30 10:11 T	May 7 09:20	Apr 15 21:22 n	Apr 23 18:54			May 16 18:27	May 23 12:38	May 1 05:51	May 9 02:52	
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	Aug 26 00:56	Sep 3 04:36	Jul 5 17:38	Jul 20 13:24			Sep 11 01:27	Sep 18 01:29	Aug 27 14:08 n	Sep 4 10:03	
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	Oct 24 09:26 A	Nov 1 10:57	Aug 4 11:16	Aug 18 18:23			Nov 8 21:48	Nov 16 15:24	Oct 25 21:32	Nov 2 02:09	
	Nov 23 04:16	Nov 30 23:11	Sep 3 04:36	Sep 17 01:01			Dec 8 11:41	Dec 16 13:07	Nov 24 11:44	Dec 1 09:47	
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Год	Новолуние	1 четверть	Полнолуние	Посл. четверть	Delta T	Год	Новолуние	1 четверть	Полнолуние	Посл. четверть	Delta T
2046	Jan 7 04:24	Jan 15 09:42	Jan 22 12:51 p	Jan 29 04:12	00h02m	2051	Jan 12 18:58	Jan 19 12:38	Jan 26 21:20	Jan 5 04:29	00h02m
	Feb 5 23:10 A	Feb 14 03:20	Feb 20 23:44	Feb 27 16:24			Feb 11 06:41	Feb 17 22:17	Feb 25 14:53	Mar 5 19:47	
	Mar 7 18:15	Mar 15 17:11	Mar 22 09:26	Mar 29 06:57			Mar 12 16:52	Mar 19 09:34	Mar 27 09:00	Apr 4 09:41	
	Apr 6 11:52	Apr 14 03:20	Apr 20 18:19	Apr 27 23:30			Apr 11 01:59 P	Apr 17 22:38	Apr 26 02:19 t	May 3 19:31	
	May 6 02:56	May 13 10:23	May 20 03:13	May 27 17:05			May 10 10:29	May 17 13:30	May 25 17:35	Jun 2 02:15	
	Jun 4 15:21	Jun 11 15:27	Jun 18 13:08	Jun 26 10:39			Jun 8 18:56	Jun 16 05:55	Jun 24 06:14	Jul 1 07:15	
	Jul 4 01:37	Jul 10 19:53	Jul 18 00:53 p	Jul 26 03:19			Jul 8 04:09	Jul 15 23:21	Jul 23 16:36	Jul 30 11:52	
	Aug 2 10:24 T	Aug 9 01:15	Aug 16 14:49	Aug 24 18:37			Aug 6 15:05	Aug 14 16:49	Aug 22 01:35	Aug 28 17:29	
	Aug 31 18:24	Sep 7 09:06	Sep 15 06:39	Sep 23 08:16			Sep 5 04:33	Sep 13 09:21	Sep 20 10:11	Sep 27 01:22	
	Sep 30 02:24	Oct 6 20:40	Oct 14 23:41	Oct 22 20:08			Oct 4 20:47 P	Oct 13 00:12	Oct 19 19:13 t	Oct 26 12:39	
	Oct 29 11:16	Nov 5 12:27	Nov 13 17:05	Nov 21 06:10			Nov 3 14:59	Nov 11 13:07	Nov 18 05:06	Nov 25 04:03	
	Nov 27 21:50	Dec 5 07:55	Dec 13 09:56	Dec 20 14:43			Dec 3 09:37	Dec 11 00:07	Dec 17 16:05	Dec 24 23:21	
	Dec 27 10:40										
2047		Jan 4 05:30	Jan 12 01:22 t	Jan 18 22:33	00h02m	2052	Jan 2 03:05	Jan 9 09:27	Jan 16 04:24	Jan 23 21:04	00h02m
	Jan 26 01:45 P	Feb 3 03:09	Feb 10 14:40	Feb 17 06:43			Jan 31 18:30	Feb 7 17:36	Feb 14 18:21	Feb 21 18:45	
	Feb 24 18:27	Mar 4 22:52	Mar 12 01:37	Mar 18 16:11			Mar 1 07:36	Mar 8 01:17	Mar 15 09:55	Mar 22 14:09	
	Mar 26 11:45	Apr 3 15:11	Apr 10 10:35	Apr 17 03:30			Mar 30 18:27 T	Apr 6 09:28	Apr 14 02:29 n	Apr 22 06:03	
	Apr 25 04:40	May 3 03:25	May 9 18:23	May 16 16:44			Apr 29 03:21	May 5 19:05	May 13 19:00	May 21 18:15	
	May 24 20:26	Jun 1 11:53	Jun 8 02:03	Jun 15 07:44			May 28 10:50	Jun 4 06:49	Jun 12 10:27	Jun 20 03:10	
	Jun 23 10:34 P	Jun 30 17:35	Jul 7 10:32 t	Jul 15 00:09			Jun 26 17:50	Jul 3 20:59	Jul 12 00:23	Jul 19 09:37	
	Jul 22 22:47 P	Jul 29 22:02	Aug 5 20:37	Aug 13 17:35			Jul 26 01:31	Aug 2 13:20	Aug 10 12:52	Aug 17 14:43	
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2048		Jan 22 21:56	Jan 1 06:57 t	Jan 8 18:48	00h02m	2053	Jan 19 23:12	Jan 27 13:41	Jan 4 17:46	Jan 11 18:09	00h02m
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	May 12 20:58	Jun 19 10:48	Jun 26 02:07 p	Jul 2 23:58			Jun 16 10:51	Jun 23 02:55	Jul 1 02:01	Jul 9 01:48	
	Jun 11 12:49 A	Jul 18 18:30	Jul 25 09:32	Aug 1 14:30			Jul 15 17:26	Jul 22 14:16	Jul 30 17:06	Aug 7 10:25	
	Jul 11 04:03	Aug 17 00:31	Aug 23 18:05	Aug 31 07:42			Aug 14 00:41	Aug 21 04:27	Aug 29 07:53 n	Sep 5 17:05	
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	Dec 5 15:29 T										
2049	Jan 4 02:24	Jan 10 21:55	Jan 19 02:29	Jan 26 21:33	00h02m	2054	Jan 8 22:34	Jan 17 02:15	Jan 23 20:08	Jan 1 01:11	00h02m
	Feb 2 13:16	Feb 9 15:38	Feb 17 20:48	Feb 25 07:36			Feb 7 18:14	Feb 15 15:36	Feb 22 06:47 t	Mar 1 07:36	
	Mar 4 00:13	Mar 11 11:25	Mar 19 12:25	Mar 26 15:10			Mar 9 12:46 P	Mar 17 01:21	Mar 23 17:21	Mar 31 01:51	
	Apr 2 11:41	Apr 10 07:27	Apr 18 01:06	Apr 24 21:12			Apr 8 04:32	Apr 15 08:24	Apr 22 04:02	Apr 29 20:46	
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	May 31 14:01 A	Jun 8 17:56	Jun 15 19:27 n	Jun 22 09:41			Jun 6 02:40	Jun 12 19:17	Jun 20 03:43	Jun 28 07:30	
	Jun 30 04:50	Jul 8 07:10	Jul 15 02:29	Jul 21 18:48			Jul 5 10:34	Jul 12 01:37	Jul 19 17:47	Jul 27 21:28	
	Jul 29 20:06	Aug 6 17:51	Aug 13 09:18	Aug 20 07:10			Aug 3 17:48 P	Aug 10 10:06	Aug 18 09:22 t	Aug 26 08:56	
	Aug 28 11:17	Sep 5 02:27	Sep 11 17:02	Sep 18 23:02			Sep 2 01:18 P	Sep 8 21:47	Sep 17 01:41	Sep 24 18:26	
	Sep 27 02:03	Oct 4 09:38	Oct 11 02:51	Oct 18 17:54			Oct 1 09:49	Oct 8 13:20	Oct 16 17:45	Oct 24 02:40	
	Oct 26 16:12	Nov 2 16:18	Nov 9 15:36 n	Nov 17 14:32			Oct 30 20:01	Nov 7 08:34	Nov 15 08:49	Nov 22 10:23	
	Nov 25 05:33 H	Dec 1 23:39	Dec 9 07:27	Dec 17 11:15			Nov 29 08:34	Dec 7 06:07	Dec 14 22:41	Dec 21 18:22	
	Dec 24 17:50	Dec 31 08:52					Dec 28 23:52				
2050		Jan 29 20:47	Jan 8 01:38	Jan 16 06:18	00h02m	2055	Jan 6 03:40	Jan 13 11:21	Jan 20 03:25	00h02m	
	Jan 23 04:56	Feb 28 11:28	Mar 8 15:23	Mar 16 10:08			Jan 27 17:39 P	Feb 4 23:00	Feb 11 22:48 t		Feb 18 14:14
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	Mar 23 00:42	Apr 28 22:08	May 6 22:27 t	May 14 00:03			Mar 28 07:01	Apr 5 02:44	Apr 11 17:59		Apr 18 18:36
	Apr 21 10:27	May 28 16:04	Jun 5 09:52	Jun 12 04:39			Apr 26 23:17	May 4 11:10	May 11 02:32		May 18 11:30
	May 20 20:52 H	Jun 27 09:17	Jul 4 18:51	Jul 11 09:46			May 26 12:57	Jun 2 17:01	Jun 9 11:36		Jun 17 05:03
	Jun 19 08:22	Jul 27 01:05	Aug 3 02:21	Aug 9 16:48			Jun 25 00:16	Jul 1 21:31	Jul 8 22:12		Jul 16 22:15
	Jul 18 21:17	Aug 25 14:55	Sep 1 09:31	Sep 8 02:51			Jul 24 09:48 T	Jul 31 02:11	Aug 7 10:57 p		Aug 15 14:27
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	Oct 15 20:47	Nov 21 20:24	Nov 28 15:08	Dec 6 06:28			Oct 20 10:50	Oct 27 07:53	Nov 4 12:12		Nov 12 05:38
	Nov 14 13:39 P	Dec 21 04:14	Dec 28 05:14				Nov 18 20:34	Nov 26 01:42	Dec 4 05:40		Dec 11 15:05
	Dec 14 05:16						Dec 18 08:15	Dec 25 22:29			

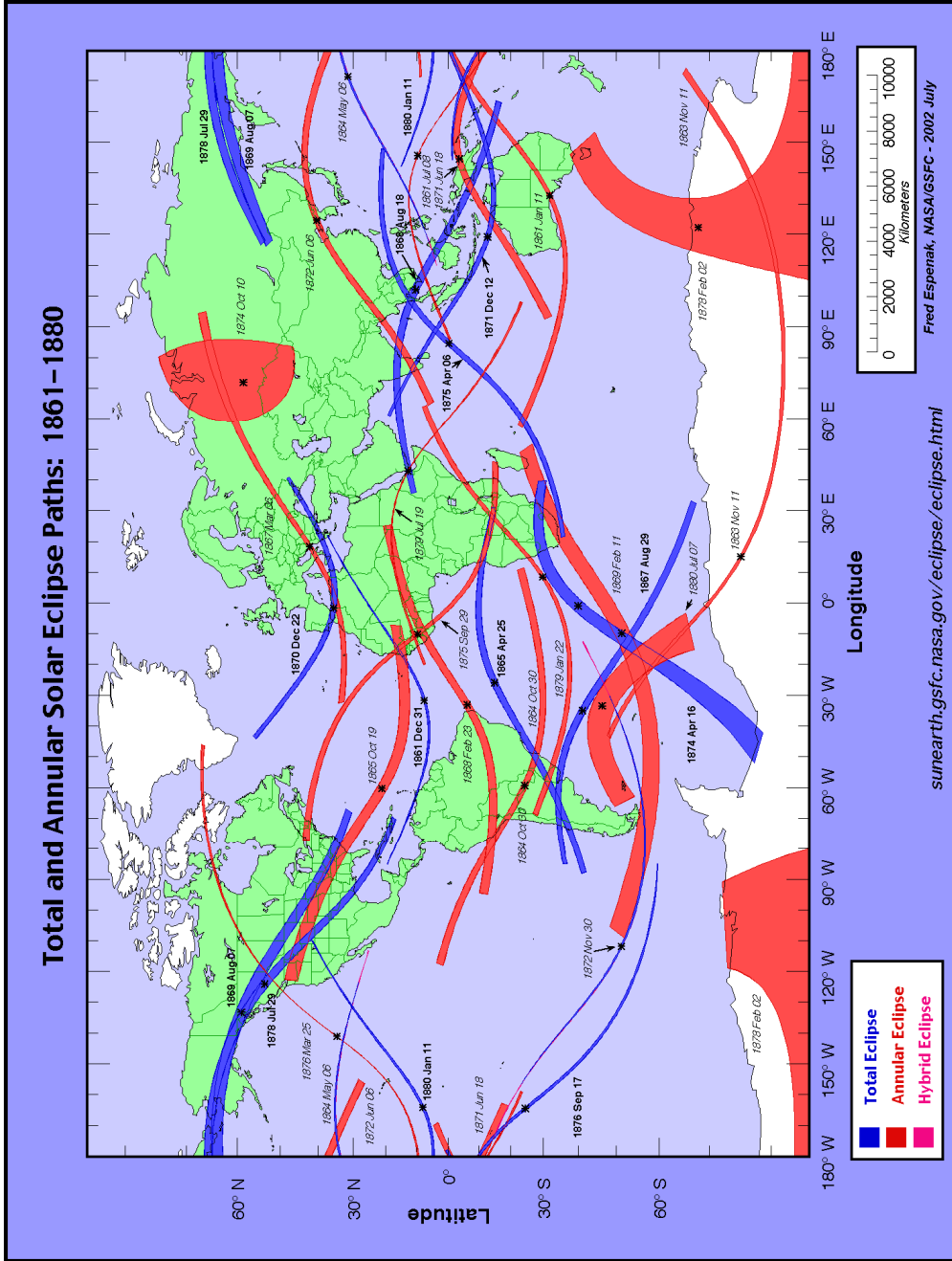
Год	Новолуние	1 четверть	Полнолуние	Посл. четверть	Delta T	Год	Новолуние	1 четверть	Полнолуние	Посл. четверть	Delta T
2076	Jan 6 10:15 T	Jan 13 03:03	Jan 21 04:40	Jan 29 04:18	00h02m	2061	Jan 21 15:16	Jan 28 18:10	Jan 6 02:25	Jan 13 13:58	00h02m
	Feb 4 21:02	Feb 11 18:35	Feb 19 23:49	Feb 27 15:55			Feb 20 05:32	Feb 27 01:52	Mar 6 05:55	Mar 14 08:31	
	Mar 5 07:25	Mar 12 12:42	Mar 20 16:38	Mar 28 00:26			Mar 21 17:23	Mar 28 09:26	Apr 4 21:47 t	Apr 13 02:10	
	Apr 3 17:48	Apr 11 08:00	Apr 19 06:30	Apr 26 06:41			Apr 20 03:05 T	Apr 26 17:55	May 4 14:13	May 12 16:10	
	May 3 04:52	May 11 02:51	May 18 17:39	May 25 11:51			May 19 11:03	May 26 04:12	Jun 3 06:09	Jun 11 02:42	
	Jun 1 17:15 P	Jun 9 19:58	Jun 17 02:39 t	Jun 23 17:22			Jun 17 18:03	Jun 24 16:54	Jul 2 20:53	Jul 10 10:24	
	Jul 1 07:05 P	Jul 9 10:50	Jul 16 10:12	Jul 23 00:41			Jul 17 01:11	Jul 24 08:05	Aug 1 10:11	Aug 8 16:10	
	Jul 30 22:06	Aug 7 23:22	Aug 14 17:12	Aug 21 11:01			Aug 15 09:40	Aug 23 01:19	Aug 30 22:18	Sep 6 21:13	
	Aug 29 13:44	Sep 6 09:47	Sep 13 00:39	Sep 20 01:06			Sep 13 20:38	Sep 21 19:45	Sep 29 09:33 t	Oct 6 02:57	
	Sep 28 05:28	Oct 5 18:27	Oct 12 09:38	Oct 19 18:51			Oct 13 10:42 A	Oct 21 14:24	Oct 28 20:12	Nov 4 10:53	
	Oct 27 20:51	Nov 4 01:58	Nov 10 21:08	Nov 18 15:15			Nov 12 03:40	Nov 20 08:12	Nov 27 06:33	Dec 3 22:12	
	Nov 26 11:29 P	Dec 3 09:16	Dec 10 11:36 t	Dec 18 12:40			Dec 11 22:33	Dec 19 23:58	Dec 26 16:53		
	Dec 26 00:54										
	2077		Jan 1 17:28	Jan 9 04:38			Jan 17 09:10	00h02m	2062	Jan 10 17:53	
Jan 24 12:46		Jan 31 03:36	Feb 7 23:09	Feb 16 02:59	Feb 9 12:11	Feb 16 22:38	Feb 23 15:08			Feb 12 07:43	
Feb 22 23:07		Mar 1 16:11	Mar 9 17:43	Mar 17 16:57	Mar 11 04:13 P	Mar 18 05:58	Mar 25 03:36 t			Mar 3 03:49	
Mar 24 08:25		Mar 31 07:02	Apr 8 11:06	Apr 16 02:51	Apr 9 17:17	Apr 16 12:04	Apr 23 16:57			Apr 1 18:34	
Apr 22 17:21		Apr 29 23:29	May 8 02:24	May 15 09:27	May 9 03:23	May 15 18:18	May 23 07:03			May 31 10:44	
May 22 02:38 T		May 29 16:44	Jun 6 15:07 p	Jun 13 14:09	Jun 7 11:12	Jun 14 01:53	Jun 21 21:43			Jun 29 23:54	
Jun 20 12:55		Jun 28 10:06	Jul 6 01:22	Jul 12 18:34	Jul 6 17:53	Jul 13 11:43	Jul 21 12:48			Jul 29 10:04	
Jul 20 00:42		Jul 28 02:56	Aug 4 09:47	Aug 11 00:17	Aug 5 00:41	Aug 12 00:21	Aug 20 03:56			Aug 27 17:49	
Aug 18 14:18		Aug 26 18:31	Sep 2 17:24	Sep 9 08:36	Sep 3 08:43 P	Sep 10 16:00	Sep 18 18:37 t			Sep 26 00:11	
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Nov 15 17:01 A		Nov 23 05:32	Nov 29 21:43 p	Dec 7 07:26	Nov 30 23:01	Dec 9 03:29	Dec 16 08:18			Dec 22 23:41	
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2078					Jan 6 05:05	00h02m	2063				Jan 7 22:16
	Jan 14 01:15	Jan 20 22:00	Jan 28 01:34	Feb 5 03:01	Jan 29 12:23			Feb 6 13:37	Feb 13 05:49	Feb 20 03:07	
	Feb 12 13:59	Feb 19 06:32	Feb 26 17:51	Mar 6 22:48	Feb 28 07:38 A			Mar 8 01:07	Mar 14 16:14 p	Mar 21 20:16	
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	Jun 10 01:50	Jun 17 07:09	Jun 25 10:22	Jul 2 16:26	Jun 26 10:26			Jul 3 02:01	Jul 10 13:48	Jul 18 18:05	
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	2079	Jan 3 06:51	Jan 10 18:30	Jan 17 11:07	Jan 24 21:47			00h02m	2064	Jan 18 12:37	Jan 26 17:42
Feb 1 23:36		Feb 9 03:12	Feb 15 23:46	Feb 23 19:24	Feb 17 07:03 A	Feb 25 11:23	Mar 3 08:19			Mar 10 00:34	
Mar 3 13:49		Mar 10 10:38	Mar 17 13:46	Mar 25 15:47	Mar 18 01:45	Mar 26 01:13	Apr 1 17:40			Apr 8 14:25	
Apr 2 01:31		Apr 8 17:45	Apr 16 05:03 p	Apr 24 09:16	Apr 16 19:02	Apr 24 11:18	May 1 02:08			May 8 06:17	
May 1 10:58 T		May 8 01:38	May 15 20:59	May 23 23:16	May 16 09:55	May 23 18:16	May 30 10:36			Jun 6 23:24	
May 30 18:42		Jun 6 11:19	Jun 14 12:39	Jun 22 09:57	Jun 14 22:21	Jun 21 23:14	Jun 28 20:09			Jul 6 16:49	
Jun 29 01:32		Jul 5 23:32	Jul 14 03:24	Jul 21 17:54	Jul 14 08:46	Jul 21 03:36	Jul 28 07:41 p			Aug 5 09:41	
Jul 28 08:34		Aug 4 14:28	Aug 12 17:01	Aug 20 00:00	Aug 12 17:49 T	Aug 19 08:55	Aug 26 21:35			Sep 4 01:30	
Aug 26 17:03		Sep 3 07:47	Sep 11 05:36	Sep 18 05:22	Sep 11 02:11	Sep 17 16:46	Sep 25 13:39			Oct 3 15:51	
Sep 25 04:07		Oct 3 02:36	Oct 10 17:24 t	Oct 17 11:22	Oct 10 10:34	Oct 17 04:22	Oct 25 07:06			Nov 2 04:25	
Oct 24 18:20 A		Nov 1 21:50	Nov 9 04:35	Nov 15 19:26	Nov 8 19:45	Nov 15 20:14	Nov 24 00:59			Dec 1 15:00	
Nov 23 11:30		Dec 1 16:14	Dec 8 15:17	Dec 15 06:44	Dec 8 06:29	Dec 15 15:45	Dec 23 18:14			Dec 30 23:50	
Dec 23 06:32		Dec 31 08:29									
2080				Jan 7 01:45	Jan 13 21:40	00h02m	2065			Jan 6 19:15	Jan 14 13:19
	Jan 22 01:56	Jan 29 21:37	Feb 5 12:22	Feb 12 15:38	Feb 5 10:02 P			Feb 13 10:51	Feb 20 23:11	Feb 27 15:30	
	Feb 20 20:12	Feb 28 07:25	Mar 5 23:30	Mar 13 11:13	Mar 7 02:15			Mar 15 06:25	Mar 22 09:56	Mar 29 00:25	
	Mar 21 12:07 P	Mar 28 14:32	Apr 4 11:25 t	Apr 12 06:50	Apr 5 19:01			Apr 13 22:38	Apr 20 18:36	Apr 27 11:03	
	Apr 20 01:00	Apr 26 20:17	May 4 00:11	May 12 01:12	May 5 11:31			May 13 10:53	May 20 02:06	May 26 23:39	
	May 19 10:57	May 26 02:04	Jun 2 13:46	Jun 10 17:21	Jun 4 03:05			Jun 11 19:26	Jun 18 09:29	Jun 25 14:09	
	Jun 17 18:41	Jun 24 09:13	Jul 2 04:10	Jul 10 06:46	Jul 3 17:16 P			Jul 11 01:17	Jul 17 17:46 t	Jul 25 06:22	
	Jul 17 01:22	Jul 23 18:41	Jul 31 19:14	Aug 8 17:22	Aug 2 05:46 P			Aug 9 05:53	Aug 16 03:46	Aug 23 23:56	
	Aug 15 08:14	Aug 22 07:08	Aug 30 10:42	Sep 7 01:38	Aug 31 16:40			Sep 7 10:50	Sep 14 16:05	Sep 22 18:10	
	Sep 13 16:26 P	Sep 20 22:49	Sep 29 01:55 t	Oct 6 08:31	Sep 30 02:25			Oct 6 17:38	Oct 14 07:05	Oct 22 11:54	
	Oct 13 02:45	Oct 20 17:32	Oct 28 16:13	Nov 4 15:11	Oct 29 11:49			Nov 5 03:27	Nov 13 00:38	Nov 21 03:52	
	Nov 11 15:38	Nov 19 14:21	Nov 27 05:15	Dec 3 22:53	Nov 27 21:40			Dec 4 16:55	Dec 12 19:53	Dec 20 17:12	
	Dec 11 07:10	Dec 19 11:24	Dec 26 17:04		Dec 27 08:28 P						

Год	Новолуние	1 четверть	Полнолуние	Посл. четверть	Delta T	Год	Новолуние	1 четверть	Полнолуние	Посл. четверть	Delta T
2066	Jan 25 20:14	Jan 3 09:57	Jan 11 15:08 t	Jan 19 03:48	00h02m	2071	Jan 1 12:16	Jan 9 11:09	Jan 16 02:36	Jan 23 02:17	00h02m
	Feb 24 08:51	Feb 2 05:45	Feb 10 08:29	Feb 17 12:14			Feb 14 13:30	Feb 21 21:30			
	Mar 25 22:14	Mar 4 02:49	Mar 11 22:48	Mar 18 19:26			Mar 2 00:32	Mar 9 06:54	Mar 16 01:18 n	Mar 23 17:33	
	Apr 24 12:30	Apr 2 23:10	Apr 10 10:03	Apr 17 02:23			Mar 31 15:04 A	Apr 7 13:18	Apr 14 13:56	Apr 22 12:53	
	May 24 03:39	May 2 16:58	May 9 18:59	May 16 10:01			Apr 30 02:31	May 6 19:05	May 14 03:25	May 22 06:19	
	Jun 22 19:16 A	Jun 1 07:14	Jun 8 02:31	Jun 14 19:11			May 29 11:17	Jun 5 01:39	Jun 12 17:37	Jun 20 21:05	
	Jul 22 10:34	Jun 30 18:00	Jul 7 09:35 p	Jul 14 06:39			Jun 27 18:21	Jul 4 10:03	Jul 12 08:26	Jul 20 08:53	
	Aug 21 00:50	Jul 30 02:02	Aug 5 17:00	Aug 12 21:00			Jul 27 00:57	Aug 2 21:05	Aug 10 23:40	Aug 18 17:58	
	Sep 19 13:48	Aug 28 08:25	Sep 4 01:38	Sep 11 14:17			Aug 25 08:17	Sep 1 11:10	Sep 9 14:52 n	Sep 17 01:08	
	Oct 19 01:43	Sep 26 14:20	Oct 3 12:25	Oct 11 09:43			Sep 23 17:22 T	Oct 1 04:21	Oct 9 05:24	Oct 16 07:31	
	Nov 17 13:06	Oct 25 20:53	Nov 2 02:13	Nov 10 05:46			Oct 23 04:50	Oct 31 00:07	Nov 7 18:48	Nov 14 14:24	
	Dec 17 00:18 T	Nov 24 05:10	Dec 1 19:17	Dec 10 00:39			Nov 21 19:00	Nov 29 21:07	Dec 7 06:58	Dec 13 22:58	
		Dec 23 16:07	Dec 31 14:41 n				Dec 21 11:47	Dec 29 17:17			
2067				Jan 8 17:01	00h02m	2072			Jan 5 18:13	Jan 12 09:55	00h02m
	Jan 15 11:17	Jan 22 06:17	Jan 30 10:30	Feb 7 06:14			Jan 20 06:35	Jan 28 10:36	Feb 4 04:56	Feb 10 23:27	
	Feb 13 21:58	Feb 20 23:31	Mar 1 04:42	Mar 8 16:16			Feb 19 02:04	Feb 27 00:02	Mar 4 15:18 t	Mar 11 21:30	
	Mar 15 08:29	Mar 22 18:44	Mar 30 20:09	Apr 6 23:38			Mar 19 20:22 P	Mar 27 09:43	Apr 3 01:25	Apr 10 08:54	
	Apr 13 19:24	Apr 21 14:16	Apr 29 08:40	May 6 05:19			Apr 18 11:57	Apr 25 16:35	May 2 11:34	May 10 03:18	
	May 13 07:21	May 21 08:29	May 28 18:42 n	Jun 4 10:39			May 18 00:19	May 24 21:54	May 31 22:18	Jun 8 21:21	
	Jun 11 20:41 A	Jun 20 00:29	Jun 27 02:53 n	Jul 3 17:03			Jun 16 09:58	Jun 23 02:57	Jun 30 10:22	Jul 8 13:54	
	Jul 11 11:17	Jul 19 14:00	Jul 26 09:59	Aug 2 01:52			Jul 15 17:56	Jul 22 09:02	Jul 30 00:17	Aug 7 04:16	
	Aug 10 02:37	Aug 18 01:10	Aug 24 16:57	Aug 31 14:05			Aug 14 01:21	Aug 20 17:21	Aug 28 16:00 t	Sep 5 16:20	
	Sep 8 18:09	Sep 16 10:20	Sep 23 00:55	Sep 30 06:01			Sep 12 09:07 T	Sep 19 04:59	Sep 27 08:44	Oct 5 02:29	
	Oct 8 09:28	Oct 15 18:03	Oct 22 10:56	Oct 30 01:08			Oct 11 17:56	Oct 18 20:37	Oct 27 01:22	Nov 3 11:17	
	Nov 7 00:14	Nov 14 01:07	Nov 20 23:50 n	Nov 28 22:07			Nov 10 04:22	Nov 17 16:04	Nov 25 17:00	Dec 2 19:22	
	Dec 6 14:05 A	Dec 13 08:39	Dec 20 15:42	Dec 28 19:11			Dec 9 16:59	Dec 17 13:51	Dec 25 07:16		
2068	Jan 5 02:38	Jan 11 17:47	Jan 19 09:45	Jan 27 14:28	00h02m	2073	Jan 8 08:11	Jan 16 11:33	Jan 23 20:06	Jan 1 03:28	00h02m
	Feb 3 13:45	Feb 10 05:21	Feb 18 04:38	Feb 26 06:26			Feb 7 01:41 P	Feb 15 06:57	Feb 22 07:27 t	Feb 28 22:40	
	Mar 3 23:38	Mar 10 19:27	Mar 18 22:56	Mar 26 18:21			Mar 8 20:16	Mar 16 22:44	Mar 23 17:18	Mar 30 11:04	
	Apr 2 08:52	Apr 9 11:33	Apr 17 15:30	Apr 25 02:30			Apr 7 14:14	Apr 15 10:36	Apr 22 01:55	Apr 29 01:38	
	May 1 18:07	May 9 04:48	May 17 05:35 p	May 24 08:01			May 7 06:16	May 14 19:00	May 21 10:03	May 28 17:58	
	May 31 04:04 H	Jun 7 22:21	Jun 15 17:00	Jun 22 12:26			Jun 5 19:52	Jun 13 00:48	Jun 19 18:45	Jun 27 11:12	
	Jun 29 15:12	Jul 7 15:32	Jul 15 02:08	Jul 21 17:22			Jul 5 07:17	Jul 12 05:16	Jul 19 05:05	Jul 27 04:29	
	Jul 29 03:55	Aug 6 07:39	Aug 13 09:51	Aug 20 00:17			Aug 3 17:04 T	Aug 10 09:55	Aug 17 17:46 t	Aug 25 21:06	
	Aug 27 18:29	Sep 4 22:04	Sep 11 17:19	Sep 18 10:17			Sep 2 01:53	Sep 8 16:20	Sep 16 08:53	Sep 24 12:32	
	Sep 26 10:49	Oct 4 10:23	Oct 11 01:40	Oct 18 00:01			Oct 1 10:22	Oct 8 01:57	Oct 16 01:55	Oct 24 02:23	
	Oct 26 04:17	Nov 2 20:38	Nov 9 11:41 t	Nov 16 17:33			Oct 30 19:13	Nov 6 15:42	Nov 14 19:55	Nov 22 14:16	
	Nov 24 21:43 P	Dec 2 05:21	Dec 8 23:42	Dec 16 14:11			Nov 29 05:12	Dec 6 09:33	Dec 14 13:49	Dec 22 00:06	
	Dec 24 13:45	Dec 31 13:23					Dec 28 16:56				
2069			Jan 7 13:44	Jan 15 12:17	00h02m	2074		Jan 5 06:19	Jan 13 06:32	Jan 20 08:21	00h02m
	Jan 23 03:37	Jan 29 21:40	Feb 6 05:30	Feb 14 09:28			Jan 27 06:38 A	Feb 4 04:03	Feb 11 21:06 n	Feb 18 15:56	
	Feb 21 15:17	Feb 28 06:55	Mar 7 22:35	Mar 16 03:31			Feb 25 22:01	Mar 6 00:44	Mar 13 09:02	Mar 19 23:59	
	Mar 23 01:14	Mar 29 17:35	Apr 6 16:13	Apr 14 17:22			Mar 27 14:20	Apr 4 18:41	Apr 11 18:31	Apr 18 09:23	
	Apr 21 09:59 P	Apr 28 05:57	May 6 09:12 t	May 14 03:10			Apr 26 06:48	May 4 08:54	May 11 02:18	May 17 20:40	
	May 20 18:06 P	May 27 20:09	Jun 5 00:20	Jun 12 09:57			May 25 22:45	Jun 2 19:15	Jun 9 09:28	Jun 16 09:57	
	Jun 19 02:14	Jun 26 12:10	Jul 4 13:06	Jul 11 14:59			Jun 24 13:39	Jul 2 02:23	Jul 8 17:05 n	Jul 16 01:12	
	Jul 18 11:13	Jul 26 05:31	Aug 2 23:45	Aug 9 19:41			Jul 24 03:07 A	Jul 31 07:31	Aug 7 02:06 n	Aug 14 18:10	
	Aug 16 22:03	Aug 24 23:17	Sep 1 09:07	Sep 8 01:23			Aug 22 15:00	Aug 29 12:12	Sep 5 13:14	Sep 13 12:22	
	Sep 15 11:36	Sep 23 16:24	Sep 30 18:09	Oct 7 09:20			Sep 21 01:29	Sep 27 18:00	Oct 5 02:56	Oct 13 06:48	
	Oct 15 04:04 P	Oct 23 07:58	Oct 30 03:36 t	Nov 5 20:40			Oct 20 11:12	Oct 27 02:15	Nov 3 19:22	Nov 12 00:08	
	Nov 13 22:38	Nov 21 21:32	Nov 28 13:46	Dec 5 12:04			Nov 18 20:56	Nov 25 13:53	Dec 3 14:04	Dec 11 15:08	
	Dec 13 17:38	Dec 21 09:00	Dec 28 00:50				Dec 18 07:20	Dec 25 05:07			
2070				Jan 4 07:16	00h02m	2075			Jan 2 09:40 n	Jan 10 03:15	00h02m
	Jan 12 11:23	Jan 19 18:32	Jan 26 13:00	Feb 3 04:46			Jan 16 18:37 T	Jan 23 23:33	Feb 1 04:13	Feb 8 12:42	
	Feb 11 02:53	Feb 18 02:34	Feb 25 02:32	Mar 5 02:12			Feb 15 06:41	Feb 22 20:00	Mar 2 20:07	Mar 9 20:18	
	Mar 12 15:53	Mar 19 09:54	Mar 26 17:31	Apr 3 21:23			Mar 16 19:26	Mar 24 16:46	Apr 1 08:46	Apr 8 03:04	
	Apr 11 02:31 T	Apr 17 17:32	Apr 25 09:31 n	May 3 13:12			Apr 15 08:56	Apr 23 11:54	Apr 30 18:38	May 7 10:00	
	May 10 11:09	May 17 02:31	May 25 01:38	Jun 2 01:27			May 14 23:23	May 23 03:57	May 30 02:39	Jun 5 18:01	
	Jun 8 18:25	Jun 15 13:41	Jun 23 16:57	Jul 1 10:34			Jun 13 14:40	Jun 21 16:29	Jun 28 09:47 p	Jul 5 04:00	
	Jul 8 01:15	Jul 15 03:27	Jul 23 07:02	Jul 30 17:18			Jul 13 06:12 A	Jul 21 01:56	Jul 27 16:54	Aug 3 16:44	
	Aug 6 08:52	Aug 13 19:41	Aug 21 19:54	Aug 28 22:42			Aug 11 21:11	Aug 19 09:13	Aug 26 00:51	Sep 2 08:35	
	Sep 4 18:29	Sep 12 13:45	Sep 20 07:48	Sep 27 04:03			Sep 10 21:03	Sep 17 15:26	Sep 24 10:31	Oct 2 03:14	
	Oct 4 07:02 A	Oct 12 08:40	Oct 19 18:59 p	Oct 26 10:48			Oct 9 23:44	Oct 16 21:42	Oct 23 22:49	Oct 31 23:26	
	Nov 2 22:43	Nov 11 03:21	Nov 18 05:41	Nov 24 20:20			Nov 8 11:36	Nov 15 05:06	Nov 22 14:21	Nov 30 19:22	
	Dec 2 16:54	Dec 10 20:33	Dec 17 16:06	Dec 24 09:32			Dec 7 23:04	Dec 14 14:38	Dec 22 08:48 p	Dec 30 13:21	

Год	Новолуние	1 четверть	Полнолуние	Посл. четверть	Delta T	Год	Новолуние	1 четверть	Полнолуние	Посл. четверть	Delta T
2096	Jan 25 09:46	Jan 2 23:03	Jan 9 19:21	Jan 17 12:52	00h02m	2081	Jan 10 01:03	Jan 18 06:30	Jan 25 04:02	Jan 2 08:33	00h02m
	Feb 23 22:29	Feb 1 07:04	Feb 8 09:51	Feb 16 10:40			Feb 10 20:18	Feb 16 22:00	Feb 23 14:28	Mar 2 11:07	
	Mar 24 08:56	Mar 1 15:17	Mar 9 01:38	Mar 17 06:19			Mar 8 15:17 A	Mar 18 09:28	Mar 25 00:30 p	Apr 1 03:36	
	Apr 22 17:44	Apr 29 10:51	Apr 7 18:19	Apr 15 22:12			Apr 9 08:16	Apr 16 17:32	Apr 23 10:20	Apr 30 21:25	
	May 22 01:36 T	May 28 23:08	May 7 11:08 n	May 15 09:55			May 8 22:09	May 15 23:22	May 22 20:27	May 30 15:36	
	Jun 20 09:13	Jun 27 13:32	Jun 6 03:00	Jun 13 18:10			Jun 7 09:02	Jun 14 04:17	Jun 21 07:33	Jun 29 09:00	
	Jul 19 17:22	Jul 27 06:00	Jul 5 17:03	Jul 13 00:06			Jul 6 17:45	Jul 13 09:35	Jul 20 20:23	Jul 29 00:40	
	Aug 18 03:01	Aug 25 23:57	Aug 4 05:06	Aug 11 05:02			Aug 5 01:25	Aug 11 16:33	Aug 19 11:16	Aug 27 14:09	
	Sep 16 15:11	Sep 24 18:15	Sep 2 15:37	Sep 9 10:18			Sep 3 09:02 T	Sep 10 02:22	Sep 18 03:46 n	Sep 26 01:31	
	Oct 16 06:29	Oct 24 11:42	Oct 2 01:26	Oct 8 17:10			Oct 2 17:24	Oct 9 15:59	Oct 17 20:51	Oct 25 11:14	
	Nov 15 00:37 A	Nov 23 03:19	Oct 31 11:17 n	Nov 7 02:49			Nov 1 03:05	Nov 8 09:41	Nov 16 13:20	Nov 23 19:49	
	Dec 14 20:07	Dec 22 16:37	Nov 29 21:35 n	Dec 6 16:09			Nov 30 14:37	Dec 8 06:39	Dec 16 04:32	Dec 23 03:56	
			Dec 29 08:24				Dec 30 04:29				
2097	Jan 13 15:01	Jan 21 03:28	Jan 27 19:48	Jan 5 09:21	00h02m	2082	Jan 28 20:47	Jan 7 04:46	Jan 14 18:12	Jan 21 12:16	00h02m
	Feb 12 07:50	Feb 19 12:08	Feb 26 08:03	Feb 4 05:33			Feb 27 14:49 A	Mar 7 19:16	Mar 14 16:46	Mar 21 08:38	
	Mar 13 21:58	Mar 20 19:17	Mar 27 21:29	Mar 6 02:48			Mar 29 09:06	Apr 6 09:03	Apr 13 01:46	Apr 19 21:47	
	Apr 12 09:27	Apr 19 01:55	Apr 26 12:10 p	Apr 4 22:51			Apr 28 02:03	May 5 19:05	May 12 09:50	May 19 12:59	
	May 11 18:41 T	May 18 09:15	May 26 03:37	May 4 16:10			May 27 16:48	Jun 3 06:12	Jun 10 17:56	Jun 18 05:40	
	Jun 10 02:15	Jun 16 18:23	Jun 24 19:05	Jun 3 06:12			Jun 26 05:17	Jul 2 17:06	Jul 10 03:11	Jul 17 22:59	
	Jul 9 08:59	Jul 16 06:11	Jul 24 09:55	Jul 2 17:06			Jul 25 15:55	Aug 1 01:25	Aug 8 14:33 n	Aug 16 16:08	
	Aug 7 16:01	Aug 14 20:57	Aug 22 23:54	Aug 1 01:25			Aug 24 01:19 T	Aug 30 07:55	Sep 7 04:30	Sep 15 08:30	
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2098	Jan 2 14:33	Jan 10 16:59	Jan 17 10:37	Jan 24 05:59	00h02m	2083	Jan 18 03:51	Jan 25 21:04	Jan 4 02:33	Jan 11 08:56	00h02m
	Feb 1 09:55	Feb 9 06:17	Feb 15 21:01	Feb 22 23:27			Feb 16 18:16 P	Feb 24 18:25	Mar 4 07:35	Mar 11 00:10	
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	Jun 29 02:07	Jul 5 16:33	Jul 13 10:36	Jul 21 13:35			Jul 14 23:55 P	Jul 22 08:57	Jul 29 01:01 t	Aug 5 12:39	
	Jul 28 08:52	Aug 4 01:44	Aug 12 01:45	Aug 20 00:42			Aug 13 12:46 P	Aug 20 13:47	Aug 27 11:00	Sep 4 06:25	
	Aug 26 15:54	Sep 2 14:04	Sep 10 17:34	Sep 18 09:34			Sep 12 00:08	Sep 18 18:57	Sep 25 23:26	Oct 4 01:08	
	Sep 25 00:18 P	Oct 2 05:50	Oct 10 09:21 t	Oct 17 16:58			Oct 11 10:24	Oct 18 01:55	Oct 25 14:36	Nov 2 19:31	
	Oct 24 10:50 P	Nov 1 00:48	Nov 9 00:16	Nov 16 00:02			Nov 9 20:16	Nov 16 11:49	Nov 24 08:24	Dec 2 12:07	
	Nov 22 23:52	Nov 30 21:57	Dec 8 13:47	Dec 15 07:54			Dec 9 06:25	Dec 16 01:14	Dec 24 03:52		
	Dec 22 15:25	Dec 30 19:21									
2099	Jan 21 09:08	Jan 29 14:40	Jan 7 01:51	Jan 13 17:27	00h02m	2084	Jan 7 17:18 P	Jan 14 18:03	Jan 22 23:16 t	Jan 1 01:55	00h02m
	Feb 20 04:07	Feb 28 06:14	Feb 5 12:50	Feb 12 05:09			Feb 6 04:53	Feb 13 13:29	Feb 21 16:37	Feb 28 21:05	
	Mar 21 22:48 A	Mar 29 17:40	Mar 6 23:01	Mar 13 19:01			Mar 6 17:04	Mar 14 10:07	Mar 22 06:49	Mar 29 03:59	
	Apr 20 15:31	Apr 28 01:37	Apr 5 08:38 p	Apr 12 10:49			Apr 5 05:53	Apr 13 06:06	Apr 20 17:53	Apr 27 10:30	
	May 20 05:18	May 27 07:17	May 4 18:00	May 12 04:01			May 4 19:33	May 12 23:44	May 20 02:37	May 26 17:36	
	Jun 18 16:11	Jun 25 12:02	Jun 3 03:38	Jun 10 21:50			Jun 3 10:14	Jun 11 14:04	Jun 18 10:01	Jun 25 02:16	
	Jul 18 01:02	Jul 24 17:11	Jul 2 14:22	Jul 10 15:15			Jul 3 01:39 A	Jul 11 01:07	Jul 17 17:02 p	Jul 24 13:23	
	Aug 16 08:56	Aug 23 00:02	Aug 1 03:01	Aug 9 07:15			Aug 1 17:05	Aug 9 09:33	Aug 16 00:30	Aug 23 03:35	
	Sep 14 16:52 T	Sep 21 09:49	Aug 30 17:57	Aug 7 21:19			Aug 31 07:46	Sep 7 16:24	Sep 14 09:16	Sep 21 21:00	
	Oct 14 01:33	Oct 20 23:28	Sep 29 10:47 n	Oct 7 09:23			Sep 29 21:17	Oct 6 22:43	Oct 13 20:13	Oct 21 16:50	
	Nov 12 11:31	Nov 19 17:18	Oct 29 04:22	Nov 5 19:43			Oct 29 09:48	Nov 5 05:34	Nov 12 10:11	Nov 20 13:23	
	Dec 11 23:10	Dec 19 14:23	Nov 27 21:23	Dec 5 04:47			Nov 27 21:40	Dec 4 13:58	Dec 12 03:19	Dec 20 08:45	
			Dec 27 13:00				Dec 27 09:08 T				
2100	Jan 12 12:57	Jan 18 12:35	Jan 26 02:51	Jan 3 13:04	00h02m	2085	Jan 25 20:07	Jan 3 00:48	Jan 10 22:43 n	Jan 19 01:27	00h02m
	Feb 9 04:56	Feb 17 09:23	Feb 24 14:53 n	Feb 1 21:17			Feb 24 06:33	Mar 3 07:17	Mar 11 12:27	Mar 19 00:45	
	Mar 10 22:30 A	Mar 19 03:00	Mar 26 01:06	Mar 3 06:12			Mar 25 16:38	Apr 2 01:52	Apr 10 03:42	Apr 17 07:55	
	Apr 9 16:18	Apr 17 16:43	Apr 24 09:45	Apr 1 16:37			Apr 24 03:00	May 1 20:53	May 9 16:05	May 16 13:19	
	May 9 08:55	May 17 02:43	May 23 17:26	May 1 05:02			May 23 14:24	May 31 14:52	Jun 8 02:03 n	Jun 14 18:20	
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	Jul 7 12:08	Jul 14 14:44	Jul 21 10:14	Jun 29 11:53			Jul 21 17:44	Jul 29 20:48	Aug 5 17:30	Aug 12 09:01	
	Aug 5 23:03	Aug 12 19:11	Aug 19 21:31 n	Jul 29 05:10			Aug 20 09:11	Aug 28 08:31	Sep 4 00:42	Sep 12 21:08	
	Sep 4 08:51 T	Sep 11 00:37	Sep 18 11:33	Aug 27 22:38			Sep 19 01:08	Sep 26 18:19	Oct 3 08:54	Oct 10 13:10	
	Oct 3 18:04	Oct 10 08:34	Oct 18 04:07	Aug 26 11:35			Oct 18 17:00	Oct 26 02:35	Nov 1 19:09	Nov 9 08:32	
	Nov 2 03:15	Nov 8 20:16	Nov 16 22:20	Oct 26 07:20			Nov 17 08:21	Nov 24 10:03	Dec 1 08:11 n	Dec 9 05:48	
	Dec 1 13:02	Dec 8 12:10	Nov 24 21:14	Nov 24 21:14			Dec 16 22:39 A	Dec 23 17:43	Dec 31 00:00		
	Dec 30 23:58		Dec 16 17:01	Dec 24 08:47							

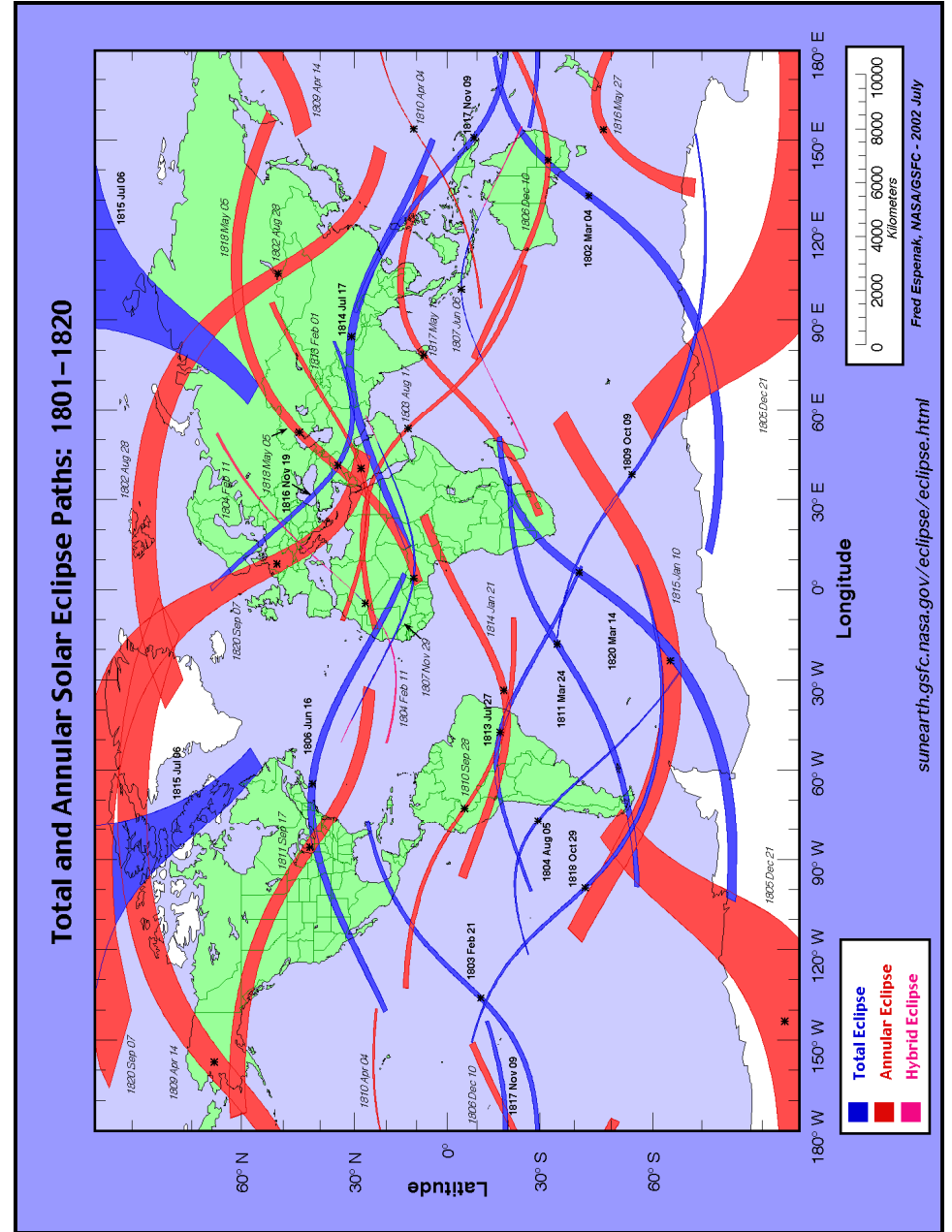
Год	Новолуние	1 четверть	Полнолуние	Посл. четверть	Delta T	Год	Новолуние	1 четверть	Полнолуние	Посл. четверть	Delta T
2086	Jan 15 11:25	Jan 22 02:42	Jan 29 17:49	Jan 8 03:06	00h02m	2091	Jan 19 16:32	Jan 27 19:24	Jan 5 15:51	Jan 12 12:35	00h02m
	Feb 13 22:28	Feb 20 13:49	Feb 28 12:22	Feb 6 22:31			Feb 18 09:39 P	Feb 26 14:48	Mar 5 16:00 t	Mar 12 07:03	
	Mar 15 08:05	Mar 22 03:17	Mar 30 06:18	Mar 8 14:31			Mar 20 03:47	Mar 28 06:32	Apr 4 01:32	Apr 10 18:46	
	Apr 13 16:54	Apr 20 18:41	Apr 28 22:36	Apr 7 02:23			Apr 18 21:21	Apr 26 18:21	May 3 09:47	May 10 08:37	
	May 13 01:42	May 20 11:20	May 28 12:36 p	Apr 22 00:05			May 18 13:08	May 26 02:43	Jun 1 17:32	Jun 9 00:23	
	Jun 11 11:13 T	Jun 19 04:34	Jun 27 00:05	May 6 10:27			Jun 17 02:42	Jun 24 08:32	Jul 1 01:55	Jul 8 17:22	
	Jul 10 22:03	Jul 18 21:46	Jul 26 09:25	Jun 4 15:52			Jul 16 14:16	Jul 23 13:03	Jul 30 12:02	Aug 7 10:46	
	Aug 9 10:39	Aug 17 14:15	Aug 24 17:26	Jun 27 00:05			Aug 15 00:23 T	Aug 21 17:44	Aug 29 00:40 t	Sep 6 03:48	
	Sep 8 01:18	Sep 16 05:18	Sep 23 01:16	Jul 26 09:25			Sep 13 09:35	Sep 20 00:11	Sep 27 15:57	Oct 5 19:54	
	Oct 7 17:57	Oct 15 18:19	Oct 22 09:57	Aug 24 17:26			Oct 12 18:30	Oct 19 09:51	Oct 27 09:19	Nov 4 10:28	
	Nov 6 11:54	Nov 14 05:12	Nov 20 20:13 p	Sep 29 17:53			Nov 11 03:43	Nov 17 23:40	Nov 26 03:44	Dec 3 22:56	
	Dec 6 05:49 P	Dec 13 14:21	Dec 20 08:20	Oct 29 07:41			Dec 10 13:55	Dec 17 17:30	Dec 25 22:00		
				Nov 28 01:18							
			Dec 27 21:59								
2087	Jan 4 22:12	Jan 11 22:31	Jan 18 22:12	Jan 26 20:02	00h02m	2092	Jan 9 01:38	Jan 16 14:09	Jan 24 14:56	Jan 31 17:26	00h02m
	Feb 3 12:11	Feb 10 06:39	Feb 17 13:35	Feb 25 17:07			Feb 7 15:04 A	Feb 15 11:41	Feb 23 05:30 n	Mar 1 00:47	
	Mar 4 23:46	Mar 11 15:27	Mar 19 06:10	Mar 27 11:05			Mar 8 05:57	Mar 16 08:08	Mar 23 17:16	Mar 30 08:22	
	Apr 3 09:27	Apr 10 01:30	Apr 17 23:18	Apr 26 00:52			Apr 6 21:42	Apr 15 01:55	Apr 22 02:30	Apr 28 17:09	
	May 2 17:52 P	May 9 13:10	May 17 15:56 t	May 25 10:42			May 6 13:40	May 14 16:07	May 21 10:01	May 28 03:47	
	Jun 1 01:39 P	Jun 8 02:46	Jun 16 06:59	Jun 23 17:34			Jun 5 05:18	Jun 13 02:34	Jun 19 16:57	Jun 26 16:33	
	Jun 30 09:32	Jul 7 18:25	Jul 15 19:55	Jul 22 22:44			Jul 4 20:12	Jul 12 09:55	Jul 19 00:25 n	Jul 26 07:32	
	Jul 29 18:21	Aug 6 11:44	Aug 14 06:55	Aug 21 03:35			Aug 3 09:55 A	Aug 10 15:19	Aug 17 09:23 n	Aug 25 00:33	
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	Dec 25 01:43						Dec 28 16:11				
2088	Jan 23 19:39	Jan 1 17:55	Jan 8 09:38	Jan 15 15:14	00h02m	2093	Jan 27 03:23 T	Feb 3 07:28	Feb 11 12:20	Feb 18 21:34	00h02m
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	Mar 23 00:01	Feb 29 11:27	Mar 7 10:37	Mar 15 09:30			Mar 27 03:19	Apr 3 23:47	Apr 11 16:37	Apr 18 11:21	
	Apr 21 10:26 T	Mar 29 18:24	Apr 6 01:00	Apr 14 04:27			Apr 25 16:13	May 3 18:38	May 11 02:18	May 17 17:48	
	May 20 18:50	Apr 28 01:30	May 5 16:26 p	May 13 20:10			May 25 06:08	Jun 2 10:40	Jun 9 10:10	Jun 16 01:20	
	Jun 19 01:55	May 27 09:52	Jun 4 08:09	Jun 12 08:31			Jun 23 21:06	Jul 1 23:25	Jul 8 17:15 p	Jul 15 10:55	
	Jul 18 08:39	Jun 25 20:30	Jul 3 23:23	Jul 11 17:53			Jul 23 12:37 A	Jul 31 09:14	Aug 7 00:24	Aug 13 23:24	
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	Oct 14 14:40 A	Oct 22 15:52	Oct 30 03:11 p	Nov 5 19:23			Nov 18 19:59	Nov 25 13:55	Dec 2 22:25	Dec 11 03:16	
	Nov 13 06:33	Nov 21 11:09	Nov 28 14:19	Dec 5 04:59			Dec 18 07:49	Dec 24 23:26			
	Dec 13 00:53	Dec 21 04:53	Dec 28 00:58								
2089	Jan 11 20:18	Jan 19 19:48	Jan 26 11:26	Feb 2 10:24	00h02m	2094	Jan 16 19:06 T	Jan 23 11:35	Jan 1 16:52 p	Jan 9 21:37	00h02m
	Feb 10 15:17	Feb 18 07:16	Feb 24 22:06	Mar 4 05:06			Feb 15 05:44	Feb 22 02:37	Jan 31 12:38	Feb 8 12:46	
	Mar 12 08:25	Mar 19 15:31	Mar 26 09:21 n	Apr 3 00:37			Mar 16 15:45	Mar 23 20:06	Mar 2 07:36	Mar 10 00:23	
	Apr 10 22:46 A	Apr 17 21:38	Apr 24 21:23	May 2 19:32			Apr 15 01:38	Apr 22 14:49	Apr 1 00:12	Apr 8 08:47	
	May 10 10:04	May 17 03:02	May 24 10:19	Jun 1 12:50			May 14 12:10	May 22 09:17	Apr 30 13:55	May 7 14:49	
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	Dec 31 19:58						Dec 7 19:51 P	Dec 14 18:18	Dec 21 19:57 t	Dec 29 20:28	
2090	Jan 30 14:35	Jan 9 01:22	Jan 16 03:04	Jan 22 18:39	00h02m	2095	Jan 6 09:34	Jan 13 02:29	Jan 20 12:49	Jan 28 17:08	00h02m
	Mar 1 09:47	Feb 7 18:53	Feb 14 13:40	Feb 21 07:43			Feb 4 21:30	Feb 11 12:18	Feb 19 07:00	Feb 27 11:00	
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	Jun 27 17:12	Jun 5 10:38	Jun 12 05:19	Jun 20 03:34			Jun 2 09:59 T	Jun 9 23:03	Jun 17 22:07 p	Jun 24 21:56	
	Jul 27 01:20	Jul 4 10:38	Jul 11 17:03	Jul 19 20:17			Jul 1 19:55	Jul 9 16:17	Jul 17 08:32	Jul 24 02:18	
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	Aug 25 09:00	Sep 1 00:45	Sep 8 22:46 t	Sep 16 23:49			Aug 29 21:06	Sep 7 01:27	Sep 14 01:12	Sep 20 16:17	
	Sep 23 17:04 T	Sep 30 12:22	Oct 8 15:55	Oct 16 10:38			Sep 28 12:55	Oct 6 15:53	Oct 13 09:31	Oct 20 04:09	
	Oct 23 02:10	Oct 30 04:05	Nov 7 09:06	Nov 14 19:59			Oct 28 06:33	Nov 5 04:10	Nov 11 19:06	Nov 18 19:56	
	Nov 21 12:49	Nov 28 23:41	Dec 7 01:15	Dec 14 04:26			Nov 27 00:55 A	Dec 4 14:22	Dec 11 06:22 p	Dec 18 15:15	
	Dec 21 01:30	Dec 28 21:37					Dec 26 18:25				

Центральные полосы солнечных затмений на 1861 – 1880 годы



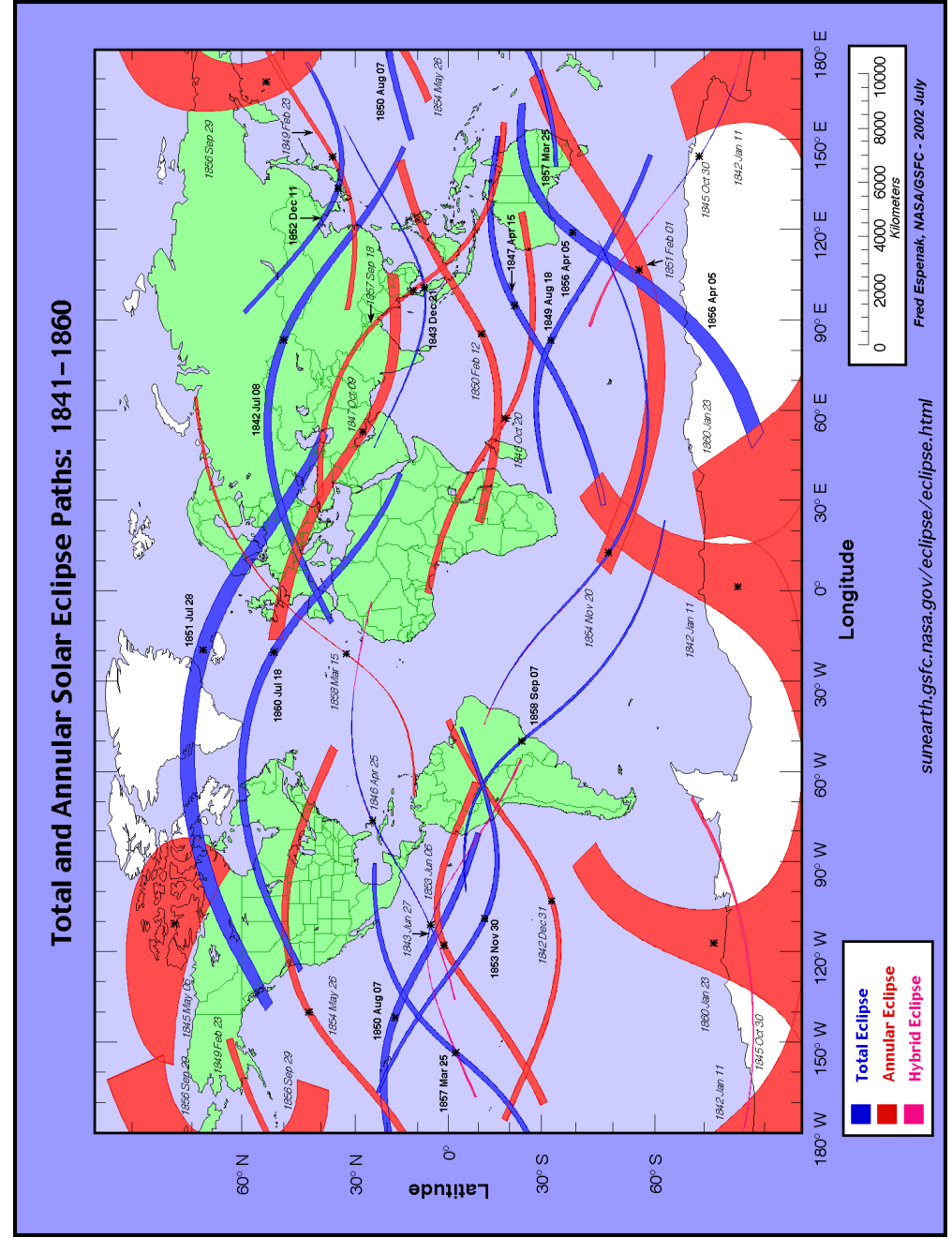
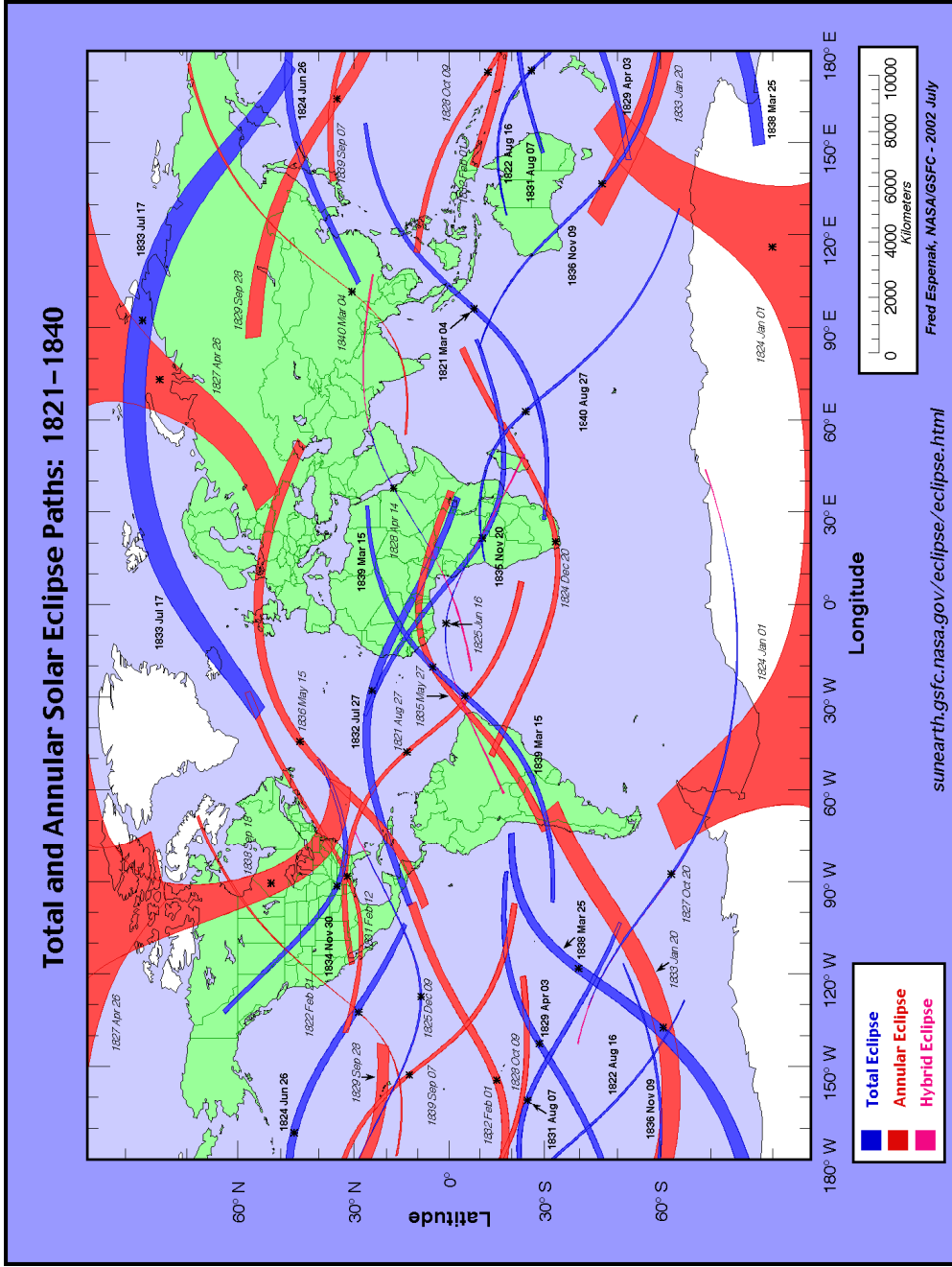
ЗАТМЕНИЯ

Центральные полосы солнечных затмений на 1801 – 1820 годы



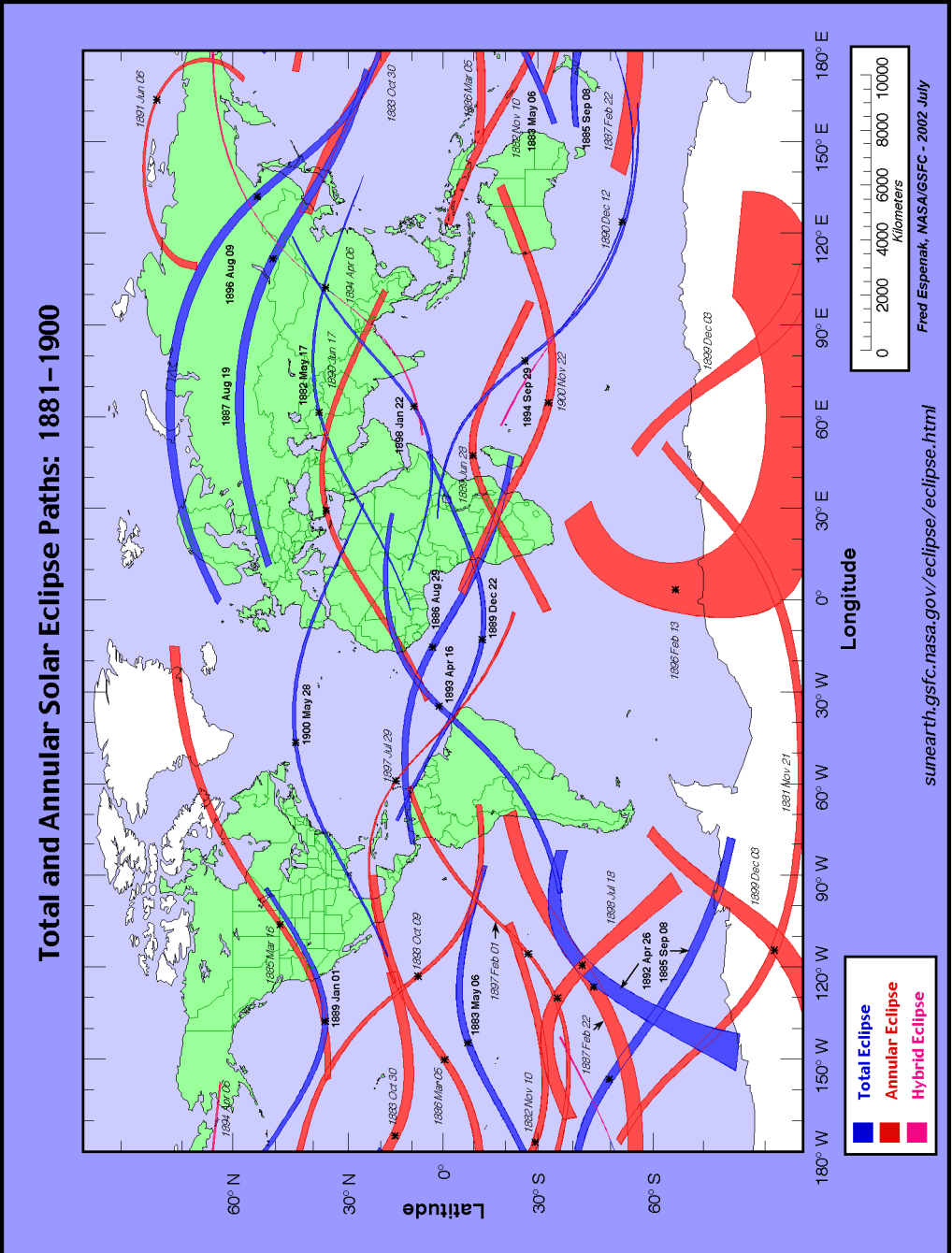
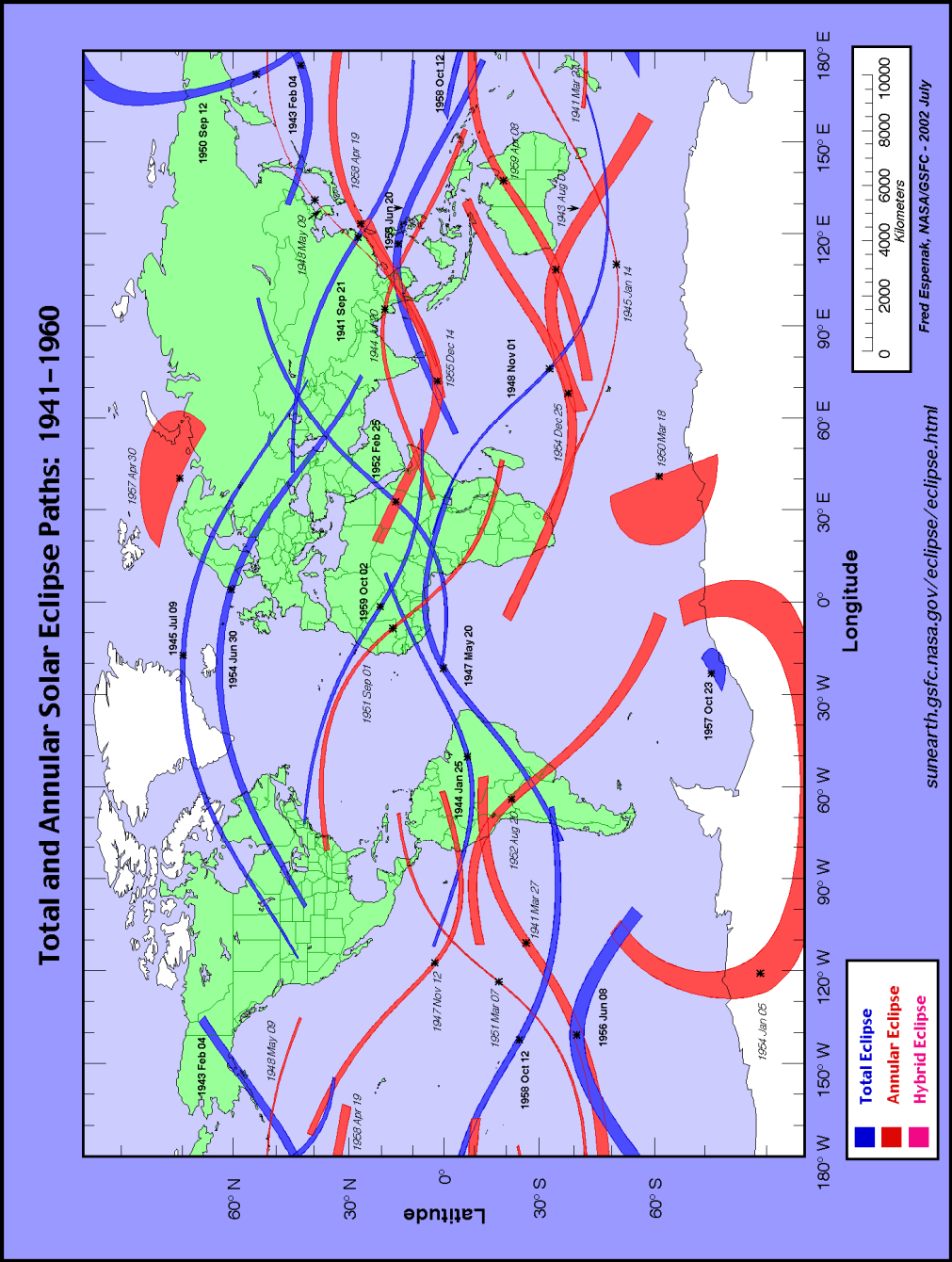
Центральные полосы солнечных затмений на 1821 – 1840 годы

Центральные полосы солнечных затмений на 1841 – 1860 годы



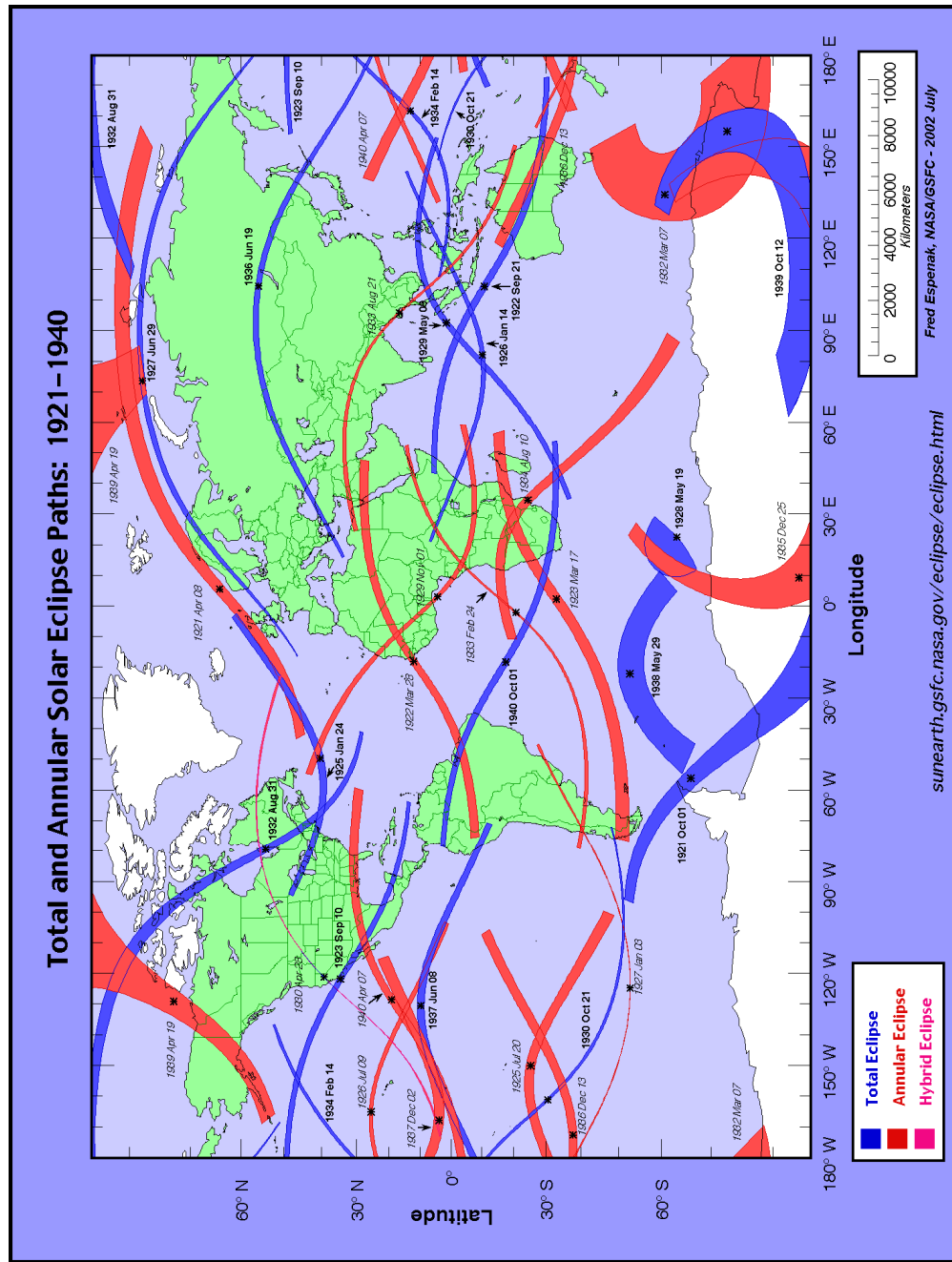
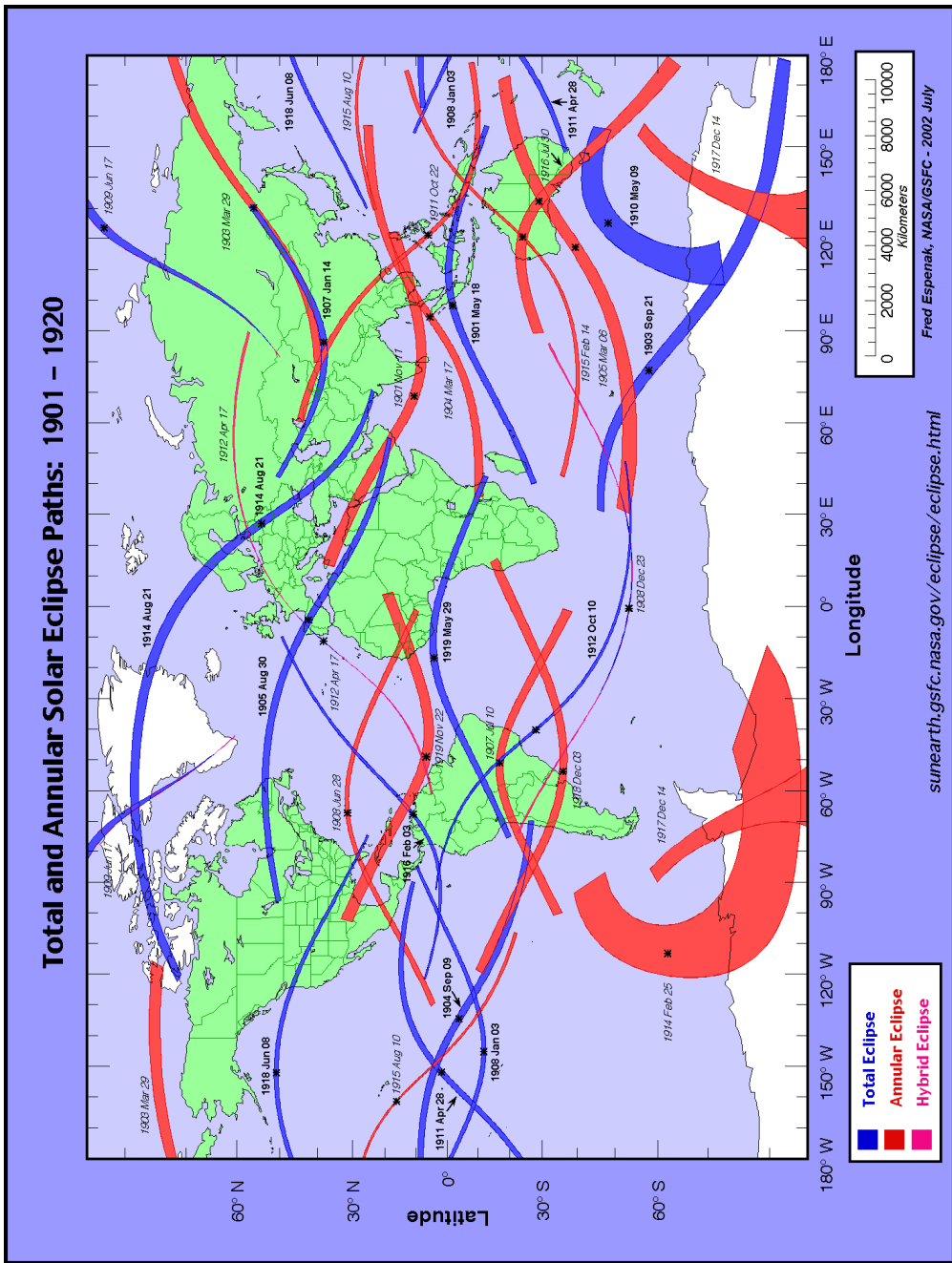
Центральные полосы солнечных затмений на 1941 – 1960 годы

Центральные полосы солнечных затмений на 1881 – 1900 годы



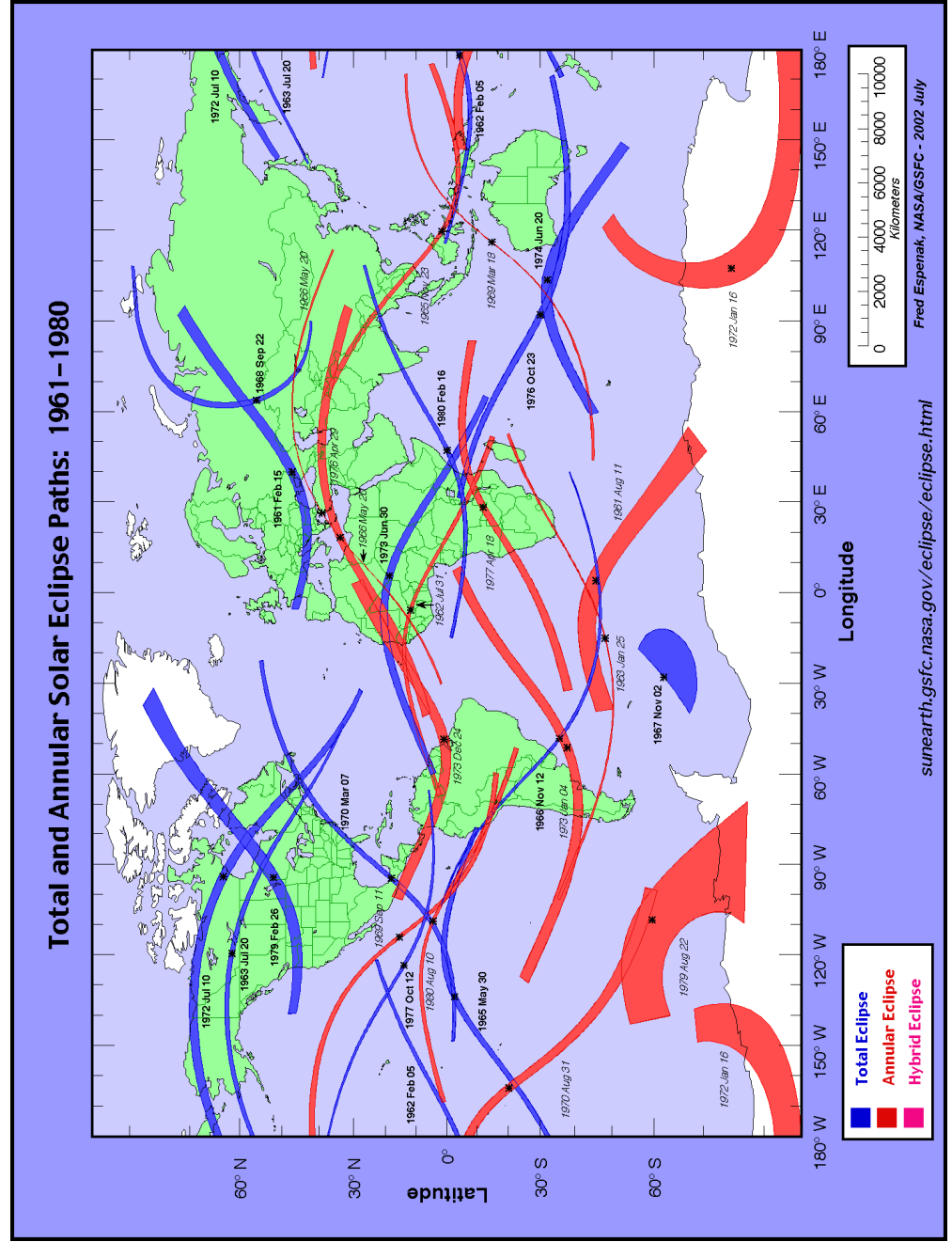
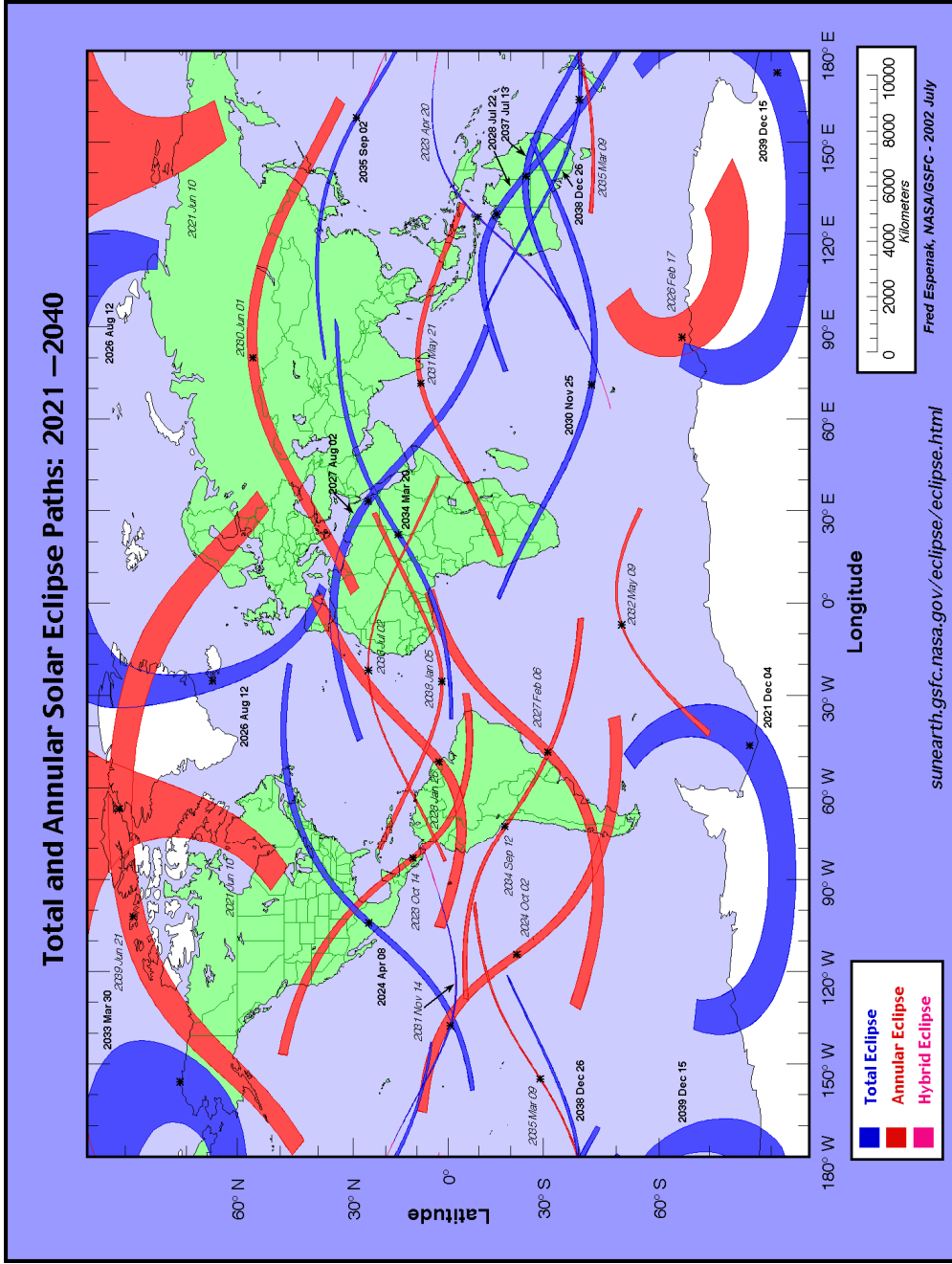
Центральные полосы солнечных затмений на 1901 – 1920 годы

Центральные полосы солнечных затмений на 1921 – 1940 годы



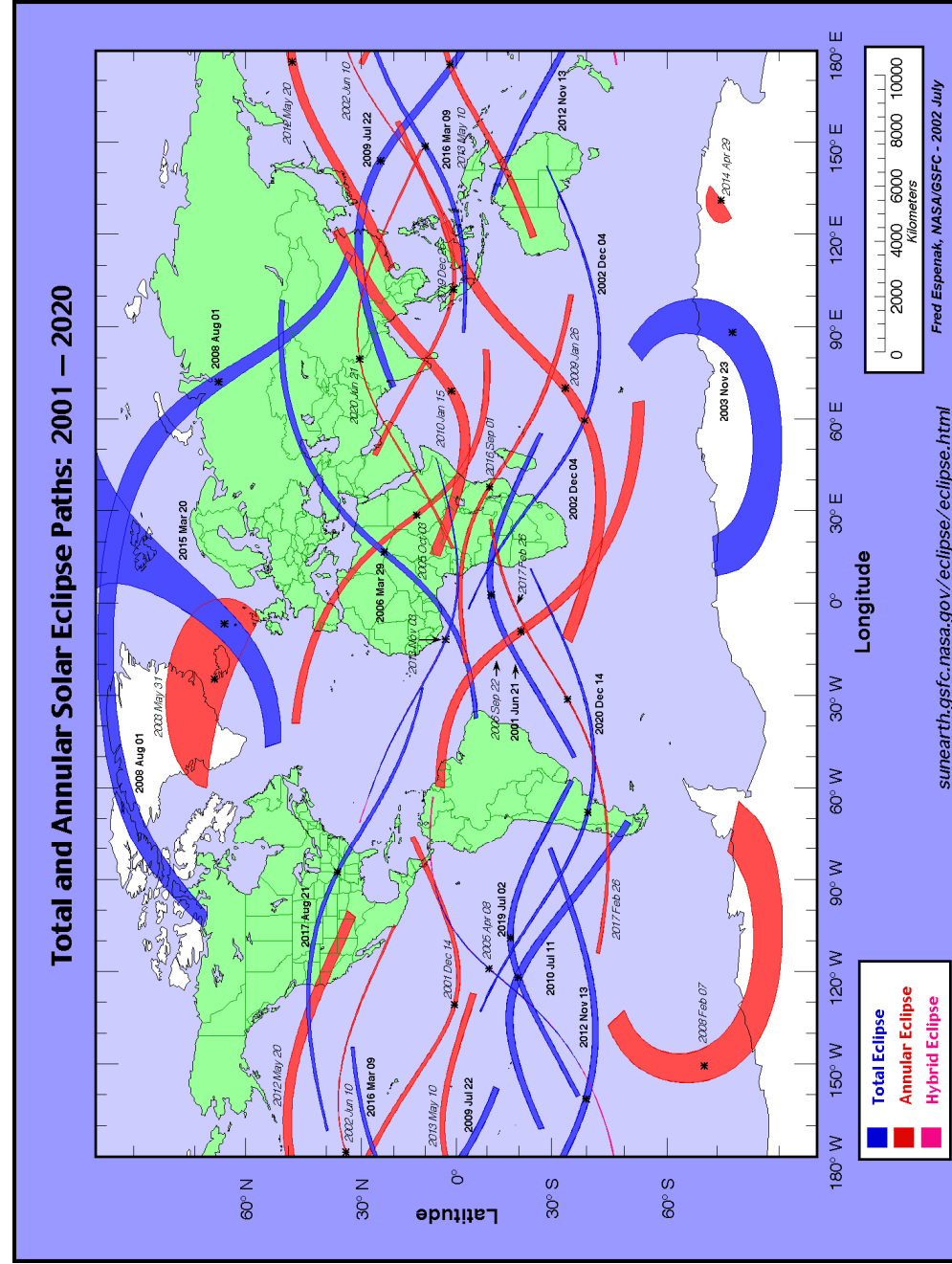
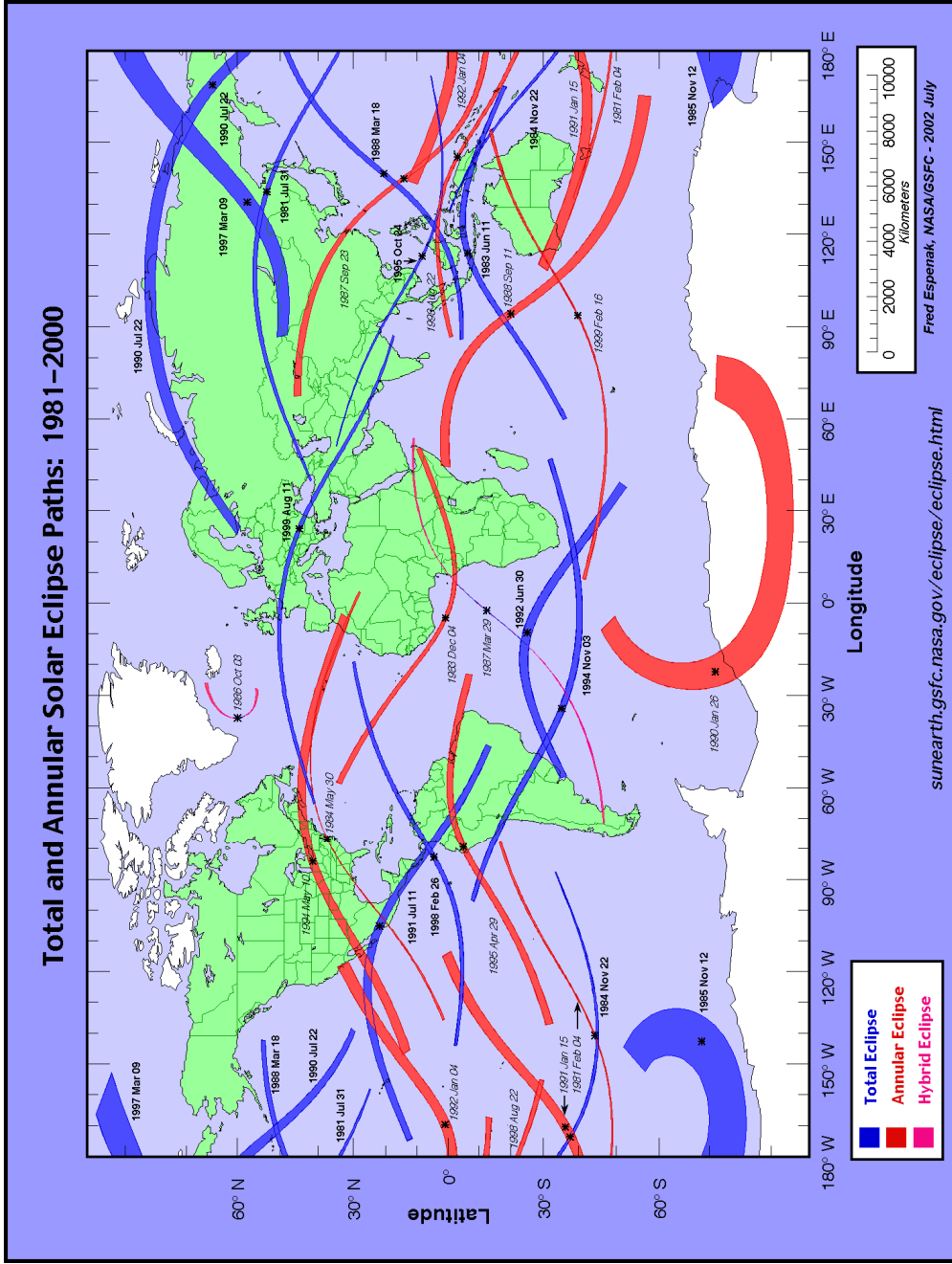
Центральные полосы солнечных затмений на 2021 – 2040 годы

Центральные полосы солнечных затмений на 1961 – 1980 годы



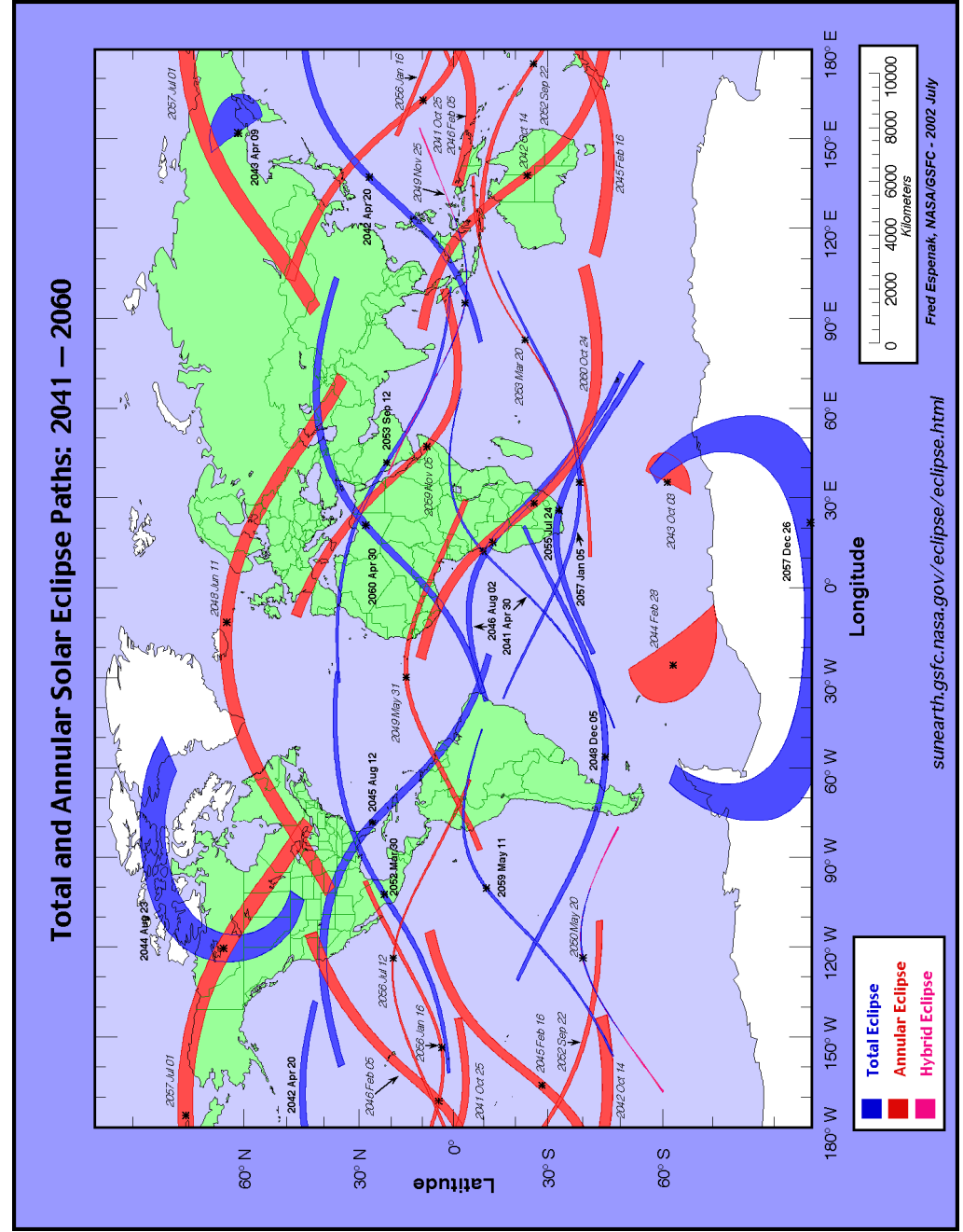
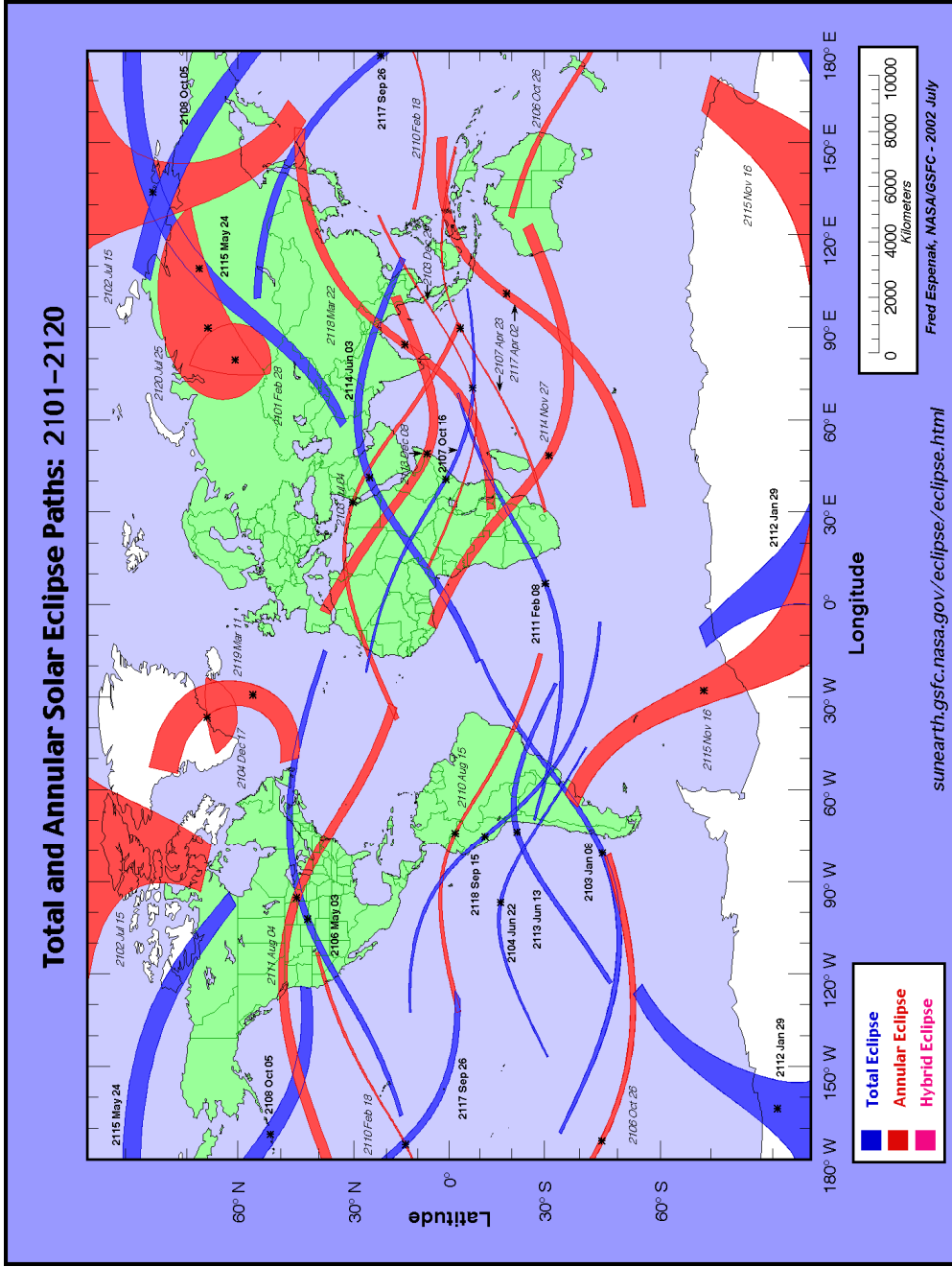
Центральные полосы солнечных затмений на 1981 – 2000 годы

Центральные полосы солнечных затмений на 2001 – 2020 годы



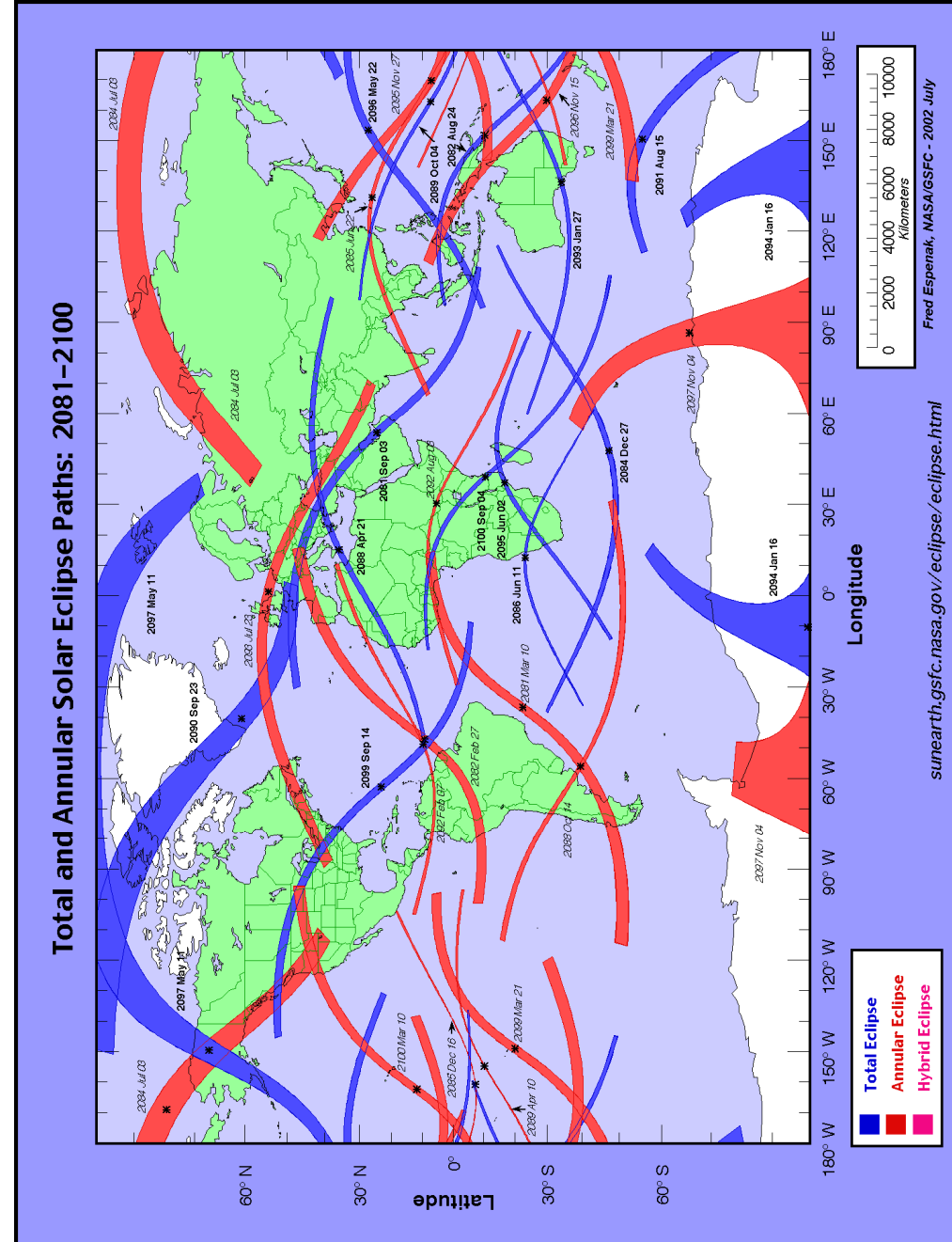
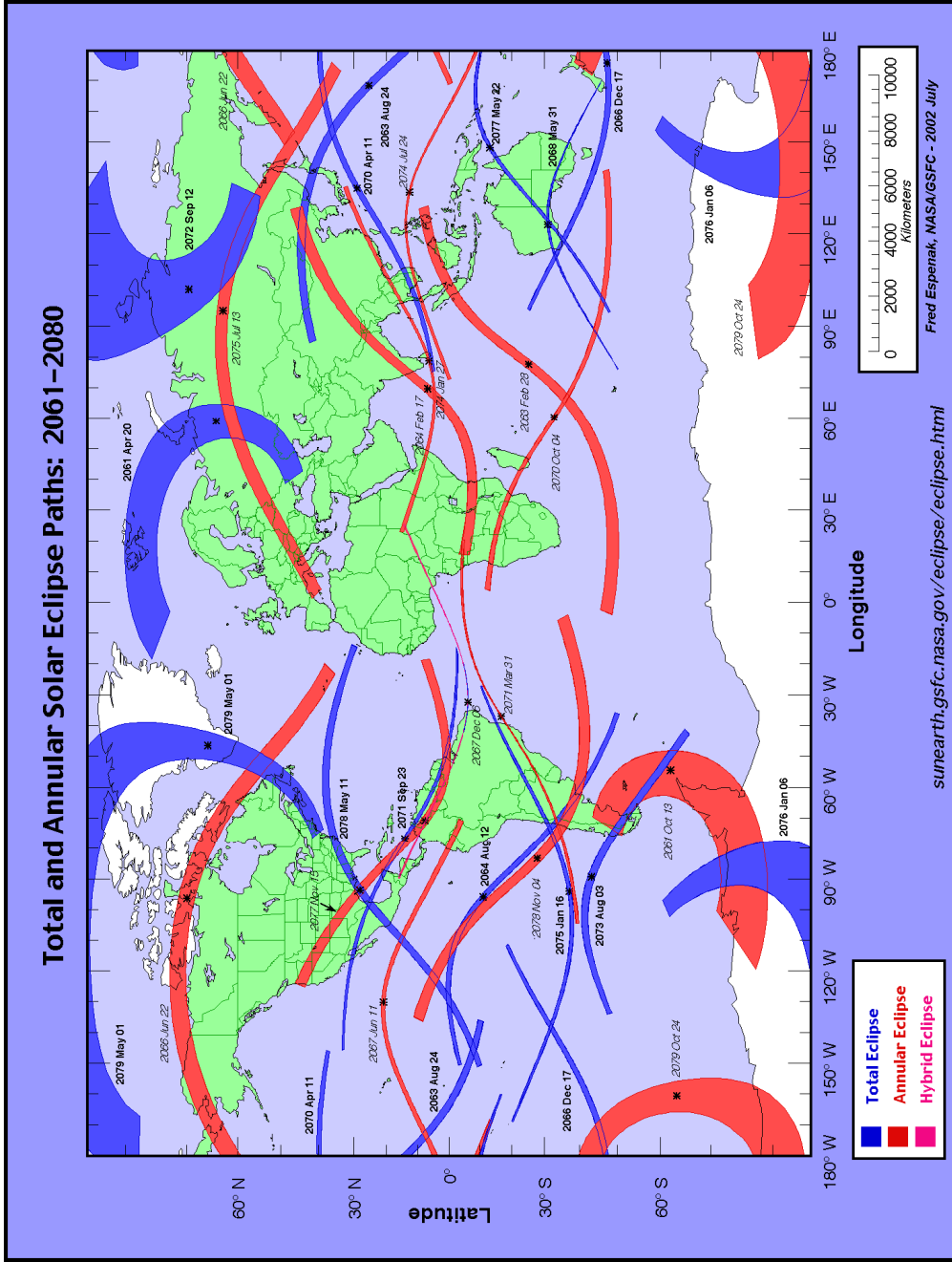
Центральные полосы солнечных затмений на 2101 – 2120 годы

Центральные полосы солнечных затмений на 2041 – 2060 годы



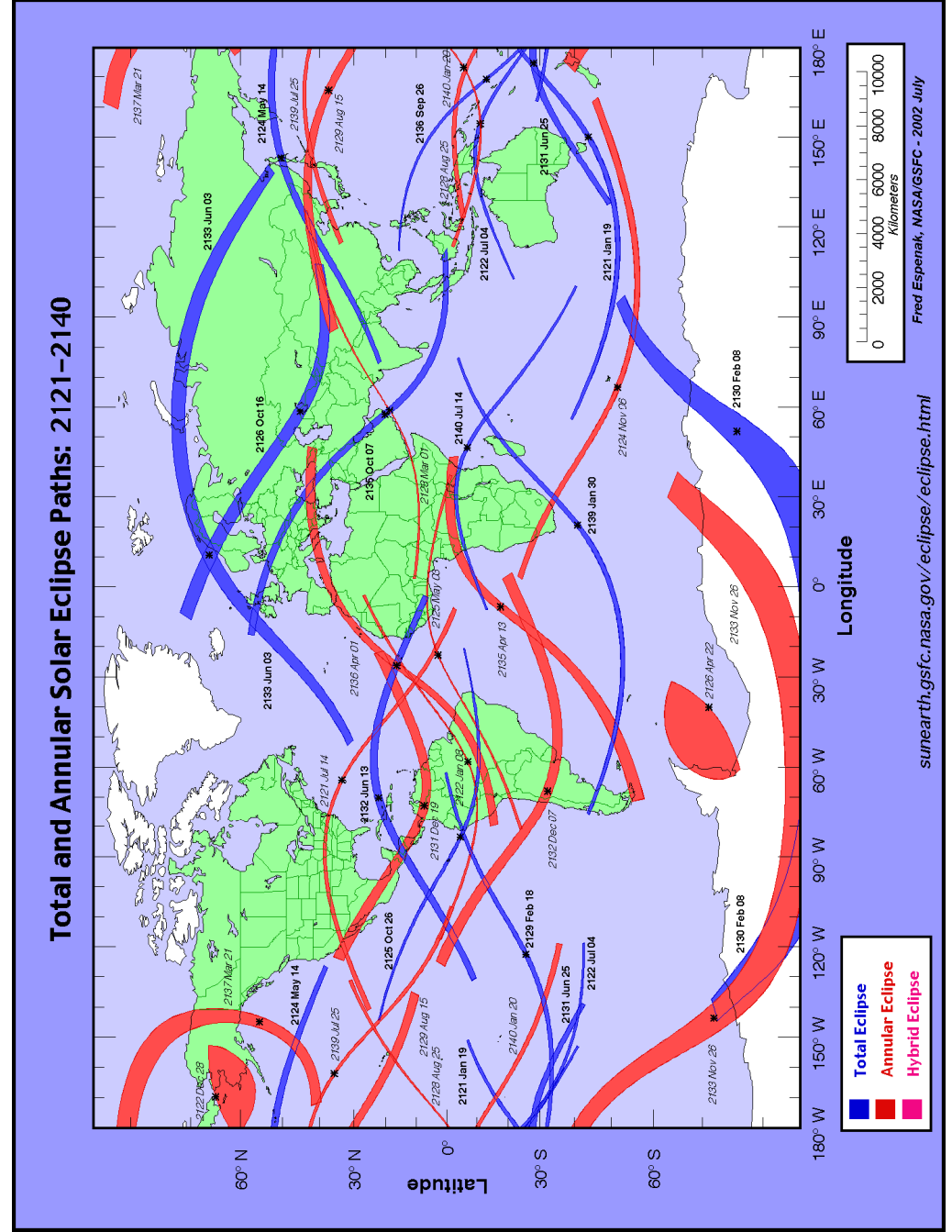
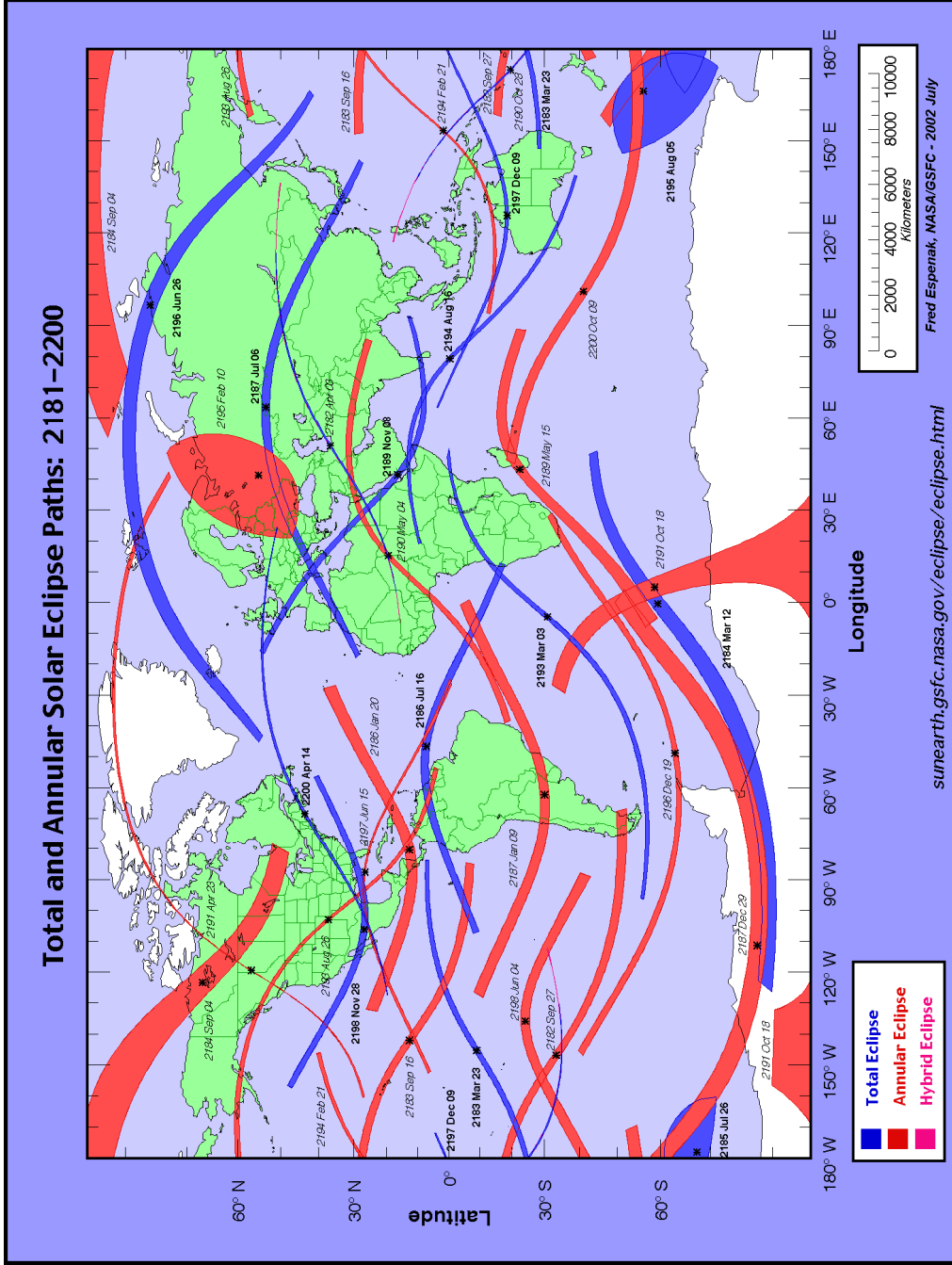
Центральные полосы солнечных затмений на 2061 – 2080 годы

Центральные полосы солнечных затмений на 2081 – 2100 годы



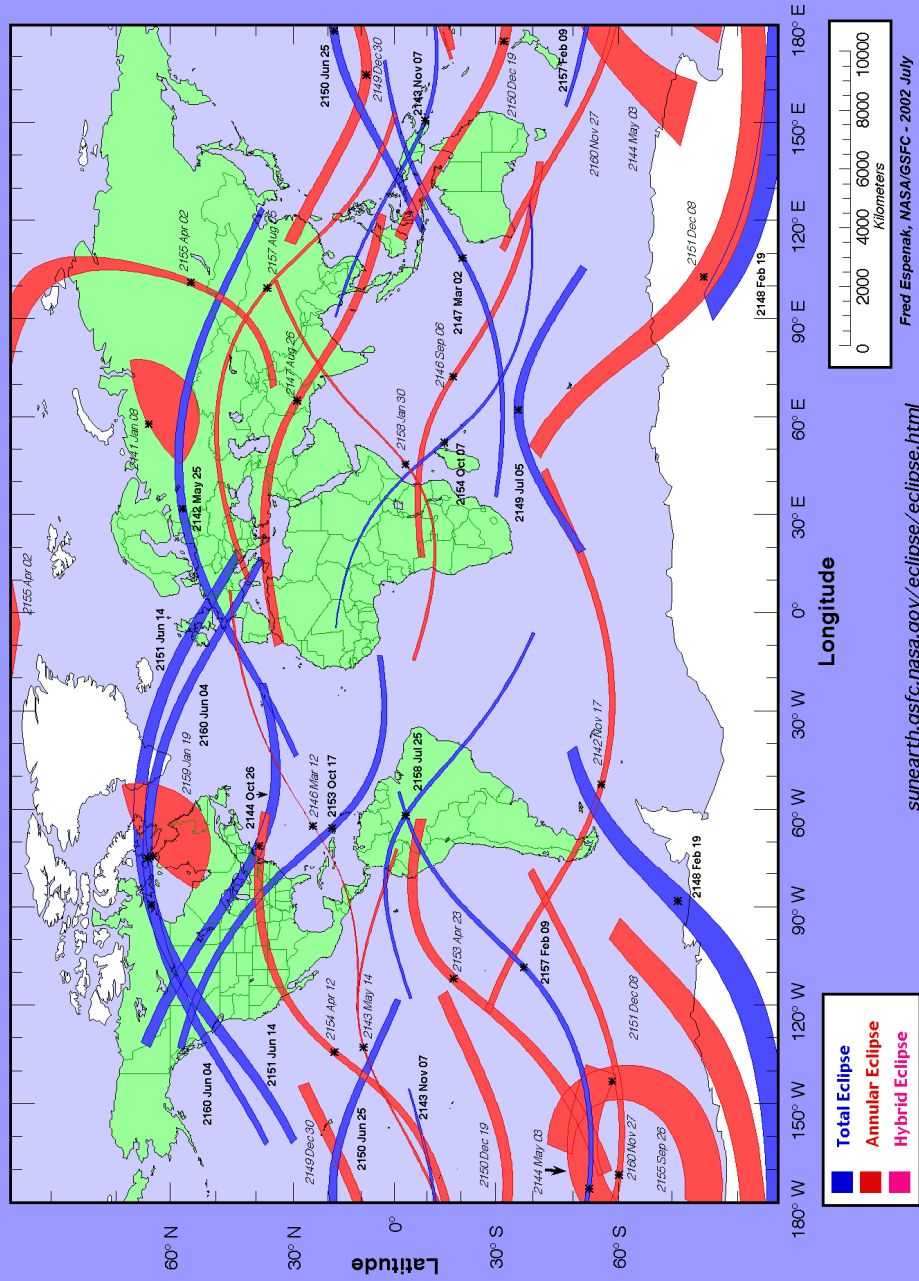
Центральные полосы солнечных затмений на 2181 – 2200 годы

Центральные полосы солнечных затмений на 2121 – 2140 годы



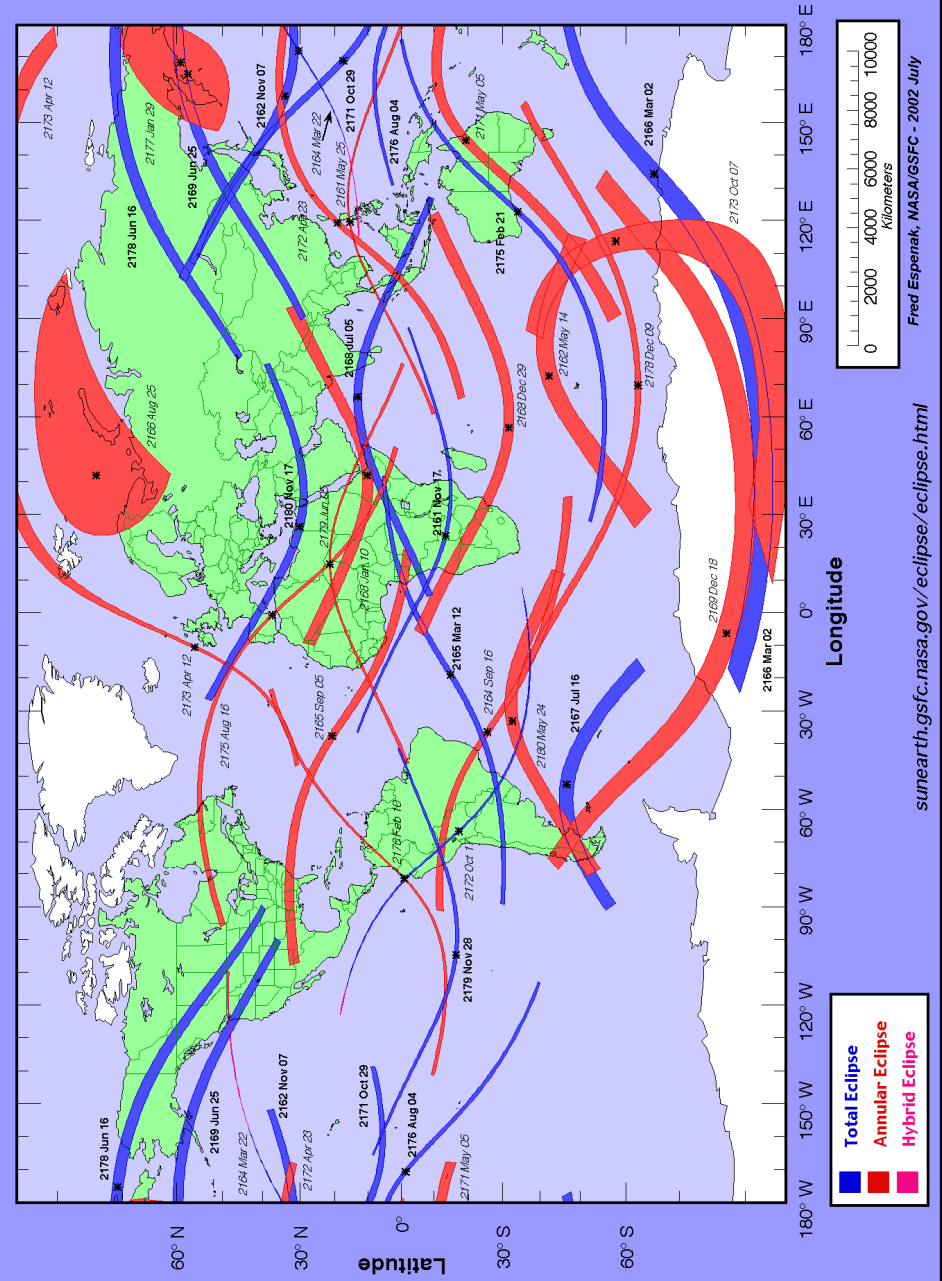
Центральные полосы солнечных затмений на 2141 – 2160 годы

Total and Annular Solar Eclipse Paths: 2141–2160



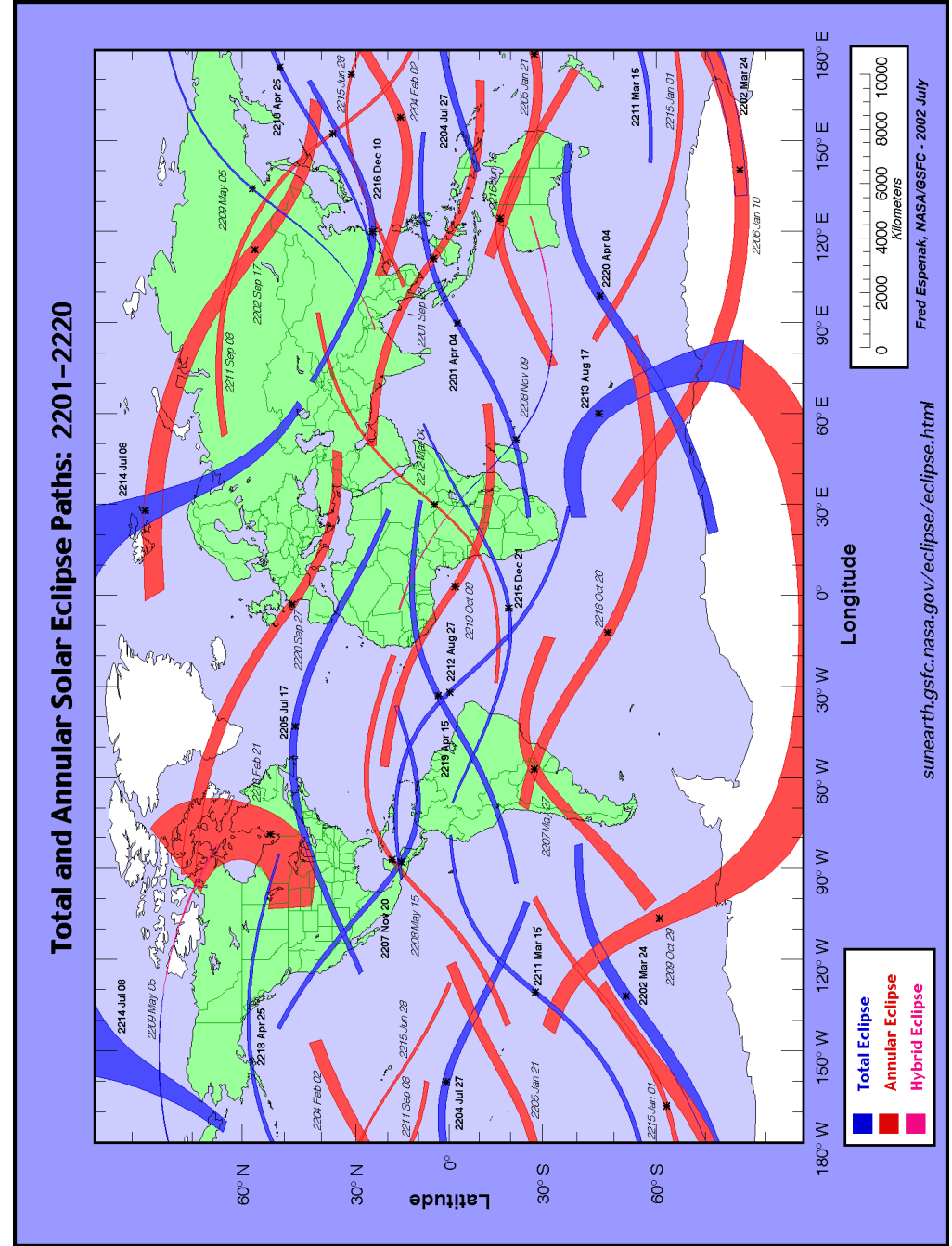
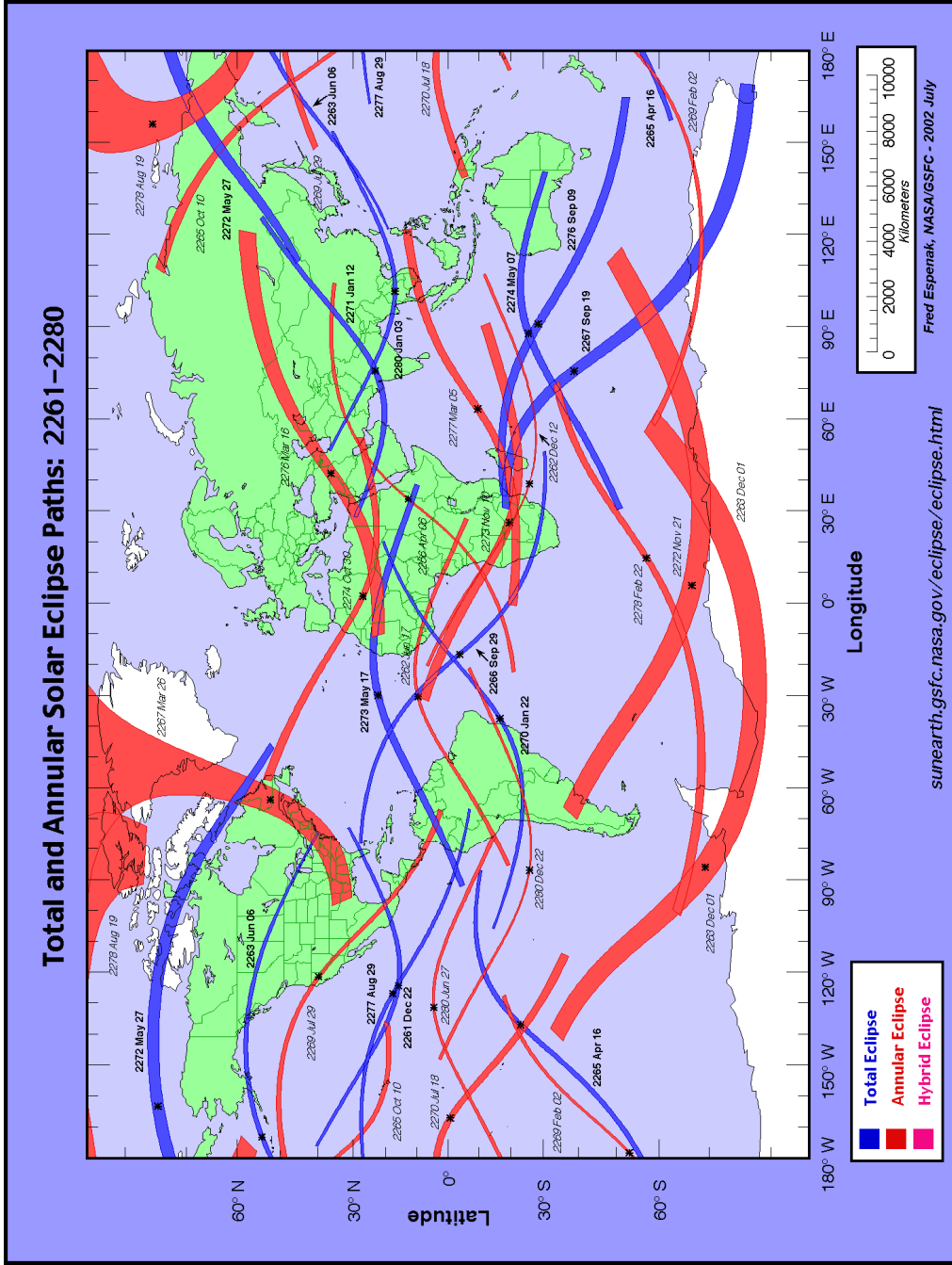
Центральные полосы солнечных затмений на 2161 – 2180 годы

Total and Annular Solar Eclipse Paths: 2161–2180



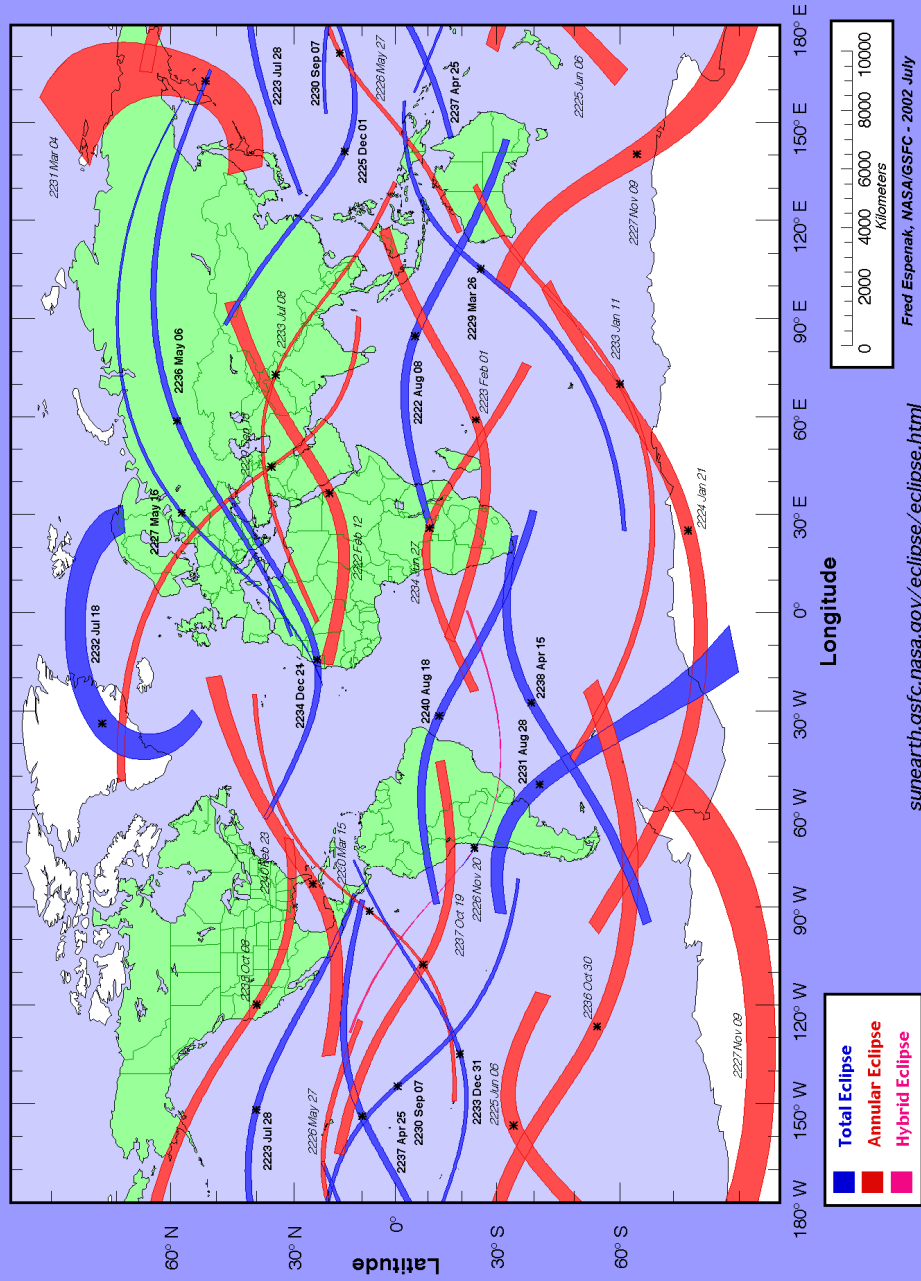
Центральные полосы солнечных затмений на 2261 – 2280 годы

Центральные полосы солнечных затмений на 2201 – 2220 годы



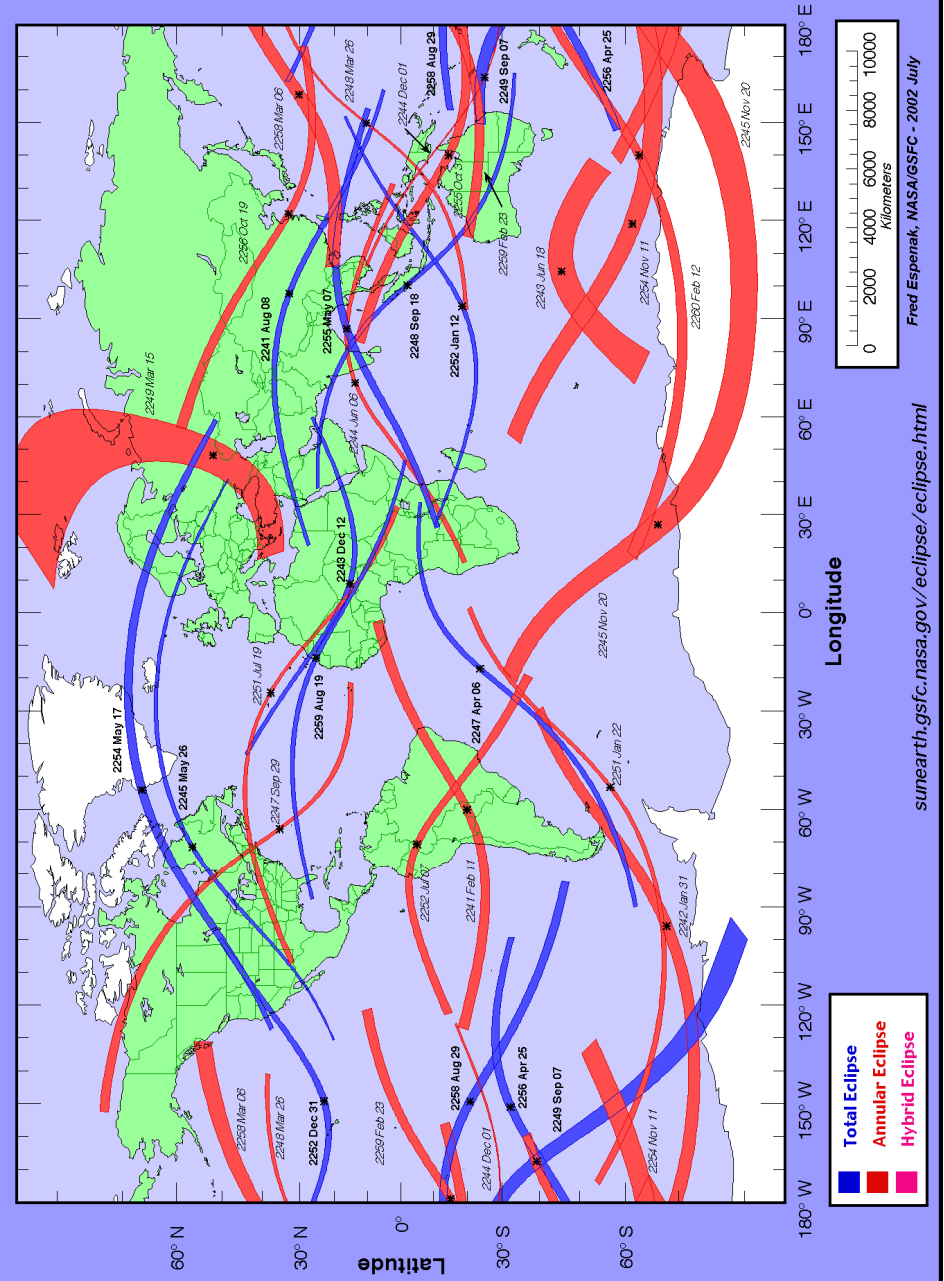
Центральные полосы солнечных затмений на 2221 – 2240 годы

Total and Annular Solar Eclipse Paths: 2221–2240



Центральные полосы солнечных затмений на 2241 – 2260 годы

Total and Annular Solar Eclipse Paths: 2241 – 2260



Краткий астрономический календарь на 1904 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Краткий астрономический календарь на 1901 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Table of astronomical events for 1904, organized by month (January to December). Each entry includes the date, time (d h), and the event name (e.g., 'Pluto 3.9S of Moon', 'Mercury 1.4S of Moon').

Table of astronomical events for 1901, organized by month (January to December). Each entry includes the date, time (d h), and the event name (e.g., 'Aldebaran 4.8S of Moon', 'Uranus 1.3S of Moon').

Краткий астрономический календарь на 1908 год

(конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Астрономические явления 1908			
	January	February	March
d h	d h	d h	d h
1	Earth at perihelion	13	Neptune 0.8S of Moon Occn
3	10 Mercury 2.1S of Moon	14	9 Pollux 5.9N of Moon
3	21 Moon furthest South (-22.7)	15	3 Moon at apogee
3	21 NEW MOON Eclipte	17	14 Jupiter 1.2S of Moon
3	22 Uranus 0.5S of Moon	18	9 FULL MOON
4	12 Moon at perigee	18	13 Regulus 3.1S of Moon
4	13 Uranus at conjunction	19	11 Mercury stationary
5	5 Neptune at opposition	19	15 Saturn 2.5N of Moon
5	20 Venus 0.7N of Moon Occn	20	17 Moon furthest South (-22.9)
6	9 Mercury 1.3S of Uranus	21	18 Uranus 0.0N of Moon Occn
8	5 Saturn 2.7N of Moon	21	3 Mercury inferior conjunction
9	15 Mars 4.7N of Moon	21	31 FULL MOON
9	15 FIRST QUARTER	22	8 Uranus 0.3S of Moon Occn
10	13 Aldebaran 2.4S of Moon	22	
d h	d h	d h	d h
2	8 NEW MOON	14	9 Neptune 0.8S of Moon Occn
3	7 Mercury 2.3N of Moon	15	9 Pollux 5.9N of Moon
4	18 Venus 3.3N of Moon	16	3 Moon at apogee
5	5 Saturn 2.8N of Moon	17	14 Jupiter 1.2S of Moon
6	21 Mars 5.4N of Moon	18	9 FULL MOON
9	4 FIRST QUARTER	18	13 Regulus 3.1S of Moon
10	8 Venus 1.2N of Saturn	19	11 Mercury stationary
10	18 Aldebaran 2.5S of Moon	20	17 Moon furthest South (-22.9)
11	22 Pluto 5.7S of Moon	20	18 Uranus 0.0N of Moon Occn
13	9 Mercury greatest elong E(18)	21	3 Mercury inferior conjunction
13	13 Moon furthest North (22.8)	21	31 FULL MOON
d h	d h	d h	d h
1	12 Moon at perigee	13	16 Moon at apogee
2	18 NEW MOON	15	18 Regulus 3.2S of Moon
2	13 Saturn 2.6N of Moon	18	2 FULL MOON
3	17 Venus 5.6N of Moon	18	10 Equinox
6	18 Mars 5.1N of Moon	21	5 Saturn at conjunction
7	23 Pluto stationary	23	12 Neptune stationary
9	1 Aldebaran 2.7S of Moon	25	12 LAST QUARTER
9	21 FIRST QUARTER	26	1 Moon furthest South (-23.1)
10	5 Pluto 5.8S of Moon	26	9 Uranus 0.2N of Moon Occn
11	19 Moon furthest North (23.0)	27	11 Mercury greatest elong W(28)
11	20 Neptune 0.9S of Moon Occn	29	14 Moon at perigee
12	14 Mercury stationary	30	4 Mercury 2.6N of Moon
12	16 Pollux 5.7N of Moon	30	14 Jupiter stationary
13	16 Upliter 1.1S of Moon Occn	31	13 Saturn 2.6N of Moon
d h	d h	d h	d h
1	5 NEW MOON	12	1 Regulus 3.4S of Moon
3	19 Venus 1.3N of Mars	14	23 Mercury 0.4S of Saturn
4	15 Mars 4.1N of Moon	16	16 FULL MOON
4	16 Venus 5.6N of Moon	21	13 Uranus stationary
5	10 Aldebaran 2.9S of Moon	22	6 Moon furthest South (-23.3)
6	13 Pluto 6.0S of Moon	22	15 Uranus 0.4N of Moon Occn
8	3 Moon furthest North (23.2)	23	19 LAST QUARTER
8	3 Neptune 1.1S of Moon Occn	25	12 Moon at perigee
8	16 FIRST QUARTER	26	17 Venus greatest elong E(46)
8	23 Pollux 5.3N of Moon	28	3 Saturn 2.9N of Moon
9	23 Jupiter 1.4S of Moon	29	22 Mercury 3.4N of Moon
10	11 Moon at apogee	30	15 NEW MOON
d h	d h	d h	d h
1	9 Aldebaran 3.1S of Moon	9	9 Regulus 3.6S of Moon
3	12 Mars 2.6N of Moon	16	4 FULL MOON
4	10 Moon 4.3N of Moon	19	12 Moon furthest South (-23.4)
5	11 Moon furthest North (23.4)	19	20 Uranus 0.5N of Moon
5	13 Neptune 1.3S of Moon	20	13 Moon at perigee
7	7 Pollux 5.3N of Moon	22	5 Venus 4.1N of Neptune
7	11 Jupiter 1.7S of Moon	22	6 FULL MOON
7	18 Mercury superior conjunction	25	14 Saturn 2.9N of Moon
8	6 Moon at apogee	30	3 Aldebaran 3.1S of Moon
8	11 FIRST QUARTER	30	3 NEW MOON
d h	d h	d h	d h
1	1 Mercury 2.4N of Moon	16	3 Uranus 0.5N of Moon Occn
1	9 Mars 1.0N of Moon	16	22 Moon at perigee
1	20 Moon furthest North (23.5)	17	20 Mercury 1.8S of Mars
1	22 Neptune 1.5S of Moon	21	9 LAST QUARTER
2	10 Venus 1.8S of Moon	9	9 Mercury stationary
2	15 Pollux 5.2N of Moon	21	20 Solstice
4	3 Jupiter 2.2S of Moon	21	22 Saturn 2.9N of Moon
5	0 Moon at apogee	23	2 Venus 2.1S of Mars
5	17 Regulus 3.7S of Moon	25	13 Mars 5.5S of Pollux
7	4 FIRST QUARTER	26	10 Aldebaran 3.1S of Moon
7	15 Mercury 0.2N of Mars	27	2 Moon furthest North (24.3)
8	0 Mercury greatest elong E(24)	29	3 Moon furthest North (23.6)
11	13 Mercury 1.5N of Neptune	27	7 Neptune 1.6S of Moon
12	18 Mars 1.3N of Neptune	29	10 Mercury 4.6S of Moon
13	20 Venus stationary	29	14 Venus 3.6S of Moon
14	13 FULL MOON Eclipte	29	23 Pollux 5.2N of Moon
15	20 Moon furthest South (-23.5)	30	5 Mars 0.6S of Moon Occn
15	20 Pluto at conjunction	30	9

Краткий астрономический календарь на 1905 год

(конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Астрономические явления 1905			
	January	February	March
d h	d h	d h	d h
1	9 Earth at perihelion	13	22 Venus 2.9S of Uranus
4	16 Uranus 5.0S of Moon	17	12 Aldebaran 0.4S of Moon Occn
4	22 Mercury 1.4S of Moon	18	9 Pluto 3.4S of Moon
5	18 Moon furthest South (-18.7)	19	12 Moon furthest North (18.7)
5	18 NEW MOON	19	13 Neptune 3.6N of Moon
8	11 Saturn 3.0S of Moon	21	7 FULL MOON
9	13 Venus 2.2S of Moon	22	19 Mercury greatest elong W(24)
10	6 Mercury 3.3N of Uranus	23	5 Regulus 1.3N of Moon
11	12 Mercury stationary	23	19 Moon at perigee
12	0 Moon at apogee	26	22 Spica 5.5S of Moon
13	17 Jupiter 2.2N of Moon	27	23 Mars 2.6S of Moon
13	20 FIRST QUARTER	30	2 Moon at apogee
d h	d h	d h	d h
1	2 Uranus 5.0S of Moon	14	21 Venus greatest elong E(47)
1	2 Moon furthest South (-18.7)	15	23 Moon furthest North (18.6)
2	12 Mercury 1.4S of Moon	15	23 Neptune 3.7N of Moon
4	11 NEW MOON	19	15 Regulus 1.4N of Moon
5	1 Saturn 2.7S of Moon	19	18 FULL MOON Eclipte
8	16 Venus 3.1N of Moon	20	23 Moon at perigee
8	19 Moon at apogee	23	6 Spica 5.6S of Moon
10	8 Jupiter 2.6N of Moon	24	23 Mercury 0.9S of Saturn
12	16 FIRST QUARTER	25	1 Mars 3.2S of Moon
12	19 Saturn at conjunction	26	10 LAST QUARTER
13	21 Aldebaran 0.2S of Moon Occn	28	9 Uranus 5.0S of Moon
14	18 Pluto 3.2S of Moon	28	14 Moon furthest South (-18.6)
d h	d h	d h	d h
5	12 Saturn 2.4S of Moon	15	8 Moon furthest North (18.6)
5	17 Pluto stationary	17	1 Neptune stationary
5	17 Venus 4.6N of Jupiter	19	2 Regulus 1.3N of Moon
5	20 Mercury 1.8S of Moon	21	4 FULL MOON
6	5 NEW MOON Eclipte	21	6 Equinox
6	6 Moon at apogee	21	10 Moon at perigee
10	1 Jupiter 3.1N of Moon	22	16 Spica 5.6S of Moon
10	4 Mercury superior conjunction	24	20 Mars 3.5S of Moon
14	2 Aldebaran 0.2S of Moon Occn	27	17 Uranus 5.0S of Moon
14	2 Pluto 3.0S of Moon	27	20 Moon furthest South (-18.6)
14	8 FIRST QUARTER	27	21 LAST QUARTER
15	7 Neptune 3.7N of Moon	27	21
d h	d h	d h	d h
1	8 Saturn 2.1S of Moon	13	18 Mercury stationary
1	10 Mars stationary	15	12 Regulus 1.2N of Moon Occn
4	8 Moon at apogee	18	21 Moon at perigee
4	13 Mercury greatest elong E(19)	19	3 Spica 5.6S of Moon
4	23 NEW MOON	19	13 FULL MOON
5	17 Venus stationary	21	4 Mars 4.1S of Moon
6	20 Jupiter 3.4N of Moon	23	21 Mercury inferior conjunction
6	21 Uranus stationary	24	1 Uranus 4.9S of Moon
9	11 Aldebaran 0.2S of Moon Occn	24	2 Moon furthest South (-18.8)
10	9 Pluto 3.1S of Moon	26	11 LAST QUARTER
11	14 Neptune 3.6N of Moon	27	9 Venus inferior conjunction
11	15 Moon furthest North (18.7)	28	13 Saturn 1.8S of Moon
12	21 FIRST QUARTER	28	1
d h	d h	d h	d h
1	15 Moon at apogee	16	13 Spica 5.7S of Moon
3	8 Mercury 2.6N of Moon	16	16 Venus stationary
4	6 Jupiter at conjunction	16	19 Mars nearest to Earth
4	15 Jupiter 3.7N of Moon	17	4 Moon at perigee
4	15 NEW MOON	18	0 Mars 5.0S of Moon
6	4 Mercury stationary	18	21 FULL MOON
6	16 Aldebaran 0.4S of Moon Occn	21	10 Uranus 4.7S of Moon
7	15 Pluto 3.2S of Moon	21	12 Mercury greatest elong W(25)
8	20 Mars at opposition	21	14 Moon furthest South (-19.0)
8	20 Moon furthest North (18.9)	25	23 Saturn 1.6S of Moon
8	21 Neptune 3.5N of Moon	26	2 LAST QUARTER
12	6 FIRST QUARTER	29	6 Moon at apogee
12	20 Regulus 1.1N of Moon Occn	30	21 Venus 2.8N of Moon
13	14 Mercury 4.9S of Venus	30	21
d h	d h	d h	d h
1	7 Mercury 2.1N of Moon	17	5 FULL MOON
1	10 Jupiter 3.9N of Moon	17	18 Uranus 4.6S of Moon
2	17 Mercury 1.6S of Jupiter	18	1 Mars stationary
2	23 Aldebaran 0.5S of Moon Occn	18	1 Moon furthest South (-19.1)
3	5 NEW MOON	22	2 Solstice
3	23 Pluto 3.2S of Moon	22	8 Saturn 1.5S of Moon
5	3 Moon furthest North (19.1)	24	9 Mercury superior conjunction
5	4 Neptune 3.3N of Moon	24	11 Uranus at opposition
9	1 Regulus 0.9N of Moon Occn	24	19 LAST QUARTER
10	13 FIRST QUARTER	26	0 Moon at apogee
12	21 Pluto at conjunction	26	23 Mercury 2.4N of Neptune
12	21 Spica 5.9S of Moon	24	4 Moon furthest North (-24.4)
13	21 Venus 1.7N of Moon	24	12 Uranus 1.4N of Moon
13	23 Mars 6.0S of Moon	29	6 Jupiter 3.1N of Moon
14	0 Moon at perigee	30	6 Aldebaran 0.4S of Moon Occn
14	11 Saturn stationary	30	9 Neptune at conjunction
d h	d h	d h	d h
1	8 Mars 2.7S of Moon	19	12 LAST QUARTER
1	18 Saturn 1.3S of Moon	22	2 Mercury 2.5N of Venus
1	18 FIRST QUARTER	22	12 Solstice
6	3 Mercury stationary	22	12 Moon at perigee
7	22 Moon at apogee	24	22 Mercury 1.7S of Moon
10	8 Jupiter 4.0N of Moon	25	6 Venus 4.2S of Moon
12	1 Aldebaran 0.6S of Moon Occn	25	22 Mars 0.5N of Saturn
11	23 FULL MOON	26	4 NEW MOON
12	4 Pluto 3.8S of Moon	26	5 Uranus 4.1S of Moon
13	12 Moon furthest North (19.6)	26	6 Mercury stationary
13	14 Neptune 2.5N of Moon	26	12 Moon furthest South (-19.6)
14	9 Pluto at opposition	26	19 Uranus at conjunction
14	19 Venus 5.3N of Antares	30	4 Saturn 0.9S of Moon Occn
15	22 Mercury inferior conjunction	30	10 Mars 0.1S of Moon Occn
17	9 Regulus 0.9N of Moon Occn	31	8 Neptune at opposition

Краткий астрономический календарь на 1912 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Table with columns for month, day, and astronomical events. Includes sections for January, February, March, April, May, June, July, August, September, October, November, and December, detailing planetary positions and lunar phases.

Краткий астрономический календарь на 1909 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Table with columns for month, day, and astronomical events. Includes sections for January, February, March, April, May, June, July, August, September, October, November, and December, detailing planetary positions and lunar phases.

Краткий астрономический календарь на 1910 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Краткий астрономический календарь на 1911 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Table with columns for month (January to December), day (d), hour (h), and astronomical events for 1910. Includes planetary positions, lunar phases, and conjunctions.

Table with columns for month (January to December), day (d), hour (h), and astronomical events for 1911. Includes planetary positions, lunar phases, and conjunctions.

Краткий астрономический календарь на 1914 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Краткий астрономический календарь на 1915 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Table with columns for month (January to December), day (d), hour (h), and astronomical events (e.g., Jupiter at conjunction, Mars at perihelion, Moon at apogee). Includes sub-headers for 'Астрономические явления 1914' and 'July'.

Table with columns for month (January to December), day (d), hour (h), and astronomical events (e.g., Mercury 0.5N of Pluto, Jupiter 1.5S of Moon, Mars 0.4S of Uranus). Includes sub-headers for 'Астрономические явления 1915' and 'July'.

Краткий астрономический календарь на 1920 год

(конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Table with columns for months (January to December) and astronomical events (planets, moons, eclipses) for the year 1920. Includes sub-columns for day, hour, and event type.

Краткий астрономический календарь на 1917 год

(конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Table with columns for months (January to December) and astronomical events (planets, moons, eclipses) for the year 1917. Includes sub-columns for day, hour, and event type.

Краткий астрономический календарь на 1918 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Краткий астрономический календарь на 1919 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Table with columns for month (January to December), day (d), hour (h), and astronomical events (e.g., Venus stationary, Earth at perihelion, Moon furthest North). Includes sub-tables for July, August, September, October, November, and December.

Table with columns for month (January to December), day (d), hour (h), and astronomical events (e.g., Venus 5.6N of Moon, Jupiter at conjunction, Earth at aphelion). Includes sub-tables for July, August, September, October, November, and December.

Краткий астрономический календарь на 1924 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Краткий астрономический календарь на 1921 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Table with columns for month (January to December), day (d), hour (h), and astronomical events for the year 1924. Includes events like Saturn 2.5S of Moon, Venus inferior conjunction, and Mars 5.2S of Moon.

Table with columns for month (January to December), day (d), hour (h), and astronomical events for the year 1921. Includes events like Saturn 2.5S of Moon, Venus inferior conjunction, and Mars 5.2S of Moon.

Краткий астрономический календарь на 1922 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Краткий астрономический календарь на 1923 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Table with columns for month (January to December), day (d), hour (h), and astronomical events for the year 1922. Includes planetary positions and conjunctions.

Table with columns for month (January to December), day (d), hour (h), and astronomical events for the year 1923. Includes planetary positions and conjunctions.

Краткий астрономический календарь на 1928 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Краткий астрономический календарь на 1925 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Table with columns for months (January to December) and astronomical events (e.g., Venus superior conjunction, Moon at perigee, Mars at opposition) for the year 1928.

Table with columns for months (January to December) and astronomical events (e.g., Venus superior conjunction, Moon at perigee, Mars at opposition) for the year 1925.

Краткий астрономический календарь на 1926 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Table with columns for month (January to December), day, and astronomical events. Includes sub-headers for 'Астрономические явления 1926' and 'July', 'August', 'September', 'October', 'November', 'December'. Lists events like Earth at perihelion, Moon at perigee, Venus stationary, etc.

Краткий астрономический календарь на 1927 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Table with columns for month (January to December), day, and astronomical events. Includes sub-headers for 'Астрономические явления 1927' and 'July', 'August', 'September', 'October', 'November', 'December'. Lists events like Mercury 1.2S of Moon, Earth at perihelion, Moon furthest North, etc.

Краткий астрономический календарь на 1932 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Краткий астрономический календарь на 1929 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Table with columns for month, day, time, and astronomical event for 1932. Includes events like 'LAST QUARTER', 'FIRST QUARTER', and planetary positions.

Table with columns for month, day, time, and astronomical event for 1932. Includes events like 'Moon furthest North', 'Moon furthest South', and planetary conjunctions.

Table with columns for month, day, time, and astronomical event for 1929. Includes events like 'LAST QUARTER', 'FIRST QUARTER', and planetary positions.

Table with columns for month, day, time, and astronomical event for 1929. Includes events like 'Moon furthest North', 'Moon furthest South', and planetary conjunctions.

Краткий астрономический календарь на 1930 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Краткий астрономический календарь на 1931 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Table with columns for month, day, and astronomical events for 1930. Months include January, February, March, April, May, June, July, August, September, October, November, and December. Events listed include planetary conjunctions, oppositions, and stationarities.

Table with columns for month, day, and astronomical events for 1931. Months include January, February, March, April, May, June, July, August, September, October, November, and December. Events listed include planetary conjunctions, oppositions, and stationarities.

Краткий астрономический календарь на 1934 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Table with columns for month (January to December), day (d), hour (h), and astronomical events (planets, moons, conjunctions, oppositions, etc.).

Краткий астрономический календарь на 1935 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Table with columns for month (January to December), day (d), hour (h), and astronomical events (planets, moons, conjunctions, oppositions, etc.).

Краткий астрономический календарь на 1940 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Краткий астрономический календарь на 1937 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Table with astronomical data for 1940, organized by month (January to December) and day. Columns include date, time (d h), and event description.

Table with astronomical data for 1937, organized by month (January to December) and day. Columns include date, time (d h), and event description.

Краткий астрономический календарь на 1938 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Краткий астрономический календарь на 1939 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Table with columns for months (January to December) and astronomical events (d h, planet names, conjunctions, oppositions, etc.) for the year 1938.

Table with columns for months (January to December) and astronomical events (d h, planet names, conjunctions, oppositions, etc.) for the year 1939.

Краткий астрономический календарь на 1944 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Краткий астрономический календарь на 1941 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Астрономические явления 1944			July		
January	d h		d h		
2 20	FIRST QUARTER	13 23 Moon at apogee	1 12	Mercury superior conjunction	20 5 NEW MOON Eclipse
4 14	Earth at perihelion	16 17 Neptune 3.0S of Moon	2 19	Mercury 0.8N of Venus	20 19 Venus 0.6N of Moon Occn
6 21	Uranus 4.5N of Moon	16 18 Mars 2.8N of Uranus	3 8	Earth at aphelion	21 2 Pluto 4.6N of Moon
6 23	Neptune stationary	18 15 LAST QUARTER	5 12	Mars 0.2N of Jupiter	21 9 Jupiter 0.5N of Regulus
7 4	Aldebaran 1.1S of Moon Occn	20 1 Mercury stationary	6 0	Moon furthest South (-21.5)	22 0 Mercury 0.7S of Moon Occn
8 4	Saturn 2.4N of Moon	22 20 Saturn 1.9S of Moon	6 4	FULL MOON	22 20 Regulus 2.3S of Moon
8 21	Mercury inferior conjunction	23 23 Mercury 0.1S of Moon Occn	7 22	Jupiter 4.3S of Pollux	22 21 Jupiter 1.8S of Moon
9 18	Moon furthest North (20.7)	24 1 Moon furthest South (-20.8)	8 22	Uranus 1.0N of Regulus	22 12 Mars 2.2S of Moon
10 5	Mars stationary	25 15 NEW MOON Eclipse	10 13	Mars 0.7N of Regulus	23 18 Venus 4.3S of Pluto
10 10	FULL MOON	26 10 Moon at perigee	11 1	Venus 5.7S of Pollux	24 16 Moon at apogee
11 23	Pluto 5.5N of Moon	28 15 Pluto at opposition	12 20	LAST QUARTER	25 15 Neptune 3.3S of Moon
13 11	Jupiter 0.7S of Moon Occn	31 23 Mercury greatest elong W(25)	15 10	Mercury 3.8S of Pluto	26 8 Mercury 0.0N of Regulus
13 18	Regulus 1.5S of Moon		15 10	Aldebaran 1.5S of Moon	28 9 FIRST QUARTER
			16 15	Uranus 3.7N of Moon	29 12 Mercury 0.6S of Jupiter
			18 8	Saturn 1.3N of Moon	31 17 Pluto at conjunction
			19 0	Moon furthest North (21.5)	
February	d h		August	d h	
1 7	FIRST QUARTER	11 22 Jupiter at opposition	2 10	Moon furthest South (-21.5)	18 20 NEW MOON
3 2	Uranus 4.6N of Moon	12 13 Uranus stationary	4 12	FULL MOON	19 3 Regulus 2.3S of Moon
3 10	Aldebaran 1.0S of Moon	13 23 Neptune 3.0S of Moon	5 22	Moon at perigee	19 15 Jupiter 2.2S of Moon
4 7	Saturn 2.6N of Moon	17 7 LAST QUARTER	9 18	Venus 1.0N of Regulus	20 5 Venus 2.2S of Moon
4 1	Moon furthest North (20.8)	20 12 Moon furthest South (-20.8)	10 12	Mercury greatest elong E(27)	21 5 Moon at apogee
5 8	Pluto 5.5N of Moon	20 16 Saturn stationary	11 2	LAST QUARTER	21 7 Mars 3.6S of Moon
9 5	FULL MOON	21 19 Venus 0.4S of Moon Occn	12 16	Aldebaran 1.6S of Moon	21 23 Neptune 3.3S of Moon
9 11	Jupiter 0.3S of Moon Occn	22 19 Mercury 1.0S of Moon Occn	12 22	Uranus 3.7N of Moon	23 16 Mercury stationary
10 1	Regulus 1.5S of Moon	23 22 Moon at perigee	13 17	Venus 0.5N of Jupiter	23 23 FIRST QUARTER
10 6	Moon at apogee	24 1 NEW MOON	14 19	Saturn 1.0N of Moon Occn	28 4 Mercury 5.7S of Venus
March	d h		15 6	Moon furthest North (21.6)	29 20 Moon furthest South (-21.6)
1 9	Uranus 4.5N of Moon	18 21 Moon furthest South (-20.9)	17 10	Pluto 4.3N of Moon	31 6 Jupiter at conjunction
1 16	Aldebaran 1.1S of Moon Occn	20 17 Equinox	September	d h	
1 20	FIRST QUARTER	22 16 Venus 1.6N of Moon	2 19	Mars 0.7S of Neptune	16 4 Mercury 4.3S of Moon
2 3	Saturn 2.6N of Moon	23 9 Moon at perigee	2 20	FULL MOON	16 9 Jupiter 2.6S of Moon
4 7	Moon furthest North (20.8)	23 15 Neptune at opposition	3 6	Moon at perigee	17 11 Moon at apogee
6 10	Pluto 5.5N of Moon	24 11 NEW MOON	6 12	Venus 0.3S of Neptune	17 12 NEW MOON
7 0	Mars 3.4N of Saturn	24 23 Mercury 4.3N of Moon	6 22	Mercury inferior conjunction	18 7 Neptune 3.3S of Moon
11 1	Jupiter 0.1S of Moon Occn	28 19 Uranus 4.3N of Moon	8 22	Aldebaran 1.7S of Moon	18 13 Uranus stationary
8 6	Moon at apogee	29 1 Aldebaran 1.3S of Moon	9 5	Uranus 3.5N of Moon	19 3 Mars 4.4S of Moon
8 7	Regulus 1.6S of Moon	29 23 Saturn 2.5N of Moon	9 12	LAST QUARTER	19 14 Mars 4.3S of Moon
10 0	FULL MOON	30 18 Mars 4.8N of Moon	10 9	Venus 0.4N of Mars	22 4 Venus 2.6N of Spica
11 4	Neptune 2.9S of Moon	31 12 FIRST QUARTER	13 16	Saturn 0.7N of Moon Occn	23 0 Mercury greatest elong W(18)
17 20	LAST QUARTER	31 14 Moon furthest North (21.0)	11 11	Moon furthest North (21.7)	24 3 Equinox
17 20	Mercury superior conjunction		11 19	Mercury 3.2S of Jupiter	23 11 Mercury 0.0N of Jupiter
April	d h		13 17	Pluto 4.4N of Moon	25 12 FIRST QUARTER
2 13	Pluto 5.4N of Moon	21 13 Venus 3.2N of Moon	15 9	Regulus 2.3S of Moon	26 5 Moon furthest South (-21.8)
3 13	Jupiter 0.1S of Moon Occn	22 11 Mercury stationary	15 10	Mercury stationary	27 5 Neptune at conjunction
4 13	Regulus 1.7S of Moon	22 20 NEW MOON	October	d h	
4 18	Moon at apogee	25 7 Uranus 4.0N of Moon	1 17	Moon at perigee	16 23 Jupiter 3.8S of Moon
7 9	Neptune 2.8S of Moon	25 10 Aldebaran 1.5S of Moon	2 4	FULL MOON	17 5 NEW MOON
8 17	FULL MOON	26 12 Saturn 2.1N of Moon	3 4	Mars 2.4N of Spica	18 0 Mars 4.7S of Moon
12 9	Mercury greatest elong E(19)	27 22 Moon furthest North (21.2)	6 6	Aldebaran 1.9S of Moon	18 8 Mercury 3.0N of Spica
13 6	Jupiter stationary	28 7 Mars 3.1N of Moon	6 13	Uranus 3.3N of Moon	19 22 Venus 4.9S of Moon
15 2	Moon furthest South (-21.1)	29 23 Pluto 5.1N of Moon	7 15	Mercury 0.3N of Neptune	20 22 Mercury superior conjunction
16 4	LAST QUARTER	30 6 FIRST QUARTER	8 15	Saturn 0.4N of Moon Occn	20 25 Saturn stationary
19 14	Pluto stationary	30 21 Jupiter 0.4S of Moon Occn	8 18	Moon furthest North (21.9)	23 11 Moon furthest South (-22.0)
20 14	Moon at perigee		9 1	LAST QUARTER	24 22 FIRST QUARTER
May	d h		11 0	Pluto 4.2N of Moon	28 23 Mercury 0.3S of Mars
1 21	Regulus 1.9S of Moon	22 19 Uranus 3.9N of Moon	12 15	Regulus 2.5S of Moon	30 1 Venus 3.4N of Antares
2 11	Moon at apogee	22 20 Aldebaran 1.6S of Moon	14 3	Jupiter 3.1S of Moon	30 2 Moon at perigee
4 16	Mercury inferior conjunction	24 3 Saturn 1.8N of Moon	14 14	Moon at apogee	31 13 FULL MOON
4 15	Neptune 2.9S of Moon	25 7 Moon furthest North (21.4)	November	d h	
8 7	FULL MOON	27 0 Mars 1.2N of Moon	1 17	Aldebaran 2.0S of Moon	16 2 Mars 4.3S of Moon
9 7	Mars 5.0S of Pollux	27 8 Pluto 4.3N of Moon	2 22	Uranus 3.2N of Moon	15 22 NEW MOON
12 9	Mercury 0.6S of Venus	28 13 Jupiter 0.3S of Moon Occn	5 0	Saturn 0.2N of Moon Occn	16 11 Mercury 2.6N of Antares
12 8	Moon furthest South (-21.3)	29 5 Regulus 2.1S of Moon	5 3	Moon furthest North (22.1)	17 6 Mercury 5.3S of Moon
14 23	Mercury stationary	29 21 Mercury greatest elong W(25)	7 8	Moon at perigee	19 1 Venus 3.4S of Moon
15 11	LAST QUARTER	30 0 FIRST QUARTER	7 18	LAST QUARTER	19 17 Moon furthest South (-22.2)
17 21	Moon at perigee	30 6 Moon at conjunction	8 22	Regulus 2.8S of Moon	20 27 FIRST QUARTER
20 14	Mercury 1.6N of Moon	31 11 Uranus at opposition	10 20	Jupiter 3.4S of Moon	27 3 Moon at perigee
21 11	Venus 3.8N of Moon	31 22 Neptune 3.1S of Moon	11 3	Moon at apogee	30 0 FULL MOON
22 6	NEW MOON	31 22 Uranus 5.4N of Aldebaran	11 23	Neptune 3.5S of Moon	30 3 Aldebaran 2.1S of Moon
June	d h		13 16	Pluto stationary	30 6 Uranus 3.1N of Moon
3 9	Mars 4.1S of Pluto	20 18 Saturn 1.5N of Moon	14 18	Mars at conjunction	
5 16	Venus 5.1N of Aldebaran	21 13 Solstice	December	d h	
5 22	Moon 0.3S of Uranus	21 16 Moon furthest North (21.5)	2 7	Saturn 0.1N of Moon Occn	16 26 Mercury 0.8S of Moon Occn
6 18	FULL MOON	21 17 Saturn at conjunction	2 12	Moon furthest North (22.2)	16 23 Moon furthest South (-22.3)
12 15	Moon furthest South (-21.4)	23 23 Venus 1.2N of Saturn	3 9	Uranus at opposition	18 23 Venus 0.3S of Moon Occn
12 21	Moon at perigee	23 17 Mars 0.6S of Moon Occn	4 17	Pluto 4.1N of Moon	21 23 Solstice
13 15	LAST QUARTER	25 3 Jupiter 1.4S of Moon	4 19	Mercury greatest elong E(21)	22 15 FIRST QUARTER
16 18	Mercury 4.2N of Aldebaran	25 13 Regulus 2.2S of Moon	6 6	Regulus 2.9S of Moon	23 3 Mercury inferior conjunction
17 6	Mercury 1.1S of Uranus	27 0 Moon at apogee	7 14	Venus superior conjunction	23 11 Moon at perigee
19 4	Aldebaran 1.6S of Moon	27 3 Venus superior conjunction	8 4	Mars 4.3N of Antares	27 12 Aldebaran 2.2S of Moon
19 6	Uranus 3.8N of Moon	27 13 Mercury 6.8N of Saturn	8 11	Jupiter 3.6S of Moon	27 13 Uranus 3.2N of Moon
19 13	Mercury 2.9N of Moon	28 6 Neptune 3.3S of Moon	8 22	Moon at apogee	29 3 Saturn at opposition
20 17	NEW MOON	28 17 FIRST QUARTER	9 8	Neptune 3.6S of Moon	29 5 Mercury 3.6N of Mars
			13 10	Mercury stationary	29 13 Saturn 0.3N of Moon Occn
			14 20	Mars 3.3 of Moon	29 14 FULL MOON Eclipse
			15 14	NEW MOON	29 22 Moon furthest North (22.3)

Астрономические явления 1941			July		
January	d h		d h		
3 16	Earth at perihelion	18 1 Mars 4.6N of Antares	1 2	Neptune 1.3N of Moon	19 8 Uranus 4.4N of Moon
5 13	FIRST QUARTER	18 18 Neptune 1.9N of Moon	4 4	FIRST QUARTER	20 4 Aldebaran 0.6S of Moon Occn
6 4	Moon at apogee	19 8 Moon at perigee	2 21	Mercury inferior conjunction	20 10 Jupiter 4.3N of Moon
7 8	Jupiter 1.4N of Moon	19 22 Spica 3.7S of Moon	3 2	Spica 4.4S of Moon	21 23 Moon furthest North (18.4)
7 12	Saturn 0.3N of Moon Occn	20 10 LAST QUARTER	3 3	Earth at aphelion	22 16 Mercury 2.3N of Moon
8 17	Uranus 3.4N of Moon	23 10 Mars 4.6S of Moon	5 0	Jupiter 4.8N of Aldebaran	24 4 Mercury greatest elong W(20)
10 1	Aldebaran 1.0S of Moon Occn	23 13 Pluto at opposition	5 5	Venus 2.8S of Pluto	24 7 NEW MOON
10 10	Saturn stationary	24 15 Moon furthest South (-18.4)	6 1	Moon at perigee	26 8 Venus 1.1N of Regulus
11 9	Mercury superior conjunction	25 19 Venus 5.0S of Moon	7 19	Moon furthest South (-18.4)	26 10 Regulus 2.6N of Moon
11 15	Moon furthest North (18.4)	27 11 NEW MOON	10 2	FULL MOON	26 10 Uranus 3.7N of Moon
13 11	FULL MOON	28 10 Mercury 5.1S of Moon	12 23	Mercury stationary	27 8 Pluto at conjunction
16 2	Regulus 3.4N of Moon	30 7 Uranus stationary	14 23	Mars 2.5S of Moon	28 9 Neptune 1.1N of Moon Occn
February	d h		16 8	LAST QUARTER	30 8 Spica 4.6S of Moon
1 1	Moon at apogee	14 20 Moon at perigee	17 23	Moon at apogee	31 9 FIRST QUARTER
3 20	Jupiter 1.9N of Moon	15 6 Jupiter 1.3N of Saturn	19 2	Saturn 2.4N of Moon	
3 21	Saturn 0.7N of Moon Occn	16 4 Spica 3.8S of Moon	August	d h	
4 11	FIRST QUARTER	16 21 Mercury stationary	1 21	Moon at perigee	18 9 Moon furthest North (18.3)
5 1	Uranus 3.6N of Moon	18 18 LAST QUARTER	4 4	Moon furthest South (-18.3)	19 1 Mercury superior conjunction
6 10	Aldebaran 0.8S of Moon Occn	20 21 Moon furthest South (-18.2)	7 5	FULL MOON	20 17 Mercury 1.3N of Regulus
8 1	Moon furthest North (18.3)	21 2 Mars 5.5S of Moon	8 10	Mercury 3.3S of Pluto	22 18 NEW MOON
10 18	Mercury greatest elong E(18)	24 23 Venus 4.4S of Moon	12 8	Mars 2.0S of Moon	22 18 Regulus 2.6N of Moon
12 0	FULL MOON	26 3 NEW MOON	14 0	Venus 1.3N of Spica	23 2 NEW MOON Eclipse
12 10	Regulus 3.3N of Moon	26 4 Mercury 1.6N of Moon	15 1	LAST QUARTER	24 17 Neptune 0.9N of Moon Occn
14 9	Neptune 1.8N of Moon	26 12 Mercury inferior conjunction	15 13	Saturn 2.5N of Moon	25 8 Venus 0.4S of Moon
March	d h		15 18	Uranus 4.6N of Moon	26 14 Spica 4.6S of Moon
2 20	Moon at apogee	17 7 Neptune at opposition	16 12	Aldebaran 0.4S of Moon Occn	27 1 Moon at perigee
3 9	Saturn 1.0N of Moon Occn	20 2 LAST QUARTER	17 4	Jupiter 4.3N of Moon	29 14 FIRST QUARTER
3 12	Jupiter 2.4N of Moon	21 0 Moon furthest South (-18.2)	17 21	Venus 0.3S of Neptune	31 10 Moon furthest South (-18.2)
4 10	Mercury 4.3N of Venus	20 0 Equinox	September	d h	
4 10	Uranus 3.6N of Moon	21 19 Mars 5.7S of Moon	5 2	Mercury 0.7S of Neptune	14 17 Moon furthest North (18.2)
5 19	Aldebaran 0.6S of Moon Occn	25 8 Mercury 3.5S of Moon	5 17	FULL MOON	19 3 Regulus 2.6N of Moon
6 7	FIRST QUARTER	25 18 Mercury greatest elong W(28)	5 18	Uranus stationary	20 19 Neptune at conjunction
7 11	Moon furthest North (18.2)	27 7 Venus 1.5S of Moon	6 16	Mars stationary	21 4 Neptune 0.8N of Moon Occn
10 21	Mercury stationary	27 20 NEW MOON	6 18	Venus 1.3N of Spica	22 18 NEW MOON Eclipse
11 21	Regulus 3.2N of Moon	30 9 Moon at apogee	11 3	Saturn stationary	22 22 Mercury 0.4N of Spica
13 11	FULL MOON	30 21 Saturn 1.4N of Moon	11 12	Moon at apogee	22 22 Spica 4.7S of Moon
13 18	Neptune 1.8N of Moon	31 5 Jupiter 2.9N of Moon	11 23	Saturn 2.5N of Moon	23 9 Moon at perigee
14 21	Moon at perigee	31 19 Uranus 3.9N of Moon	12 2	Uranus 4.6N of Moon	23 10 Equinox
15 12	Spica 3.8S of Moon		12 20	Aldebaran 0.4S of Moon Occn	24 2 Venus 4.8S of Moon
April	d h		13 18	Jupiter 4.6N of Moon	27 16 Moon furthest South (-18.2)
2 2	Aldebaran 0.6S of Moon Occn	19 7 Venus superior conjunction	13 19	LAST QUARTER	27 20 FIRST QUARTER
3 18	Moon furthest North (18.2)	19 14 Mars 5.3S of Moon	October	d h	
5 0	FIRST QUARTER	25 11 Mercury 0.2N of Moon Occn	3 0	Mercury greatest elong E(26)	13 12 LAST QUARTER
8 7	Regulus 3.2N of Moon	26 12 Moon at apogee	3 7	Mars nearest to Earth	15 11 Mercury stationary
10 3	Neptune 1.8N of Moon	26 13 NEW MOON	5 16	Regulus 3.2N of Moon	16 13 FULL MOON
11 21	FULL MOON	26 17 Venus 0.2N of Moon	9 21	Mars 1.4S of Moon	18 14 Venus 2.2N of Antares
11 23	Spica 4.0S of Moon	27 10 Saturn 1.6N of Moon	9 5	Moon at apogee	18 16 Neptune 0.6N of Moon Occn
12 7	Moon at perigee	28 0 Jupiter 3.3N of Moon	9 9	Saturn 2.4N of Moon	20 8 Spica 4.7S of Moon
15 4	Pluto stationary	28 4 Uranus 3.9N of Moon	9 5	Uranus 4.6N of Moon	20 14 NEW MOON
16 10	Moon furthest South (-18.2)	29 8 Aldebaran 0.7S of Moon Occn	10 3	Aldebaran 0.4S of Moon Occn	21 14 Moon at perigee
18 13	LAST QUARTER		10 8	Jupiter stationary	24 24 Moon furthest South (-18.3)
May	d h		10 12	Mars at opposition	27 9 Mercury inferior conjunction
1 0	Moon furthest North (18.3)	11 17 Venus 0.5N of Jupiter	11 4	Jupiter 4.3N of Moon	27 5 FIRST QUARTER
4 8	Venus 1.3N of Saturn	13 20 Moon furthest South (-18.3)	12 1	Moon furthest North (18.3)	
4 12	FIRST QUARTER	17 12 Uranus at conjunction	November</		

Краткий астрономический календарь на 1942 год
(конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Краткий астрономический календарь на 1943 год
(конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Астрономические явления 1942			
January		July	
d h	d h	d h	d h
1 23 Moon furthest North (18.6)	22 4 Mercury 6.0S of Venus	3 22 Venus 0.1N of Saturn	15 22 Mars 2.6N of Moon
2 2 Neptune stationary	23 23 Saturn stationary	5 9 LAST QUARTER	16 16 Regulus 1.0N of Moon
2 15 FULL MOON	24 6 FIRST QUARTER	5 13 Venus 3.8N of Aldebaran	18 5 Mercury 0.4S of Jupiter
2 18 Earth at perihelion	24 12 Mars 5.2N of Moon	6 0 Earth at aphelion	18 22 Neptune 0.7S of Moon
6 10 Regulus 1.9N of Moon	25 4 Mercury greatest elong E(18)	6 10 Mercury greatest elong W(21)	20 20 Spica 5.7S of Moon
9 10 Neptune 0.1N of Moon	25 4 Pluto at opposition	9 12 Uranus 4.9N of Moon	21 5 FIRST QUARTER
10 5 LAST QUARTER	25 18 Saturn 2.6N of Moon	10 22 Saturn 3.7N of Aldebaran	21 23 Saturn 3.7N of Aldebaran
10 12 Spica 5.2S of Moon	26 4 Uranus 4.7N of Moon	10 20 Aldebaran 0.4S of Moon	25 5 Mercury 5.8S of Pollux
11 1 Venus stationary	26 17 Moon at apogee	10 12 Venus 3.6N of Moon	26 22 Moon furthest South (-18.9)
14 21 Moon at perigee	27 5 Aldebaran 0.3S of Moon	11 1 Moon at apogee	26 8 Moon at perigee
15 9 Moon furthest South (-18.6)	27 10 Jupiter 4.6N of Moon	11 15 Mercury 2.8N of Moon	27 19 FULL MOON
16 21 NEW MOON	29 8 Moon furthest North (18.6)	12 7 Moon furthest North (18.9)	29 2 Pluto at conjunction
18 2 Mercury 4.0S of Moon	31 11 Mercury stationary	12 9 Jupiter 4.2N of Moon	30 19 Mars 0.8N of Regulus
18 14 Venus 2.3N of Moon		13 11 NEW MOON	31 18 Mercury 3.1S of Pluto
February		August	
d h	d h	d h	d h
1 9 FULL MOON	14 15 Mercury 1.1N of Moon	2 2 Venus 0.4S of Jupiter	12 22 Regulus 1.0N of Moon
2 17 Regulus 1.8N of Moon	15 10 NEW MOON	2 23 Mercury superior conjunction	12 23 Mercury 2.0N of Moon
2 17 Venus inferior conjunction	22 2 Mercury stationary	3 23 LAST QUARTER	13 14 Mars 0.8N of Moon
5 0 Neptune 0.1S of Moon	22 9 Saturn 2.9N of Moon	5 21 Uranus 5.1N of Moon	15 15 Neptune 0.8S of Moon
5 13 Jupiter stationary	22 12 Uranus 4.8N of Moon	6 7 Aldebaran 0.3S of Moon	15 11 FIRST QUARTER
6 17 Spica 5.3S of Moon	22 14 Venus stationary	6 9 Saturn 3.4N of Moon	15 19 Mercury 0.0N of Mars
8 14 LAST QUARTER	23 3 FIRST QUARTER	7 12 Moon at apogee	22 2 Venus 4.2S of Pluto
8 23 Mercury inferior conjunction	23 14 Mercury 0.2S of Moon	8 15 Moon furthest North (18.9)	22 7 Moon furthest South (-18.9)
11 12 Moon at perigee	23 14 Moon at apogee	9 4 Jupiter 4.0N of Moon	23 8 Moon at perigee
11 18 Moon furthest South (-18.5)	23 19 Jupiter 4.9N of Moon	9 20 Venus 3.5N of Moon	26 3 FULL MOON
14 1 Venus 5.0N of Moon	25 17 Moon furthest North (18.5)	10 23 NEW MOON	30 12 Mercury 1.7S of Neptune
		12 13 Mercury 1.1N of Regulus	
March		September	
d h	d h	d h	d h
1 14 Mars 1.6N of Uranus	19 18 Neptune at opposition	2 5 Uranus 5.1N of Moon	13 8 Spica 6.0S of Moon
2 1 Regulus 1.8N of Moon	21 6 Equinox	2 14 Aldebaran 0.2S of Moon	15 14 Mercury greatest elong E(27)
3 0 FULL MOON	21 17 Saturn 3.1N of Moon	2 15 LAST QUARTER	16 10 Mars 0.5S of Neptune
4 6 Neptune 0.1S of Moon	21 22 Uranus 4.9N of Moon	2 20 Saturn 3.4N of Moon	17 16 FIRST QUARTER
5 23 Spica 5.4S of Moon	22 22 Aldebaran 0.2S of Moon	4 5 Moon at apogee	18 14 Moon furthest South (-18.9)
8 1 Mercury greatest elong W(27)	23 9 Jupiter 4.9N of Moon	4 22 Moon furthest North (18.9)	19 12 Moon at perigee
8 11 Moon at perigee	23 10 Moon at apogee	5 2 Jupiter 3.7N of Moon	20 3 Mercury 1.2S of Spica
9 22 LAST QUARTER	25 0 FIRST QUARTER	4 4 Venus 1.7N of Moon	23 6 Neptune at conjunction
11 1 Moon furthest South (-18.5)	25 1 Moon furthest North (18.5)	9 5 Regulus 0.9N of Moon	23 16 Equinox
11 16 Venus 2.0N of Moon	20 9 Regulus 1.7N of Moon	9 19 Venus 0.7N of Regulus	24 14 FULL MOON
14 20 Mercury 2.9S of Moon	31 14 Neptune 0.0N of Moon	10 7 Uranus stationary	25 9 Saturn stationary
16 23 NEW MOON		11 7 Mars 1.1S of Moon	29 13 Uranus 5.0N of Moon
		11 13 Neptune 0.9S of Moon	29 22 Aldebaran 0.3S of Moon
		12 19 Mercury 5.7S of Moon	30 5 Saturn 3.2N of Moon
April		October	
d h	d h	d h	d h
1 12 FULL MOON	18 8 Uranus 4.8N of Moon	2 0 Moon at apogee	14 4 Moon at perigee
2 8 Spica 5.4S of Moon	19 5 Aldebaran 0.4S of Moon	2 6 Moon furthest North (18.9)	15 3 Mercury 1.8S of Venus
3 18 Mars 1.7N of Jupiter	20 2 Jupiter 4.8N of Moon	2 10 LAST QUARTER	15 19 Moon furthest South (-19.0)
4 5 Moon at perigee	20 3 Moon at apogee	10 15 NEW MOON	16 23 FIRST QUARTER
4 4 Moon furthest South (-18.5)	20 9 Mercury superior conjunction	4 19 Venus 0.2N of Neptune	19 11 Mercury stationary
4 8 LAST QUARTER	21 9 Moon furthest North (18.6)	5 8 Mercury 1.1S of Spica	22 12 Mars 2.6S of Spica
11 16 Venus 0.2N of Moon	23 18 FIRST QUARTER	6 0 Mars at conjunction	23 5 Venus 3.3N of Spica
13 22 Venus greatest elong W(46)	25 20 Regulus 1.6N of Moon	6 14 Regulus 0.9N of Moon	24 0 Venus 0.7N of Mars
15 2 Mercury 1.7N of Moon	27 18 Spica 5.4S of Moon	8 23 Neptune 1.0S of Moon	24 4 FULL MOON
15 14 NEW MOON	29 23 Saturn 3.0N of Moon	9 9 Venus 1.3S of Moon	26 20 Uranus 4.9N of Moon
16 23 Pluto stationary	30 21 FULL MOON	10 1 Mars 2.7S of Moon	26 21 Mercury greatest elong W(18)
18 6 Saturn 3.1N of Moon		10 4 NEW MOON	27 7 Aldebaran 0.5S of Moon
		10 7 Mercury 5.6S of Moon	27 12 Saturn 3.0N of Moon
		10 15 Spica 5.9S of Moon	29 14 Moon furthest North (19.1)
		11 1 Mercury inferior conjunction	29 20 Moon at apogee
		11 23 Mercury 2.2S of Mars	31 3 Jupiter 3.2N of Moon
May		November	
d h	d h	d h	d h
2 6 Moon at perigee	18 16 Moon furthest North (18.8)	1 5 LAST QUARTER	7 1 FIRST QUARTER
3 13 Saturn 1.6S of Uranus	18 19 Mercury greatest elong E(22)	2 11 Mercury 4.1N of Spica	16 12 Venus superior conjunction
4 13 Moon furthest South (-18.7)	19 11 Mars 5.6N of Moon	2 23 Regulus 0.7N of Moon	22 20 FULL MOON
4 20 Mercury 2.0N of Uranus	22 3 Uranus at conjunction	5 11 Neptune 1.2S of Moon	23 1 Uranus 4.8N of Moon
4 22 Mercury 3.8N of Saturn	23 4 Regulus 1.4N of Moon	7 14 Mercury 2.6S of Moon	23 14 Aldebaran 0.6S of Moon
11 7 LAST QUARTER	23 9 FIRST QUARTER	7 22 Mars 4.0S of Moon	23 15 Saturn 2.9N of Moon
11 7 Venus 0.6N of Moon	23 17 Saturn at conjunction	8 11 Mars 4.0S of Moon	23 15 Uranus at opposition
15 5 NEW MOON	25 8 Neptune 0.2S of Moon	8 15 NEW MOON	25 22 Moon furthest North (19.3)
15 18 Uranus 4.7N of Moon	27 4 Spica 5.6S of Moon	10 16 Pluto stationary	26 14 Moon at apogee
15 20 Saturn 3.2N of Moon	30 5 FULL MOON	10 17 Moon at perigee	27 10 Jupiter 3.0N of Moon
16 12 Aldebaran 0.5S of Moon	30 15 Moon at perigee	10 20 Mercury 1.0N of Mars	28 19 Venus 4.6N of Antares
17 14 Moon at apogee	31 20 Mercury stationary	12 2 Moon furthest South (-19.2)	30 7 Regulus 0.5N of Moon
17 20 Jupiter 4.7N of Moon	31 23 Moon furthest South (-18.8)		
June		December	
d h	d h	d h	d h
2 20 Mars 5.3S of Pollux	17 5 Mars 4.2N of Moon	1 1 LAST QUARTER	21 4 Uranus 4.9N of Moon
5 21 LAST QUARTER	19 10 Regulus 1.2N of Moon	1 2 Mercury superior conjunction	20 17 Saturn 3.1N of Moon
8 23 Neptune stationary	21 4 Mars 3.4S of Pluto	1 13 Mercury 3.7N of Antares	20 20 Aldebaran 0.5S of Moon
10 7 Venus 2.3N of Moon	21 15 Neptune 0.5S of Moon	1 20 Saturn at opposition	22 11 Solstice
12 3 Uranus 4.8N of Moon	21 20 FIRST QUARTER	2 8 Saturn 3.5N of Aldebaran	22 15 FULL MOON
12 9 Saturn 3.2N of Moon	21 1 Solstice	2 2 Neptune 1.5S of Moon	23 6 Moon furthest North (19.4)
12 18 Aldebaran 0.5S of Moon	23 13 Spica 5.8S of Moon	6 15 Mars 4.8S of Moon	23 22 Moon at apogee
12 20 Mercury inferior conjunction	24 15 Mercury at conjunction	8 1 NEW MOON	24 12 Jupiter 3.1N of Moon
13 18 Mercury 1.4N of Moon	25 16 Jupiter at conjunction	8 11 Venus 4.9S of Moon	27 14 Regulus 0.3N of Moon
13 19 Moon at apogee	28 1 Moon at perigee	9 0 Moon at perigee	28 10 Mars 4.5N of Antares
14 11 NEW MOON	28 12 Moon furthest South (-18.9)	9 12 Moon furthest South (-19.3)	30 6 Neptune 1.7S of Moon
14 14 Jupiter 4.8N of Moon	28 12 FULL MOON	12 2 Mercury 1.3S of Venus	30 18 LAST QUARTER
14 23 Moon furthest North (18.9)	30 3 Venus 1.6S of Uranus		

Астрономические явления 1943			
January		July	
d h	d h	d h	d h
2 9 Earth at perihelion	16 20 Saturn 3.3N of Moon	2 12 Moon furthest North (20.0)	17 22 Moon at perigee
4 11 Mars 5.0S of Moon	16 22 Mercury 2.8N of Venus	12 1 NEW MOON	18 3 Mercury superior conjunction
4 13 Neptune stationary	17 2 Aldebaran 0.4S of Moon	7 Jupiter 1.9N of Moon	20 0 Mercury 1.3N of Jupiter
6 1 Moon furthest South (-19.4)	19 13 Moon furthest North (19.4)	4 Earth at aphelion	23 21 Mercury 3.3S of Pluto
6 12 Moon at perigee	19 22 Moon at apogee	4 21 Moon at apogee	24 4 LAST QUARTER
6 19 NEW MOON	20 11 Jupiter 3.4N of Moon	6 16 Regulus 0.6S of Moon	25 1 Mars 3.5N of Moon
7 2 Venus 3.7S of Moon	21 10 FULL MOON	6 16 Uranus 4.8S of Moon	27 5 Aldebaran 0.6S of Moon
7 20 Mercury 2.8S of Moon	23 20 Regulus 0.2N of Moon	9 5 Neptune 2.2S of Moon	28 7 Saturn 2.9N of Moon
8 13 Mercury greatest elong E(19)	24 18 Mercury inferior conjunction	10 16 FIRST QUARTER	29 19 Moon furthest North (20.0)
11 7 Jupiter at opposition	26 12 Neptune 1.7S of Moon	16 13 Moon furthest South (-20.0)	30 12 Jupiter at conjunction
13 7 FIRST QUARTER	26 22 Pluto at opposition	17 2 Mercury 5.3S of Pollux	30 21 Pluto at conjunction
15 9 Mercury stationary	29 8 LAST QUARTER	17 12 FULL MOON	
16 10 Uranus 5.0N of Moon			
February		August	
d h	d h	d h	d h
2 6 Mars 4.4S of Moon	13 2 Saturn 3.5N of Moon	1 1 Jupiter 1.3N of Moon	18 21 Mercury 5.7N of Venus
2 13 Moon furthest South (-19.4)	13 9 Aldebaran 0.4S of Moon	1 1 Pluto 5.9N of Moon	22 16 LAST QUARTER
3 15 Mercury 0.4N of Moon	15 21 Moon furthest North (19.4)	1 3 Moon at apogee	22 17 Mars 3.6N of Moon
3 23 Moon at perigee	16 8 Moon at apogee	1 4 NEW MOON	23 11 Aldebaran 0.6S of Moon
4 23 NEW MOON	16 12 Jupiter 3.6N of Moon	1 8 Jupiter 4.6S of Pluto	23 11 Uranus 4.7N of Moon
5 12 Mercury stationary	18 14 Mercury greatest elong W(26)	2 14 Mercury 0.6N of Moon	24 18 Saturn 2.7N of Moon
6 9 Venus 0.5S of Moon	20 2 Regulus 0.1N of Moon	4 21 Regulus 0.7S of Moon	25 2 Moon furthest North (20.0)
6 17 Saturn stationary	20 5 FULL MOON	21 Mercury 0.7N of Regulus	27 19 Mercury 3.4S of Neptune
8 2 Uranus stationary	22 17 Neptune 1.7S of Moon	5 12 Neptune 2.3S of Moon	28 7 Moon at apogee
8 2 FIRST QUARTER	27 18 LAST QUARTER	9 3 FIRST QUARTER	28 9 Pluto 5.9N of Moon
12 16 Uranus 5.1N of Moon		13 0 Moon furthest South (-20.0)	28 20 Jupiter 0.8N of Moon
		13 7 Venus stationary	29 1 Regulus 0.8S of Moon
		15 8 Moon at perigee	30 4 Regulus 0.7S of Moon
		15 19 FULL MOON	30 19 NEW MOON
March		September	
d h	d h	d h	d h
1 21 Moon furthest South (-19.4)	15 17 Jupiter 3.7N of Moon	1 20 Neptune 2.3S of Moon	21 7 LAST QUARTER
3 2 Mars 3.3S of Moon	16 2 Moon at apogee	5 22 Venus greatest elong W(9)	22 8 Moon furthest North (20.1)
4 6 Moon at perigee	19 9 Regulus 0.0N of Moon	5 23 Venus inferior conjunction	23 19 Mercury 4.3S of Neptune
4 18 Mercury 2.0S of Moon	21 12 Equinox	7 12 FIRST QUARTER	23 22 Equinox
6 10 NEW MOON	21 22 FULL MOON	9 9 Moon furthest South (-20.1)	24 17 Mercury inferior conjunction
8 10 Uranus 5.2N of Moon	22 22 Neptune 1.7S of Moon	20 23 FIRST QUARTER	24 17 Pluto 5.9N of Moon
12 1 Jupiter stationary	22 12 Neptune at opposition	10 5 Mars 4.2N of Aldebaran	24 19 Moon at apogee
12 11 Uranus 5.1N of Moon	29 1 LAST QUARTER	11 6 Mercury stationary	25 13 Jupiter 0.2N of Moon
12 12 Saturn 3.5N of Moon	29 4 Moon furthest South (-19.5)	12 17 Moon at perigee	25 14 Jupiter 2.2N of Moon
12 17 Aldebaran 0.4S of Moon	31 16 Moon at perigee	13 3 FULL MOON	25 18 Neptune at conjunction
13 19 FIRST QUARTER	31 21 Mars 1.7S of Moon	14 22 Uranus stationary	26 11 Regulus 0.8S of Moon
15 4 Moon furthest North (19.4)		19 19 Aldebaran 0.7S of Moon	28 18 Mercury 4.9S of Moon
April		April	
d h	d h	d h	d h
4 8 Mercury superior conjunction	15 18 Regulus 0.1S of Moon	4 8 Mercury superior conjunction	15 18 Regulus 0.1S of Moon
4 21 NEW MOON	17 22 Venus 1.4N of Uranus	4 23 Mercury 3.1N of Moon	18 5 Neptune 1.7S of Moon
7 14 Venus 5.8N of Moon	18 18 Pluto stationary	7 14 Venus 5.8N of Moon	18 18 Pluto stationary
8 12 Uranus 4.9N of Moon	20 11 FULL MOON	8 12 Uranus 4.9N of Moon	20 11 FULL MOON
9 1 Aldebaran 0.6S of Moon	24 18 Venus 3.0N of Saturn	9 1 Aldebaran 0.6S of Moon	24 18 Venus 3.0N of Saturn
10 4 Saturn 4.0N of Aldebaran	25 9 Moon furthest South (-19.7)	10 4 Saturn 4.0N of Aldebaran	25 9 Moon furthest South (-19.7)
11 12 Moon furthest North (19.6)	27 7 LAST QUARTER	11 12 Moon furthest North (19.6)	27 7 LAST QUARTER
12 4 Jupiter 3.4N of Moon	29 16 Mars 0.0N of Moon	12 4 Jupiter 3.4N of Moon	29 16 Mars 0.0N of Moon
12 15 FIRST QUARTER	30 20 Mercury greatest elong E(21)	12 15 FIRST QUARTER	30 20 Mercury greatest elong E(21)
12 22 Moon at apogee			
May		May	
d h	d h	d h	d h
4 9 NEW MOON	15 13 Neptune 1.8S of Moon	4 9 NEW MOON	15 13 Neptune 1.8S of Moon
4 20 Mercury 2.7N of Uranus	18 12 Mercury 0.2N of Uranus	4 20 Mercury 2.7N of Uranus	18 12 Mercury 0.2N of Uranus
5 23 Uranus 4.8N of Moon	19 21 FULL MOON	5 23 Uranus 4.8N of Moon	19 21 FULL MOON
6 10 Aldebaran 0.7S of Moon	22 14 Moon at perigee	6 10 Aldebaran 0.7S of Moon	22 14 Moon at perigee
6 16 Saturn 3.3N of Moon	22 16 Moon furthest South (-19.9)	6 16 Saturn 3.3N of Moon	22 16 Moon furthest South (-19.9)
8 20 Moon furthest North (19.8)	23 14 Mercury inferior conjunction	8 20 Moon furthest North (19.8)	23 14 Mercury inferior conjunction
9 19 Jupiter 3.0N of Moon	26 13 LAST QUARTER	9 19 Jupiter 3.0N of Moon	26 13 LAST QUARTER
10 15 Venus 4.8N of Moon	26 19 Uranus at conjunction	10 15 Venus 4.8N of Moon	26 19 Uranus at conjunction
12 9 FIRST QUARTER	31 11 Mars 1.6N of Moon	12 9 FIRST QUARTER	31 11 Mars 1.6N of Moon
12 18 Mercury stationary	31 12 Venus 4.2S of Pollux	12 18 Mercury stationary	31 12 Venus 4.2S of Pollux
13 2 Regulus 0.3S of Moon		13 2 Regulus 0.3S of Moon	
June		June	
d h	d h	d h	d h
1 19 Mercury 1.4N of Moon	12 18 Venus 2.9S of Pluto	1 19 Mercury 1.4N of Moon	12 18 Venus 2.9S of Pluto
2 2 Venus 2.0N of Jupiter	18 5 FULL MOON	2 2 Venus 2.0N of Jupiter	18 5 FULL MOON
2 10 Uranus 4.7N of Moon	18 6 Mercury greatest elong W(23)	2 10 Uranus 4.7N of Moon	18 6 Mercury greatest elong W(23)
2 17 Aldebaran 0.8S of Moon	19 2 Moon furthest South (-20.0)	2 17 Aldebaran 0.8S of Moon	19 2 Moon furthest South (-20.0)
2 22 NEW MOON	19 14 Moon at perigee	2 22 NEW MOON	19 14 Moon at perigee
3 6 Saturn 3.1N of Moon	20 19 Mercury 3.0S of Uranus	3 6 Saturn 3.1N of Moon	20 19 Mercury 3.0S of Uranus
4 18 Mercury stationary	22 7 Solstice	4 18 Mercury stationary	22 7 Solstice
5 5 Moon furthest North (20.0)	23 7 Mercury 2.7N of Aldebaran	5 5 Moon furthest North (20.0)	23 7 Mercury 2.7N of Aldebaran
6 12 Jupiter 2.4N of Moon	24 20 LAST QUARTER	6 12 Jupiter 2.4N of Moon	24 20 LAST QUARTER
6 21 Venus 4.0N of Moon	26 6 Mars 2.8N of Moon	6 21 Venus 4.0N of Moon	26 6 Mars 2.8N of Moon
7 9 Moon at apogee	28 0 Venus greatest elong E(45)	7 9 Moon at apogee	28 0 Venus greatest elong E(45)
7 15 Saturn at conjunction	29 19 Uranus 4.7N of Moon	7 15 Saturn at conjunction	29 19 Uranus 4.7N of Moon
9 10 Regulus 0.5S of Moon	29 23 Aldebaran 0.7S of Moon	9 10 Regulus 0.5S of Moon	29 23 Aldebaran 0.7S of Moon
11 2 FIRST QUARTER	30 4 Mercury 0.1S of Saturn	11 2 FIRST QUARTER	30 4 Mercury 0.1S of Saturn
11 10 Neptune stationary	30 19 Saturn 3.0N of Moon	11 10 Neptune stationary	30 19 Saturn 3.0N of Moon
11 21 Neptune 2.0S of Moon	30 21 Mercury 5.0N of Moon	11 21 Neptune 2.0S of Moon	30 21 Mercury 5.0N of Moon
December		December	
d h	d h	d h	d h
1 10 Moon at perigee	17 17 Jupiter 0.8S of Moon	1 10 Moon at perigee	17 17 Jupiter 0.8S of Moon
2 1 Venus 4.2N of Spica	17 11 Regulus 1.4S of Moon	2 1 Venus 4.2N of Spica	17 11 Regulus 1.4S of Moon
4 11 FIRST QUARTER	19 10 LAST QUARTER	4 11 FIRST QUARTER	19 10 LAST QUARTER
5 18 Mars 2.8S of Moon	20 10 Mercury 3.8S of Moon	5 18 Mars 2.8S of Moon	20 10 Mercury 3.8S of Moon
10 17 Uranus 4.4N of Moon	22 17 Mercury greatest elong E(20)	10 17 Uranus 4.4N of Moon	22 17 Mercury greatest elong E(20)
10 22 Aldebaran 1.1S of Moon	22 17 Solstice	10 22 Aldebaran 1.1S of Moon	22 17 Solstice
11 16 FULL MOON	23 20 Venus 2.6S of Moon	11 16 FULL MOON	23 20 Venus 2.6S of Moon
12 1 Saturn 2.2N of Moon	27 3 NEW MOON	12 1 Saturn 2.2N of Moon	27 3 NEW MOON
12 15 Moon furthest North (20.7)	27 11 Mercury furthest South (-20.7)	12 15 Moon furthest North (20.7)	27 11 Mercury furthest South (-20.7)
14 10 Jupiter stationary	28 11 Mercury stationary	14 10 Jupiter stationary	28 11 Mercury stationary
15 17 Pluto 5.9N of Moon	29 2 Moon at perigee	15 17 Pluto	

Краткий астрономический календарь на 1946 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Краткий астрономический календарь на 1947 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Table with columns for month (January to June), day, and astronomical events (planets, moon phases, conjunctions, oppositions, etc.).

Table with columns for month (July to December), day, and astronomical events (planets, moon phases, conjunctions, oppositions, etc.).

Table with columns for month (January to June), day, and astronomical events (planets, moon phases, conjunctions, oppositions, etc.).

Table with columns for month (July to December), day, and astronomical events (planets, moon phases, conjunctions, oppositions, etc.).

Краткий астрономический календарь на 1952 год
(конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Астрономические явления 1952			
January		July	
d h	d h	d h	d h
2 19	Mars 0.2N of Neptune	1 0	Neptune stationary
3 9	Uranus at opposition	1 8	Neptune 6.0N of Moon
3 16	Jupiter 4.2S of Moon	1 16	Spica 2.3N of Moon
4 4	FIRST QUARTER	2 13	Mars 3.8N of Moon
4 18	Earth at perihelion	3 8	Earth at aphelion
5 22	Mars 3.9N of Spica	3 16	Venus 0.4N of Uranus
6 13	Mercury greatest elong W(23)	3 5 1	Antares 0.3N of Moon
10 1	Moon furthest North (28.0)	3 5 6	Moon furthest South (-27.1)
11 10	Uranus 3.5S of Moon	6 8	Uranus at conjunction
12 5	Moon at apogee	12 12	FULL MOON
12 8	Pollux 3.5N of Moon	8 11	Moon at perigee
		10 14	Venus 5.7S of Pollux
		14 3	LAST QUARTER
February		August	
d h	d h	d h	d h
2 20	FIRST QUARTER	1 19	Antares 0.8N of Moon
6 6	Moon furthest North (28.1)	2 11	Moon furthest South (-27.7)
7 14	Uranus 3.6S of Moon	5 19	FULL MOON
8 8	Moon at apogee	5 20	Moon at perigee
8 14	Pollux 3.5N of Moon	9 7	Venus 1.0N of Regulus
10 3	Pluto at opposition	12 13	LAST QUARTER
10 3	FULL MOON	12 18	Mercury inferior conjunction
11 16	Regulus 0.3N of Moon	14 1	Pluto at conjunction
15 22	Neptune 5.8N of Moon	15 6	Moon furthest North (27.8)
16 1	Spica 2.1N of Moon	17 16	Pollux 4.2N of Moon
		19 11	Moon at apogee
March		September	
d h	d h	d h	d h
3 15	FIRST QUARTER	3 6	Moon at perigee
4 13	Moon furthest North (28.1)	5 4	Uranus stationary
5 19	Uranus 3.6S of Moon	6 22	Mercury 0.8N of Regulus
6 21	Pollux 3.5N of Moon	10 0	Jupiter stationary
6 23	Moon at apogee	11 2	LAST QUARTER
9 23	Regulus 0.4N of Moon	11 10	Mars 2.3N of Antares
11 18	FULL MOON	11 12	Moon furthest North (27.7)
14 2	Neptune 5.7N of Moon	13 12	Uranus 2.4S of Moon
14 6	Spica 2.1N of Moon	13 22	Pollux 4.2N of Moon
17 17	Antares 0.6N of Moon	15 9	Venus 1.5S of Saturn
18 4	Uranus stationary	15 19	Moon at apogee
18 20	Moon furthest South (-28.1)	17 1	Regulus 1.2N of Moon
April		October	
d h	d h	d h	d h
1 10	Saturn at opposition	1 13	Moon at perigee
2 3	Uranus 3.5S of Moon	3 12	FULL MOON
2 8	FIRST QUARTER	3 12	Mercury 1.7S of Saturn
3 5	Pollux 3.6N of Moon	6 0	Mercury 1.3S of Neptune
3 18	Moon at apogee	7 6	Mercury 2.2N of Spica
5 10	Mercury inferior conjunction	8 21	Moon furthest North (27.5)
6 2	Regulus 0.4N of Moon	10 9	LAST QUARTER
6 6	Neptune at opposition	10 21	Uranus 2.2S of Moon
10 8	FULL MOON	11 5	Pollux 4.4N of Moon
10 8	Neptune 5.7N of Moon	11 8	Saturn at conjunction
10 13	Spica 2.0N of Moon	13 9	Moon at apogee
13 22	Antares 0.3N of Moon	14 8	Regulus 1.3N of Moon
15 2	Moon furthest South (-27.9)		
May		November	
d h	d h	d h	d h
1 1	Mars at opposition	1 23	FULL MOON
1 14	Moon at apogee	5 6	Moon furthest North (27.3)
2 3	FIRST QUARTER	7 6	Uranus 2.0S of Moon
3 7	Pluto stationary	7 14	Pollux 4.6N of Moon
3 13	Mercury greatest elong W(27)	8 21	Jupiter at opposition
3 15	Regulus 0.6N of Moon	8 20	Mercury 1.8N of Antares
5 16	Venus 0.3S of Jupiter	9 15	LAST QUARTER
7 16	Neptune 5.7N of Moon	10 1	Mercury greatest elong E(23)
7 22	Spica 2.1N of Moon	10 5	Moon at apogee
8 14	Mars nearest to Earth	10 16	Regulus 1.3N of Moon
9 4	Mars 5.2N of Moon	15 2	Spica 2.5N of Moon
9 20	FULL MOON	17 12	NEW MOON
11 6	Antares 0.3N of Moon	18 13	Antares 0.0N of Moon
June		December	
d h	d h	d h	d h
4 0	Neptune 5.8N of Moon	1 12	FULL MOON
4 7	Spica 2.3N of Moon	2 14	Moon furthest North (27.2)
4 13	Mercury 0.4N of Venus	4 13	Uranus 1.8S of Moon
4 22	Mars 3.9N of Moon	4 22	Pollux 4.8N of Moon
4 22	Mercury 5.6N of Aldebaran	5 11	Neptune 3.7N of Spica
5 5	Venus 5.1N of Aldebaran	8 0	Regulus 1.8N of Moon
7 15	Antares 0.3N of Moon	8 2	Moon at apogee
8 5	FULL MOON	9 13	LAST QUARTER
8 16	Moon furthest South (-27.7)	10 5	Mercury stationary
12 2	Mercury superior conjunction	12 11	Spica 2.7N of Moon
10 6	Moon at perigee	15 22	Antares 0.0N of Moon
11 0	Mars stationary		
11 14	Saturn stationary		
14 20	LAST QUARTER		

Краткий астрономический календарь на 1949 год
(конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Астрономические явления 1949			
January		July	
d h	d h	d h	d h
1 3	Jupiter at conjunction	17 20	Mercury greatest elong E(19)
3 12	Earth at perihelion	20 10	Neptune 0.2N of Moon
2 0	Moon at apogee	20 22	Spica 2.3S of Moon
7 11	FIRST QUARTER	21 14	LAST QUARTER
8 0	Mercury 0.7S of Mars	24 6	Mercury stationary
13 0	Uranus 4.0S of Moon	24 9	Antares 1.4S of Moon
13 13	Moon furthest North (27.9)	26 7	Venus 0.0N of Jupiter
14 18	Pollux 1.8N of Moon	26 9	Moon furthest South (-27.9)
14 21	FULL MOON	27 7	Jupiter 4.8N of Moon
16 8	Pluto 3.0N of Moon	27 9	Venus 4.8N of Moon
17 2	Neptune stationary	28 13	Mercury 3.6N of Mars
17 3	Moon at perigee	29 2	NEW MOON
17 6	Regulus 3.9S of Moon	30 0	Mars 3.6N of Moon
17 16	Saturn 2.4S of Moon		
February		August	
d h	d h	d h	d h
2 1	Moon at apogee	14 16	Mercury stationary
2 18	Mercury inferior conjunction	16 17	Neptune 0.4N of Moon
4 12	Pluto at opposition	17 7	Spica 2.5S of Moon
6 7	FIRST QUARTER	20 0	LAST QUARTER
9 9	Uranus 4.1S of Moon	20 15	Antares 1.2S of Moon
9 22	Moon furthest North (28.0)	21 18	Saturn at opposition
11 5	Pollux 1.7N of Moon	22 14	Moon furthest South (-28.1)
12 18	Pluto 3.1N of Moon	25 10	Mercury 5.2N of Moon
13 9	FULL MOON	26 17	Venus 3.3N of Moon
13 16	Regulus 3.8S of Moon	27 20	NEW MOON
13 23	Saturn 2.4S of Moon	28 5	Mars 2.3N of Moon
14 9	Moon at perigee	28 7	Mercury greatest elong W(27)
March		September	
d h	d h	d h	d h
1 11	Moon at apogee	16 17	Spica 2.4S of Moon
5 4	Uranus stationary	17 10	Mars at conjunction
8 0	FIRST QUARTER	19 22	Antares 1.0S of Moon
8 17	Uranus 4.3S of Moon	20 20	Equinox
9 7	Moon furthest North (28.2)	21 13	LAST QUARTER
10 15	Pollux 1.5N of Moon	21 20	Moon furthest South (-28.3)
12 4	Pluto 3.1N of Moon	23 15	Jupiter 5.1N of Moon
13 5	Regulus 3.8S of Moon	28 14	Mercury 0.6N of Moon
13 7	Saturn 2.4S of Moon	28 12	Moon at apogee
14 18	FULL MOON	29 4	Venus 0.6N of Moon
14 20	Moon at perigee	29 9	Mars 1.0N of Moon
16 3	Neptune 0.3N of Moon	29 15	NEW MOON
April		October	
d h	d h	d h	d h
2 1	Venus 0.6S of Mars	13 4	Spica 2.3S of Moon
3 21	Neptune at opposition	13 4	Mercury superior conjunction
5 1	Uranus 4.4S of Moon	16 7	Antares 1.0S of Moon
5 14	Moon furthest North (28.3)	16 22	Venus superior conjunction
6 12	FIRST QUARTER	18 4	Moon furthest South (-28.3)
6 23	Pollux 1.4S of Moon	20 23	LAST QUARTER
8 13	Pluto 2.9N of Moon	20 5	Jupiter 5.0N of Moon
8 19	Neptune 5.7S of Mars	24 22	Moon at apogee
9 14	Regulus 3.8S of Moon	27 12	Mars 0.7S of Moon
9 23	Saturn 2.8S of Moon	28 4	Uranus stationary
12 4	Mercury 0.3N of Venus	28 8	NEW MOON
12 7	Moon at perigee	28 14	Venus 2.1S of Moon
12 13	Neptune 0.6N of Moon	29 20	Mercury 0.6S of Moon
13 4	FULL MOON		
May		November	
d h	d h	d h	d h
1 17	Saturn stationary	17 16	Jupiter 4.9N of Moon
2 8	Uranus 4.4S of Moon	19 19	LAST QUARTER
2 20	Moon furthest North (28.3)	20 20	Jupiter stationary
4 5	Pollux 1.4N of Moon	21 9	Venus 5.6N of Aldebaran
5 20	Pluto 2.8N of Moon	22 14	Moon at apogee
5 21	FIRST QUARTER	23 11	Mercury stationary
6 21	Regulus 3.9S of Moon	26 14	Mars 2.3S of Moon
6 22	Saturn 2.6S of Moon	27 9	Mercury 0.8S of Venus
6 22	Neptune 0.3N of Moon	27 22	NEW MOON
10 14	Moon at perigee	28 16	Mercury 4.8S of Moon
10 14	Spica 2.2S of Moon	28 20	Venus 3.7S of Moon
10 19	Mercury greatest elong E(21)	29 17	Uranus 4.4S of Moon
12 12	FULL MOON	30 1	Moon furthest North (28.2)
13 18	Antares 1.0S of Moon	31 11	Pollux 1.6N of Moon
15 13	Moon furthest South (-28.2)		
June		December	
d h	d h	d h	d h
2 1	Pluto 2.8N of Moon	19 8	Moon at apogee
3 3	Regulus 3.8S of Moon	21 18	Solstice
3 9	Saturn 2.5S of Moon	22 12	Neptune at conjunction
3 22	Mercury inferior conjunction	24 10	Mars 5.6N of Aldebaran
4 3	FIRST QUARTER	24 11	Uranus stationary
6 4	Neptune 0.6N of Moon	24 13	Mars 3.6S of Moon
6 22	Spica 2.1S of Moon	25 20	Venus 5.3S of Pollux
7 5	Moon at perigee	26 3	Uranus 4.4S of Moon
7 7	Venus 0.6N of Uranus	26 8	Moon furthest North (28.1)
10 3	Antares 1.0S of Moon	26 9	NEW MOON
10 21	FULL MOON	27 17	Pollux 1.7N of Moon
11 22	Moon furthest South (-28.2)	27 22	Saturn 0.5N of Moon
13 1	Mercury 1.3N of Aldebaran	28 10	Mercury greatest elong W(22)
13 23	Jupiter 4.7N of Moon	30 8	Pluto 3.0N of Moon
15 22	Mercury stationary	30 8	Regulus 3.6S of Moon
18 12	LAST QUARTER	30 14	Saturn 2.2S of Moon
18 20	Mercury 1.2N of Aldebaran		
July		January	
d h	d h	d h	d h
2 21	Moon at perigee	23 16	Moon furthest North (28.2)
3 0	Earth at aphelion	25 2	Pollux 1.7N of Moon
3 8	FIRST QUARTER	25 16	Mercury 3.3S of Moon
10	Neptune 0.7N of Moon	25 19	NEW MOON
4 6	Spica 2.3S of Moon	25 22	Venus 1.1N of Regulus
7 11	Antares 0.9S of Moon	26 17	Pluto 3.1N of Moon
9 6	Moon furthest South (-28.2)	26 21	Mercury superior conjunction
10 7	FULL MOON	27 7	Mars 0.3N of Uranus
11 3	Jupiter 4.3N of Moon	27 16	Regulus 3.4S of Moon
11 4	Mercury 0.8S of Uranus	27 19	Venus 2.2S of Moon
12 2	Moon at apogee	28 2	Saturn 1.9S of Moon
18 6	LAST QUARTER	29 1	Moon at perigee
20	Jupiter at opposition	30 16	Neptune 0.3N of Moon
21 16	Mercury 5.8S of Pollux	31 0	Mars 0.1S of Saturn
23 11	Mars 4.2S of Moon	31 10	Spica 1.8S of Moon
23 15	Uranus 4.5S of Moon		
August		February	
d h	d h	d h	d h
1 12	FIRST QUARTER	12 12	Pollux 1.6N of Moon
1 23	Mercury 5.9S of Pluto	21 4	Pluto 3.2N of Moon
3 17	Antares 0.8S of Moon	21 8	Neptune 3.4S of Moon
5 12	Moon furthest South (-28.3)	24 3	NEW MOON
7 4	Jupiter 4.3N of Moon	24 16	Saturn 1.6S of Moon
8 19	FULL MOON	25 21	Mercury 2.5S of Moon
8 23	Mercury 4.0N of Regulus	25 23	Moon at perigee
10 22	Pluto at conjunction	26 10	Mars 4.8S of Pollux
13 10	Mercury 0.6S of Saturn	26 15	Venus 0.4S of Moon
13 19	Moon at apogee	27 1	Neptune 1.1N of Moon
16 22	LAST QUARTER	27 16	Antares 0.6S of Moon
20 1	Moon furthest North (28.4)	30 19	FIRST QUARTER
20 3	Uranus 4.7S of Moon	30 22	Antares 0.5S of Moon
21 6	Mars 4.3S of Moon	31 21	Venus 1.2S of Neptune
September		March	
d h	d h	d h	d h
1 17	Moon furthest South (-28.5)	10 12	Regulus 3.4S of Moon
2 7	Saturn at conjunction	20 22	Mercury stationary
3 9	Uranus 4.8N of Moon	21 8	Saturn 1.3S of Moon
7 10	FULL MOON	22 12	NEW MOON
7 21	Mercury greatest elong E(27)	23 4	Moon at perigee
8 22	Venus 1.3N of Spica	23 9	Equinox
10 6	Mercury 4.4S of Neptune	23 12	Neptune 1.3N of Moon
10 10	Moon at apogee	23 18	Mercury 3.7S of Moon
15 14	LAST QUARTER	24 2	Spica 1.5S of Moon
16 9	Moon furthest North (28.5)	25 9	Venus 1.0N of Moon
16 13	Uranus 4.2S of Moon	25 12	Antares 0.5S of Moon
17 21	Pollux 1.5N of Moon	26 23	Moon furthest South (-28.5)
18 18	Jupiter stationary	29 4	FIRST QUARTER
18 23	Mars 3.8S of Moon	29 22	Mercury 4.8S of Neptune
19 16	Pluto 3.3N of Moon	30 11	Jupiter 4.7N of Moon
October		April	
d h	d h	d h	d h
3 29	Mercury inferior conjunction	15 15	Mercury greatest elong W(16)
2 7	FULL MOON	20 15	Mercury 3.3N of Moon
7 17	Moon at apogee	21 1	Neptune 1.4N of Moon
8 13	Neptune at conjunction	21 13	Spica 1.5S of Moon
11 5	Uranus stationary	21 15	Moon at perigee
12 3	Mercury stationary	21 21	NEW MOON
13 17	Moon furthest North (28.6)	24 15	Antares 0.5S of Moon
13 21	Uranus 4.9S of Moon	25 3	Venus 1.7N of Moon
15 4	LAST QUARTER	25 12	Mars 1.1N of Regulus
15 5	Pollux 1.4N of Moon	25 14	Mercury 0.9N of Neptune
17 3	Pluto 3.4N of Moon	26 7	Moon furthest South (-28.5)
17 14	Mars 2.7S of Moon	27 22	Jupiter 4.6N of Moon
17 22	Regulus 3.4S of Moon	28 17	FIRST QUARTER
18 8	Venus 2.1N of Antares	30 13	Mercury 3.9N of Spica
19 0	Saturn 1.0S of Moon		
November		May	
d h	d h	d h	d h
3 18	Moon at apogee	19 2	Moon at perigee
5 21	FULL MOON	20 5	Mercury 3.1N of Moon
9 22	Moon furthest North (28.5)	20 7	NEW MOON
12	Uranus 4.8S of Moon	20 15	Venus greatest elong E(47)
11 12	Neptune 1.8N of Moon	21 8	Antares 0.5S of Moon
13 10	Pluto 3.6N of Moon	21 22	Mercury superior conjunction
13 15	LAST QUARTER	22 17	Moon furthest South (-28.4)
14 6	Regulus 3.3S of Moon	23 8	Pluto stationary
15 1	Mars 1.2S of Moon	23 14	Venus 2.0N of Moon
15 13	Saturn 0.6S of Moon	24 14	Moon furthest North (28.6)
18 0	Neptune 1.7N of Moon	27 0	FIRST QUARTER
		28 3	Mercury 3.5N of Antares

Краткий астрономический календарь на 1950 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Table with columns for month, day, time (d, h), and astronomical events for 1950. Includes sections for January through June, with sub-columns for day and time.

Краткий астрономический календарь на 1951 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Table with columns for month, day, time (d, h), and astronomical events for 1951. Includes sections for January through December, with sub-columns for day and time.

Краткий астрономический календарь на 1956 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Астрономические явления 1956	
January	February
d h 1 16 Regulus 5.4N of Moon 2 16 Earth at perihelion 4 22 LAST QUARTER 5 17 Spica 2.2N of Moon 6 6 Neptune 5.5N of Moon 8 10 Mars 2.3N of Moon 8 16 Saturn 3.5N of Moon 9 12 Antares 3.9S of Moon 10 6 Moon furthest South (-22.8) 11 7 Moon at apogee 11 13 Mercury greatest elong E(19) 13 3 NEW MOON 14 7 Mars 1.5S of Saturn 14 18 Mercury 4.2S of Moon	d h 1 23 Neptune stationary 2 0 Spica 2.0N of Moon 2 14 Neptune 5.4N of Moon 3 16 LAST QUARTER 3 16 Saturn 3.2N of Moon 5 18 Antares 4.1S of Moon 6 7 Mars 0.2N of Moon 6 12 Moon furthest South (-22.6) 7 19 Moon at apogee 8 6 Mercury stationary 9 21 Mercury 1.1S of Moon 11 21 NEW MOON 15 6 VENUS 5.2S of Moon
March	April
d h 3 13 Saturn 3.0N of Moon 4 2 Antares 4.3S of Moon 4 11 LAST QUARTER 4 20 Moon furthest South (-22.4) 6 5 Mars 2.1S of Moon 6 13 Moon at apogee 12 11 Saturn stationary 12 13 NEW MOON 16 2 Venus 1.1S of Moon 18 7 Aldebaran 5.6S of Moon 18 22 Moon furthest North (22.3)	d h 1 4 Moon furthest South (-22.2) 3 8 LAST QUARTER 3 10 Moon at apogee 4 3 Mars 4.3S of Moon 5 13 Uranus stationary 6 3 Mercury superior conjunction 11 2 NEW MOON 11 13 Mercury 3.4S of Moon 12 17 Venus greatest elong E(46) 14 13 Aldebaran 5.5S of Moon 14 14 Venus 3.6N of Moon 15 4 Moon furthest North (22.1)
May	June
d h 1 5 Moon at apogee 2 13 Mercury greatest elong E(21) 3 2 LAST QUARTER 10 13 NEW MOON 11 0 Pluto stationary 11 20 Mercury 1.9N of Moon 12 11 Aldebaran 5.4S of Moon 12 11 Moon furthest North (22.0) 13 1 Moon at perigee 15 0 Mercury stationary 15 7 Uranus 4.8N of Moon 17 5 FIRST QUARTER	d h 17 10 Regulus 5.6N of Moon 17 18 Mercury inferior conjunction 21 10 Spica 1.6N of Moon 21 20 Neptune 5.1N of Moon 24 7 Saturn 3.0N of Moon 24 15 FULL MOON Eclipse 25 2 Antares 4.7S of Moon 25 20 Moon furthest South (-22.0) 26 0 Mercury inferior conjunction 28 20 Moon at apogee 31 11 Venus stationary
July	August
d h 1 8 LAST QUARTER 3 10 Jupiter 0.8N of Regulus 3 18 Mercury 3.3N of Venus 4 21 Earth at aphelion 5 17 Aldebaran 5.2S of Moon 6 8 Moon furthest North (21.9) 6 16 Venus 3.2S of Moon 7 4 Mercury 1.8N of Moon 8 4 NEW MOON 11 Moon at perigee 9 5 Uranus 4.7N of Moon 9 22 Neptune stationary 11 Regulus 5.3N of Moon 13 20 Venus stationary	d h 2 Aldebaran 5.1S of Moon 2 18 Moon furthest North (21.8) 3 12 Venus 2.9S of Moon 5 8 Mercury 0.8N of Regulus 5 18 Uranus 4.8N of Moon 5 21 Moon at perigee 6 11 NEW MOON 7 11 Regulus 5.4N of Moon 7 22 Jupiter 6.0N of Moon 9 17 Mercury 0.2S of Jupiter 11 6 Spica 1.3N of Moon 11 14 Neptune 5.3N of Moon 11 18 Mars stationary
September	October
d h 1 12 Venus 1.1N of Moon 2 7 Uranus 5.0N of Moon 3 4 Moon at perigee 3 22 Regulus 5.5N of Moon 4 16 Jupiter at conjunction 4 18 Jupiter 5.9N of Moon 4 18 NEW MOON 6 16 Mercury 0.7N of Moon 7 5 Mars nearest to Earth 7 15 Spica 1.1N of Moon 8 0 Neptune 4.8N of Moon 10 6 Saturn 2.3N of Moon 10 22 Mars at opposition 11 4 Antares 5.2S of Moon	d h 1 2 Moon at perigee 1 7 Regulus 5.5N of Moon 2 14 Jupiter 5.8N of Moon 3 6 Mercury 4.1N of Moon 4 4 NEW MOON 4 20 Mercury stationary 5 1 Spica 1.1N of Moon 5 10 Venus 0.4S of Regulus 5 12 Neptune 4.3N of Moon 6 4 NEW MOON 8 13 Antares 5.4S of Moon 9 6 Moon furthest South (-21.3) 11 18 FIRST QUARTER 12 7 Mercury greatest elong W(18) 12 22 Mars stationary
November	December
d h 1 10 Spica 1.0N of Moon 1 23 Neptune 4.2N of Moon 3 3 Mercury 3.8N of Moon 2 16 NEW MOON 4 9 Saturn 1.4N of Moon 4 22 Antares 5.5S of Moon 5 15 Moon furthest South (-21.2) 5 18 Moon at apogee 10 15 FIRST QUARTER 12 11 Uranus stationary 12 21 Mercury superior conjunction 18 6 FULL MOON Eclipse 19 5 Aldebaran 4.6S of Moon 2 9 Moon furthest North (21.2)	d h 2 Saturn 1.0N of Moon 2 6 Antares 5.5S of Moon 2 8 NEW MOON 3 0 Moon furthest South (-21.2) 3 7 Mercury 4.1S of Moon 7 13 Pluto stationary 7 15 Moon at apogee 10 11 FIRST QUARTER 11 15 Mars 4.6S of Moon 16 15 Aldebaran 4.5S of Moon 17 7 Moon furthest North (21.2) 17 19 FULL MOON 19 13 Moon at perigee 20 12 Uranus 5.4N of Moon

Краткий астрономический календарь на 1953 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Астрономические явления 1953	
January	February
d h 1 6 Pollux 4.8N of Moon 2 7 Earth at perihelion 4 8 Regulus 1.9N of Moon 4 22 Moon at apogee 5 19 Jupiter stationary 7 2 Uranus at opposition 8 10 LAST QUARTER 8 20 Spica 2.8N of Moon 12 9 Antares 0.1N of Moon 17 7 Moon furthest South (-27.2) 14 17 Mercury 1.4N of Moon 15 14 NEW MOON	d h 16 23 Moon at perigee 17 20 Venus 0.2N of Mars 18 21 Mars 3.5S of Moon 18 22 Venus 3.3S of Moon 22 5 FIRST QUARTER 25 17 Neptune stationary 26 2 Moon furthest North (27.2) 27 23 Uranus 1.9S of Moon 28 13 Pollux 4.9N of Moon 29 23 FULL MOON 31 13 Venus greatest elong E(47) 31 14 Regulus 2.0N of Moon
March	April
d h 2 3 Mercury greatest elong E(18) 4 10 Spica 2.8N of Moon 2 8 Antares 0.1N of Moon 8 17 Mercury stationary 8 18 LAST QUARTER 9 1 Moon furthest South (-27.2) 14 21 Moon at perigee 15 11 NEW MOON 15 19 Mercury 0.3S of Moon 17 16 Mars 5.0S of Moon 17 21 Venus 1.5N of Moon 18 10 Neptune 3.8N of Spica 18 13 Mercury inferior conjunction	d h 19 3 Jupiter 5.9S of Moon 20 21 Saturn 20 21 Moon furthest North (27.1) 22 3 Venus stationary 22 8 FIRST QUARTER 22 22 Uranus stationary 23 9 Uranus 1.8S of Moon 24 19 Pollux 5.1N of Moon 27 18 Moon at apogee 30 12 FULL MOON 31 1 Mercury stationary 31 15 Spica 2.8N of Moon
May	June
d h 1 13 Antares 0.3S of Moon 2 2 Venus stationary 2 13 Moon furthest South (-26.8) 5 10 Pluto stationary 6 12 LAST QUARTER 10 4 Moon at perigee 10 16 Venus 3.6S of Moon 13 5 NEW MOON 13 20 Jupiter 5.2S of Moon 14 0 Mars 3.6S of Moon 15 8 Moon furthest North (26.7) 17 4 Uranus 1.3S of Moon	d h 17 17 Pollux 5.5N of Moon 17 18 Saturn 1.0N of Neptune 20 17 Regulus 2.5N of Moon 20 18 FIRST QUARTER 21 18 Moon at apogee 24 13 Mercury superior conjunction 24 18 Mercury 1.1N of Jupiter 25 3 Jupiter at conjunction 25 6 Spica 2.9N of Moon 28 17 FULL MOON 28 20 Antares 0.4S of Moon 29 19 Moon furthest South (-26.7)
July	August
d h 1 1 Moon at perigee 1 12 Neptune stationary 2 LAST QUARTER 17 Earth at aphelion 10 Jupiter 4.6S of Moon 20 Mars at conjunction 8 23 Moon furthest North (26.7) 10 21 Mercury stationary 11 Mars 0.4S of Moon 12 NEW MOON 11 2 Uranus 0.9S of Moon 11 9 Uranus at conjunction 11 10 Pollux 5.7N of Moon 12 15 Mars 0.6N of Uranus 12 16 Mercury 2.7S of Moon	d h 14 16 Mercury 3.4S of Moon 16 19 Mars 4.6S of Moon 17 7 Venus 1.9S of Moon 20 17 FIRST QUARTER 22 7 Moon furthest North (27.2) 24 3 Uranus 1.9S of Moon 24 19 Pollux 5.0N of Moon 27 21 Regulus 2.0N of Moon 28 13 Moon at apogee 28 18 FULL MOON
September	October
d h 2 3 LAST QUARTER 4 8 Mercury stationary 5 2 Jupiter 4.2S of Moon 5 5 Moon furthest North (26.7) 6 2 Venus 4.2S of Moon 6 21 Saturn 4.4N of Spica 7 16 Pollux 5.7N of Moon 8 3 Mercury 3.0S of Moon 8 19 Mars 1.4N of Moon 9 16 NEW MOON 10 16 Regulus 2.7N of Moon 13 6 Moon at apogee 13 10 Mercury greatest elong W(19)	d h 15 6 Spica 3.1N of Moon 16 2 Pluto at conjunction 17 20 FIRST QUARTER 18 23 Antares 0.3S of Moon 19 21 Moon furthest South (-26.6) 21 20 Saturn 4.4N of Spica 22 12 Venus 1.9S of Uranus 23 10 Mercury 0.1S of Mars 24 20 FULL MOON 25 18 Moon at perigee 30 12 Mercury 1.2N of Regulus 31 10 LAST QUARTER
November	December
d h 2 Moon at apogee 3 Mars 5.8N of Moon 23 Mercury stationary 5 0 Spica 2.9N of Moon 6 7 Venus 3.3N of Spica 6 17 Antares 0.8S of Moon 7 6 Venus 0.1S of Neptune 7 23 Mercury 2.5N of Moon 8 18 Antares 0.8S of Moon 9 16 Moon furthest South (-26.1) 13 21 Venus 0.8S of Saturn 14 7 FIRST QUARTER	d h 15 2 Jupiter stationary 15 22 Jupiter at conjunction 17 7 Neptune at conjunction 21 15 Moon at perigee 22 FULL MOON 23 10 Saturn at conjunction 26 21 Jupiter 3.3S of Moon 26 20 Saturn furthest North (26.2) 28 11 Jupiter 3.3S of Moon 28 12 Uranus 0.0N of Moon 29 13 LAST QUARTER 29 16 Uranus stationary 31 11 Regulus 3.1N of Moon
December	January
d h 1 8 LAST QUARTER 2 6 Antares 5.5S of Moon 2 8 NEW MOON 3 0 Moon furthest South (-21.2) 3 7 Mercury 4.1S of Moon 7 13 Pluto stationary 7 15 Moon at apogee 10 11 FIRST QUARTER 11 15 Mars 4.6S of Moon 16 15 Aldebaran 4.5S of Moon 17 7 Moon furthest North (21.2) 17 19 FULL MOON 19 13 Moon at perigee 20 12 Uranus 5.4N of Moon	d h 21 22 Solstice 21 Regulus 5.6N of Moon 24 7 Jupiter 5.6N of Moon 24 10 LAST QUARTER 24 17 Mercury greatest elong E(20) 25 22 Spica 0.8N of Moon 25 15 Neptune 4.8N of Moon 26 19 Venus 0.5S of Saturn 27 3 Venus 5.7N of Moon 29 12 Saturn at conjunction 29 8 Neptune 4.1N of Moon 29 14 Venus 4.1N of Moon

Краткий астрономический календарь на 1954 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Table with columns for month (January to December), day (d), hour (h), and astronomical event. Includes events like Mercury 3.6S of Moon, Venus 1.2S of Saturn, Earth at perihelion, etc.

Краткий астрономический календарь на 1955 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Table with columns for month (January to December), day (d), hour (h), and astronomical event. Includes events like Saturn 6.0N of Moon, Earth at perihelion, Jupiter at opposition, etc.

Краткий астрономический календарь на 1958 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Астрономические явления 1958		July	
January	d h	d h	d h
1	Aldebaran 2.9S of Moon	1	Mercury 4.8S of Pollux
1	Earth at perihelion	1	FULL MOON
2	Moon furthest North (19.7)	4	Venus 3.9N of Aldebaran
5	Mars 4.6N of Antares	5	Earth at aphelion
5	Mercury stationary	8	Moon at apogee
5	FULL MOON	8	Jupiter 1.5N of Moon
6	Venus stationary	9	LAST QUARTER
7	Uranus 5.7N of Moon	9	Mars 2.8S of Moon
8	Regulus 5.2N of Moon	11	Mercury 0.7N of Uranus
9	Moon at perigee	13	Aldebaran 2.1S of Moon
12	LAST QUARTER	14	Venus 0.7N of Moon Occn
12	Spica 0.8S of Moon	14	Mars 1.5S of Saturn
13	Jupiter 1.9N of Moon	20	Moon at apogee
13	Neptune 2.0N of Moon	28	FIRST QUARTER
		28	Venus inferior conjunction
		30	Uranus at opposition
		31	Aldebaran 2.7S of Moon
		31	Moon furthest North (19.5)
			August
		4	Uranus at conjunction
		5	Moon at apogee
		7	Mars 1.1S of Moon
		7	LAST QUARTER
		7	Mercury stationary
		9	Aldebaran 1.9S of Moon
		10	Moon furthest North (18.9)
		13	Venus 5.2N of Moon
		14	Uranus 5.4N of Moon
		15	NEW MOON
		15	Regulus 4.6N of Moon
		16	Mercury 0.8S of Moon
		17	Moon at perigee
			September
		1	Mercury stationary
		2	Moon at apogee
		4	Mars 0.5N of Moon
		5	Mercury 1.7S of Venus
		6	Aldebaran 1.7S of Moon
		6	LAST QUARTER
		7	Moon furthest North (18.8)
		8	Venus 0.7N of Regulus
		9	Mercury greatest elong W(18)
		10	Mercury 0.0N of Regulus
		10	Uranus 5.4N of Moon
		12	Regulus 4.6N of Moon
		12	Mercury 4.8N of Moon
		12	Venus 5.1N of Moon
		12	Saturn 2.7S of Moon
			October
		2	Mars 1.7N of Moon
		3	Aldebaran 1.7S of Moon
		4	Moon furthest North (18.7)
		5	Mercury 2.0S of Neptune
		6	LAST QUARTER
		8	Uranus 5.5N of Moon
		9	Regulus 4.6N of Moon
		9	Mars stationary
		12	Mercury 2.8N of Spica
		12	Venus 2.4N of Moon
		12	NEW MOON
		13	Moon at perigee
		13	Spica 2.1S of Moon
		13	Mercury 0.2N of Moon
		13	Neptune 0.7N of Moon
			November
		4	LAST QUARTER
		4	Moon furthest North (18.7)
		5	Jupiter at conjunction
		5	Regulus 4.6N of Moon
		6	Venus 0.1S of Jupiter
		8	Mars nearest to Earth
		9	Spica 2.2S of Moon
		9	Neptune 0.8N of Moon
		10	Moon at perigee
		10	Jupiter 1.0S of Moon
		11	NEW MOON
		11	Venus 1.6S of Moon
		11	Venus superior conjunction
		11	Mercury 2.1N of Antares
			December
		2	Uranus 5.3N of Moon
		3	Regulus 4.5N of Moon
		4	LAST QUARTER
		7	Spica 2.4S of Moon
		7	Mercury 1.0N of Venus
		7	Neptune 0.3N of Moon
		8	Jupiter 6S of Moon
		8	Moon at perigee
		10	Mercury inferior conjunction
		10	Mercury 2.5S of Moon
		10	NEW MOON
		11	Moon furthest South (-18.8)
		11	Venus 5.1S of Moon
		11	Saturn 3.6S of Moon
		12	Venus 1.5S of Saturn

Краткий астрономический календарь на 1959 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Астрономические явления 1959		July	
January	d h	d h	d h
2	Earth at perihelion	1	Neptune 0.5S of Moon
2	LAST QUARTER	1	Jupiter 2.7S of Moon
3	Spica 2.5S of Moon	17	Moon furthest North (18.5)
3	Neptune 0.1N of Moon	17	Earth at aphelion
4	Mercury 2.1S of Moon	18	NEW MOON
5	Uranus 5.1N of Moon	18	Venus 0.0N of Regulus
5	Moon at perigee	19	Mercury 4.0N of Moon
7	Moon furthest South (-18.7)	19	Uranus 4.7N of Moon
7	Mercury 3.3S of Moon	20	Mercury greatest elong E(26)
7	Saturn 3.8S of Moon	21	Venus 4.7N of Moon
9	NEW MOON	21	Regulus 3.8N of Moon
11	Mercury 0.7S of Saturn	21	Moon at perigee
11	FIRST QUARTER	21	Uranus 3.2N of Moon
		21	Mercury 1.6S of Uranus
		21	Aldebaran 0.9S of Moon
		21	Mercury 5.5S of Uranus
			August
		1	Moon furthest North (18.4)
		4	Mercury 0.9S of Moon
		4	Uranus 4.3N of Moon
		5	Mercury inferior conjunction
		5	Regulus 3.8N of Moon
		6	Mars 3.1N of Moon
		6	Venus 2.8S of Moon
		6	Venus 4.7N of Moon
		9	Spica 3.7S of Moon
		11	Uranus at conjunction
		10	Neptune 0.8S of Moon
		11	FIRST QUARTER
			September
		1	Venus greatest elong W(9)
		1	Saturn stationary
		1	Uranus 4.4N of Moon
		2	Mercury 4.8N of Moon
		3	Regulus 4.8N of Moon
		3	NEW MOON
		4	Mars 1.2N of Moon
		4	Mercury 1.1N of Regulus
		5	Saturn stationary
		6	Spica 3.7S of Moon
		6	Neptune 0.8S of Moon
		7	Mercury superior conjunction
		7	Uranus 4.3N of Moon
		7	Jupiter at conjunction
		7	FIRST QUARTER
			October
		2	NEW MOON
		3	Mars 0.7S of Moon
		3	Mercury 1.5S of Moon
		3	Spica 3.8S of Moon
		4	Neptune 1.4S of Moon
		4	Mercury 1.9N of Spica
		4	Moon at perigee
		6	Jupiter 3.7S of Moon
		6	Mercury 1.4S of Moon
		8	Saturn 4.5S of Moon
		9	FIRST QUARTER
		9	Mars 2.5N of Spica
		12	Mercury 2.8S of Neptune
		16	FULL MOON
			November
		2	Moon at perigee
		2	Jupiter 5.1N of Antares
		2	Jupiter 4.0S of Moon
		3	Mercury greatest elong E(23)
		4	Moon furthest South (-18.3)
		4	Saturn 4.8S of Moon
		6	Mercury 3.3S of Jupiter
		7	FIRST QUARTER
		11	Mercury 2.1N of Antares
		12	Venus greatest elong W(47)
		14	Mercury stationary
		15	FULL MOON
		16	Aldebaran 0.8S of Moon
		16	Mercury 1.8N of Antares
		17	Moon at apogee
		17	Mercury 2.0S of Jupiter
		18	Moon furthest North (18.4)
			December
		1	Venus 4.2N of Spica
		1	LAST QUARTER
		2	Saturn 4.4S of Moon
		3	Mercury stationary
		3	Jupiter at conjunction
		5	FIRST QUARTER
		6	Mercury greatest elong W(21)
		12	Aldebaran 0.8S of Moon
		14	Moon at apogee
		14	Venus 0.7N of Neptune
		15	Mercury 4.7S of Moon
		15	NEW MOON
		15	Moon furthest North (18.5)
		16	Mars 4.4N of Antares
		20	Saturn 4.4S of Moon
		20	Regulus 3.0N of Moon
		21	Mercury 5.8N of Antares

Краткий астрономический календарь на 1962 год

(конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Краткий астрономический календарь на 1963 год

(конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Астрономические явления 1962			
January		July	
d h	d h	d h	d h
1 23 Neptune 3.4S of Moon	16 20 Mercury 0.4S of Jupiter	1 12 Mercury greatest elong W(22)	18 12 Saturn 0.7S of Moon Occn
2 8 Earth at perihelion	19 2 Moon furthest North (19.9)	1 23 NEW MOON	20 10 Moon at perigee
4 9 Venus 0.4N of Mars	20 16 Mercury greatest elong E(19)	2 2 Moon furthest North (20.5)	20 19 Jupiter 1.6N of Moon
6 1 Mars 4.1S of Moon	20 18 FULL MOON	3 0 Jupiter stationary	22 10 Mars 5.2N of Aldebaran
6 1 Moon furthest South (-19.9)	22 17 Saturn at conjunction	4 6 Earth at aphelion	23 7 Mercury 5.6S of Pollux
6 3 Venus 3.6S of Moon	23 4 Regulus 0.5S of Moon Occn	5 6 Venus 0.7N of Moon Occn	23 21 Neptune stationary
6 12 NEW MOON	23 4 Uranus 0.2S of Moon Occn	5 20 Uranus 0.9S of Moon Occn	24 4 LAST QUARTER
7 11 Mercury 3.7S of Moon	23 17 Moon at apogee	5 22 Regulus 1.3S of Moon	26 23 Aldebaran 0.9S of Moon Occn
7 12 Saturn 1.9S of Moon	24 13 Mercury 0.7S of Saturn	8 12 Moon at apogee	27 5 Mars 4.1N of Moon
7 22 Mercury 1.7S of Saturn	27 2 Venus stationary	9 23 FIRST QUARTER	29 19 Moon furthest North (20.5)
8 7 Jupiter 1.3S of Moon Occn	27 10 Venus superior conjunction	11 11 Venus 0.8N of Uranus	29 12 Uranus 0.3N of Regulus
8 14 Moon at perigee	28 23 LAST QUARTER	11 22 Neptune 3.4S of Moon	29 15 Mercury superior conjunction
13 5 FIRST QUARTER	29 8 Neptune 3.5S of Moon	12 8 Venus 1.1N of Regulus	31 12 NEW MOON Eclipse
16 16 Aldebaran 0.6S of Moon Occn	29 20 Uranus 0.3N of Regulus	16 12 Moon furthest South (-20.6)	31 17 Mercury 1.6N of Moon
		17 11 FULL MOON Eclipse	31 18 Saturn at opposition
February		August	
d h	d h	d h	d h
2 13 Moon furthest South (-19.9)	11 15 FIRST QUARTER	2 6 Regulus 1.4S of Moon	17 8 Moon at perigee
3 16 Mercury 4.0N of Jupiter	12 22 Aldebaran 0.5S of Moon Occn	2 7 Uranus 1.1S of Moon Occn	22 10 LAST QUARTER
4 1 Mars 2.4S of Moon	13 5 Mercury 4.2N of Mars	4 10 Venus 3.5S of Moon	23 4 Aldebaran 0.9S of Moon Occn
4 4 Saturn 1.6S of Moon	14 9 Neptune stationary	5 4 Moon at apogee	24 13 Uranus at conjunction
4 4 Mercury 4.7N of Venus	14 9 Moon furthest North (19.9)	8 6 Neptune 3.5S of Moon	24 21 Mars 3.3N of Moon
4 0 NEW MOON Eclipse	17 13 Mercury stationary	9 15 FIRST QUARTER	25 19 Moon furthest North (20.6)
5 1 Mercury 3.4N of Moon	17 15 Uranus at opposition	10 11 Mercury 1.0N of Regulus	29 13 Regulus 1.4S of Moon
5 3 Venus 1.3S of Moon Occn	19 9 Uranus 0.2S of Moon Occn	10 20 Mercury 0.7N of Uranus	29 17 Uranus 1.3S of Moon
5 4 Jupiter 0.6S of Moon Occn	19 11 Regulus 0.6S of Moon Occn	12 22 Moon furthest South (-20.6)	30 3 NEW MOON
5 12 Mercury inferior conjunction	19 13 FULL MOON Eclipse	14 18 Saturn 0.9S of Moon Occn	31 2 Venus 0.0N of Spica
5 20 Venus 0.6S of Jupiter	20 20 Moon at apogee	15 20 FULL MOON Eclipse	31 14 Jupiter at opposition
5 21 Moon at perigee	25 15 Neptune 3.4S of Moon		
7 1 Mars 0.6S of Saturn	27 15 LAST QUARTER	September	
8 18 Jupiter at conjunction	27 22 Pluto at opposition	d h	d h
March		1 10 Mercury 5.4S of Moon	19 11 Aldebaran 1.1S of Moon Occn
d h	d h	1 19 Moon at apogee	20 4 Venus 5.9S of Neptune
2 0 Moon furthest South (-19.9)	13 10 Mercury 0.9S of Jupiter	2 20 Pluto at conjunction	20 19 LAST QUARTER
3 8 Mercury 2.8S of Saturn W(27)	14 15 Moon furthest North (19.9)	3 18 Venus greatest elong E(46)	21 21 Moon furthest North (20.7)
3 21 Saturn 1.3S of Moon	18 13 Uranus 0.1S of Moon Occn	4 14 Neptune 3.4S of Moon	22 12 Mars 2.3N of Moon
4 12 Mercury 0.6S of Moon	18 17 Regulus 0.6S of Moon Occn	7 6 FIRST QUARTER	23 12 Equinox
5 1 Mars 0.4S of Moon Occn	19 4 Mercury 1.0S of Mars	9 8 Moon furthest South (-20.7)	23 22 Mercury stationary
5 2 Jupiter 0.0N of Moon	19 21 Moon at apogee	10 19 Mercury greatest elong E(27)	25 19 Regulus 1.5S of Moon
6 9 Moon at perigee	21 2 Equinox	11 2 Saturn 0.9S of Moon Occn	26 2 Uranus 1.5S of Moon
6 10 NEW MOON	21 7 FULL MOON	13 4 Jupiter 1.0N of Moon Occn	28 17 Mars 5.9S of Pollux
6 20 Venus 0.4S of Jupiter	24 21 Neptune 3.3S of Moon	14 4 FULL MOON	28 19 NEW MOON
6 22 Venus 1.8N of Moon	29 2 LAST QUARTER	14 16 Moon at perigee	29 1 Moon at apogee
12 5 Aldebaran 0.6S of Moon Occn	29 8 Moon furthest South (-20.0)	October	
13 4 FIRST QUARTER	31 10 Saturn 1.0S of Moon Occn	d h	d h
April		1 21 Neptune 3.3S of Moon	20 8 LAST QUARTER
d h	d h	6 15 Mercury inferior conjunction	21 0 Mars 1.3N of Moon
1 23 Jupiter 0.6N of Moon Occn	16 23 Regulus 0.8S of Moon Occn	6 16 Moon furthest South (-20.8)	22 8 Mercury greatest elong W(18)
3 0 Mars 0.5N of Moon	16 7 Mercury superior conjunction	7 15 Regulus 1.7S of Moon	23 19 Regulus 1.7S of Moon
3 20 Moon at perigee	16 7 Moon at apogee	8 10 Saturn 0.8S of Moon Occn	23 4 Venus stationary
3 23 Mercury 1.6N of Moon	20 0 FULL MOON	9 16 Saturn stationary	23 11 Uranus 1.8S of Moon
4 19 NEW MOON	21 1 Neptune 3.2S of Moon	10 11 Jupiter 1.0N of Moon Occn	26 3 Moon at apogee
6 0 Venus 4.4N of Moon	25 13 Moon furthest South (-20.2)	13 3 Moon at perigee	26 23 Mercury 2.7S of Moon
8 14 Aldebaran 0.8S of Moon Occn	27 12 LAST QUARTER	13 12 FULL MOON	28 13 NEW MOON
10 22 Moon furthest North (20.1)	27 20 Saturn 0.8S of Moon Occn	15 0 Mercury stationary	29 5 Neptune 3.2S of Moon
11 19 FIRST QUARTER	29 16 Jupiter 1.1N of Moon Occn	16 20 Aldebaran 1.3S of Moon Occn	29 18 Jupiter stationary
14 17 Uranus 0.2S of Moon Occn		19 4 Moon furthest North (20.9)	31 22 Mercury 4.0N of Spica
May		November	
d h	d h	d h	d h
1 21 Mars 3.1N of Moon	14 0 Moon at apogee	2 22 Moon furthest South (-21.0)	19 2 LAST QUARTER
2 9 Aldebaran 1.0S of Moon Occn	19 14 Neptune 3.2S of Moon	4 18 Saturn 0.6S of Moon Occn	19 8 Regulus 1.9S of Moon
3 1 Neptune at opposition	19 14 FULL MOON	5 7 FIRST QUARTER	19 15 Uranus 2.0S of Moon
4 4 NEW MOON	22 8 Saturn stationary	6 3 Neptune at conjunction	22 15 Moon at apogee
4 15 Uranus stationary	22 19 Moon furthest South (-20.4)	8 10 Moon at perigee	24 10 Venus 2.9S of Neptune
6 0 Aldebaran 0.9S of Moon Occn	24 6 Pluto stationary	10 14 Moon at perigee	25 9 Mercury superior conjunction
6 7 Venus 5.3N of Moon	25 2 Saturn 0.6S of Moon Occn	11 22 FULL MOON	25 13 Mercury 8.8S of Moon
8 0 Moon furthest North (20.3)	26 15 Mercury stationary	12 19 Venus inferior conjunction	25 14 Neptune 3.2S of Moon
8 14 Regulus 1.2S of Moon	24 23 LAST QUARTER	13 6 Aldebaran 1.4S of Moon	27 6 NEW MOON
10 6 FIRST QUARTER	27 4 Jupiter 1.5N of Moon	13 9 Mercury 0.9S of Neptune	27 8 Mercury stationary
12 0 Uranus 0.5S of Moon Occn	27 4 Jupiter 1.5N of Moon	15 13 Moon furthest North (21.1)	29 8 Mercury 5.0S of Moon
12 6 Regulus 1.0S of Moon	29 13 Moon at perigee	16 4 Mercury 3.7N of Venus	30 3 Moon furthest South (-21.2)
13 21 Mercury greatest elong E(22)	30 17 Mars 4.1N of Moon	18 8 Mars 0.7N of Moon Occn	
June		December	
d h	d h	d h	d h
1 23 Aldebaran 1.0S of Moon Occn	18 2 FULL MOON	1 12 Venus stationary	24 8 LAST QUARTER
2 13 NEW MOON	19 6 Moon furthest South (-20.5)	2 3 Saturn 0.2S of Moon Occn	20 10 Moon at apogee
3 1 Mercury 2.4N of Moon	19 6 Mercury stationary	4 4 Jupiter 1.7N of Moon	21 11 Pluto stationary
4 16 Moon furthest North (20.5)	21 7 Saturn 0.6S of Moon Occn	4 16 FIRST QUARTER	22 8 Solstices
5 2 Venus 3.3N of Moon	21 21 Solstices	8 16 Moon at perigee	22 23 Neptune 3.3S of Moon
7 8 Mercury inferior conjunction	23 13 Jupiter 1.7N of Moon	10 17 Aldebaran 1.5S of Moon	23 8 Venus 1.4S of Moon
8 10 Uranus 0.7S of Moon Occn	23 20 Moon at perigee	11 9 FULL MOON	26 22 NEW MOON
8 14 Regulus 1.2S of Moon	24 23 LAST QUARTER	11 12 Uranus stationary	27 8 Mercury stationary
10 6 FIRST QUARTER	28 11 Mars 4.4N of Moon	13 0 Moon furthest North (21.2)	27 11 Moon furthest South (-21.3)
10 18 Moon at apogee	29 17 Aldebaran 1.0S of Moon Occn	14 15 Venus 0.9N of Neptune	28 9 Mercury 2.5S of Moon
11 1 Venus 4.8S of Pollux	30 6 Mercury 0.7N of Moon Occn	16 6 Mars 0.9N of Moon Occn	29 13 Saturn 0.1N of Moon Occn
14 14 Neptune 3.3S of Moon	31 16 Uranus 2.2S of Moon	16 16 Regulus 2.0S of Moon	31 16 Jupiter 2.2N of Moon

Астрономические явления 1963			
January		July	
d h	d h	d h	d h
3 1 FIRST QUARTER	17 20 LAST QUARTER	1 5 Moon at apogee	19 18 Moon furthest North (22.1)
4 1 Mercury greatest elong E(19)	19 9 Neptune 3.3S of Moon	1 22 Neptune 3.0S of Moon	19 23 Venus 0.8N of Moon Occn
4 7 Moon at perigee	20 10 Mercury inferior conjunction	4 18 Earth at aphelion	20 20 NEW MOON Eclipse
4 16 Earth at perihelion	21 17 Venus 0.0N of Moon Occn	6 17 Moon furthest South (-22.1)	21 12 Mercury 0.3N of Moon Occn
7 2 Aldebaran 1.4S of Moon	23 4 Venus greatest elong W(47)	6 21 FULL MOON Eclipse	23 5 Regulus 2.8S of Moon
9 10 Moon furthest North (21.3)	23 20 Moon furthest South (-21.3)	9 19 Saturn 1.6N of Moon	23 13 Uranus 2.8S of Moon
9 23 FULL MOON Eclipse	24 19 Mercury 3.1N of Moon	13 21 Jupiter 3.9N of Moon	25 14 Mars 4.4S of Moon
11 1 Mercury stationary	25 13 NEW MOON Eclipse	13 21 Mercury superior conjunction	26 9 Neptune stationary
12 13 Mars 2.0N of Moon	26 3 Saturn 0.4N of Moon Occn	14 1 LAST QUARTER	28 13 FIRST QUARTER
13 1 Regulus 2.1S of Moon	28 8 Jupiter 2.6N of Moon	16 18 Mercury 5.1S of Pollux	28 23 Moon at apogee
13 12 Uranus 2.2S of Moon	29 8 Moon at perigee	17 10 Aldebaran 2.0S of Moon	29 5 Neptune 3.1S of Moon
17 8 Moon at apogee		August	
February		d h	d h
d h	d h	3 0 Mercury 0.9N of Regulus	17 7 NEW MOON
1 0 Mercury stationary	15 18 Neptune 3.2S of Moon	3 19 Moon furthest South (-22.2)	19 14 Regulus 2.8S of Moon
1 8 FIRST QUARTER	16 17 LAST QUARTER	5 9 FULL MOON	20 1 Uranus 2.9S of Moon
3 3 Mars nearest to Earth	16 19 Neptune stationary	5 23 Saturn 1.4N of Moon	23 9 Mars 5.0S of Moon
3 8 Aldebaran 1.5S of Moon	20 6 Moon furthest South (-21.4)	6 1 Mercury 0.0N of Uranus	24 7 Mercury greatest elong E(27)
3 9 Saturn at conjunction	20 15 Venus 0.9N of Moon Occn	10 4 Jupiter 3.7N of Moon	24 16 Venus 0.8N of Regulus
4 12 Mars at opposition	22 5 Mercury 0.0N of Moon Occn	10 4 Jupiter stationary	25 14 Neptune 3.0S of Moon
4 12 Moon furthest North (21.4)	22 14 Uranus at opposition	11 1 Moon at perigee	27 1 Moon at apogee
8 4 Mars 3.3N of Moon	22 19 Saturn 0.7N of Moon Occn	12 6 LAST QUARTER	27 6 FIRST QUARTER
8 14 FULL MOON	24 2 NEW MOON	13 5 Saturn at opposition	29 17 Uranus at conjunction
9 10 Regulus 2.1S of Moon	25 4 Jupiter 3.0N of Moon	13 17 Aldebaran 2.1S of Moon	29 19 Venus 0.7N of Uranus
9 18 Uranus 2.1S of Moon	26 0 Moon at perigee	16 1 Moon furthest North (22.2)	30 1 Venus superior conjunction
13 20 Mercury greatest elong W(26)	28 12 Mercury 0.7S of Saturn	19 1 Venus 1.5S of Moon	30 11 Moon furthest South (-22.3)
14 4 Moon at apogee		September	
March		d h	d h
d h	d h	2 5 Saturn 1.2N of Moon	17 16 Mercury 4.9S of Venus
2 4 Pluto at opposition	19 16 Moon furthest South (-21.6)	2 6 Mars 2.0N of Spica	17 20 NEW MOON
2 13 Aldebaran 1.5S of Moon	20 16 Venus 0.9N of Saturn	3 19 FULL MOON	18 7 Mercury 3.4S of Moon
2 17 FIRST QUARTER	21 8 Equinox	5 4 Pluto at conjunction	20 5 Mercury inferior conjunction
4 23 Moon furthest North (21.4)	22 10 Saturn 1.1N of Moon Occn	6 9 Jupiter 3.5N of Moon	21 7 Mars 5.0S of Moon
6 20 Mars 3.2N of Moon	22 14 Venus 2.0N of Moon	6 11 Mercury stationary	22 22 Neptune 2.8S of Moon
6 17 Regulus 2.2S of Moon	24 20 Mercury 0.7S of Jupiter	6 16 Moon at perigee	22 12 Moon at apogee
8 23 Uranus 2.1S of Moon	25 1 Jupiter 3.3N of Moon	12 6 LAST QUARTER	23 18 Equinox
10 7 FULL MOON	25 2 Mercury 2.7N of Moon	10 11 LAST QUARTER	26 0 FIRST QUARTER
13 20 Moon at apogee	25 12 NEW MOON	12 7 Moon furthest North (22.3)	26 19 Moon furthest South (-22.4)
15 1 Neptune 3.1S of Moon	26 7 Moon at perigee	15 21 Regulus 2.9S of Moon	28 13 Mercury stationary
16 22 Jupiter at conjunction	29 20 Aldebaran 1.7S of Moon	16 11 Uranus 3.1S of Moon	29 12 Saturn 1.3N of Moon
17 13 Mars stationary	30 21 Mercury superior conjunction	October	
18 12 LAST QUARTER		d h	d h
April		3 3 Mars 2.1S of Neptune	17 12 NEW MOON
d h	d h	3 4 FULL MOON	18 17 Venus 4.1S of Moon
1 3 FIRST QUARTER	19 0 Saturn 1.4N of Moon	3 14 Jupiter 3.3N of Moon	19 7 Neptune 2.6S of Moon
1 5 Moon furthest North (21.6)	21 11 Venus 3.0N of Moon	4 15 Moon at perigee	20 2 Moon at apogee
2 13 Saturn 1.3N of Moon	21 23 Jupiter 3.6N of Moon	5 22 Mercury greatest elong W(18)	20 6 Mars 4.3S of Moon
4 23 Regulus 2.3S of Moon	23 18 Moon at perigee	7 3 Mercury 3.0N of Spica	21 20 Saturn stationary
5 3 Uranus 2.2S of Moon	23 20 NEW MOON	7 5 Aldebaran 2.4S of Moon	24 3 Moon furthest South (-22.7)
9 0 FULL MOON	26 1 Mercury greatest elong E(20)	8 11 Jupiter at opposition	24 9 Venus 1.4S of Neptune
10 2 Moon at apogee	26 6 Aldebaran 1.9S of Moon	9 13 Moon furthest North (22.5)	24 21 Mercury 3.5N of Spica
11 6 Neptune 2.9S of Moon	28 12 Moon furthest North (21.8)	9 19 LAST QUARTER	25 17 FIRST QUARTER
15 23 Moon furthest South (-21.7)	28 22 Venus 0.5S of Jupiter	13 3 Regulus 3.1S of Moon	26 21 Saturn 1.5N of Moon
17 2 LAST QUARTER	30 15 FIRST QUARTER	13 20 Uranus 3.3S of Moon	30 19 Jupiter 3.4N of Moon
16 16 Mercury 3.0S of Moon		November	
May		d h	d h
d h	d h	1 13 FULL MOON	16 6 Moon at apogee
1 1 Mars 0.2N of Moon Occn	19 18 Jupiter 3.8N of Moon	2 1 Moon at perigee	16 6 NEW MOON
2 4 Regulus 2.5S of Moon	21 6 Venus 3.3N of Moon	3 14 Aldebaran 2.6S of Moon	16 22 Mercury 4.5S of Moon
2 8 Uranus 2.3S of Moon	22 3 Moon at perigee	5 1 Mercury superior conjunction	17 4 Mercury stationary
2 22 Moon at opposition	22 16 Neptune 4.2N of Moon	5 20 Moon furthest North (22.7)	18 7 Mars 3.0S of Moon
7 4 Moon at apogee	23 4 NEW MOON	6 14 Pollux 5.9N of Moon	20 9 Moon furthest South (-22.8)
7 11 Mercury stationary	23 16 Aldebaran 2.0S of Moon	7 4 Uranus 1.7S of Neptune	20 22 Venus 0.0N of Mars
8 10 Neptune 2.8S of Moon	25 22 Moon furthest North (22.0)	7 12 Mars 3.9N of Antares	22 10 Mercury 3.0N of Antares
8 17 FULL MOON	26 16 Pluto stationary	8 6 LAST QUARTER	23 5 Saturn 1.8N of Moon
9 17 Uranus stationary	29 8 Mars 1.6S of Moon	8 12 Neptune at conjunction	24 7 FIRST QUARTER
13 5 Moon furthest South (-21.9)	29 12 Regulus 2.7S of Moon	8 8 Regulus 3.2S of Moon	27 4 Jupiter 3.7N of Moon
15 12 Saturn 1.6N of Moon	29 15 Uranus 2.6S of Moon	10 4 Uranus 3.8S of Moon	30 13 Moon at perigee
16 13 LAST QUARTER	30 4 FIRST QUARTER	12 23 Venus 4.0N of Antares	30 23 FULL MOON
13 3 Mercury inferior conjunction	30 7 Mercury stationary	15 15 Neptune 2.5S of Moon	
June		December	
d h	d h	d h	d h
1 21 Mars 0.9N of Regulus	19 21 Mercury 1.0N of Moon Occn	1 9 Aldebaran 2.7S of Moon	18 4 Mercury greatest elong E(20)
3 14 Moon at apogee	20 2 Aldebaran 2.0S of Moon	3 6 Moon furthest North (22.8)	18 13 Venus 0.6S of Moon Occn
4 1 Saturn stationary	20 2 Venus 0.6N of Moon	3 23 Pollux 5.8N of Moon	20 15 Saturn 2.0N of Moon
4 15 Neptune 2.9S of Moon	20 11 Venus 4.6N of Aldebaran	6 0 Jupiter stationary	22 14 Solstices
6 5 Mars 0.5N of Uranus	21 11 NEW MOON	6 16 Regulus 3.4S of Moon	23 19 FIRST QUARTER
7 8 FULL MOON	22 3 Solstices	7 3 Mercury 1.4S of Mars	24 0 Pluto stationary
8 8 Mercury 2.6S of Venus	22 8 Mercury 3.2N of Aldebaran	7 12 Uranus 3.7S of Moon	24 11 Jupiter 3.9N of Moon
9 11 Moon furthest South (-22.1)	22 8 Moon furthest North (22.1)	7 21 LAST QUARTER	25 1 Mercury stationary
12 15 Saturn 1.7N of Moon	25 20 Regulus 2.8S of Moon	12 23 Neptune 2.5S of Moon	28 12 Aldebaran 2.7S of Moon
13 7 Mercury greatest elong W(23)	26 1 Uranus 2.7S of Moon	13 9 Moon at apogee	28 23 Moon at perigee
14 20 LAST QUARTER	26 21 Mars 3.2S of Moon	16 2 NEW MOON	30 5 Mercury 2.1N of Mars
16 10 Jupiter 3.9N of Moon	27 22 Mercury 0.6S of Venus	16 12 Uranus stationary	30 15 FULL MOON Eclipse
17 7 Moon at perigee	28 20 FIRST QUARTER	17 9 Mars 1.2S of Moon	30 17 Moon furthest North (2

Краткий астрономический календарь на 1968 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Table with astronomical data for 1968, organized by month (January to December). Each month section includes a header for 'Астрономические явления 1968' and columns for day, hour, and event description. Events include planetary positions, lunar phases, and conjunctions.

Краткий астрономический календарь на 1965 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Table with astronomical data for 1965, organized by month (January to December). Each month section includes a header for 'Астрономические явления 1965' and columns for day, hour, and event description. Events include planetary positions, lunar phases, and conjunctions.

Краткий астрономический календарь на 1966 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Астрономические явления 1966			
January		July	
d h	d h	d h	d h
3 20 Earth at perihelion	13 20 Spica 5.4S of Moon	2 15 Moon furthest South (-26.7)	17 13 Jupiter 3.9S of Moon
3 23 Venus stationary	16 0 Neptune 0.7N of Moon	2 19 FULL MOON	18 0 Pollux 2.3N of Moon
5 16 Jupiter 2.1S of Moon	17 9 Antares 4.0S of Moon	4 8 Venus 3.9N of Aldebaran	18 4 NEW MOON
6 17 Moon furthest North (26.1)	19 19 Moon furthest South (-26.2)	5 12 Earth at aphelion	20 1 Moon at perigee
7 5 FULL MOON	20 19 Mercury 2.2N of Moon	5 14 Jupiter at conjunction	20 11 Regulus 4.5S of Moon
7 15 Pollux 4.8N of Moon	21 15 NEW MOON	8 0 Moon at apogee	21 16 Uranus 3.9S of Moon
8 10 Moon at perigee	23 15 Mars 3.9N of Moon	8 0 Saturn 1.3N of Moon	24 5 Spica 4.6S of Moon
9 10 Venus 4.2N of Mars	23 19 Moon at apogee	10 21 LAST QUARTER	24 19 Saturn 1.8N of Moon
10 1 Regulus 4.6S of Moon	25 7 Saturn 3.0N of Moon	12 17 Saturn stationary	26 2 Neptune 1.5N of Moon
11 10 Uranus 4.1S of Moon	26 8 Venus inferior conjunction	13 23 Mercury stationary	27 15 Antares 3.1S of Moon
13 20 LAST QUARTER	29 19 FIRST QUARTER	15 22 Venus 3.6S of Moon	28 14 Mercury inferior conjunction
		16 17 Mars 2.7S of Moon	29 21 Moon furthest South (-26.8)
		16 23 Moon furthest North (26.8)	
February		August	
d h	d h	d h	d h
1 23 Jupiter 2.1S of Moon	15 9 Venus stationary	1 9 FULL MOON	14 21 Venus 4.4S of Moon
3 3 Moon furthest North (26.3)	16 1 Moon furthest South (-26.3)	1 17 Neptune stationary	16 8 Mercury greatest elong W(19)
4 2 Pollux 2.7N of Moon	19 20 Moon at apogee	3 20 Venus 1.0S of Mars	16 11 NEW MOON
5 15 FULL MOON	20 10 NEW MOON	4 15 Moon at apogee	16 21 Regulus 4.5S of Moon
5 21 Moon at perigee	21 14 Mercury 4.1N of Moon	5 14 Saturn 1.6N of Moon	17 6 Moon at perigee
6 2 Mercury superior conjunction	21 19 Mars 3.9N of Moon	7 10 Mercury stationary	18 3 Uranus 3.7S of Moon
6 12 Regulus 4.5S of Moon	22 19 Saturn 2.7N of Moon	7 15 Venus 0.1S of Jupiter	20 15 Spica 4.4S of Moon
7 18 Uranus 4.0S of Moon	21 21 Mars 1.0N of Saturn	9 12 LAST QUARTER	22 9 Neptune 1.7N of Moon
10 3 Spica 5.2S of Moon	22 21 Neptune stationary	12 11 Mars 0.7N of Jupiter	23 3 FIRST QUARTER
12 7 Neptune 1.0N of Moon	23 7 Mercury 1.5N of Saturn	13 9 Moon furthest North (26.9)	23 20 Antares 2.9S of Moon
12 8 LAST QUARTER	24 7 Mercury 0.6N of Mars	14 9 Jupiter 4.3S of Moon	26 2 Moon furthest South (-27.0)
13 11 Antares 3.8S of Moon	28 10 FIRST QUARTER	14 10 Mars 3.5S of Moon	31 0 FULL MOON
15 8 Jupiter stationary		16 10 Mars 5.5S of Pollux	31 23 Moon at apogee
		14 10 Pollux 2.3N of Moon	
March		September	
d h	d h	d h	d h
1 8 Jupiter 2.2S of Moon	12 22 Antares 3.6S of Moon	1 2 Mercury 1.2N of Regulus	14 17 Uranus 3.6S of Moon
3 13 Moon furthest North (26.5)	14 0 LAST QUARTER	1 17 Saturn 1.5N of Moon	14 19 NEW MOON
3 12 Pollux 2.6N of Moon	15 7 Moon furthest South (-26.5)	8 2 LAST QUARTER	15 2 Mercury 2.7S of Moon
5 1 Mercury greatest elong E(18)	15 13 Mercury 4.1N of Mars	8 11 Venus 0.7N of Regulus	16 21 Spica 4.2S of Moon
5 23 Regulus 4.5S of Moon	19 3 Moon at apogee	9 18 Moon furthest North (27.1)	18 18 Neptune 1.8N of Moon
6 9 Moon at perigee	21 1 Equinox	10 7 Mercury superior conjunction	19 16 Saturn at opposition
7 1 FULL MOON	21 7 Saturn 2.7N of Moon	10 20 Pollux 2.1N of Moon	20 3 Antares 2.7S of Moon
7 4 Uranus 3.9S of Moon	21 13 Mercury inferior conjunction	11 4 Jupiter 4.6S of Moon	21 14 FIRST QUARTER
8 4 Pluto at opposition	22 4 NEW MOON	11 10 Pluto at conjunction	22 8 Moon furthest South (-27.2)
8 15 Uranus at opposition	22 23 Mars 3.1N of Moon	11 19 Mercury 0.8N of Uranus	23 11 Equinox
9 13 Spica 5.0S of Moon	28 18 Jupiter 2.5S of Moon	12 3 Mars 3.5S of Moon	25 18 Venus 0.7N of Uranus
9 13 Saturn at conjunction	29 20 FIRST QUARTER	13 6 Uranus at conjunction	28 1 Moon at apogee
11 15 Mercury stationary	29 20 Moon furthest North (26.6)	13 8 Regulus 4.5S of Moon	28 19 Saturn 1.5N of Moon
11 15 Neptune 1.2N of Moon	30 20 Pollux 2.4N of Moon	13 18 Venus 3.5S of Moon	29 16 FULL MOON
		14 16 Moon at perigee	
April		October	
d h	d h	d h	d h
2 9 Regulus 4.6S of Moon	16 17 Venus 5.0N of Moon	1 13 Mercury 1.6N of Spica	14 8 Spica 4.1S of Moon
3 1 Mercury stationary	17 22 Saturn 2.6N of Moon	7 1 Moon furthest North (27.3)	15 17 Mercury 2.4S of Moon
3 13 Uranus 3.9S of Moon	18 10 Mercury 1.9N of Moon	8 4 LAST QUARTER	16 5 Neptune 0.3S of Moon
3 18 Moon at perigee	18 14 Mercury greatest elong W(27)	8 4 Pollux 1.9N of Moon	17 13 Antares 2.6S of Moon
4 1 FULL MOON	20 20 NEW MOON	8 20 Jupiter 4.8S of Moon	19 16 Moon furthest South (-27.3)
5 16 Mercury 1.7N of Saturn	21 0 Mars 1.8N of Moon	10 17 Mars 3.7S of Moon	21 5 FIRST QUARTER
6 0 Spica 4.8S of Moon	25 7 Jupiter 2.9S of Moon	10 18 Regulus 4.6S of Moon	21 12 Mercury 4.3S of Neptune
6 15 Venus greatest elong W(46)	26 1 Moon furthest North (26.7)	11 17 Mars 0.9N of Regulus	21 20 Venus 3.3N of Spica
7 4 Mercury 1.4N of Saturn	27 2 Pollux 2.3N of Moon	12 6 Uranus 3.5S of Moon	25 9 Moon at apogee
8 0 Neptune 1.4N of Moon	28 3 FIRST QUARTER	13 3 Moon at perigee	25 22 Saturn 1.7N of Moon
9 7 Antares 3.4S of Moon	29 5 Mars at conjunction	13 16 Venus 1.5S of Moon	26 12 Mercury greatest elong E(24)
11 15 Moon furthest South (-26.7)	29 16 Regulus 4.7S of Moon	14 3 NEW MOON	29 9 FULL MOON
12 17 LAST QUARTER	30 19 Uranus 4.1S of Moon		
15 19 Moon at apogee			
May		November	
d h	d h	d h	d h
1 8 Venus 0.9N of Saturn	20 0 Mars 0.2N of Moon	3 7 Moon furthest North (27.3)	13 23 Antares 2.5S of Moon
1 13 Moon at perigee	20 9 NEW MOON	4 10 Pollux 1.9S of Moon	14 17 Neptune at conjunction
3 10 Spica 4.8S of Moon	22 15 Mercury 0.4S of Mars	5 6 Jupiter 4.8S of Moon	16 1 Moon furthest South (-27.3)
3 23 FULL MOON	23 3 Spica 3.3S of Moon	5 6 Mercury 1.6S of Venus	16 15 Neptune 0.3S of Moon
5 9 Neptune 1.4N of Moon	23 7 Moon furthest North (26.8)	6 21 Mercury stationary	17 11 Mercury inferior conjunction
6 17 Antares 3.3S of Moon	24 1 Uranus stationary	7 2 Regulus 4.6S of Moon	19 12 Mercury 0.7S of Neptune
8 23 Moon furthest South (-26.8)	24 8 Pollux 2.3N of Moon	8 5 Mars 2.9S of Moon	20 0 FIRST QUARTER
11 23 Neptune at opposition	26 22 Regulus 4.8S of Moon	8 17 Uranus 3.4S of Moon	21 15 Jupiter stationary
12 1 LAST QUARTER	26 6 Mercury superior conjunction	9 13 Mercury 1.6S of Venus	22 1 Moon at apogee
13 13 Moon at apogee	27 7 FIRST QUARTER	10 8 Moon at perigee	22 4 Saturn 1.8N of Moon
15 11 Saturn 2.4N of Moon	27 13 Moon at perigee	10 19 Spica 4.1S of Moon	22 15 Moon at apogee
16 18 Venus 1.7N of Moon	28 1 Uranus 4.1S of Moon	12 14 NEW MOON	26 16 Mercury stationary
19 15 Mercury 0.3S of Moon	30 17 Spica 4.8S of Moon	12 16 Venus 1.0N of Moon	27 10 Venus 4.6N of Antares
		12 17 Neptune 2.2N of Moon	27 11 Saturn stationary
		13 7 Mercury 0.2N of Moon	28 2 FULL MOON
		13 13 Venus 1.1S of Neptune	30 13 Moon furthest North (27.3)
June		December	
d h	d h	d h	d h
1 16 Neptune 1.4N of Moon	19 17 Jupiter 3.6S of Moon	1 11 Pollux 1.9N of Moon	12 15 Venus 2.9N of Moon
2 7 Pluto stationary	20 13 Mercury 2.7S of Moon	2 12 Jupiter 4.7S of Moon	12 10 Moon furthest South (-27.3)
3 2 Antares 3.5S of Moon	20 15 Pollux 2.3N of Moon	4 7 Regulus 4.6S of Moon	18 6 Mercury 5.4N of Antares
3 2 FULL MOON	21 9 Mercury 3.1S of Pollux	4 20 Mercury greatest elong W(20)	19 13 Saturn 1.8N of Moon
5 8 Moon furthest South (-26.7)	21 20 Solstice	5 6 LAST QUARTER	19 21 FIRST QUARTER
10 7 Moon at apogee	22 8 Moon at perigee	10 5 Mercury 3.2S of Neptune	19 22 Moon at apogee
11 2 Mars 5.7N of Aldebaran	22 4 Regulus 4.7S of Moon	6 1 Uranus 3.3S of Moon	22 7 Solstice
11 5 LAST QUARTER	24 7 Uranus 4.0S of Moon	6 14 Mars 1.8S of Moon	27 17 FULL MOON
11 23 Jupiter 2.0N of Jupiter	25 9 Mercury 4.7S of Moon	7 17 Moon at perigee	27 20 Moon furthest North (27.3)
15 21 Saturn 2.2N of Moon	26 23 Spica 4.7S of Moon	8 3 Spica 4.0S of Moon	28 23 Jupiter 2.0N of Moon
15 21 Venus 1.4S of Moon	28 21 Neptune 1.4N of Moon	10 15 Neptune 2.8N of Moon	29 15 Mercury 2.8N of Moon
17 21 Mars 1.4S of Moon	30 9 Antares 3.2S of Moon	11 9 Antares 2.5S of Moon	30 22 Pluto stationary
18 20 NEW MOON	30 18 Mercury greatest elong E(26)	12 3 NEW MOON	31 13 Regulus 4.4S of Moon
19 15 Moon furthest North (26.7)			

Краткий астрономический календарь на 1967 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Астрономические явления 1967			
January		July	
d h	d h	d h	d h
1 10 Moon at perigee	18 1 Mercury superior conjunction	4 14 Mars 1.3N of Spica	14 19 Spica 2.9S of Moon
2 7 Earth at aphelion	18 10 FIRST QUARTER	5 12 Earth at aphelion	15 3 Mars 1.5S of Moon
2 9 Uranus 3.1S of Moon	18 19 Saturn 2.8N of Moon	6 23 Moon furthest North (27.7)	16 19 Neptune 3.4N of Moon
3 14 LAST QUARTER	20 5 Jupiter at opposition	7 16 NEW MOON	18 1 Antares 1.6S of Moon
3 19 Mars 0.4S of Moon	22 17 Mars 4.3N of Spica	8 3 Venus 0.2S of Regulus	19 22 Moon furthest South (-27.8)
4 8 Spica 3.9S of Moon	22 14 Moon furthest North (27.4)	8 10 Jupiter 1.8N of Moon	20 5 Mercury stationary
6 13 Neptune 2.6N of Moon	25 9 Pollux 2.3N of Moon	9 12 Mercury inferior conjunction	21 14 FULL MOON
7 16 Antares 2.4S of Moon	25 19 Jupiter 4.3S of Moon	10 23 Regulus 4.1S of Moon	26 7 Saturn stationary
9 18 Moon furthest South (-27.3)	27 21 Regulus 4.3S of Moon	11 2 Venus 4.5S of Moon	27 13 Saturn 0.8S of Moon
10 8 Mercury 2.8N of Moon	28 15 Moon at perigee	12 12 Uranus 2.7S of Moon	28 21 LAST QUARTER
10 18 NEW MOON	29 13 Uranus 2.9S of Moon	14 15 FIRST QUARTER	30 3 Mercury greatest elong W(19)
12 1 Venus 3.5N of Moon	31 14 Spica 3.7S of Moon	14 19 Moon at perigee	
16 0 Saturn 1.6N of Moon	31 19 Mars 1.0N of Moon		
16 20 Moon at apogee			
February		August	
d h	d h	d h	d h
1 23 LAST QUARTER	21 19 Pollux 1.8N of Moon	3 7 Moon furthest North (27.8)	13 0 Neptune 3.5N of Moon
2 19 Neptune 2.8N of Moon	22 0 Jupiter 4.3S of Moon	3 7 Neptune stationary	14 7 Mercury 1.4S of Moon
3 22 Antares 2.2S of Moon	22 14 Mercury stationary	4 15 Pollux 1.8N of Moon	16 4 Moon furthest South (-27.9)
6 0 Moon furthest South (-27.4)	23 19 Venus 1.0N of Saturn	4 16 Mercury 5.5S of Moon	18 2 Mercury 0.9N of Jupiter
9 0 NEW MOON	24 7 Regulus 4.2S of Moon	6 2 NEW MOON	20 2 FULL MOON
10 21 Mercury 4.1N of Moon	24 17 FULL MOON	6 5 Venus stationary	23 19 Saturn 1.0S of Moon
11 13 Saturn 1.3N of Moon	25 8 Neptune stationary	6 6 Jupiter 4.2S of Moon	23 22 Mercury 1.3N of Regulus
12 11 Venus 1.1N of Moon	25 20 Moon at perigee	6 6 Regulus 3.9S of Moon	24 16 Mercury superior conjunction
12 13 Saturn 1.3N of Moon	25 20 Moon at perigee	8 18 Jupiter at conjunction	25 7 Moon at apogee
12 15 Moon at apogee	25 21 Uranus 2.8S of Moon	8 20 Uranus 2.4S of Moon	28 3 Mars 3.2S of Neptune
16 13 Mercury greatest elong E(18)	27 22 Spica 2.8S of Moon	9 14 Moon at perigee	28 5 LAST QUARTER
17 13 FIRST QUARTER	28 13 Mars 1.9N of Moon	11 0 Spica 2.8S of Moon	29 21 Venus inferior conjunction
20 14 Moon furthest North (27.6)		12 8 Mars 0.4S of Moon	30 16 Moon furthest North (28.0)
March		September	
d h	d h	d h	d h
2 2 Neptune 3.1N of Moon	21 5 Pollux 1.7N of Moon	1 1 Pollux 1.6N of Moon	13 22 Pluto at conjunction
3 4 Antares 2.0S of Moon	21 7 Equinox	3 2 Jupiter 4.1S of Moon	18 10 Uranus at conjunction
3 9 LAST QUARTER	21 8 Jupiter 4.4S of Moon	3 15 Regulus 3.9S of Moon	18 17 FULL MOON
4 7 Mercury inferior conjunction	21 9 Jupiter stationary	4 11 NEW MOON	18 20 Venus stationary
4 8 Saturn at opposition	22 19 Saturn 4.3S of Moon	5 5 Mercury 2.0S of Moon	19 22 Saturn 1.1S of Moon
8 18 Mars stationary	23 19 Saturn at conjunction	5 8 Uranus 2.2S of Moon	21 23 Moon at apogee
10 14 Pluto at opposition	25 6 Uranus 2.8S of Moon	6 4 Mercury 0.2N of Uranus	23 17 Equinox
11 4 NEW MOON	26 3 FULL MOON	6 7 Moon at perigee	23 23 Mars 2.9N of Antares
12 2 Saturn 1.0N of Moon	26 7 Moon at perigee	7 7 Spica 2.6S of Moon	25 2 Mercury 0.7N of Spica
13 5 Moon at apogee	27 21 Spica 3.3S of Moon	7 9 Neptune 3.7N of Moon	26 21 LAST QUARTER
13 15 Uranus at opposition	27 20 Mars 1.8N of Moon	9 20 NEW MOON	27 0 Moon furthest North (28.2)
13 21 Venus 1.1N of Moon	29 10 Neptune 3.2N of Moon	10 12 Antares 1.3S of Moon	28 10 Pollux 1.5N of Moon
16 17 Mercury stationary	30 11 Antares 1.9S of Moon	11 3 FIRST QUARTER	31 1 Venus 5.3S of Regulus
19 8 FIRST QUARTER	31 17 Mercury greatest elong W(28)	12 9 Moon furthest South (-28.1)	30 2 Jupiter 3.8S of Moon
19 23 Moon furthest North (27.7)			
April		October	
d h	d h	d h	d h
1 11 Moon furthest South (-27.8)	18 5 Mercury 0.4S of Saturn	1 2 Regulus 4.0S of Moon	15 18 Jupiter 0.3N of Regulus
1 20 LAST QUARTER	19 5 Mars 4.0N of Spica	2 21 Uranus 2.1S of Moon	17 0 Saturn 0.9S of Moon
7 11 Mercury 1.5N of Moon	20 4 Regulus 4.3S of Moon	2 22 Saturn at opposition	18 10 FULL MOON
8 15 Saturn 0.7N of Moon	21 15 Uranus 2.9S of Moon	3 18 Moon at perigee	18 11 Mercury Eclipse
9 2 Moon at apogee	21 18 Mars nearest to Earth	4 14 Moon at perigee	21 6 Mercury stationary
9 22 NEW MOON	23 17 Mars 0.4N of Moon	4 17 Spica 2.5S of Moon	24 7 Moon furthest North (28.2)
13 5 Venus 0.7S of Moon	23 18 Moon at perigee	5 14 Mercury 1.9S of Moon	25 18 Pollux 1.4N of Moon
15 11 Mars at opposition	23 19 Spica 3.2S of Moon	6 16 Neptune 3.8N of Moon	26 11 LAST QUARTER
16 6 Moon furthest North (27.8)	24 12 FULL MOON	7 19 Antares 1.2S of Moon	28 12 Regulus 4.0S of Moon
17 12 Pollux 1.6N of Moon	25 19 Neptune 3.3N of Moon	8 13 Mars 2.8N of Moon	28 15 Jupiter 1.5S of Moon
17 17 Jupiter 4.6S of Moon	26 21 Antares 1.8S of Moon	9 0 Mercury greatest elong E(25)	29 22 Venus 3.4S of Moon
17 20 FIRST QUARTER	28 20 Moon furthest South (-27.8)	9 15 Moon furthest South (-28.2)	30 11 Uranus 1.9S of Moon
		10 12 FIRST QUARTER	
May		November	
d h	d h	d h	d h
1 10 LAST QUARTER	18 23 Uranus 3.0S of Moon	1 5 Spica 2.4S of Moon	17 3 Neptune at conjunction
6 4 Saturn 0.4N of Moon	20 16 Mars 1.3S of Moon	1 16 Mercury inferior conjunction	17 4 FULL MOON
6 25 Mercury 1.6S of Moon	21 5 Spica 3.3S of Moon	2 2 Moon at perigee	18 3 Mercury greatest elong W(19)
9 8 Mercury 1.1S of Moon	22 1 Moon at perigee	2 5 NEW MOON	19 0 Mars 0.3N of Moon
9 14 NEW MOON	22 5 Neptune 3.2N of Moon	2 5 NEW MOON	20 0 Pollux 1.9N of Moon
11 16 Mercury superior conjunction	23 20 FULL MOON	3 4 Neptune 3.9N of Moon	24 19 Regulus 3.9S of Moon
13 6 Venus 2.0S of Moon	24 8 Antares 1.8S of Moon	4 5 Antares 1.2S of Moon	25 0 LAST QUARTER
13 13 Moon furthest North (27.8)	26 5 Moon furthest South (-27.8)	6 0 Moon furthest South (-28.2)	25 5 Jupiter 3.2S of Moon
14 11 Mars at opposition	27 15 Mars stationary	6 23 Mars 4.8N of Moon	26 22 Uranus 1.7S of Moon
14 18 Pollux 1.6N of Moon	29 5 Uranus stationary	7 9 Venus 0.1S of Uranus	28 9 Jupiter 1.3S of Moon
15 5 Jupiter 4.6S of Moon	30 20 Venus 4.1S of Pollux	9 1 FIRST QUARTER	28 15 Spica 2.3S of Moon
17 5 FIRST QUARTER	31 1 LAST QUARTER	9 17 Venus greatest elong W(47)	30 13 Moon at perigee
17 11 Regulus 4.3S of Moon		10 9 Mercury stationary	30 14 Mercury 3.5N of Moon
		13 3 Saturn 0.8S of Moon	30 17 Neptune 4.1N of Moon
		15 8 Moon at apogee	
June		December	
d h	d h	d h	d h
2 16 Saturn 0.0N of Moon	17 4 Mars 1.9S of Moon	1 12 Venus 4.2N of Spica	22 12 Jupiter 2.8S of Moon
3 2 Moon at apogee	17 13 Spica 3.1S of Moon	1 16 NEW MOON	22 13 Solstice
4 23 Pluto stationary	18 19 Moon at perigee	1 17 Antares 1.1S of Moon	22 22 Jupiter stationary
8 5 NEW MOON	19 13 Neptune 3.3N of Moon	2 0 Mercury 0.5S of Neptune	24 5 Uranus 1.5S of Moon
9 14 Venus 1.7N of Jupiter	20 17 Antares 1.7S of Moon	3 9 Moon furthest South (-28.1)	24 10 LAST QUARTER
9 17 Moon furthest North (27.8)	20 22 Venus greatest elong E(45)	5 9 Mars 3.7N of Moon	25 23 Spica 2.2S of Moon
10 5 Mercury 3.2S of Moon	22 2 Solstice	6 23 Venus 4.8N of Moon	26 22 Jupiter 1.4S of Moon
10 15 Saturn 0.4S of Moon	22 14 Moon furthest South (-27.7)	9 0 Saturn 0.7S of Moon	28 4 Neptune 4.3N of Moon
11 23 Venus 2.9S of Moon	25 18 Mercury stationary	10 9 Saturn stationary	28 18 Moon at perigee
12 9 Mercury greatest elong E(24)	29 18 LAST QUARTER	11 14 Mercury 4.6N of Antares	28 22 Mercury superior conjunction
13 17 Regulus 4.2S of Moon	30 4 Saturn 0.4S of Moon	12 18 Moon at apogee	29 3 Antares 1.0S of Moon
15 5 FULL MOON	30 20 Moon at apogee	15 23 Venus 0.6N of Neptune	29 5 Venus 0.6N of Neptune
15 11 FIRST QUARTER		17 18 Moon furthest North (28.1)	30 19 Moon furthest South (-28.1)
		19 5 Pollux 1.6N of Moon	31 3 NEW MOON
		21 1 Regulus 4.5S of Moon	31 6 Mercury 3.0N of Moon

Краткий астрономический календарь на 1972 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Краткий астрономический календарь на 1969 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Астрономические явления 1972			
January		July	
d h	d h	d h	d h
1 19	Pollux 5.5N of Moon	17 3	LAST QUARTER
1 21	Mercury greatest elong W(23)	17 9	Uranus 5.8N of Moon
3 6	Earth at perihelion	18 3	Spica 3.2N of Moon
4 14	Regulus 2.8N of Jupiter	18 22	Moon at perigee
6 18	Mercury 0.8N of Jupiter	19 20	Moon at apogee
8 13	LAST QUARTER	20 10	Neptune 5.8N of Moon
8 15	Uranus 5.7N of Moon	21 23	Antares 0.8S of Moon Occn
9 1	Spica 3.1N of Moon	22 21	Moon furthest South (-26.1)
9 3	Moon at apogee	22 26	Jupiter 2.4N of Moon
12 5	Pluto stationary	23 16	Mercury stationary
12 21	Antares 0.2S of Moon	24 0	Mercury stationary
13 20	Moon furthest South (-26.8)	26 7	FULL MOON
14 3	Jupiter 3.7N of Moon	26 17	Mercury 5.7S of Mars
February			
d h	d h	d h	d h
4 23	Uranus 5.7N of Moon	17 6	Mercury superior conjunction
5 10	Spica 3.1N of Moon	17 19	Moon at perigee
6 0	Moon at apogee	18 0	Venus 4.8S of Moon
7 11	LAST QUARTER	19 21	Mars 4.5S of Moon
9 6	Antares 0.2S of Moon Occn	21 17	FIRST QUARTER
10 4	Moon furthest South (-26.8)	26 21	Moon furthest North (26.8)
10 23	Jupiter 3.3N of Moon	25 11	Pollux 5.6N of Moon
12 21	Mercury 3.7S of Moon	28 7	Regulus 2.6N of Moon
15 0	NEW MOON	29 3	FULL MOON
March			
d h	d h	d h	d h
3 5	Uranus 5.6N of Moon	19 12	Mars 3.8S of Moon
4 17	Spica 3.0N of Moon	20 15	Equinox
4 19	Moon at apogee	21 5	Pluto at opposition
7 11	Neptune stationary	21 8	Moon furthest North (26.6)
7 14	Antares 0.3S of Moon Occn	21 13	Mercury stationary
8 7	LAST QUARTER	22 2	FIRST QUARTER
8 13	Moon furthest South (-26.7)	23 16	Pollux 5.8N of Moon
10 16	Jupiter 2.8N of Moon	26 13	Regulus 2.7N of Moon
14 7	Mercury greatest elong E(18)	29 20	FULL MOON
15 11	NEW MOON	30 10	Uranus 5.5N of Moon
16 18	Mercury 2.2S of Moon	31 0	Spica 2.9N of Moon
16 20	Moon at perigee	31 8	Mars 2.7N of Saturn
18 16	Venus 3.1S of Moon	31 11	Mercury inferior conjunction
April			
d h	d h	d h	d h
1 7	Moon at apogee	1 1	Venus 0.0N of Moon Occn
3 12	Neptune 5.9N of Moon	17 3	Mars 2.6S of Moon
3 21	Antares 0.5S of Moon Occn	17 16	Moon furthest North (26.4)
4 21	Moon furthest South (-26.5)	19 22	Pollux 6.0N of Moon
6 0	Uranus at opposition	20 12	FIRST QUARTER
6 5	Jupiter 2.8N of Moon	22 13	Regulus 2.8N of Mars
6 23	LAST QUARTER	22 19	Regulus 2.9N of Moon
7 9	Venus 5.0N of Saturn	25 0	Jupiter stationary
7 23	Venus greatest elong E(46)	26 14	Uranus 5.5N of Moon
12 12	Mercury 4.6S of Moon	27 6	Spica 2.9N of Moon
12 22	Mercury stationary	28 9	Moon at apogee
13 20	NEW MOON	28 12	FULL MOON
14 5	Moon at perigee	28 13	Mercury greatest elong W(27)
16 12	Saturn 5.8S of Moon	30 17	Neptune 5.8N of Moon
May			
d h	d h	d h	d h
1 3	Antares 0.7S of Moon Occn	23 18	Uranus 5.6N of Moon
2 2	Moon furthest South (-26.3)	24 12	Spica 3.0N of Moon
3 12	Jupiter 2.1N of Moon	25 0	Neptune at opposition
6 12	LAST QUARTER	25 14	Moon at apogee
12 16	Moon at perigee	26 23	Venus stationary
13 4	NEW MOON	27 2	Saturn 3.9N of Aldebaran
14 4	Saturn 5.5S of Moon	27 22	Neptune 5.8N of Moon
15 1	Moon furthest North (26.2)	28 4	FULL MOON
15 19	Mars 1.1S of Moon Occn	28 9	Antares 0.8S of Moon Occn
15 20	Venus 1.6N of Moon	28 10	Moon furthest South (-26.2)
16 21	Venus 2.0N of Mars	30 14	Jupiter 2.1N of Moon
20 1	FIRST QUARTER	31 7	Saturn at conjunction
20 1	Regulus 3.1N of Moon		
June			
d h	d h	d h	d h
2 15	Mercury 5.8N of Aldebaran	17 15	Venus inferior conjunction
1	Mercury 2.0N of Saturn	18 15	FIRST QUARTER
4 21	LAST QUARTER	20 0	Uranus 5.8N of Moon
4 21	Mercury superior conjunction	20 19	Spica 3.1N of Moon
10 0	Moon at perigee	21 7	Solstices
10 20	Saturn 5.2S of Moon	22 1	Uranus stationary
11 11	Moon furthest North (26.2)	22 4	Moon at apogee
11 11	NEW MOON	24 3	Neptune 5.8N of Moon
12 1	Mercury 1.8N of Venus	24 4	Mercury 4.8S of Pollux
12 2	Mercury 0.7S of Moon Occn	24 15	Antares 0.8S of Moon Occn
12 12	Venus 2.5S of Moon	24 21	Jupiter at opposition
12 2	Mars 0.6N of Moon Occn	25 14	Moon furthest South (-26.1)
16 6	Pluto stationary	26 14	Jupiter 2.2N of Moon
16 10	Regulus 3.3N of Moon	26 18	FULL MOON
17 8	Mars 5.5S of Pollux	28 17	Mercury 0.3N of Mars
July			
d h	d h	d h	d h
4 13	LAST QUARTER	17 9	Uranus 5.8N of Moon
5 13	Earth at aphelion	18 3	Spica 3.2N of Moon
7 22	Moon at perigee	18 3	FIRST QUARTER
8 11	Saturn 4.8S of Moon	19 20	Moon at apogee
8 20	Moon furthest North (26.1)	21 10	Neptune 5.8N of Moon
9 1	Venus stationary	21 23	Antares 0.8S of Moon Occn
10 19	NEW MOON	22 21	Moon furthest South (-26.1)
10 21	Mercury greatest elong E(26)	23 16	Jupiter 2.4N of Moon
12 6	Mars 2.3N of Moon	24 0	Mercury stationary
12 20	Mercury 1.0N of Moon Occn	26 7	FULL MOON
13 19	Regulus 3.3N of Moon	31 7	Mercury 5.7S of Mars
August			
d h	d h	d h	d h
2 8	LAST QUARTER	16 14	Moon at apogee
3 15	Moon at perigee	17 1	FIRST QUARTER
4 23	Saturn 4.8S of Moon	17 4	Mercury stationary
5 3	Moon furthest North (26.1)	17 17	Neptune 5.8N of Moon
7 20	Mercury inferior conjunction	18 7	Antares 0.8S of Moon Occn
9 1	Mercury 3.0S of Moon	19 5	Moon furthest South (-26.1)
9 5	NEW MOON	19 21	Jupiter 2.4N of Moon
9 23	Mars 3.8N of Moon	24 18	FULL MOON
10 4	Regulus 3.3N of Moon	25 8	Jupiter stationary
13 19	Uranus 5.7N of Moon	25 16	Mercury greatest elong W(18)
14 4	Mars 0.7N of Regulus	27 4	Venus greatest elong W(46)
14 11	Neptune stationary	28 20	Moon at perigee
14 11	Spica 3.1N of Moon	31 12	LAST QUARTER
September			
d h	d h	d h	d h
1 8	Saturn 4.6S of Moon	14 11	Antares 1.0S of Moon Occn
1 9	Moon furthest North (26.0)	15 13	Moon furthest South (-25.9)
3 23	Venus 2.2S of Moon	15 19	FIRST QUARTER
5 4	Mercury 1.0N of Regulus	16 7	Jupiter 2.1N of Moon
6 12	Regulus 3.4N of Moon	16 10	Mercury 0.7N of Mars
6 17	Mercury 4.7N of Moon	19 20	Mercury superior conjunction
7 10	Mars at conjunction	22 22	Equinox
7 15	Jupiter 2.8N of Moon	23 4	FULL MOON
7 17	NEW MOON	24 21	Pluto at conjunction
10 6	Uranus 5.6N of Moon	25 7	Moon at perigee
10 19	Spica 3.0N of Moon	28 15	Moon furthest North (25.9)
13 9	Moon at apogee	28 15	Saturn 4.4S of Moon
14 2	Neptune 5.6N of Moon	29 19	LAST QUARTER
October			
d h	d h	d h	d h
0 2	Mercury 0.3S of Uranus	11 22	Antares 1.2S of Moon
2 17	Saturn stationary	11 22	Uranus at conjunction
3 15	Venus 3.0N of Moon	12 21	Moon furthest South (-25.7)
3 18	Regulus 3.5N of Moon	13 20	Jupiter 1.6N of Moon
4 20	Venus 0.3S of Regulus	15 12	FIRST QUARTER
5 7	Mercury 2.0N of Spica	22 13	Spica 2.9N of Moon
6 11	Mars 5.0N of Moon	23 13	Moon at perigee
7 8	NEW MOON	25 22	Moon furthest North (25.7)
7 16	Uranus 5.6N of Moon	25 22	Saturn 4.3S of Moon
8 2	Spica 2.9N of Moon	29 4	LAST QUARTER
8 12	Mercury 4.5N of Moon	30 23	Regulus 3.7N of Moon
11 2	Moon at apogee	31 15	Mars 0.2N of Uranus
11 10	Neptune 5.3N of Moon		
November			
d h	d h	d h	d h
3 9	Mercury 4.3S of Neptune	14 4	FIRST QUARTER
4 2	Uranus 5.6N of Moon	17 3	Venus 1.2N of Uranus
4 6	Mars 5.8N of Moon	15 20	Mercury 3.8N of Spica
5 23	Jupiter 2.1N of Moon	21 23	FULL MOON
5 5	Mercury greatest elong E(23)	20 20	Moon at perigee
6 0	Mars 2.8N of Spica	21 0	Moon at apogee
6 1	NEW MOON	21 14	Mercury 4.0N of Antares
7 13	Moon at apogee	22 6	Saturn 4.2S of Moon
7 18	Neptune 5.1N of Moon	22 8	Moon furthest North (25.5)
8 4	Mercury 0.5N of Moon Occn	25 12	Mercury 0.9S of Neptune
8 5	Antares 1.3S of Moon	26 4	Mercury inferior conjunction
9 0	Mercury 1.8N of Antares	27 3	Neptune at conjunction
9 3	Moon furthest South (-25.5)	27 6	Regulus 3.9N of Moon
10 12	Jupiter 1.0N of Moon Occn	27 17	LAST QUARTER
December			
d h	d h	d h	d h
1 10	Uranus 5.8N of Moon	18 6	Mercury 0.2N of Neptune
1 14	Spica 3.1N of Moon	19 12	Moon at perigee
3 2	Mars 5.2N of Moon	19 14	Saturn 4.3S of Moon
4 13	Moon at apogee	19 19	Moon furthest North (25.4)
4 15	Venus 1.2N of Mars	20 9	FULL MOON
5 3	Neptune 5.0N of Moon	21 3	Mercury 6.0N of Antares
5 11	Antares 1.4S of Moon	21 18	Solstices
5 19	Mercury stationary	23 13	Venus 0.4S of Neptune
5 20	NEW MOON	24 15	Regulus 4.0N of Moon
6 8	Moon furthest South (-25.5)	26 7	Venus 5.7N of Antares
8 5	Jupiter 0.3N of Moon Occn	27 10	LAST QUARTER
9 1	Saturn at opposition	28 19	Uranus 5.9N of Moon
13 18	FIRST QUARTER	28 21	Spica 3.2N of Moon
14 14	Mercury greatest elong W(21)	31 22	Moon at apogee

Астрономические явления 1969			
January		July	
d h	d h	d h	d h
1 14	Moon at apogee	14 23	Antares 0.1N of Moon Occn
2 17	Moon furthest North (28.4)	16 9	Moon furthest South (-28.5)
3 0	Earth at perihelion	16 23	Moon at perigee
3 18	FULL MOON	18 4	NEW MOON
4 5	Pluto stationary	19 9	Mercury 4.6N of Moon
4 13	Pollux 2.0N of Moon	19 22	Mercury stationary
7 13	Regulus 2.4S of Moon	21 3	Jupiter stationary
8 14	Uranus stationary	21 17	Venus 1.1N of Moon Occn
6 11	Uranus 1.0N of Moon Occn	24 2	Saturn 4.0S of Moon
10 10	Jupiter 1.8N of Moon	25 6	FIRST QUARTER
11 13	LAST QUARTER	26 21	Venus greatest elong E(47)
11 17	Spica 0.3S of Moon Occn	29 3	Moon at apogee
12 18	Mars 4.3S of Moon	29 8	Mercury inferior conjunction
13 7	Mercury greatest elong E(19)	29 22	Moon furthest North (28.5)
14 5	Neptune 5.6N of Moon	31 20	Pollux 2.0N of Moon
February			
d h	d h	d h	d h
2 12	FULL MOON	14 3	Moon at perigee
3 19	Regulus 2.3S of Moon	16 16	NEW MOON
6 11	Uranus 1.0N of Moon Occn	20 4	Venus 2.1N of Moon
6 15	Jupiter 1.8N of Moon	20 15	Saturn 4.2S of Moon
7 23	Spica 0.1S of Moon Occn	22 10	Mars 0.5S of Neptune
10 0	LAST QUARTER	23 13	Mercury greatest elong W(27)
10 2	Mars 5.3N of Moon	24 4	FIRST QUARTER
10 4	Mercury stationary	25 2	Moon at apogee
12 17	Moon furthest South (-28.6)	26 2	Moon furthest North (28.7)
12 17	Moon furthest South (-28.6)	28 3	Pollux 1.9N of Moon
March			
d h	d h	d h	d h
1 4	Neptune stationary	17 4	Venus stationary
3 2	Regulus 2.2S of Moon	18 4	NEW MOON
4 5	FULL MOON	20 6	Saturn 4.4S of Moon
5 16	Uranus 1.0N of Moon Occn	20 8	Mars 5.4N of Antares
5 17	Jupiter 1.8N of Moon	20 10	Venus 5.0N of Moon
7 5	Spica 0.0N of Moon Occn	20 19	Equinox
10 6	Mars 5.8N of Moon	21 22	Jupiter at opposition
10 12	Antares 0.3N of Moon Occn	22 18	Uranus at opposition
11 7	LAST QUARTER	25 14	Moon furthest North (28.7)
11 19	Jupiter 0.8N of Uranus	25 19	Moon at apogee
11 23	Moon furthest South (-28.7)	26 0	FIRST QUARTER
13 1	Moon at perigee	27 12	Pollux 1.8N of Moon
14 13	Pluto at opposition	30 11	Regulus 2.2S of Moon
16 15	Mercury 0.1S of Moon Occn		
April			
d h	d h	d h	d h
1 19	Jupiter 1.6N of Moon	16 21	Saturn 4.7S of Moon
1 22	Uranus 0.9N of Moon Occn	17 13	Mercury 2.5S of Moon
2 18	FULL MOON	18 19	Saturn at conjunction
3 13	Spica 0.0N of Moon Occn	23 22	Moon furthest North (28.6)
6 18	Antares 0.3N of Moon Occn	22 13	Moon at apogee
7 0	Moon at perigee	23 20	Pollux 1.9N of Moon
7 3	Mars 5.5N of Moon	24 19	FIRST QUARTER
8 5	Moon furthest South (-28.7)	26 20	Regulus 2.1S of Moon
8 15	Venus inferior conjunction	27 2	Mars stationary
8 22	Mercury superior conjunction	27 8	Venus stationary
9 14	LAST QUARTER	29 0	Jupiter 1.3N of Moon
15 13	Mercury 2.1N of Saturn	29 6	Uranus 0.9N of Moon Occn
15 19	Venus 4.8N of Moon	30 22	Spica 0.1N of Moon Occn
16 18	NEW MOON		
May			
d h	d h	d h	d h
2 5	FULL MOON	20 4	Moon at apogee
4 2	Antares 0.2N of Moon Occn	21 3	Pollux 2.1N of Moon
4 2	Moon at perigee	22 11	Spica stationary
4 13	Mars 4.4N of Moon	24 4	Regulus 2.0S of Moon
5 11	Moon furthest South (-28.6)	24 12	FIRST QUARTER
5 22	Mercury greatest elong E(21)	26 7	Jupiter 1.3N of Moon
8 20	LAST QUARTER	26 13	Mercury 4.3N of Aldebaran
13 0	Venus 1.1S of Moon Occn	26 14	Uranus 1.0N of Moon Occn
14 18	Spica 0.6S of Moon	27 8	Spica 0.2N of Moon Occn
16 8	NEW MOON	28 9	Mercury inferior conjunction
17 17	Mercury 3.7S of Moon	31 12	Antares 0.2N of Moon Occn
18 11	Neptune at opposition	31 13	FULL MOON
19 5	Moon furthest North (28.5)	31 15	Mars at opposition
June			
d h	d h	d h	d h
1 15	Moon at perigee	18 6	Mercury greatest elong W(46)
2 14	Moon furthest South (-28.5)	20 11	Regulus 1.8S of Moon
2 14	Mars 2.4N of Antares	21 13	Solstices
7 3	LAST QUARTER	22 18	Jupiter 1.5N of Moon
7 14	Uranus stationary	22 22	Uranus 1.2N of Moon Occn
9 4	Mars nearest to Earth	23 1	FIRST QUARTER
10 23	Pluto stationary	23 11	Mercury 2.1N of Aldebaran
10 11	Mercury stationary	23 11	Mercury greatest elong W(22)
10 21	Venus 5.7S of Moon	24 17	Spica 0.4N of Moon Occn
10 22	Saturn 5.5S of Moon	27 11	Mars 1.5N of Moon
11 16	Venus 0.3S of Saturn	27 23	Antares 0.3N of Moon Occn
14 23	NEW MOON	29 6	Moon furthest South (-28.4)
15 10	Moon furthest North (28.4)	29 20	FULL MOON
16 14	Moon at ap		

Краткий астрономический календарь на 1970 год

(конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Астрономические явления 1970		
January		
d h	d h	d h
1 23 Earth at perihelion	13 Uranus stationary	
1 23 Spica 1.2N of Moon	14 Spica 1.3N of Venus	
2 16 Jupiter 5.0N of Moon	14 11 FIRST QUARTER	
3 22 Mercury stationary	19 14 Moon furthest North (28.4)	
4 19 Saturn stationary	21 18 Pollux 2.8N of Moon	
5 7 Antares 0.5N of Moon	22 12 FULL MOON	
6 13 Moon furthest South (-28.3)	22 20 Moon at apogee	
6 23 Pluto stationary	23 13 Mercury stationary	
7 23 Venus 3.2N of Moon	24 20 Regulus 0.7S of Moon Occn	
7 20 NEW MOON	24 20 Venus superior conjunction	
8 9 Moon at perigee	28 2 Uranus 3.0N of Moon	
8 13 Mercury 5.3N of Moon	29 7 Spica 1.4N of Moon	
12 2 Mars 1.2S of Moon	30 5 Jupiter 5.5N of Moon	
13 9 Mercury inferior conjunction	30 14 LAST QUARTER	
February		
d h	d h	d h
1 17 Antares 0.6N of Moon	15 20 Moon furthest North (28.5)	
2 22 Moon furthest South (-28.4)	18 0 Pollux 2.7N of Moon	
4 12 Mercury 5.0N of Moon	18 22 Moon at apogee	
5 22 Moon at perigee	20 7 Jupiter stationary	
6 1 Mercury greatest elong W(26)	21 2 Regulus 0.7S of Moon Occn	
6 7 NEW MOON	21 8 FULL MOON Eclipse	
6 12 Venus 0.6N of Moon	24 7 Uranus 3.0N of Moon	
10 0 Mars 2.7S of Moon	25 12 Spica 1.4N of Moon	
13 4 FIRST QUARTER	26 12 Jupiter 5.6N of Moon	
March		
d h	d h	d h
1 Antares 0.7N of Moon	17 7 Pollux 2.8N of Moon	
2 LAST QUARTER	18 11 Moon at apogee	
2 7 Moon furthest South (-28.5)	20 9 Regulus 0.6S of Moon Occn	
3 16 Neptune stationary	21 0 Equinox	
6 8 Moon at perigee	23 1 FULL MOON	
6 17 Mercury 1.3S of Moon	23 11 Uranus 3.0N of Moon	
8 20 Mars 4.6S of Moon	24 16 FULL MOON	
8 11 Venus 2.7S of Moon	24 18 Mercury superior conjunction	
10 22 Mars 3.8S of Moon	25 15 Spica 1.6N of Moon	
14 21 FIRST QUARTER	27 20 Antares at opposition	
15 3 Moon furthest North (28.5)	28 6 Uranus 0.6N of Moon Occn	
15 21 Mars 2.5N of Saturn	29 13 Moon furthest South (-28.5)	
17 1 Pluto at opposition	30 11 LAST QUARTER	
April		
d h	d h	d h
3 10 Moon at perigee	18 7 Mercury greatest elong E(20)	
6 4 NEW MOON	19 16 Uranus 2.9N of Moon	
7 7 Mercury 2.8S of Moon	21 2 Spica 1.4N of Moon	
7 12 Venus 4.6S of Moon	21 15 Jupiter at opposition	
8 20 Mars 4.6S of Moon	21 16 FULL MOON	
10 23 Venus 1.9N of Saturn	21 16 Jupiter 5.4N of Moon	
11 11 Moon furthest North (28.4)	24 12 Antares 0.5N of Moon Occn	
11 22 Mercury 4.2N of Saturn	25 18 Moon furthest South (-28.3)	
13 14 Pollux 4.2N of Moon	28 17 LAST QUARTER	
13 15 FIRST QUARTER	28 21 Mercury stationary	
15 7 Moon at apogee	30 4 Moon at perigee	
16 16 Regulus 0.5S of Moon		
May		
d h	d h	d h
2 23 Saturn at conjunction	16 23 Uranus 3.0N of Moon	
5 14 NEW MOON	17 19 Mercury 0.2S of Saturn	
6 0 Mercury 3.9S of Moon	18 10 Spica 1.3N of Moon	
6 23 Venus 4.1S of Moon	18 16 Jupiter 5.2N of Moon	
7 18 Mars 4.2S of Moon	20 23 Neptune at opposition	
8 20 Moon furthest North (28.2)	21 3 FULL MOON	
9 8 Mercury inferior conjunction	21 14 Mercury stationary	
9 9 Venus 0.2N of Mars	21 20 Antares 0.4N of Moon Occn	
10 22 Pollux 3.0N of Moon	23 1 Moon furthest South (-28.2)	
13 2 Moon at apogee	25 7 Moon at perigee	
13 10 FIRST QUARTER	27 22 LAST QUARTER	
14 0 Regulus 0.4S of Moon	30 0 Mercury 1.6S of Saturn	
June		
d h	d h	d h
4 2 NEW MOON	13 7 Uranus 3.1N of Moon	
5 3 Mercury greatest elong W(24)	14 19 Spica 1.7N of Moon	
5 3 Moon furthest North (28.1)	15 0 Jupiter 5.2N of Moon	
5 14 Mars 3.5S of Moon	18 5 Antares 0.4N of Moon Occn	
6 22 Venus 1.9S of Moon	19 9 Moon furthest South (-28.1)	
7 6 Pollux 3.2N of Moon	19 12 FULL MOON	
9 19 Moon at apogee	19 12 Mercury 3.9N of Aldebaran	
10 8 Regulus 0.2S of Moon	21 18 Moon at perigee	
10 16 Venus 4.8S of Pollux	21 19 Solstice	
11 21 Pluto stationary	22 23 Jupiter stationary	
12 4 FIRST QUARTER	26 4 LAST QUARTER	
12 17 Uranus stationary		
July		
d h	d h	d h
2 9 Moon furthest North (28.1)	11 19 FIRST QUARTER	
3 5 Mercury 3.4S of Moon	12 0 Venus 1.1N of Regulus	
3 15 NEW MOON	12 4 Spica 1.9N of Moon	
4 10 Mars 2.4S of Moon	12 10 Jupiter 5.3N of Moon	
4 14 Pollux 3.3N of Moon	12 13 Mercury 0.7N of Mars	
4 15 Earth at aphelion	15 15 Antares 0.5N of Moon Occn	
6 22 Mercury superior conjunction	16 18 Moon furthest South (-28.1)	
7 3 Mars 5.6S of Pollux	18 19 FULL MOON	
7 4 Venus 0.7N of Moon	19 21 Moon at perigee	
7 11 Moon at apogee	25 11 LAST QUARTER	
7 15 Regulus 0.0N of Moon	29 14 Moon furthest North (28.2)	
10 15 Uranus 3.3N of Moon	30 21 Mercury 0.3N of Regulus	
10 20 Mercury 5.0S of Pollux	31 20 Pollux 3.3N of Moon	
August		
d h	d h	d h
2 4 NEW MOON	14 7 Venus 1.3S of Uranus	
2 6 Mars 0.9S of Moon	16 12 Mercury greatest elong E(27)	
2 11 Mars at conjunction	17 3 FULL MOON Eclipse	
3 21 Moon at apogee	17 6 Moon at perigee	
3 22 Regulus 0.1N of Moon	23 20 LAST QUARTER	
4 12 Mercury 0.4N of Moon	25 20 Moon furthest North (28.3)	
6 7 Venus 2.2N of Moon	28 2 Pollux 3.3N of Moon	
7 0 Uranus 3.2N of Moon	29 11 Mercury stationary	
8 11 Spica 2.0N of Moon	31 1 Mars 0.7N of Moon Occn	
8 22 Jupiter 5.5N of Moon	31 1 Moon at apogee	
10 8 FIRST QUARTER	31 3 Venus 0.2S of Spica	
10 11 Neptune stationary	31 4 Regulus 0.2N of Moon Occn	
12 0 Antares 0.7N of Moon	31 22 NEW MOON Eclipse	
13 4 Moon furthest South (-28.2)		
September		
d h	d h	d h
1 5 Venus greatest elong E(46)	15 11 FULL MOON	
2 7 Mars 0.7N of Regulus	20 14 Pluto at conjunction	
2 13 Mercury 2.2S of Moon	21 4 Mercury stationary	
3 9 Uranus 3.6N of Moon	22 3 Moon furthest North (28.2)	
4 17 Spica 2.0N of Moon	22 9 LAST QUARTER	
5 2 Saturn stationary	23 10 Equinox	
5 2 Venus 1.6N of Moon	24 8 Pollux 3.4N of Moon	
5 12 Jupiter 5.6N of Moon	27 7 Moon at apogee	
8 8 Antares 0.7N of Moon	27 10 Regulus 0.2N of Moon Occn	
8 19 FIRST QUARTER	28 18 Mercury greatest elong W(18)	
9 12 Moon furthest South (-28.2)	28 21 Mars 2.4N of Moon	
11 23 Venus 4.5S of Jupiter	29 0 Mercury 2.3N of Moon	
12 18 Mercury inferior conjunction	30 14 NEW MOON	
14 17 Moon at perigee	30 18 Uranus 3.7N of Moon	
October		
d h	d h	d h
1 22 Spica 1.9N of Moon	21 16 Pollux 3.3N of Moon	
2 22 Mars 4.1S of Moon	22 2 LAST QUARTER	
3 13 Jupiter 5.6N of Moon	24 17 Regulus 0.4N of Moon Occn	
4 2 Venus 0.7S of Moon	24 22 Moon at apogee	
5 13 Antares 0.5N of Moon	27 9 Mercury superior conjunction	
6 18 Moon furthest South (-28.1)	27 16 Mars 3.9N of Moon	
8 4 FIRST QUARTER	28 4 Uranus 3.3N of Moon	
13 0 Moon at perigee	29 5 Spica 1.9N of Moon	
13 12 Mercury 1.1N of Uranus	30 6 NEW MOON	
14 20 FULL MOON	30 10 Mercury 4.8N of Moon	
19 11 Moon furthest North (28.0)	30 21 Jupiter 5.7N of Moon	
20 14 Venus stationary	31 13 Venus 1.1S of Moon Occn	
21 9 Mercury 3.2N of Spica		
November		
d h	d h	d h
1 19 Antares 0.4N of Moon	20 23 LAST QUARTER	
2 23 Moon furthest South (-27.9)	21 1 Regulus 0.6N of Moon Occn	
3 14 Mercury 1.2S of Jupiter	21 7 Moon at apogee	
6 12 FIRST QUARTER	23 8 Neptune at conjunction	
6 12 Mercury 4.6N of Venus	24 15 Uranus 4.2N of Moon	
7 7 Mars 0.4N of Uranus	25 12 Mars 5.1N of Moon	
9 7 Jupiter at conjunction	28 13 Spica 2.1N of Moon	
9 20 Moon at perigee	28 5 Mars 3.1N of Spica	
10 8 Venus inferior conjunction	28 21 Venus 4.4N of Moon	
11 8 Venus 5.1S of Jupiter	27 16 Jupiter 5.8N of Moon	
11 22 Saturn at opposition	28 21 NEW MOON	
13 5 Mercury 2.9S of Neptune	29 2 Antares 0.3N of Moon Occn	
13 7 FULL MOON	29 6 Venus stationary	
13 14 Mercury furthest North (27.9)	30 6 Moon furthest South (-27.8)	
18 0 Pollux 3.7N of Moon	30 7 Mercury 2.0N of Moon	
19 5 Mercury 2.8N of Antares		
December		
d h	d h	d h
5 5 Moon at perigee	22 2 Uranus 4.5N of Moon	
5 20 FIRST QUARTER	22 6 Solstice	
10 14 Mercury greatest elong E(21)	22 22 Spica 2.3N of Moon	
12 1 FULL MOON	24 8 Mars 5.8N of Moon	
13 4 Moon furthest North (27.8)	25 12 Jupiter 5.9N of Moon	
15 9 Pollux 3.9N of Moon	26 12 Antares 0.3N of Moon Occn	
18 9 Regulus 0.8N of Moon	27 14 Moon furthest South (-27.8)	
18 22 Mercury stationary	28 10 NEW MOON	
19 15 Moon at apogee	28 14 Mercury inferior conjunction	
20 21 LAST QUARTER	31 9 Moon at perigee	

Краткий астрономический календарь на 1971 год

(конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Астрономические явления 1971		
January		
d h	d h	d h
4 4 FIRST QUARTER	18 13 Uranus stationary	
4 13 Earth at perihelion	19 6 Mercury greatest elong W(24)	
5 4 Venus 3.0N of Jupiter	19 7 Spica 2.4N of Moon	
8 8 Mercury stationary	19 18 LAST QUARTER	
9 11 Moon furthest North (27.8)	20 18 Venus greatest elong W(47)	
9 12 Venus 2.2N of Neptune	22 4 Mars 5.8N of Moon	
9 13 Pluto stationary	22 22 Antares 0.5N of Moon Occn	
11 13 FULL MOON	23 23 Moon furthest South (-27.8)	
11 17 Pollux 4.0N of Moon	25 5 Mercury 3.9N of Moon	
14 17 Regulus 4.0N of Moon	26 1 Mars 0.3S of Jupiter	
16 11 Moon at apogee	26 22 NEW MOON	
17 7 Saturn stationary	27 7 Mars 1.1S of Neptune	
18 11 Uranus 4.7N of Moon	28 10 Moon at perigee	
February		
d h	d h	d h
1 7 Jupiter 0.7S of Neptune	15 14 Spica 2.5N of Moon	
2 14 FIRST QUARTER	18 12 LAST QUARTER	
5 16 Moon furthest North (27.9)	19 7 Antares 0.5N of Moon Occn	
6 23 Mars 5.0N of Antares	19 22 Mars 5.1N of Moon	
8 0 Pollux 4.0N of Moon	20 9 Moon furthest South (-27.8)	
11 17 FULL MOON Eclipse	20 15 Venus 4.7N of Moon	
11 0 Regulus 4.0N of Moon	24 19 Mercury 4.7S of Moon	
13 1 Moon at apogee	25 9 NEW MOON Eclipse	
14 17 Uranus 4.7N of Moon	25 20 Moon at perigee	
March		
d h	d h	d h
4 2 FIRST QUARTER	19 15 Pluto at opposition	
4 22 Moon furthest North (27.9)	19 17 Moon furthest South (-27.8)	
6 1 Neptune stationary	20 2 LAST QUARTER	
6 18 Mercury superior conjunction	20 13 Mars 3.6N of Moon	
7 5 Pollux 4.1N of Moon	21 6 Equinox	
10 7 Regulus 1.0N of Moon	23 13 Jupiter stationary	
12 2 FULL MOON	24 0 Venus 0.4S of Moon Occn	
12 3 Moon at apogee	26 4 Moon at perigee	
13 22 Uranus 4.4N of Moon	26 19 NEW MOON	
14 20 FULL MOON	28 1 Mercury 2.7S of Moon	
18 14 Antares 0.4N of Moon		
April		
d h	d h	d h
1 4 Mercury greatest elong E(19)	14 19 Antares 0.3N of Moon Occn	
1 11 Moon furthest North (27.7)	15 22 Moon furthest South (-27.6)	
1 22 Uranus at opposition	18 1 Mars 1.6N of Moon	
2 15 FIRST QUARTER	18 12 LAST QUARTER	
3 12 Pollux 4.2N of Moon	19 23 Mercury inferior conjunction	
6 13 Regulus 1.2N of Moon	22 19 Venus 4.7S of Moon	
8 7 Moon at apogee	23 17 Moon at perigee	
9 21 Mercury stationary	24 15 Neptune at conjunction	
10 1 Uranus 4.6N of Moon	25 4 NEW MOON	
10 20 FULL MOON	28 15 Moon furthest North (27.5)	
11 2 Spica 2.4N of Moon	30 19 Pollux 4.4N of Moon	
14 12 Jupiter 5.9N of Moon		
May		
d h	d h	d h
2 7 FIRST QUARTER	17 11 Saturn at conjunction	
2 7 Mercury stationary	17 19 Mercury greatest elong W(26)	
3 19 Regulus 1.3N of Moon	17 20 LAST QUARTER	
5 21 Moon at apogee	21 17 Moon at perigee	
7 6 Uranus 4.6N of Moon	22 5 Jupiter 0.7S of Neptune	
8 9 Spica 2.4N of Moon	23 9 Jupiter at opposition	
11 1 FULL MOON	24 15 Neptune at opposition	
11 13 Jupiter 5.8N of Moon	24 12 NEW MOON	
12 1 Antares 0.1N of Moon	26 0 Moon furthest North (27.4)	
13 4 Moon furthest South (-27.4)	28 4 Pollux 4.6N of Moon	
16 9 Mars 1.0S of Moon	30 13 Regulus 1.6N of Moon	
June		
d h	d h	d h
1 0 FIRST QUARTER	17 11 Moon at perigee	
2 15 Moon at apogee	17 22 Uranus stationary	
3 12 Uranus 4.7N of Moon	20 0 Venus 4.6N of Aldebaran	
4 16 Spica 2.6N of Moon	21 9 Mercury superior conjunction	
10 4 Mercury 0.4N of Saturn	21 11 Venus 5.4S of Moon	
7 14 Jupiter 5.9N of Moon	22 1 Solstice	
8 8 Antares 0.1N of Moon	22 8 Moon furthest North (27.3)	
9 0 FULL MOON	22 21 NEW MOON	
9 10 Moon furthest South (-27.3)	23 1 Mercury 2.2S of Moon	
11 13 Venus 0.7N of Saturn	24 13 Pollux 4.7N of Moon	
12 1 Mercury 5.0N of Aldebaran	27 12 Regulus 1.7N of Moon	
13 10 Mars 3.7S of Moon	30 8 Moon at apogee	
14 14 Pluto stationary	30 18 FIRST QUARTER	
16 1 LAST QUARTER	30 20 Uranus 4.9N of Moon	
July		
d h	d h	d h
2 0 Spica 2.8N of Moon	21 21 Pollux 4.7N of Moon	
2 14 Mercury 4.8S of Pollux	22 9 NEW MOON Eclipse	
4 3 Earth at aphelion	24 16 Mercury 0.8N of Moon Occn	
4 18 Jupiter 5.3N of Moon	24 20 Regulus 1.8N of Moon	
5 17 Antares 0.1N of Moon	25 2 Jupiter stationary	
6 17 Moon furthest South (-27.3)	26 6 Mercury 1.0S of Regulus	
8 10 FULL MOON	28 2 Moon at apogee	
12 15 Moon at perigee	28 5 Uranus 5.0N of Moon	
13 3 Mars stationary	29 8 Spica 2.8N of Moon	
15 5 LAST QUARTER	29 21 Mercury greatest elong E(27)	
19 14 Moon furthest North (27.4)	30 11 FIRST QUARTER	
21 12 Venus 1.9S of Moon		
August		
d h	d h	d h
1 2 Jupiter 5.9N of Moon	21 3 Regulus 1.8N of Moon	
2 2 Antares 0.2N of Moon	21 38 Mercury 2.7S of Moon	
3 2 Moon furthest South (-27.4)	24 16 Mars 4.5S of Regulus	
6 19 FULL MOON Eclipse	24 15 Uranus 5.0N of Moon	
9 1 Moon at perigee	24 19 Moon at apogee	
10 6 Mars at opposition	25 15 Spica 2.8N of Moon	
11 23 Mercury stationary	26 15 Mercury inferior conjunction	
12 2 Mars nearest to Earth	26 19 Mercury 5.5S of Venus	
12 0 Neptune stationary	27 18 Venus superior conjunction	
13 11 LAST QUARTER	28 13 Jupiter 5.8N of Moon	
15 20 Moon furthest North (27.4)	29 2 FIRST QUARTER	
18 4 Pollux 4.8N of Moon	29 11 Antares 0.2N of Moon Occn	
20 18 Venus 2.3N of Moon	30 11 Moon furthest South (-27.4)	
20 22 NEW MOON Eclipse	30 22 Mercury 3.7S of Regulus	
September		
d h	d h	d h
3 3 Mars 6.0S of Moon	19 14 NEW MOON	
4 9 Mercury stationary	20 4 Venus 5.2N of Moon	
5 4 FULL MOON	21 0 Uranus 5.0N of Moon	
6 5 Moon at perigee	21 6 Moon at apogee	
10 10 Mercury 0.6S of Regulus	21 22 Spica 2.7N of Moon	
11 2 Mars stationary	23 5 Pluto at conjunction	
11 18 LAST QUARTER	23 16 Equinox	
12 6 Mercury greatest elong W(18)	25 18 Jupiter 5.5N of Moon	
14 9 Pollux 4.8N of Moon	26 19 Moon furthest South (-27.2)	
16 4 Jupiter 1.0S of Neptune	27 17 FIRST QUARTER	
17 9 Regulus 1.9N of Moon	28 14 Uranus 0.3N of Uranus	
18 3 Mercury 3.8N of Moon	30 18 Mars 4.5S of Uranus	
19 8 Saturn stationary		
October		
d h	d h	d h
4 12 FULL MOON	18 8 Moon at apogee	
4 15 Moon at perigee	18 10 Uranus 5.1N of Moon	
6 16 Venus 3.0N of Spica	19 4 Spica 2.7N of Moon	
7 21 Uranus at conjunction	19 5 NEW MOON	
8 5 Mercury 0.5N of Uranus	20 1 Mercury 4.8N of Moon	
8 15 Mercury superior conjunction	20 15 Venus 5.4N of Moon	
9 9 Moon furthest North (27.2)	22 19 Jupiter 5.0N of Moon	
11 5 LAST QUARTER	23 0 Antares 0.1S of Moon Occn	
11 16 Pollux 5.0N of Moon	24 1 Moon furthest South (-27.0)	
13 18 Mercury 2.6N of Spica	27 5 FIRST QUARTER	
14 15 Regulus 2.0N of Moon	28 21 Mars 3.9S of Moon	

Краткий астрономический календарь на 1976 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Астрономические явления 1976			
January		July	
d h	d h	d h	d h
1 14 NEW MOON	20 10 Saturn at opposition	1 14 Regulus 5.3N of Moon	19 5 Venus 0.8N of Saturn
4 9 Earth at perihelion	23 13 Moon at perigee	3 7 Earth at aphelion	19 6 LAST QUARTER
7 2 Mercury greatest elong E(19)	20 20 Mars stationary	4 17 FIRST QUARTER	19 10 Moon at apogee
8 16 Moon at apogee	21 18 Pluto stationary	5 11 Spica 0.6S of Moon	21 12 Mercury 1.3N of Saturn
9 8 Jupiter 4.1S of Moon	23 5 Mercury inferior conjunction	6 3 Mars 0.7N of Regulus	21 17 Jupiter 0.5N of Moon
9 12 FIRST QUARTER	23 6 Spica 0.1N of Moon	6 3 Mars 0.7N of Regulus	21 17 Jupiter 0.5N of Moon
12 4 Venus 0.4N of Neptune	23 23 LAST QUARTER	6 3 Mars 0.7N of Regulus	21 17 Jupiter 0.5N of Moon
13 17 Aldebaran 3.7S of Moon	24 5 Uranus 1.3N of Moon	6 3 Mars 0.7N of Regulus	21 17 Jupiter 0.5N of Moon
13 17 Mercury stationary	26 21 Uranus 1.3N of Moon	6 3 Mars 0.7N of Regulus	21 17 Jupiter 0.5N of Moon
14 3 Mars 5.3N of Moon	27 9 Moon furthest South (-20.4)	6 3 Mars 0.7N of Regulus	21 17 Jupiter 0.5N of Moon
14 12 Moon furthest North (20.5)	28 8 Venus 2.4S of Moon	6 3 Mars 0.7N of Regulus	21 17 Jupiter 0.5N of Moon
14 4 FULL MOON	30 1 Mercury 1.3S of Moon	6 3 Mars 0.7N of Regulus	21 17 Jupiter 0.5N of Moon
17 10 Saturn 5.0N of Moon	31 6 NEW MOON	6 3 Mars 0.7N of Regulus	21 17 Jupiter 0.5N of Moon
19 12 Regulus 5.4N of Moon		6 3 Mars 0.7N of Regulus	21 17 Jupiter 0.5N of Moon
February			
d h	d h	d h	d h
3 18 Mercury stationary	15 22 Regulus 5.3N of Moon	1 4 Moon at perigee	20 3 Moon furthest North (19.6)
5 13 Moon at apogee	16 18 Mercury greatest elong W(26)	1 16 Spica 0.8S of Moon	20 3 Moon furthest North (19.6)
5 23 Jupiter 3.5S of Moon	17 10 Moon at perigee	2 9 Uranus 0.9N of Moon	20 3 Moon furthest North (19.6)
8 10 FIRST QUARTER	19 13 Spica 0.1S of Moon	2 22 FIRST QUARTER	25 6 Regulus 5.1N of Moon
9 2 Aldebaran 3.5S of Moon	21 5 Uranus 1.3N of Moon	3 9 Mercury 0.7N of Regulus	25 10 NEW MOON
10 17 Mars 5.4N of Moon	22 8 LAST QUARTER	5 2 Neptune 1.3S of Moon	26 8 Mercury greatest elong E(27)
10 21 Moon furthest North (20.3)	23 3 Neptune 0.9S of Moon	5 2 Neptune 1.3S of Moon	26 8 Mercury greatest elong E(27)
11 1 Uranus stationary	23 14 Moon furthest South (-20.2)	5 2 Neptune 1.3S of Moon	26 8 Mercury greatest elong E(27)
13 17 Saturn 5.1N of Moon	27 11 Venus 5.4S of Moon	5 2 Neptune 1.3S of Moon	26 8 Mercury greatest elong E(27)
15 16 FULL MOON	29 23 NEW MOON	5 2 Neptune 1.3S of Moon	26 8 Mercury greatest elong E(27)
March			
d h	d h	d h	d h
4 3 Moon at apogee	18 19 Uranus 1.2N of Moon	1 4 Moon at perigee	20 3 Moon furthest North (19.6)
4 17 Jupiter 2.8S of Moon	20 11 Equinox	1 16 Spica 0.8S of Moon	20 3 Moon furthest North (19.6)
8 10 Aldebaran 3.3S of Moon	21 10 Neptune 1.0S of Moon	2 9 Uranus 0.9N of Moon	20 3 Moon furthest North (19.6)
9 4 FIRST QUARTER	21 20 Moon furthest South (-20.0)	2 22 FIRST QUARTER	25 6 Regulus 5.1N of Moon
9 6 Moon furthest North (20.1)	22 18 LAST QUARTER	3 9 Mercury 0.7N of Regulus	25 10 NEW MOON
10 12 Mars 5.9N of Moon	27 17 Saturn stationary	5 2 Neptune 1.3S of Moon	26 8 Mercury greatest elong E(27)
12 1 Saturn 5.3N of Moon	28 18 Venus 5.6S of Moon	5 2 Neptune 1.3S of Moon	26 8 Mercury greatest elong E(27)
14 9 Regulus 5.3N of Moon	30 12 Mercury 4.3S of Moon	7 22 Venus 1.0N of Regulus	27 11 Mercury 0.5N of Moon
16 1 Neptune stationary	30 17 NEW MOON	9 23 FULL MOON	27 12 Mars 3.4N of Moon
16 2 FULL MOON	30 22 Pluto at opposition	16 4 Moon at apogee	28 2 Moon at perigee
19 22 Moon at perigee	31 9 Moon at apogee	18 0 LAST QUARTER	28 23 Spica 0.9S of Moon
17 22 Spica 0.2S of Moon		18 8 Jupiter 0.9N of Moon	29 16 Uranus 0.6N of Moon
April			
d h	d h	d h	d h
1 12 Jupiter 2.1S of Moon	15 4 Uranus 1.2N of Moon	1 3 FIRST QUARTER	21 16 Regulus 5.1N of Moon
1 17 Mercury superior conjunction	17 18 Neptune 1.1S of Moon	1 7 Neptune 1.5S of Moon	22 2 Mercury inferior conjunction
4 17 Aldebaran 3.2S of Moon	18 5 Moon furthest South (-19.9)	1 14 Mercury 3.7S of Mars	22 21 Equinox
5 13 Moon furthest North (19.9)	21 7 LAST QUARTER	2 1 Moon furthest South (-19.5)	23 14 Mercury 0.7N of Moon
7 18 FIRST QUARTER	25 5 Uranus at opposition	2 23 Mercury 4.9S of Venus	23 19 NEW MOON
9 8 Saturn 5.4N of Moon	27 12 Moon at apogee	8 11 Mercury stationary	23 3 Mars 1.6N of Moon
10 19 Regulus 5.4N of Moon	27 19 Jupiter at conjunction	8 12 FULL MOON	23 3 Mars 1.6N of Moon
12 9 Mercury 1.8N of Jupiter	28 2 Mercury greatest elong E(20)	11 4 Venus 0.4N of Mars	25 8 Spica 1.1S of Moon
14 6 Moon at perigee	28 4 Venus 3.0S of Moon	12 22 Moon at apogee	25 17 Venus 0.7N of Moon
14 9 Spica 0.4S of Moon	29 7 Jupiter 1.4S of Moon	14 19 Jupiter 1.2N of Moon	26 3 Uranus 0.4N of Moon
14 11 FULL MOON	29 10 NEW MOON	15 12 Aldebaran 2.5S of Moon	28 14 Neptune 1.6S of Moon
May			
d h	d h	d h	d h
1 5 Mercury 4.3N of Moon	13 20 FULL MOON	16 12 Moon furthest North (19.4)	24 4 Mars 2.4N of Spica
1 22 Aldebaran 3.1S of Moon	15 4 Neptune 1.1S of Moon	16 17 LAST QUARTER	24 8 Mercury stationary
2 19 Moon furthest North (19.9)	15 16 Moon furthest South (-19.9)	19 21 Jupiter stationary	29 8 Mercury stationary
3 12 Mars 4.9S of Pollux	20 12 Mercury inferior conjunction	20 11 Saturn 5.7N of Moon	30 11 FIRST QUARTER
3 18 Saturn 5.3N of Moon	20 21 LAST QUARTER	20 21 Venus 2.3N of Spica	30 19 Venus 0.4S of Uranus
3 5 FIRST QUARTER	24 21 Mercury 1.7S of Venus	October	
8 3 Regulus 5.3N of Moon	25 0 Moon at apogee	d h	d h
9 17 Mercury stationary	27 3 Jupiter 0.7S of Moon	4 17 Pluto at conjunction	23 5 NEW MOON
11 15 Venus 0.2S of Jupiter	28 2 Mercury 1.9S of Moon	7 21 Mercury greatest elong W(18)	23 13 Moon at perigee
11 20 Spica 0.4S of Moon	28 13 Venus 1.2N of Moon	8 4 FULL MOON	23 16 Uranus 0.2N of Moon
12 14 Mars 1.2N of Saturn	29 1 NEW MOON	10 12 Moon at apogee	23 21 Mars 0.5S of Moon
12 14 Uranus 1.2N of Moon	29 4 Aldebaran 3.1S of Moon	12 1 Jupiter 1.2N of Moon	25 4 Mercury 3.9S of Spica
12 16 Moon at perigee	30 1 Moon furthest North (19.9)	12 19 Aldebaran 2.4S of Moon	25 8 Venus 3.5N of Moon
June			
d h	d h	13 18 Moon furthest North (19.3)	26 0 Neptune 1.7S of Moon
1 16 Mercury stationary	18 4 Venus superior conjunction	16 8 LAST QUARTER	26 15 Moon furthest South (-19.3)
2 4 Saturn 5.3N of Moon	19 13 LAST QUARTER	18 1 Saturn 5.8N of Moon	28 11 Venus 3.3N of Antares
3 1 Neptune at opposition	21 6 Solstice	18 17 Mars 0.3S of Uranus	29 22 FIRST QUARTER
3 20 Venus 5.2N of Aldebaran	21 17 Moon at apogee	19 2 Regulus 5.2N of Moon	29 22 Uranus at conjunction
4 9 Regulus 5.4N of Moon	22 7 Mercury 3.0N of Aldebaran	22 11 Mercury 3.0N of Moon	30 21 Venus 2.9S of Neptune
5 12 FIRST QUARTER	23 23 Jupiter 0.1S of Moon	22 19 Spica 1.1S of Moon	
8 5 Spica 0.1S of Moon	25 12 Aldebaran 3.1S of Moon	November	
8 21 Uranus 1.2N of Moon	25 22 Mercury 1.0N of Moon	d h	d h
9 18 Moon at perigee	26 3 Pluto stationary	2 20 Mercury 0.2N of Uranus	20 6 Uranus 0.1S of Moon
11 13 Neptune 1.0S of Moon	26 9 Moon furthest North (19.9)	6 14 Moon at apogee	21 1 Moon at perigee
12 3 Moon furthest South (-19.9)	27 14 NEW MOON	6 23 FULL MOON	21 15 NEW MOON
12 4 FULL MOON	27 20 Venus 4.9N of Moon	7 10 Mercury superior conjunction	22 16 Mars 2.6S of Moon
15 9 Mercury greatest elong W(23)	29 15 Saturn 5.3N of Moon	8 1 Jupiter 1.0N of Moon	25 5 Mercury 4.4S of Moon
December			
d h	d h	9 7 Aldebaran 2.4S of Moon	22 13 Neptune 1.5S of Moon
1 16 Mercury stationary	18 4 Venus superior conjunction	10 1 Moon furthest North (19.3)	22 31 Mercury 3.1N of Antares
2 4 Saturn 5.3N of Moon	19 13 LAST QUARTER	13 7 Mercury 0.4S of Mars	23 3 Moon furthest South (-19.3)
3 1 Neptune at opposition	21 6 Solstice	14 11 Saturn 5.8N of Moon	25 1 Mars at conjunction
3 20 Venus 5.2N of Aldebaran	21 17 Moon at apogee	14 22 LAST QUARTER	25 9 Mercury 3.1S of Neptune
4 9 Regulus 5.4N of Moon	22 7 Mercury 3.0N of Aldebaran	15 10 Regulus 5.1N of Moon	28 6 Saturn stationary
5 12 FIRST QUARTER	23 23 Jupiter 0.1S of Moon	18 8 Jupiter at opposition	28 13 FIRST QUARTER
8 5 Spica 0.1S of Moon	25 12 Aldebaran 3.1S of Moon	19 6 Spica 1.2S of Moon	
8 21 Uranus 1.2N of Moon	25 22 Mercury 1.0N of Moon	December	
9 18 Moon at perigee	26 3 Pluto stationary	d h	d h
11 13 Neptune 1.0S of Moon	26 9 Moon furthest North (19.9)	3 18 Moon at apogee	17 18 Uranus 0.4S of Moon
12 3 Moon furthest South (-19.9)	27 14 NEW MOON	4 2 Mars 4.2N of Antares	19 11 Moon at perigee
12 4 FULL MOON	27 20 Venus 4.9N of Moon	5 0 Jupiter 0.8N of Moon	20 1 Neptune 2.0S of Moon
15 9 Mercury greatest elong W(23)	29 15 Saturn 5.3N of Moon	5 16 Neptune at conjunction	26 6 Mercury greatest elong E(20)
January			
d h	d h	6 7 Aldebaran 2.4S of Moon	23 13 Neptune 1.5S of Moon
1 16 Mercury stationary	18 4 Venus superior conjunction	6 18 FULL MOON	20 15 Moon furthest South (-19.3)
2 4 Saturn 5.3N of Moon	19 13 LAST QUARTER	7 8 Moon furthest North (19.3)	21 2 NEW MOON
3 1 Neptune at opposition	21 6 Solstice	10 4 Mars 1.9S of Neptune	21 27 Solstice
3 20 Venus 5.2N of Aldebaran	21 17 Moon at apogee	11 17 Saturn 5.8N of Moon	21 27 Mercury stationary
4 9 Regulus 5.4N of Moon	22 7 Mercury 3.0N of Aldebaran	12 16 Regulus 5.0N of Moon	28 7 FIRST QUARTER
5 12 FIRST QUARTER	23 23 Jupiter 0.1S of Moon	14 10 LAST QUARTER	31 9 Moon at apogee
8 5 Spica 0.1S of Moon	25 12 Aldebaran 3.1S of Moon	15 15 Spica 1.4S of Moon	
8 21 Uranus 1.2N of Moon	25 22 Mercury 1.0N of Moon	February	
9 18 Moon at perigee	26 3 Pluto stationary	d h	d h
11 13 Neptune 1.0S of Moon	26 9 Moon furthest North (19.9)	1 20 Jupiter 1.0S of Moon	17 11 Regulus 4.0N of Moon
12 3 Moon furthest South (-19.9)	27 14 NEW MOON	1 23 Venus 1.4S of Moon	21 12 Uranus 5.7N of Moon
12 4 FULL MOON	27 20 Venus 4.9N of Moon	4 15 NEW MOON	21 14 Spica 3.0N of Moon
15 9 Mercury greatest elong W(23)	29 15 Saturn 5.3N of Moon	3 18 Mercury 4.7S of Moon	25 3 LAST QUARTER
March			
d h	d h	10 14 FIRST QUARTER	25 5 Neptune 4.8N of Moon
1 16 Mercury stationary	18 4 Venus superior conjunction	12 3 Saturn 4.2S of Moon	25 9 Antares 1.6S of Moon
2 4 Saturn 5.3N of Moon	19 13 LAST QUARTER	12 12 Moon furthest North (25.3)	25 13 Moon at apogee
3 1 Neptune at opposition	21 6 Solstice	13 10 Moon at perigee	25 15 Mercury greatest elong E(18)
3 20 Venus 5.2N of Aldebaran	21 17 Moon at apogee	13 19 Saturn stationary	26 5 Moon furthest South (-25.3)
4 9 Regulus 5.4N of Moon	22 7 Mercury 3.0N of Aldebaran	15 21 Saturn 4.3S of Moon	31 18 Venus 0.2S of Jupiter
5 12 FIRST QUARTER	23 23 Jupiter 0.1S of Moon	16 9 Mercury 4.5N of Venus	
8 5 Spica 0.1S of Moon	25 12 Aldebaran 3.1S of Moon	April	
8 21 Uranus 1.2N of Moon	25 22 Mercury 1.0N of Moon	d h	d h
9 18 Moon at perigee	26 3 Pluto stationary	1 13 Mercury 5.1S of Moon	17 1 Uranus 5.6N of Moon
11 13 Neptune 1.0S of Moon	26 9 Moon furthest North (19.9)	1 11 NEW MOON	17 1 Spica 2.8N of Moon
12 3 Moon furthest South (-19.9)	27 14 NEW MOON	6 2 Moon at perigee	17 13 FULL MOON
12 4 FULL MOON	27 20 Venus 4.9N of Moon	6 22 Mars 0.8S of Jupiter	20 20 Neptune 4.4N of Moon
15 9 Mercury greatest elong W(23)	29 15 Saturn 5.3N of Moon	7 18 Saturn 3.5S of Moon	21 0 Antares 1.9S of Moon
May			
d h	d h	8 0 Moon furthest North (25.0)	21 21 Moon furthest South (-24.9)
2 20 NEW MOON	18 7 Antares 2.1S of Moon	9 19 Venus superior conjunction	22 2 Moon at apogee
3 7 Mercury 4.4S of Moon	18 20 FULL MOON	10 4 FIRST QUARTER	22 17 LAST QUARTER
4 5 Moon at perigee	19 13 Moon at apogee	10 16 Mercury greatest elong W(28)	26 3 Jupiter 3.0S of Moon
5 7 Saturn 3.0S of Moon	20 0 Venus 5.7N of Aldebaran	11 1 Uranus at opposition	27 2 Mars 5.0S of Moon
5 8 Moon furthest North (24.8)	20 8 Mercury superior conjunction	13 1 Regulus 4.2N of Moon	
9 12 FIRST QUARTER	23 14 Jupiter 3.4S of Moon	May	
10 7 Regulus 4.4N of Moon	25 8 LAST QUARTER	d h	d h
14 5 Mercury 5.7N of Moon	27 12 Neptune at opposition	2 20 NEW MOON	18 7 Antares 2.1S of Moon
14 12 Spica 3.8N of Moon	27 7 Venus 1.7N of Saturn	3 7 Mercury 4.4S of Moon	18 20 FULL MOON
17 1 FULL MOON	31 3 Mercury 2.9N of Saturn	4 5 Moon at perigee	19 13 Moon at apogee
18 1 Neptune 4.4N of Moon	31 6 Jupiter stationary	5 7 Saturn 3.0S of Moon	20 0 Venus 5.7N of Aldebaran
June			
d h	d h	5 8 Moon furthest North (24.8)	20 8 Mercury superior conjunction
1 4 NEW MOON	15 16 Moon at apogee	9 12 FIRST QUARTER	23 14 Jupiter 3.4S of Moon
1 7 Mercury 4.2N of Venus	16 20 FULL MOON	10 7 Regulus 4.4N of Moon	25 8 LAST QUARTER
1 14 Moon at perigee	18 23 Pluto stationary	14 5 Mercury 5.7N of Moon	27 12 Neptune at opposition
1 17 Moon furthest North (24.7)	19 13 Mercury 5.6S of Pollux	14 12 Spica 3.8N of Moon	27 7 Venus 1.7N of Saturn
1 23 Saturn 2.5S of Moon	19 19 Jupiter 3.5S of Moon	17 1 FULL MOON	31 3 Mercury 2.9N of Saturn
2 4 Venus 0.4S of Moon	21 13 Solstice	18 1 Neptune 4.4N of Moon	31 6 Jupiter stationary
2 5 Mercury 0.9N of Moon	22 15 Mercury greatest elong E(25)	July	
6 13 Regulus 4.3N of Moon	23 19 LAST QUARTER	d h	d h
7 21 FIRST QUARTER	24 12 Venus 5.3S of Pollux	1 4 NEW MOON	15 16 Moon at apogee
10 9 Uranus 5.8N of Moon	27 5 Uranus stationary	1 14 Moon at perigee	18 23 Pluto stationary
10 18 Spica 3.0N of Moon	29 4 Moon furthest North (24.6)	1 17 Moon furthest North (24.7)	19 13 Mercury 5.6S of Pollux
14 6 Neptune 4.4N of Moon	29 15 Saturn 2.1S of Moon	1 23 Saturn 2.5S of Moon	19 19 Jupiter 3.5S of Moon
14 13 Antares 2.1S of Moon	29 23 Moon at perigee	2 4 Venus 0.4S of Moon	21 13 Solstice
15 8 Moon furthest South (-24.7)	30 11 NEW MOON	2 5 Mercury 0.9N of Moon	22 15 Mercury greatest elong E(25)
15 9 Saturn at conjunction		6 13 Regulus 4.3N of Moon	23 19 LAST QUARTER
August			
d h	d h	7 21 FIRST QUARTER	24 12 Venus 5.3S of Pollux
4 0 Uranus 5.7N of Moon	21 10 LAST QUARTER	10 9 Uranus 5.8N of Moon	27 5 Uranus stationary
4 8 Spica 2.9N of Moon	22 11 Moon furthest North (24.5)	10 18 Spica 3.0N of Moon	29 4 Moon furthest North (24.6)
5 22 FIRST QUARTER	23 19 Saturn 1.4S of Moon	14 6 Neptune 4.4N of Moon	29 15 Saturn 2.1S of Moon
7 17 Neptune 4.4N of Moon	25 6 Moon at perigee	15 8 Moon furthest South (-24.6)	30 12 Jupiter at opposition
8 2 Antares 2.2S of Moon	27 16 Mercury 5.7N of Moon	15 11 FULL MOON	31 23 Venus 5.8N of Moon
8 18 Mercury greatest elong W(19)	27 18 Regulus 4.5N of Moon	September	
8 21 Moon furthest South (-24.5)	28 1 NEW MOON	d h	d h
9 10 Moon at apogee	28 8 Mercury 3.2N of Regulus	2 20 Mercury superior conjunction	20 4 Saturn 1.0S of Moon
12 9 Jupiter 3.2S of Moon	31 0 Venus 5.3N of Moon	4 0 Neptune 4.2N of Moon	20 22 Moon at perigee
14 2 FULL MOON	31 12 Uranus 5.4N of Moon	4 10 Antares 2.4S of Moon	23 4 Equinox
16 23 Neptune stationary	31 17 Spica 2.7N of Moon	4 15 FIRST QUARTER	24 3 Regulus 4.6N of Moon
October			
d h	d h	5 5 Moon furthest South (-24.4)	25 13 NEW MOON
2 20 Mercury superior conjunction	20 4 Saturn 1.0S of Moon	5 17 Venus 0.7S of Uranus	26 12 Mercury 1.3S of Uranus
4 0 Neptune 4.2N of Moon	20 22 Moon at perigee	6 3 Moon at apogee	27 13 Pluto at conjunction
4 10 Antares 2.4S of Moon	23 4 Equinox	7 19 Uranus 1.6N of Spica	27 23 Uranus 5.3N of Moon
4 15 FIRST QUARTER	24 3 Regulus 4.6N of Moon	8 22 Jupiter 3.2S of Moon	28 1 Mercury 3.9N of Moon
5 5 Moon furthest South (-24.4)	26 12 NEW MOON	12 15 FULL MOON	28 2 Spica 2.6N of Moon
5 17 Venus 0.7S of Uranus	27 16 Mercury 1.3S of Uranus	12 19 Moon furthest North (24.3)	28 8 Mercury 1.2N of Spica
6 3 Moon at apogee	27 13 Pluto at conjunction	19 13 Mars stationary	28 14 Jupiter stationary
7 19 Uranus 1.6N of Spica	27 23 Uranus 5.3N of Moon	19 16 LAST QUARTER	30 3 Venus 1.8N of Moon
8 22 Jupiter 3.2S of Moon	28 1 Mercury 3.9N of Moon	November	
12 15 FULL MOON	28 2 Spica 2.6N of Moon	d h	d h
12 19 Moon furthest North (24.3)	28 8 Mercury 1.2N of Spica	1 10 Neptune 3.9N of Moon	17 16 Venus 1.9N of Antares
19 13 Mars stationary	28 14 Jupiter stationary	1 18 Antares 2.6S of Moon	18 17 Mercury greatest elong E(25)
19 16 LAST QUARTER	30 3 Venus 1.8N of Moon	2 23 Moon furthest South (-24.2)	18 22 LAST QUARTER
December			
d h	d h	2 13 Moon at apogee	21 9 Regulus 4.8N of Moon
2 20 Mercury superior conjunction	20 4 Saturn 1.0S of Moon	3 15 FIRST QUARTER	25 8 Mars at opposition
4 0 Neptune 4.2N of Moon	20 22 Moon at perigee	4 5 Jupiter 3.3S of Moon	25 10 Spica 2.6N of Moon
4 10 Antares 2.4S of Moon	23 4 Equinox	12 3 FULL MOON	25 11 Uranus 5.2N of Moon
4 15 FIRST QUARTER	24 3 Regulus 4.6N of Moon	14 6 Venus 4.0S of Neptune	26 3 NEW MOON
5 5 Moon furthest South (-24.4)	26 12 NEW MOON	16 1 Moon at perigee	28 0 Mercury 0.1S of Moon
5 17 Venus 0.7S of Uranus	27 16 Mercury 1.3S of Uranus	16 8 Moon furthest North (24.1)	28 9 Neptune 3.6N of Moon
6 3 Moon at apogee	27 13 Pluto at conjunction	16 22 Uranus at conjunction	29 2 Antares 2.8S of Moon
7 19 Uranus 1.6N of Spica	27 23 Uranus 5.3N of Moon	17 3 Mars nearest to Earth	29 20 Moon furthest South (-24.0)
8 22 Jupiter 3.2S of Moon	28 1 Mercury 3.9N of Moon	17 5 Saturn stationary	30 3 Venus 2.6S of Moon
12 15 FULL MOON	28 2 Spica 2.6N of Moon	17 11 Saturn 0.8S of Moon	30 16 Mercury stationary
12 19 Moon furthest North (24.3)	28 8 Mercury 1.2N of Spica	17 14 Uranus 2.6N of Spica	31 18 Moon at apogee

Краткий астрономический календарь на 1980 год

(конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Астрономические явления 1980			
January		July	
d h	d h	d h	d h
1 2	Moon furthest North (19.2)	4 16	Moon at perigee
2 9	FULL MOON	5 7	LAST QUARTER
3 16	Earth at perihelion	5 13	Earth at aphelion
6 6	Regulus 0.5N of Moon	6 3	Pluto stationary
7 4	Jupiter 0.3N of Moon	6 17	Venus stationary
7 13	Mars 2.1N of Moon	9 6	Aldebaran 0.6S of Moon
8 1	Saturn stationary	9 18	Venus 0.2S of Moon
8 8	Moon at apogee	11 11	Moon furthest North (19.7)
8 14	Saturn 0.1S of Moon	11 19	Mercury inferior conjunction
10 11	LAST QUARTER	12 5	Mercury 2.1S of Moon
13 8	Uranus 4.8S of Moon	12 6	NEW MOON
15 8	Neptune 3.4S of Moon	15 9	Regulus 0.3S of Moon
February		August	
d h	d h	d h	d h
1 2	FULL MOON	1 3	Mercury greatest elong W(19)
2 14	Regulus 0.4N of Moon	3 12	LAST QUARTER
3 7	Jupiter 0.5N of Moon	5 12	Aldebaran 0.5S of Moon
3 17	Mars 2.9N of Moon	7 1	Venus 0.3S of Moon
4 20	Saturn 0.0N of Moon	7 18	Moon furthest North (19.7)
5 1	Moon at apogee	9 9	Mercury 1.9N of Moon
5 8	LAST QUARTER	10 19	NEW MOON
9 18	Uranus 5.0S of Moon	11 17	Regulus 0.4S of Moon
11 20	Neptune 3.5S of Moon	12 21	Jupiter 1.1S of Moon
12 23	Moon furthest South (-19.1)	13 20	Saturn 0.9S of Moon
16 8	NEW MOON	15 17	Moon at apogee
March		September	
d h	d h	d h	d h
1 5	Mars 3.9N of Moon	1 2	Neptune stationary
1 7	Jupiter 0.8N of Moon	1 18	Aldebaran 0.5S of Moon
1 20	FULL MOON	1 18	LAST QUARTER
2 23	Saturn 0.2N of Moon	3 14	Mercury 0.3N of Jupiter
3 11	Moon at apogee	4 0	Moon furthest North (19.7)
5 5	Mercury inferior conjunction	5 9	Venus 0.1S of Moon
8 1	Uranus 5.0S of Moon	7 23	Regulus 0.4S of Moon
9 23	LAST QUARTER	9 4	Mercury 1.3S of Saturn
10 5	Neptune 3.4S of Moon	12 10	NEW MOON
11 9	Moon furthest South (-19.2)	12 9	Jupiter 1.6S of Moon
13 8	Mars 3.5N of Regulus	10 9	Saturn 1.2S of Moon
14 2	Saturn at opposition	10 14	Mercury 2.8S of Moon
15 14	Mercury 2.9N of Moon	12 8	Moon at apogee
April		October	
d h	d h	d h	d h
2 19	Mercury greatest elong W(28)	1 3	LAST QUARTER
4 6	Uranus 4.8S of Moon	1 6	Moon furthest North (19.8)
5 13	Venus greatest elong E(46)	2 14	Mars 0.9S of Uranus
6 11	Neptune 3.3S of Moon	4 13	Venus 0.3S of Regulus
7 14	Mars stationary	5 5	Regulus 0.6S of Moon
7 16	Moon furthest South (-19.3)	5 7	Venus 0.8S of Moon
8 12	LAST QUARTER	7 22	Saturn 1.4S of Moon
10 3	Pluto at opposition	9 2	NEW MOON
13 8	Mercury 0.1N of Moon	9 15	Moon at apogee
14 6	Moon at perigee	10 22	Mercury greatest elong E(25)
15 3	NEW MOON	12 6	Uranus 4.8S of Moon
May		November	
d h	d h	d h	d h
1 10	Uranus 4.7S of Moon	1 11	Regulus 0.7S of Moon
4 6	Uranus 4.8S of Regulus	3 9	Mercury inferior conjunction
6 11	Neptune 3.1S of Moon	3 17	Venus 0.5S of Saturn
7 14	Mars stationary	4 3	Jupiter 2.3S of Moon
7 16	Moon furthest South (-19.3)	4 11	Saturn 1.7S of Moon
8 12	LAST QUARTER	4 13	Venus 2.2S of Moon
10 3	Pluto at opposition	5 17	Moon at apogee
13 8	Mercury 0.1N of Moon	7 3	Mercury 4.1S of Moon
14 6	Moon at perigee	7 20	NEW MOON
15 3	NEW MOON	8 16	Uranus 4.7S of Moon
June		December	
d h	d h	d h	d h
1 1	Moon furthest South (-19.6)	1 19	Jupiter 2.9S of Moon
6 17	LAST QUARTER	1 23	Saturn 1.9S of Moon
9 3	Moon at perigee	3 4	Moon at apogee
11 23	Aldebaran 0.6S of Moon	3 16	Mercury 0.2N of Uranus
12 3	Neptune at opposition	4 23	Venus 3.3S of Moon
12 20	NEW MOON	6 1	Uranus 4.7S of Moon
13 3	Venus 3.8N of Moon	6 9	Mercury 4.0S of Moon
14 2	Moon furthest North (19.7)	7 14	NEW MOON
14 13	Mercury greatest elong E(24)	7 8	Neptune 2.6S of Moon
14 18	Mercury 3.8N of Moon	9 13	Moon furthest South (-20.3)
15 7	Venus inferior conjunction	9 19	Mars 3.6S of Moon
18 0	Regulus 0.2S of Moon	12 0	Mercury 4.7N of Antares
July		January	
d h	d h	d h	d h
4 16	Moon at perigee	17 1	Jupiter 0.6S of Moon
5 7	LAST QUARTER	17 7	Saturn 0.6S of Moon
5 13	Earth at aphelion	18 6	Mars 3.3S of Moon
6 3	Pluto stationary	18 23	Moon at apogee
6 17	Venus stationary	20 5	FIRST QUARTER
9 6	Aldebaran 0.6S of Moon	22 5	Uranus 5.0S of Moon
9 18	Venus 0.2S of Moon	22 9	Mercury stationary
11 11	Moon furthest North (19.7)	24 11	Neptune 3.1S of Moon
11 19	Mercury inferior conjunction	25 22	Moon furthest South (-19.7)
12 5	Mercury 2.1S of Moon	27 18	FULL MOON
12 6	NEW MOON	30 14	Uranus stationary
15 9	Regulus 0.3S of Moon	30 23	Moon at perigee
August		February	
d h	d h	d h	d h
1 3	Mercury greatest elong W(19)	1 3	Mercury greatest elong W(19)
3 12	LAST QUARTER	3 12	Uranus 5.0S of Moon
5 12	Aldebaran 0.5S of Moon	5 12	FIRST QUARTER
7 1	Venus 0.3S of Moon	7 1	Mars 1.8N of Spica
7 18	Moon furthest North (19.7)	7 18	Moon furthest North (19.7)
9 9	Mercury 1.9N of Moon	9 9	Mercury 1.9N of Moon
10 19	NEW MOON	10 19	NEW MOON
11 17	Regulus 0.4S of Moon	11 17	Regulus 0.4S of Moon
12 21	Jupiter 1.1S of Moon	12 21	FULL MOON
13 20	Saturn 0.9S of Moon	13 20	Saturn 0.9S of Moon
15 17	Moon at apogee	15 17	Moon at apogee
September		March	
d h	d h	d h	d h
1 2	Neptune stationary	1 2	Neptune stationary
1 18	Aldebaran 0.5S of Moon	3 5	Saturn 5.9N of Moon
1 18	LAST QUARTER	4 14	Regulus 4.7N of Moon
3 14	Mercury 0.3N of Jupiter	5 17	FULL MOON
4 0	Moon furthest North (19.7)	8 9	Spica 1.9S of Moon
5 9	Venus 0.1S of Moon	8 20	Moon at perigee
7 23	Regulus 0.4S of Moon	9 15	Uranus 1.0S of Moon
9 4	Mercury 1.3S of Saturn	11 2	Neptune 2.5S of Moon
12 10	NEW MOON	12 11	LAST QUARTER
12 9	Jupiter 1.6S of Moon	12 14	Moon furthest South (-18.9)
10 9	Saturn 1.2S of Moon	14 18	Venus stationary
10 14	Mercury 2.8S of Moon	16 4	Mercury superior conjunction
October		April	
d h	d h	d h	d h
1 3	LAST QUARTER	1 0	Regulus 4.7N of Moon
1 6	Moon furthest North (19.8)	2 16	Pluto at opposition
2 14	Mars 0.9S of Uranus	4 4	FULL MOON
4 13	Venus 0.3S of Regulus	4 19	Spica 2.0S of Moon
5 5	Regulus 0.6S of Moon	7 22	FULL MOON
5 7	Venus 0.8S of Moon	7 22	Saturn 1.4S of Moon
7 22	Saturn 1.4S of Moon	9 2	NEW MOON
9 2	NEW MOON	9 15	Moon at apogee
9 15	Moon at apogee	10 22	Mercury greatest elong E(25)
10 22	Mercury greatest elong E(25)	12 6	Uranus 4.8S of Moon
12 6	Uranus 4.8S of Moon	12 20	Mars 5.7S of Moon
November		May	
d h	d h	d h	d h
1 11	Regulus 0.7S of Moon	1 4	Jupiter 4.8N of Moon
3 9	Mercury inferior conjunction	4 3	LAST QUARTER
3 17	Venus 0.5S of Saturn	4 15	Uranus at conjunction
4 3	Jupiter 2.3S of Moon	4 15	Saturn 4.8N of Moon
4 11	Saturn 1.7S of Moon	5 14	Regulus 4.2N of Moon
4 13	Venus 2.2S of Moon	5 14	Regulus 4.2N of Moon
5 17	Moon at apogee	5 14	Saturn 4.9N of Moon
7 3	Mercury 4.1S of Moon	7 22	Saturn 0.8N of Regulus
7 20	NEW MOON	9 13	Spica 2.9S of Moon
8 16	Uranus 4.7S of Moon	10 0	Venus 0.1N of Moon
10 7	Mars 2.3S of Neptune	10 21	Uranus 2.0S of Moon
10 19	Mars 5.1S of Moon	11 7	NEW MOON
10 19	Neptune 2.8S of Moon	12 7	Mercury 5.6S of Moon
December		June	
d h	d h	d h	d h
1 19	Jupiter 2.9S of Moon	1 14	Moon at perigee
1 23	Saturn 1.9S of Moon	1 16	Mercury 4.4N of Aldebaran
3 4	Moon at apogee	2 0	FULL MOON
3 16	Mercury 0.2N of Uranus	2 2	Neptune 2.5S of Moon
4 23	Venus 3.3S of Moon	2 17	Moon furthest South (-18.9)
6 1	Uranus 4.7S of Moon	4 9	Jupiter at conjunction
6 9	Mercury 4.0S of Moon	5 13	Neptune at opposition
7 14	NEW MOON	5 19	Saturn 5.7N of Moon
7 8	Neptune 2.6S of Moon	6 20	Uranus 1.4S of Mars
9 13	Moon furthest South (-20.3)	8 15	LAST QUARTER
9 19	Mars 3.6S of Moon	12 11	Mars 0.1N of Moon
9 19	Mars 3.6S of Moon	12 13	Venus 1.4S of Moon
12 0	Mercury 4.7N of Antares	14 21	Moon at apogee
14 5	Neptune at conjunction	15 6	Mercury 2.3N of Moon
15 1	FIRST QUARTER	15 8	Venus greatest elong W(46)
16 7	Venus 1.2N of Uranus	15 10	Aldebaran 1.8S of Moon
January		July	
d h	d h	d h	d h
17 1	Jupiter 0.8N of Moon	17 1	Moon furthest South (-19.2)
2 14	Aldebaran 2.3S of Moon	17 10	Mercury stationary
3 0	Earth at perihelion	18 1	Mercury 1.8S of Moon
3 16	Moon furthest North (19.3)	18 10	Mars 5.6S of Moon
5 12	FULL MOON	19 14	NEW MOON
6 8	Mercury inferior conjunction	23 8	Venus 3.0S of Moon
7 20	Saturn 5.7N of Moon	23 9	Pluto stationary
8 22	Regulus 4.9N of Moon	24 10	Venus greatest elong E(47)
12 17	Mercury 4.1N of Mars	27 5	FIRST QUARTER
12 19	LAST QUARTER	28 5	Moon at apogee
12 21	Spica 1.6S of Moon	28 10	Jupiter 1.2N of Moon
14 3	Uranus 0.6S of Moon	29 6	Mercury greatest elong W(25)
15 19	Jupiter stationary	29 22	Aldebaran 2.1S of Moon
16 9	Moon at perigee	31 1	Moon furthest North (19.1)
February		August	
d h	d h	d h	d h
1 3	LAST QUARTER	1 3	LAST QUARTER
8 23	Aldebaran 1.4S of Moon	8 23	Aldebaran 1.4S of Moon
8 23	Moon at apogee	8 23	Moon at apogee
9 11	Mars 4.0N of Moon	9 11	Mars 4.0N of Moon
8 23	Moon at apogee	10 8	Moon furthest North (18.6)
10 13	Jupiter 4.8N of Moon	10 13	Jupiter 4.8N of Moon
11 2	Mars 3.2N of Moon	11 2	Mars 3.2N of Moon
13 6	Saturn at conjunction	13 6	Saturn at conjunction
14 18	Saturn 5.2N of Moon	14 18	Saturn 5.2N of Moon
14 21	NEW MOON	14 21	NEW MOON
September		March	
d h	d h	d h	d h
4 22	Mars 0.5N of Jupiter	4 22	Mars 0.5N of Jupiter
5 5	Mercury inferior conjunction	5 5	Mercury inferior conjunction
5 7	Aldebaran 1.3S of Moon	5 7	Aldebaran 1.3S of Moon
5 14	LAST QUARTER	5 14	LAST QUARTER
5 17	Moon at apogee	5 17	Moon at apogee
6 16	Moon furthest North (18.5)	6 16	Moon furthest North (18.5)
7 6	Jupiter 4.7N of Moon	7 6	Jupiter 4.7N of Moon
11 2	Mars 3.2N of Moon	11 2	Mars 3.2N of Moon
10 17	Venus 4.8N of Moon	10 17	Venus 4.8N of Moon
11 9	Saturn 5.1N of Moon	11 9	Saturn 5.1N of Moon
11 19	Regulus 4.2N of Moon	11 19	Regulus 4.2N of Moon
12 10	Mercury 1.5N of Moon	12 10	Mercury 1.5N of Moon
October		April	
d h	d h	d h	d h
2 15	Aldebaran 1.2S of Moon	2 15	Aldebaran 1.2S of Moon
3 13	Moon at apogee	3 13	Moon at apogee
4 0	Moon furthest North (18.4)	4 0	Moon furthest North (18.4)
4 20	Jupiter 4.8N of Moon	4 20	Jupiter 4.8N of Moon
5 9	LAST QUARTER	5 9	LAST QUARTER
6 23	Pluto at conjunction	6 23	Pluto at conjunction
9 0	Saturn 5.0N of Moon	9 0	Saturn 5.0N of Moon
9 5	Regulus 4.2N of Moon	9 5	Regulus 4.2N of Moon
10 22	Venus 3.4N of Moon	10 22	Venus 3.4N of Moon
11 12	Mars 5.8S of Regulus	11 12	Mars 5.8S of Regulus
12 11	Regulus 1.3N of Moon	12 11	Regulus 1.3N of Moon
12 20	NEW MOON	12 20	NEW MOON
13 3	Spica 2.8S of Moon	13 3	Spica 2.8S of Moon
November		May	
d h	d h	d h	d h
12 12	Moon at perigee	12 12	Moon at perigee
13 0	Neptune 3.0S of Moon	13 0	Neptune 3.0S of Moon
13 18	Moon furthest South (-18.5)	13 18	Moon furthest South (-18.5)
16 22	Mercury 2.9N of Antares	16 22	Mercury 2.9N of Antares
17 21	FIRST QUARTER	17 21	FIRST QUARTER
21 1	Mercury 3.7S of Neptune	21 1	Mercury 3.7S of Neptune
20 14	Venus 0.8N of Uranus	20 14	Venus 0.8N of Uranus
25 17	FULL MOON	25 17	FULL MOON
26 15	Aldebaran 1.3S of Moon	26 15	Aldebaran 1.3S of Moon
27 20	Moon at apogee	27 20	Moon at apogee
31 8	Moon furthest North (18.5)	31 8	Moon furthest North (18.5)
December		June	
d h	d h	d h	d h
2 22	Regulus 4.0N of Moon	2 22	Regulus 4.0N of Moon
3 0	Mercury greatest elong E(21)	3 0	Mercury greatest elong E(21)
3 21	Mercury 2.9N of Neptune	3 21	Mercury 2.9N of Neptune
17 10	FIRST QUARTER	17 10	FIRST QUARTER
23 13	Mercury inferior conjunction	23 13	Mercury inferior conjunction
21 23	Solstice	21 23	Solstice
23 0	Jupiter at opposition	23 0	Jupiter at opposition
23 12	Aldebaran 1.2S of Moon	23 12	Aldebaran 1.2S of Moon
24 21	Neptune 3.6S of Moon	24 21	Neptune 3.6S of Moon
24 21	Moon at apogee	24 21	Moon at apogee
24 23	Moon furthest North (18.6)	24 23	Moon furthest North (18.6)
25 7	Jupiter 4.6N of Moon	25 7	Jupiter 4.6N of Moon
25 12	FULL MOON	25 12	FULL MOON
30 4	Regulus 3.8N of Moon	30 4	Regulus 3.8N of Moon
30 5	Saturn 4.7N of Moon	30 5	Saturn 4.7N of Moon

Краткий астрономический календарь на 1977 год

(конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Астрономические явления 1977			
January		July	
d h	d h	d h	d h
1 2	Jupiter 0.8N of Moon	17 1	Moon furthest South (-19.2)
2 14	Aldebaran 2.3S of Moon	17 10	Mercury stationary
3 0	Earth at perihelion	18 1	Mercury 1.8S of Moon
3 16	Moon furthest North (19.3)	18 10	Mars 5.6S of Moon
5 12	FULL MOON	19 14	NEW MOON
6 8	Mercury inferior conjunction	23 8	Venus 3.0S of Moon
7 20	Saturn 5.7N of Moon	23 9	Pluto stationary
8 22	Regulus 4.9N of Moon	24 10	Venus greatest elong E(47)
12 17	Mercury 4.1N of Mars	27 5	FIRST QUARTER
12 19	LAST QUARTER	28 5	Moon at apogee</

Краткий астрономический календарь на 1978 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Краткий астрономический календарь на 1979 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Table with columns for month (January to December), day (d), hour (h), and astronomical events for the year 1978. Includes planetary positions, conjunctions, oppositions, and eclipses.

Table with columns for month (January to December), day (d), hour (h), and astronomical events for the year 1979. Includes planetary positions, conjunctions, oppositions, and eclipses.

Краткий астрономический календарь на 1984 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Краткий астрономический календарь на 1981 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Астрономические явления 1984		July		August		September		October		November		December			
d h		d h		d h		d h		d h		d h		d h			
January															
1 22	Jupiter 1.3N of Moon	19 21	Moon at perigee	1 18	Regulus 4.6S of Moon	15 17	FULL MOON	1 12	Mars 0.2N of Moon	18 20	NEW MOON	1 11	Antares 4.3S of Moon		
2 5	Neptune 2.4N of Moon	20 12	Regulus 4.4S of Moon	2 22	Moon at perigee	16 14	Saturn stationary	1 3	Saturn at opposition	16 6	Antares 4.3S of Moon	1 11	Antares 4.3S of Moon		
2 19	Mercury 4.7N of Moon	25 4	LAST QUARTER	3 3	Mercury 4.8S of Pollux	16 14	Pluto stationary	1 3	Neptune 3.7N of Moon	1 3	Neptune 3.7N of Moon	1 11	Antares 4.3S of Moon		
3 2	Moon furthest South (-25.2)	25 4	LAST QUARTER	3 9	Earth at aphelion	18 13	Moon at apogee	1 14	Jupiter 2.9N of Moon	1 14	Jupiter 2.9N of Moon	1 11	Antares 4.3S of Moon		
3 5	NEW MOON	25 4	LAST QUARTER	6 13	Spica 5.5S of Moon	24 10	Aldebaran 5.9S of Moon	1 12	FIRST QUARTER	1 12	FIRST QUARTER	1 11	Antares 4.3S of Moon		
3 21	Earth at perihelion	25 9	Mars 1.5S of Moon	7 17	Saturn 0.2N of Moon	26 0	Mercury 0.7S of Regulus	8 0	Mars 4.0S of Moon	1 12	Mars 4.0S of Moon	1 11	Antares 4.3S of Moon		
19	Moon at apogee	25 23	Venus 0.0N of Neptune	8 0	Mars 4.0S of Moon	26 15	Moon furthest North (26.0)	8 14	Moon at apogee	1 12	Mars 4.0S of Moon	1 11	Antares 4.3S of Moon		
10 17	Venus 1.8N of Uranus	26 0	Saturn 0.2S of Moon	8 17	Venus 5.7S of Pollux	27 14	Pollux 2.9N of Moon	8 14	Moon at apogee	1 12	Mars 4.0S of Moon	1 11	Antares 4.3S of Moon		
11 1	Mercury stationary	27 1	Venus 0.8N of Jupiter	9 22	Antares 4.2S of Moon	28 11	NEW MOON	8 14	Moon at apogee	1 12	Mars 4.0S of Moon	1 11	Antares 4.3S of Moon		
11 9	FIRST QUARTER	27 21	Antares 5.0S of Moon	9 23	Uranus 0.4N of Moon	28 8	Venus 3.4S of Moon	8 14	Moon at apogee	1 12	Mars 4.0S of Moon	1 11	Antares 4.3S of Moon		
15 5	Aldebaran 5.0S of Moon	28 2	Uranus 0.1S of Moon	11 10	Neptune 3.3N of Moon	30 2	Regulus 4.5S of Moon	1 12	Mars 4.0S of Moon	1 12	Mars 4.0S of Moon	1 11	Antares 4.3S of Moon		
17 9	Moon furthest North (25.3)	28 12	Neptune 2.6N of Moon	11 23	Jupiter 2.7N of Moon	30 12	Moon at perigee	1 12	Mars 4.0S of Moon	1 12	Mars 4.0S of Moon	1 11	Antares 4.3S of Moon		
18 6	Pollux 3.3N of Moon	29 16	Jupiter 1.9N of Moon	12 5	Moon furthest South (-26.0)	31 21	Mercury greatest elong E(27)	1 12	Mars 4.0S of Moon	1 12	Mars 4.0S of Moon	1 11	Antares 4.3S of Moon		
18 14	FULL MOON	30 8	Venus 2.8N of Moon					1 12	Mars 4.0S of Moon	1 12	Mars 4.0S of Moon	1 11	Antares 4.3S of Moon		
19 17	Jupiter 0.9S of Neptune	30 22	Moon furthest South (-25.3)					1 12	Mars 4.0S of Moon	1 12	Mars 4.0S of Moon	1 11	Antares 4.3S of Moon		
		30 22	Mercury 2.8N of Moon					1 12	Mars 4.0S of Moon	1 12	Mars 4.0S of Moon	1 11	Antares 4.3S of Moon		
February															
1 23	NEW MOON	20 18	Spica 5.9S of Moon	2 19	Spica 5.4S of Moon	18 6	Mercury 5.8S of Venus	2 19	Spica 5.4S of Moon	18 6	Mercury 5.8S of Venus	2 19	Spica 5.4S of Moon	18 6	Mercury 5.8S of Venus
4 8	Moon at apogee	22 9	Saturn 0.2N of Moon	3 23	Saturn 0.2N of Moon	18 6	Uranus stationary	3 23	Saturn 0.2N of Moon	18 6	Uranus stationary	3 23	Saturn 0.2N of Moon	18 6	Uranus stationary
9 19	Pluto stationary	22 14	Mars 0.4S of Moon	4 2	FIRST QUARTER	19 18	LAST QUARTER	4 2	FIRST QUARTER	19 18	LAST QUARTER	4 2	FIRST QUARTER	19 18	LAST QUARTER
10 3	FIRST QUARTER	23 17	LAST QUARTER	4 23	Mars 3.3S of Moon	23 19	Moon furthest North (26.2)	4 23	Mars 3.3S of Moon	23 19	Moon furthest North (26.2)	4 23	Mars 3.3S of Moon	23 19	Moon furthest North (26.2)
11 15	Aldebaran 5.2S of Moon	24 2	Antares 4.8S of Moon	5 3	Antares 4.8S of Moon	24 1	Pollux 2.8N of Moon	5 3	Antares 4.8S of Moon	24 1	Pollux 2.8N of Moon	5 3	Antares 4.8S of Moon	24 1	Pollux 2.8N of Moon
12 20	Moon furthest North (25.4)	24 2	Antares 4.8S of Moon	6 3	Uranus 0.5N of Moon	24 1	Equinox	6 3	Uranus 0.5N of Moon	24 1	Equinox	6 3	Uranus 0.5N of Moon	24 1	Equinox
14 17	Pollux 3.4N of Moon	25 5	Saturn stationary	7 12	Venus 1.0N of Regulus	26 12	Regulus 4.5N of Antares	7 12	Venus 1.0N of Regulus	26 12	Regulus 4.5N of Antares	7 12	Venus 1.0N of Regulus	26 12	Regulus 4.5N of Antares
14 23	Mars 0.8S of Saturn	25 19	Neptune 2.9N of Moon	7 15	Neptune 3.4N of Moon	26 19	NEW MOON	7 15	Neptune 3.4N of Moon	26 19	NEW MOON	7 15	Neptune 3.4N of Moon	26 19	NEW MOON
17 0	FULL MOON	26 7	Jupiter 2.5N of Moon	8 10	Moon furthest South (-26.1)	28 5	Venus 3.4S of Moon	8 10	Moon furthest South (-26.1)	28 5	Venus 3.4S of Moon	8 10	Moon furthest South (-26.1)	28 5	Venus 3.4S of Moon
17 3	Regulus 4.4S of Moon	26 13	Moon furthest South (-25.5)	11 15	FULL MOON	28 14	Mercury inferior conjunction	11 15	FULL MOON	28 14	Mercury inferior conjunction	11 15	FULL MOON	28 14	Mercury inferior conjunction
17 8	Moon at perigee	29 5	Venus 3.8N of Moon	12 13	Uranus 4.6N of Antares	29 22	Jupiter stationary	12 13	Uranus 4.6N of Antares	29 22	Jupiter stationary	12 13	Uranus 4.6N of Antares	29 22	Jupiter stationary
				14 1	Mercury stationary	30 7	Spica 5.2S of Moon	14 1	Mercury stationary	30 7	Spica 5.2S of Moon	14 1	Mercury stationary	30 7	Spica 5.2S of Moon
				15 4	Moon at apogee	31 8	Saturn 0.4N of Moon	15 4	Moon at apogee	31 8	Saturn 0.4N of Moon	15 4	Moon at apogee	31 8	Saturn 0.4N of Moon
March															
2 6	Mercury 2.9N of Moon	19 4	Spica 5.7S of Moon	2 8	Mars 1.7S of Moon	18 9	LAST QUARTER	2 8	Mars 1.7S of Moon	18 9	LAST QUARTER	2 8	Mars 1.7S of Moon	18 9	LAST QUARTER
2 10	Moon at apogee	20 10	Equinox	2 9	Antares 3.9S of Moon	19 9	Moon furthest North (26.4)	2 9	Antares 3.9S of Moon	19 9	Moon furthest North (26.4)	2 9	Antares 3.9S of Moon	19 9	Moon furthest North (26.4)
2 18	NEW MOON	20 17	Saturn 0.5N of Moon	2 9	Uranus 0.7N of Moon	20 10	Pollux 2.6N of Moon	2 9	Uranus 0.7N of Moon	20 10	Pollux 2.6N of Moon	2 9	Uranus 0.7N of Moon	20 10	Pollux 2.6N of Moon
8 17	Mercury superior conjunction	21 12	Mars 0.3N of Moon	2 10	FIRST QUARTER	20 11	Venus 2.6N of Spica	2 10	FIRST QUARTER	20 11	Venus 2.6N of Spica	2 10	FIRST QUARTER	20 11	Venus 2.6N of Spica
8 22	Aldebaran 5.4S of Moon	22 10	Antares 4.6S of Moon	2 16	Mars 2.4S of Antares	22 20	Equinox	2 16	Mars 2.4S of Antares	22 20	Equinox	2 16	Mars 2.4S of Antares	22 20	Equinox
10 18	FIRST QUARTER	22 18	Uranus 0.4N of Moon	3 20	Mars 2.4S of Uranus	22 23	Regulus 4.6N of Moon	3 20	Mars 2.4S of Uranus	22 23	Regulus 4.6N of Moon	3 20	Mars 2.4S of Uranus	22 23	Regulus 4.6N of Moon
12 5	Moon furthest North (25.6)	24 3	Neptune 3.1N of Moon	3 20	Neptune 3.5N of Moon	24 5	Mercury 3.0S of Moon	3 20	Neptune 3.5N of Moon	24 5	Mercury 3.0S of Moon	3 20	Neptune 3.5N of Moon	24 5	Mercury 3.0S of Moon
13 3	Pollux 3.2N of Moon	24 8	LAST QUARTER	4 4	Jupiter 2.6N of Moon	25 3	Moon at perigee	4 4	Jupiter 2.6N of Moon	25 3	Moon at perigee	4 4	Jupiter 2.6N of Moon	25 3	Moon at perigee
13 15	Regulus 4.4S of Moon	24 10	Moon furthest South (-25.7)	4 16	Moon furthest South (-26.3)	25 3	NEW MOON	4 16	Moon furthest South (-26.3)	25 3	NEW MOON	4 16	Moon furthest South (-26.3)	25 3	NEW MOON
16 20	Moon at perigee	24 21	Jupiter 2.9N of Moon	6 6	Mercury stationary	26 12	Spica 5.0S of Moon	6 6	Mercury stationary	26 12	Spica 5.0S of Moon	6 6	Mercury stationary	26 12	Spica 5.0S of Moon
17 10	FULL MOON	29 16	Moon at apogee	9 22	Neptune stationary	27 1	Venus 2.3S of Moon	9 22	Neptune stationary	27 1	Venus 2.3S of Moon	9 22	Neptune stationary	27 1	Venus 2.3S of Moon
18 6	Uranus stationary	30 15	Venus 3.5N of Moon	10 7	FULL MOON	27 21	Saturn 0.7N of Moon	10 7	FULL MOON	27 21	Saturn 0.7N of Moon	10 7	FULL MOON	27 21	Saturn 0.7N of Moon
				11 13	Moon at apogee	27 18	Antares 3.7S of Moon	11 13	Moon at apogee	27 18	Antares 3.7S of Moon	11 13	Moon at apogee	27 18	Antares 3.7S of Moon
				14 7	Mercury greatest elong W(18)	29 18	Uranus 1.0N of Moon	14 7	Mercury greatest elong W(18)	29 18	Uranus 1.0N of Moon	14 7	Mercury greatest elong W(18)	29 18	Uranus 1.0N of Moon
April															
1 12	NEW MOON	17 23	Mars 0.1S of Moon	1 12	Mars 0.2N of Moon	20 0	Spica 5.0S of Moon	1 12	Mars 0.2N of Moon	20 0	Spica 5.0S of Moon	1 12	Mars 0.2N of Moon	20 0	Spica 5.0S of Moon
2 14	Neptune stationary	18 20	Antares 4.4S of Moon	1 3	Neptune 3.7N of Moon	20 12	NEW MOON	1 3	Neptune 3.7N of Moon	20 12	NEW MOON	1 3	Neptune 3.7N of Moon	20 12	NEW MOON
3 4	Mercury greatest elong E(19)	19 17	Uranus 0.5N of Moon	1 14	Jupiter 2.9N of Moon	25 4	Mercury 2.1S of Moon	1 14	Jupiter 2.9N of Moon	25 4	Mercury 2.1S of Moon	1 14	Jupiter 2.9N of Moon	25 4	Mercury 2.1S of Moon
3 4	Mercury 5.6N of Moon	20 11	Neptune 3.3N of Moon	1 12	FIRST QUARTER	25 13	Pluto at conjunction	1 12	FIRST QUARTER	25 13	Pluto at conjunction	1 12	FIRST QUARTER	25 13	Pluto at conjunction
5 2	Mars stationary	20 16	Pluto at opposition	1 12	FIRST QUARTER	25 13	Saturn 1.0N of Moon	1 12	FIRST QUARTER	25 13	Saturn 1.0N of Moon	1 12	FIRST QUARTER	25 13	Saturn 1.0N of Moon
6 12	Aldebaran 5.6S of Moon	21 4	Moon furthest South (-25.9)	1 12	FIRST QUARTER	25 13	Saturn 1.0N of Moon	1 12	FIRST QUARTER	25 13	Saturn 1.0N of Moon	1 12	FIRST QUARTER	25 13	Saturn 1.0N of Moon
6 12	Moon furthest North (25.8)	22 4	Mercury inferior conjunction	1 12	FIRST QUARTER	25 13	Saturn 1.0N of Moon	1 12	FIRST QUARTER	25 13	Saturn 1.0N of Moon	1 12	FIRST QUARTER	25 13	Saturn 1.0N of Moon
9 4	FIRST QUARTER	22 4	Mercury inferior conjunction	1 12	FIRST QUARTER	25 13	Saturn 1.0N of Moon	1 12	FIRST QUARTER	25 13	Saturn 1.0N of Moon	1 12	FIRST QUARTER	25 13	Saturn 1.0N of Moon
9 10	Pollux 3.0N of Moon	22 4	LAST QUARTER	1 12	FIRST QUARTER	25 13	Saturn 1.0N of Moon	1 12	FIRST QUARTER	25 13	Saturn 1.0N of Moon	1 12	FIRST QUARTER	25 13	Saturn 1.0N of Moon
12 0	Mercury stationary	26 10	Moon at apogee	1 12	FIRST QUARTER	25 13	Saturn 1.0N of Moon	1 12	FIRST QUARTER	25 13	Saturn 1.0N of Moon	1 12	FIRST QUARTER	25 13	Saturn 1.0N of Moon
12 0	Regulus 4.6S of Moon	29 19	Jupiter stationary	1 12	FIRST QUARTER	25 13	Saturn 1.0N of Moon	1 12	FIRST QUARTER	25 13	Saturn 1.0N of Moon	1 12	FIRST QUARTER	25 13	Saturn 1.0N of Moon
14 4	Moon at perigee	30 1	Mercury 2.6N of Moon	1 12	FIRST QUARTER	25 13	Saturn 1.0N of Moon	1 12	FIRST QUARTER	25 13	Saturn 1.0N of Moon	1 12	FIRST QUARTER	25 13	Saturn 1.0N of Moon
15 15	Spica 5.6S of Moon	30 1	Venus 1.9N of Moon	1 12	FIRST QUARTER	25 13	Saturn 1.0N of Moon	1 12	FIRST QUARTER	25 13	Saturn 1.0N of Moon	1 12	FIRST QUARTER	25 13	Saturn 1.0N of Moon
15 19	FULL MOON	30 3	Mercury 0.6N of Venus	1 12	FIRST QUARTER	25 13	Saturn 1.0N of Moon	1 12	FIRST QUARTER	25 13	Saturn 1.0N of Moon	1 12	FIRST QUARTER	25 13	Saturn 1.0N of Moon
17 1	Saturn 0.6N of Moon			1 12	FIRST QUARTER	25 13	Saturn 1.0N of Moon	1 12	FIRST QUARTER	25 13	Saturn 1.0N of Moon	1 12	FIRST QUARTER	25 13	Saturn 1.0N of Moon
May															
1 3	NEW MOON	16 6	Antares 4.3S of Moon	1 12	FIRST QUARTER	25 13	Saturn 1.0N of Moon	1 12	FIRST QUARTER	25 13	Saturn 1.0N of Moon	1 12	FIRST QUARTER	25 13	Saturn 1.0N of Moon
3 8	Saturn at opposition	16 11	Uranus 0.5N of Moon	1 12	FIRST QUARTER	25 13	Saturn 1.0N of Moon	1 12	FIRST QUARTER	25 13	Saturn 1.0N of Moon	1 12	FIRST QUARTER	25 13	Saturn 1.0N of Moon
3 9	Aldebaran 5.7S of Moon	17 20	Neptune 3.3N of Moon	1 12	FIRST QUARTER	25 13	Saturn 1.0N of Moon	1 12	FIRST QUARTER	25 13	Saturn 1.0N of Moon	1 12	FIRST QUARTER	25 13	Saturn 1.0N of Moon
4 12	Mercury stationary	18 13	Moon furthest South (-25.9)	1 12	FIRST QUARTER	25 13	Saturn 1.0N of Moon	1 12	FIRST QUARTER	25 13	Saturn 1.0N of Moon	1 12	FIRST QUARTER	25 13	Saturn 1.0N of Moon
5 17	Moon furthest North (25.9)	18 17	Jupiter 3.2N of Moon	1 12	FIRST QUARTER	25 13	Saturn 1.0N of Moon	1 12	FIRST QUARTER	25 13	Saturn 1.0N of Moon	1 12	FIRST QUARTER	25 13	Saturn 1.0N of Moon
6 16	Pollux 2.9N of Moon	19 11	Mars nearest to Earth	1 12	FIRST QUARTER	25 13	Saturn 1.0N of Moon	1 12	FIRST QUARTER	25 13	Saturn 1.0N of Moon	1 12	FIRST QUARTER	25 13	Saturn 1.0N of Moon
8 11	FIRST QUARTER	19 22	Mercury greatest elong W(26)	1 12	FIRST QUARTER	25 13	Saturn 1.0N of Moon	1 12	FIRST QUARTER	25 13	Saturn 1.0N of Moon	1 12	FIRST QUARTER	25 13	Saturn 1.0N of Moon
9 7	Regulus 4.7S of Moon	22 17	LAST QUARTER	1 12	FIRST QUARTER	25 13	Saturn 1.0N of Moon	1 12	FIRST QUARTER	25 13	Saturn 1.0N of Moon	1 12	FIRST QUARTER	25 13	Saturn 1.0N of Moon
9 8	Mars at opposition	24 18	Moon at apogee	1 12	FIRST QUARTER	25 13	Saturn 1.0N of Moon	1 12	FIRST QUARTER	25 13	Saturn 1.0N of Moon	1 12	FIRST QUARTER	25 13	Saturn 1.0N of Moon

Краткий астрономический календарь на 1982 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Краткий астрономический календарь на 1983 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Table with columns for months (January to December) and astronomical events (d h, description, d h). Includes events like Mercury inferior conjunction, Earth at perihelion, and various planetary positions.

Table with columns for months (January to December) and astronomical events (d h, description, d h). Includes events like Saturn stationary, Earth at perihelion, and various planetary positions.

Краткий астрономический календарь на 1988 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Краткий астрономический календарь на 1985 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Астрономические явления 1988				
January		July		
d h	d h	d h	d h	
2 22	Moon furthest North (28.4)	17 6	Moon furthest South (-28.5)	
4 1	Earth at perihelion	17 21	Neptune 5.9N of Moon	
4 1	FULL MOON	19 5	NEW MOON	
4 21	Pollux 2.2N of Moon	19 21	Moon at perigee	
7 5	Moon at apogee	20 9	Mercury 2.0N of Moon	
7 23	Regulus 1.8S of Moon	21 19	Venus 0.1N of Moon Occn	
12 6	LAST QUARTER	23 0	Mars 4.8N of Antares	
12 6	Spica 0.3N of Moon	Occn	Jupiter 3.5S of Moon	
15 13	Mars 5.1N of Moon	25 21	FIRST QUARTER	
15 22	Antares 0.3N of Moon	26 13	Mercury greatest elong E(18)	
17 5	Uranus 4.9N of Moon	30 3	Moon furthest North (28.6)	
February		August		
d h	d h	d h	d h	
1 4	Pollux 2.2N of Moon	14 6	Neptune 5.9N of Moon	
1 15	Mercury stationary	17 9	Moon at perigee	
2 20	FULL MOON	17 15	NEW MOON	
3 10	Moon at apogee	18 23	Pluto stationary	
4 6	Regulus 1.7S of Moon	20 16	Venus 1.6S of Moon	
8 18	Spica 0.3N of Moon	Occn	Jupiter 3.9S of Moon	
10 22	LAST QUARTER	22 20	Mars 0.0N of Uranus	
12 4	Mercury inferior conjunction	23 6	Mercury stationary	
12 7	Antares 0.5N of Moon	Occn	23 12	Mars 1.3S of Saturn
13 1	Saturn 1.3N of Uranus	24 12	FIRST QUARTER	
13 8	Mars 5.1N of Moon	26 9	Moon furthest North (28.7)	
13 16	Moon furthest South (-28.6)	28 10	Pollux 2.2N of Moon	
13 18	Uranus 5.0N of Moon			
March		September		
d h	d h	d h	d h	
1 11	Moon at apogee	13 1	Mars 4.4N of Moon	
2 12	Regulus 1.6S of Moon	16 5	Mercury 0.4N of Moon Occn	
3 15	FULL MOON	Eclipse	16 19	Moon at perigee
5 22	Venus 2.2N of Jupiter	18 2	NEW MOON	
7 0	Spica 0.6N of Moon	Occn	20 9	Equinox
8 1	Mars 1.4S of Neptune	23 11	Jupiter 4.3S of Moon	
8 19	Mercury greatest elong W(27)	21 11	Venus 1.8S of Moon	
10 14	Antares 0.6N of Moon	Occn	24 17	Moon furthest North (28.7)
11 10	LAST QUARTER	25 4	FIRST QUARTER	
11 23	Moon furthest South (-28.7)	26 16	Pollux 2.2N of Moon	
12 3	Uranus 5.0N of Moon	29 1	Moon at apogee	
12 19	Neptune 6.0N of Moon	29 19	Regulus 1.6S of Moon	
April		October		
d h	d h	d h	d h	
2 9	FULL MOON	16 3	Mercury 3.7S of Moon	
3 6	Spica 0.6N of Moon	Occn	16 12	NEW MOON
3 6	Venus greatest elong E(46)	17 8	Jupiter 4.7S of Moon	
4 19	Uranus stationary	19 23	Venus 1.0S of Moon	
6 19	Antares 0.5N of Moon	Occn	20 14	Mercury superior conjunction
8 5	Moon furthest South (-28.7)	21 2	Moon furthest North (28.6)	
8 10	Uranus 5.0N of Moon	23 0	Pollux 2.2N of Moon	
9 2	Neptune 6.0N of Moon	23 22	FIRST QUARTER	
9 19	LAST QUARTER	25 9	Mercury 1.2N of Jupiter	
10 16	Mars 2.9N of Moon	25 19	Moon at apogee	
11 1	Saturn stationary	26 2	Regulus 1.5S of Moon	
11 11	Neptune stationary	30 13	Spica 0.6N of Moon Occn	
13 22	Moon at perigee			
May		November		
d h	d h	d h	d h	
1 8	Pluto at opposition	17 16	Mercury 2.7S of Moon	
1 23	FULL MOON	18 10	Moon furthest North (28.4)	
2 21	Jupiter at conjunction	19 12	Mars 4.4N of Moon	
2 2	Antares 0.4N of Moon	Occn	19 1	Mercury greatest elong E(22)
4 11	Moon furthest South (-28.5)	20 9	Pollux 2.2N of Moon	
5 15	Uranus 4.8N of Moon	22 12	Venus stationary	
6 7	Neptune 5.8N of Moon	23 10	Regulus 1.3S of Moon	
9 1	LAST QUARTER	23 14	Moon at apogee	
9 6	Mars 0.7N of Moon	Occn	23 16	FIRST QUARTER
12 2	Moon at perigee	27 12	Spica 0.6N of Moon Occn	
15 5	Jupiter 5.0S of Moon	31 9	Antares 0.3N of Moon Occn	
15 22	NEW MOON	31 10	FULL MOON	
June		December		
d h	d h	d h	d h	
1 2	Mercury stationary	20 4	Uranus at opposition	
1 18	Moon furthest South (-28.4)	20 7	Moon at apogee	
2 20	Uranus 4.7N of Moon	20 9	Saturn at opposition	
2 13	Neptune 5.7N of Moon	21 4	Solstice	
5 0	Moon at perigee	22 10	Mercury 0.8N of Saturn	
6 18	Mars 1.9S of Moon	24 6	Spica 0.8N of Moon Occn	
7 6	LAST QUARTER	24 21	Mercury stationary	
9 19	Mercury 2.4S of Venus	26 17	Saturn 1.3N of Uranus	
11 23	Jupiter 5.4S of Moon	27 19	Antares 0.4N of Moon Occn	
12 23	Venus inferior conjunction	29 2	Moon furthest North (-28.4)	
13 3	Mercury inferior conjunction	29 3	Uranus 4.7N of Moon	
14 9	NEW MOON	29 19	FULL MOON	
14 17	Moon furthest North (28.4)	29 20	Neptune 5.6N of Moon	
16 17	Pollux 2.6N of Moon	30 9	Neptune at opposition	
19 18	Regulus 1.1S of Moon	Occn		

Астрономические явления 1985				
January		July		
d h	d h	d h	d h	
3 19	Earth at perihelion	17 16	Uranus 1.8N of Moon	
19 19	Mercury greatest elong W(23)	18 22	Neptune 4.2N of Moon	
6 11	Moon furthest North (26.6)	19 9	Moon furthest South (-26.7)	
7 2	FULL MOON	19 13	Mercury 3.2N of Moon	
7 13	Pollux 2.4N of Moon	20 17	Jupiter 4.1N of Moon	
10 4	Regulus 4.6S of Moon	21 2	NEW MOON	
12 4	Moon at perigee	22 0	Venus greatest elong E(47)	
13 5	Mercury 0.7S of Neptune	25 4	Venus 4.9N of Moon	
13 23	LAST QUARTER	27 7	Mars 3.8N of Moon	
13 23	Spica 4.8S of Moon	27 9	Moon at apogee	
14 22	Jupiter at conjunction	29 3	FIRST QUARTER	
14 7	Saturn 2.2N of Moon	31 9	Mercury 1.3S of Jupiter	
17 6	Antares 3.3S of Moon	31 20	Venus 1.6N of Mars	
February		August		
d h	d h	d h	d h	
2 20	Moon furthest North (26.7)	15 5	Neptune 4.4N of Moon	
3 22	Pollux 2.4N of Moon	15 15	Moon furthest South (-26.8)	
5 15	FULL MOON	17 12	Jupiter 4.4N of Moon	
6 12	Regulus 4.5S of Moon	19 7	Mercury superior conjunction	
8 3	Moon at perigee	19 18	NEW MOON	
10 19	Spica 4.6S of Moon	21 9	Mercury 3.0N of Moon	
11 9	Pluto stationary	23 10	Mars 2.8N of Moon	
12 7	LAST QUARTER	24 3	Moon at apogee	
12 15	Saturn 2.6N of Moon	27 16	Venus 5.1N of Mars	
13 11	Antares 3.1S of Moon	27 23	FIRST QUARTER	
14 1	Uranus 2.1N of Moon			
March		September		
d h	d h	d h	d h	
2 5	Moon furthest North (26.9)	14 20	Moon furthest South (-27.0)	
3 9	Pollux 2.2N of Moon	17 4	Jupiter 4.6N of Moon	
5 23	Regulus 2.5S of Moon	17 4	Mercury greatest elong E(18)	
7 2	FULL MOON	20 16	Equinox	
7 22	Saturn stationary	21 11	NEW MOON	
8 7	Moon at perigee	22 4	Uranus stationary	
9 13	Spica 4.4S of Moon	22 23	Mercury 5.7N of Moon	
11 22	Saturn 2.9N of Moon	23 14	Moon at apogee	
12 7	Venus stationary	24 12	Mars 1.3N of Moon	
12 17	Antares 2.9S of Moon	24 14	Mercury stationary	
13 8	Uranus 2.3N of Moon	29 14	Moon furthest North (27.1)	
13 17	LAST QUARTER	29 16	FIRST QUARTER	
14 12	Neptune 4.6N of Moon	30 18	Pollux 2.0N of Moon	
April		October		
d h	d h	d h	d h	
2 9	Regulus 4.6S of Moon	13 19	Jupiter 4.7N of Moon	
3 14	Mercury inferior conjunction	16 0	Mercury stationary	
3 22	Venus inferior conjunction	18 6	Mercury 2.5N of Moon	
5 1	Neptune stationary	18 13	Mercury 5.9S of Venus	
5 11	FULL MOON	19 16	Moon at apogee	
5 18	Moon at perigee	20 5	NEW MOON	
6 0	Spica 4.3S of Moon	22 12	Mars 0.3S of Moon Occn	
8 5	Saturn 3.0N of Moon	22 12	Venus stationary	
9 2	Antares 2.8S of Moon	23 14	Pluto at opposition	
9 16	Uranus 2.5N of Moon	25 20	Moon furthest North (27.2)	
10 19	Neptune 4.8N of Moon	27 1	Pollux 1.9N of Moon	
11 4	Moon furthest South (-27.1)	28 1	FIRST QUARTER	
12 4	LAST QUARTER	28 18	Regulus 4.7S of Moon	
May		November		
d h	d h	d h	d h	
1 16	Mercury greatest elong W(27)	15 17	Saturn at opposition	
4 4	Moon at perigee	16 13	Venus 2.8N of Moon	
4 4	Moon at perigee	17 0	Moon at apogee	
4 19	FULL MOON	Eclipse	17 23	Mercury 1.4S of Moon
5 13	Saturn 3.0N of Moon	19 21	NEW MOON	
5 12	Antares 2.7S of Moon	21 10	Mars 1.8S of Moon	
7 0	Uranus 2.5N of Moon	23 1	Moon furthest North (27.2)	
8 3	Neptune 4.8N of Moon	24 6	Pollux 1.9N of Moon	
9 11	Moon furthest South (-27.2)	27 1	Regulus 4.7S of Moon	
11 7	FIRST QUARTER	27 11	FIRST QUARTER	
11 17	LAST QUARTER	30 20	Spica 4.1S of Moon	
June		December		
d h	d h	d h	d h	
1 12	Moon at perigee	15 16	Mercury 0.8N of Mars	
1 18	Saturn 2.8N of Moon	18 11	NEW MOON	
2 23	Antares 2.6S of Moon	19 5	Mars 3.0S of Moon	
3 3	FULL MOON	19 7	Moon furthest North (27.2)	
3 9	Uranus 2.4N of Moon	19 16	Mercury 2.3S of Moon	
3 7	Mercury 5.7N of Aldebaran	20 12	Pollux 2.0N of Moon	
4 13	Neptune 4.8N of Moon	21 10	Solstice	
4 21	Moon furthest South (-27.2)	23 6	Regulus 4.6S of Moon	
5 7	Jupiter stationary	23 19	Neptune at opposition	
5 18	Uranus at opposition	25 13	Mercury 4.8S of Pollux	
7 14	Mercury superior conjunction	25 18	FIRST QUARTER	
7 18	Jupiter 4.5N of Moon	27 3	Spica 4.1S of Moon	
10 8	LAST QUARTER	29 3	Saturn 2.8N of Moon	
12 23	Venus greatest elong W(46)	29 8	Moon at perigee	
13 14	Moon at apogee	30 8	Antares 2.6S of Moon	
14 9	Neptune 1.8S of Moon	30 17	Uranus 2.4N of Moon	

Краткий астрономический календарь на 1986 год

(конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Краткий астрономический календарь на 1987 год

(конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Астрономические явления 1986			July				
January			August				
d h	d h	d h	d h	d h	d h		
2 7 Earth at perihelion	10 8 Venus 4.1N of Moon	17 18 Moon at apogee	2 13 Mercury stationary	16 2 Neptune 5.9N of Moon	4 4 Mercury inferior conjunction		
3 19 LAST QUARTER	10 12 NEW MOON	5 10 Earth at aphelion	2 13 Moon furthest North (28.1)	16 3 Moon furthest South (-28.2)	4 5 Earth at aphelion		
4 13 Spica 3.1S of Moon	12 16 Jupiter 4.0N of Moon	6 7 Moon furthest North (28.0)	4 3 Pollux 1.7N of Moon	16 16 Mars 0.5S of Moon Occn	4 6 FIRST QUARTER		
5 23 Mars 1.7N of Moon	17 22 FIRST QUARTER	7 4 NEW MOON	5 18 NEW MOON	16 16 Moon at perigee	5 6 Spica 0.5S of Moon Occn		
7 12 Saturn 4.4N of Moon	19 16 Venus superior conjunction	7 21 Pollux 1.7N of Moon	7 2 Regulus 3.6S of Moon	19 18 FULL MOON	8 13 Antares 0.1S of Moon Occn		
8 18 Antares 1.8S of Moon	20 15 Moon at apogee	9 1 Mercury stationary	7 16 Saturn stationary	21 12 Jupiter 1.2N of Moon	9 12 Uranus 4.7N of Moon		
8 6 Moon at perigee	23 14 Moon furthest North (27.7)	10 5 Mars at opposition	10 20 Regulus 3.7S of Moon	21 10 Pluto stationary	9 23 Moon furthest South (-28.4)		
8 10 Mercury 1.7S of Neptune	25 0 Pollux 1.8N of Moon	10 18 Venus 2.7S of Moon	11 8 Venus 1.0N of Regulus	23 11 Mercury inferior conjunction	11 3 FULL MOON		
8 11 Uranus 3.4N of Moon	26 0 FULL MOON	10 20 Regulus 3.7S of Moon	13 9 Jupiter stationary	25 6 Jupiter 1.3N of Moon	11 9 Moon at perigee		
9 10 Neptune 5.3N of Moon	27 20 Regulus 4.1S of Moon	11 8 Venus 1.0N of Regulus	14 20 FIRST QUARTER	28 15 LAST QUARTER	12 5 Mercury 4.8S of Venus		
9 12 Mercury 3.8N of Moon	31 19 Spica 2.9S of Moon	14 22 Spica 2.2S of Moon	16 11 Mars nearest to Earth	31 21 Moon at apogee	12 15 Mercury stationary		
February			September				
d h	d h	d h	d h	d h	d h		
0 1 Mercury superior conjunction	9 18 Mercury 0.9S of Jupiter	2 13 Mercury stationary	3 9 Regulus 3.6S of Moon	12 9 Moon furthest South (-28.3)	1 3 FIRST QUARTER		
2 4 LAST QUARTER	11 8 Venus 0.6S of Jupiter	2 13 Moon furthest North (28.1)	4 4 Mercury 1.7S of Moon	13 9 Mars 0.9N of Moon Occn	1 6 Antares 0.2N of Moon Occn		
3 10 Mars 3.1N of Moon	13 21 Pluto stationary	4 3 Pollux 1.7N of Moon	4 7 NEW MOON	14 19 Neptune stationary	1 14 Uranus stationary		
3 23 Saturn 4.7N of Moon	16 19 FIRST QUARTER	5 18 NEW MOON	5 17 Mercury superior conjunction	17 15 Jupiter 1.4N of Moon	1 24 Uranus 5.0N of Moon		
4 1 Antares 1.6S of Moon	16 22 Moon at apogee	7 2 Regulus 3.6S of Moon	7 10 Spica 1.8S of Moon	17 15 FULL MOON	2 13 Equinox		
4 15 Moon at perigee	Mars 1.2S of Saturn	7 12 Jupiter 1.2N of Moon	7 21 Venus 2.6S of Moon	23 7 Equinox	2 17 Mercury 0.4N of Spica		
4 21 Uranus 3.7N of Moon	18 10 Jupiter at conjunction	9 13 Venus 2.0S of Moon	10 7 Saturn 5.2N of Moon	25 9 Moon at apogee	2 20 Spica 0.2S of Moon Occn		
5 20 Moon furthest South (-27.8)	18 16 Mars 5.2N of Antares	11 4 Spica 2.2S of Moon	10 16 Antares 0.7S of Moon	3 0 LAST QUARTER	2 17 Moon furthest South (-28.0)		
5 20 Neptune 5.5N of Moon	19 22 Moon furthest North (27.9)	11 17 Mercury greatest elong W(19)	10 21 Jupiter at opposition	3 10 LAST QUARTER	3 22 Mercury 2.1N of Moon		
6 21 Mercury 0.5S of Venus	21 9 Pollux 1.7N of Moon	12 12 Mars stationary	11 7 FIRST QUARTER	3 11 Pollux 1.4N of Moon	3 22 Neptune stationary		
6 20 NEW MOON	24 4 Regulus 4.0S of Moon	12 14 FIRST QUARTER	14 0 Saturn 3.1N of Moon	3 19 Venus 0.5S of Spica	3 19 Mars 1.4S of Neptune		
9 10 Venus 3.2N of Moon	24 14 FULL MOON	14 11 Antares 0.9S of Moon Occn	14 11 Antares 0.9S of Moon	31 9 Venus 0.5S of Spica	6 6 NEW MOON		
9 13 Jupiter 3.7N of Moon	28 1 Spica 2.8S of Moon	15 2 Uranus 4.1N of Moon	15 2 Uranus 4.1N of Moon	31 11 Pollux 1.6N of Moon	7 18 FULL MOON		
9 13 Mercury 2.8N of Moon	28 13 Mercury greatest elong E(18)				7 18 Saturn stationary		
March			October				
d h	d h	d h	d h	d h	d h		
1 9 Moon at perigee	17 19 Moon at apogee	3 18 NEW MOON	Eclipse 14 17 Jupiter 1.7N of Moon	1 1 Uranus stationary	18 13 Uranus 4.9N of Moon		
3 6 Saturn 5.1N of Moon	18 16 FIRST QUARTER	4 17 Spica 1.8S of Moon	15 11 Venus stationary	2 7 Mars 3.0S of Moon	18 17 Moon at perigee		
3 7 Antares 1.4S of Moon	19 6 Moon furthest North (28.0)	5 7 Mercury 0.4S of Moon Occn	17 19 FULL MOON	5 3 Moon furthest North (28.6)	18 22 Moon furthest South (-28.6)		
3 19 Mars 4.1N of Moon	20 18 Saturn stationary	6 12 Venus 4.1S of Venus	17 17 FIRST QUARTER	6 7 FIRST QUARTER	19 19 Mercury 1.2S of Jupiter		
4 4 Uranus 3.9N of Moon	20 20 Regulus 4.1S of Moon	7 10 Moon at perigee	21 20 Mercury greatest elong E(24)	6 7 Moon at apogee	20 22 LAST QUARTER		
5 2 Moon furthest South (-28.0)	23 13 Regulus 4.0S of Moon	7 16 Saturn 5.3N of Moon	23 4 Moon at apogee	6 22 Pollux 1.5N of Moon	25 11 Venus 0.9S of Moon Occn		
5 3 Neptune 5.7N of Moon	26 2 FULL MOON	7 22 Antares 0.7S of Moon Occn	23 12 Moon furthest North (28.4)	9 22 Regulus 3.0S of Moon	26 5 Jupiter 1.3S of Moon		
6 23 Mercury stationary	27 9 Spica 2.6S of Moon	8 14 Uranus 4.3N of Moon	25 4 Pollux 1.4N of Moon	9 23 Neptune stationary	27 2 Mercury 2.9S of Moon		
6 10 Jupiter 3.4N of Moon	27 14 Uranus stationary	9 15 Moon furthest South (-28.4)	25 22 LAST QUARTER	14 2 FULL MOON	28 1 NEW MOON		
9 19 Mercury 4.7N of Venus	28 13 Moon at perigee	10 13 FIRST QUARTER	28 3 Regulus 3.6S of Moon	14 2 Uranus 0.9S of Moon Occn	29 10 Pluto at opposition		
10 14 NEW MOON	29 7 Mercury stationary	11 23 Moon at perigee	30 18 Regulus 3.6S of Moon	17 9 Antares 0.2S of Moon Occn			
11 16 Venus 1.1N of Moon Occn	30 13 Antares 1.3S of Moon	12 8 Neptune 6.0N of Moon					
13 10 Mars 0.3N of Uranus	30 13 Saturn 5.2N of Moon						
16 8 Mercury inferior conjunction	31 10 Uranus 4.0N of Moon						
April			November				
d h	d h	d h	d h	d h	d h		
1 2 Mars 4.5N of Moon	17 2 Pollux 1.4N of Moon	1 3 Spica 1.8S of Moon	10 20 Jupiter 1.8N of Moon	1 5 Mars 3.7S of Moon	15 22 Moon at perigee		
1 8 Moon furthest South (-28.1)	17 10 FIRST QUARTER	2 6 NEW MOON	13 4 Mercury inferior conjunction	2 11 Moon furthest North (28.6)	16 5 Moon furthest South (-28.5)		
9 2 Neptune 5.8N of Moon	19 23 Regulus 4.1S of Moon	2 8 Mercury stationary	16 12 FULL MOON	4 1 Moon at apogee	20 4 LAST QUARTER		
1 19 LAST QUARTER	23 19 Spica 2.6S of Moon	2 13 Venus 0.5S of Moon	2 13 Mercury 0.7N of Moon	4 6 Pollux 1.6N of Moon	23 22 Jupiter 2.0S of Moon		
6 4 Jupiter 3.1N of Moon	24 12 FULL MOON	5 0 Uranus 4.4N of Moon	5 10 Venus inferior conjunction	5 4 Venus 0.6S of Jupiter	25 13 Venus 4.1S of Moon		
6 22 Mercury 2.1N of Moon	25 17 Moon at perigee	5 10 Venus inferior conjunction	24 16 LAST QUARTER	6 2 FIRST QUARTER	27 15 NEW MOON		
7 12 Neptune stationary	26 12 Pluto at opposition	5 12 Saturn 5.4N of Moon	25 21 Saturn 5.4N of Moon	7 7 Antares 0.2S of Moon	27 15 Mercury 2.7S of Moon		
9 1 Mars 1.4S of Neptune	26 19 Saturn 5.3N of Moon	5 12 Saturn 5.4N of Moon	25 22 LAST QUARTER	11 12 Spica 0.9S of Moon Occn	29 18 Moon furthest North (28.4)		
9 6 NEW MOON	26 21 Antares 1.2S of Moon Occn	5 10 Uranus 4.4N of Moon	25 28 Saturn 5.0N of Moon	13 12 Mercury stationary	30 2 Mars 3.9S of Moon		
11 0 Venus 1.2S of Moon	27 17 Uranus 4.0N of Moon	5 10 Uranus 4.4N of Moon	26 30 Jupiter stationary	13 12 FULL MOON	31 13 Pollux 1.8N of Moon		
13 12 Moon at apogee	28 15 Moon furthest South (-28.1)	5 10 Venus inferior conjunction	31 21 FIRST QUARTER	14 17 Antares 0.2S of Moon Occn	31 17 Moon at apogee		
13 16 Mercury greatest elong W(28)	28 16 Neptune 5.8N of Moon	5 12 Saturn 5.4N of Moon	30 6 Mercury greatest elong W(20)	15 20 Uranus 4.8N of Moon			
15 14 Moon furthest North (28.1)	29 6 Mars 4.0N of Moon	5 12 Saturn 5.4N of Moon					
May			December				
d h	d h	d h	d h	d h	d h		
1 3 LAST QUARTER	23 20 FULL MOON	1 16 NEW MOON	18 22 Mars 0.5N of Jupiter	9 5 Saturn at opposition	25 19 Mars 5.5S of Pollux		
5 26 Jupiter 2.7N of Moon	24 4 Moon at perigee	1 17 Antares 0.7S of Moon Occn	19 12 Mercury 1.3S of Saturn	7 7 Antares 0.2S of Moon Occn	25 23 Moon furthest North (28.4)		
9 9 Mercury 2.1S of Moon	24 3 Saturn 5.2N of Moon	2 10 Saturn 5.3N of Moon	21 18 Regulus 3.3S of Moon	12 4 FULL MOON	26 5 NEW MOON		
8 22 NEW MOON	24 8 Antares 1.3S of Moon Occn	2 10 Uranus 4.4N of Moon	22 4 Solstice	11 20 Uranus 4.7N of Moon	26 5 FULL MOON		
10 21 Moon at apogee	25 2 Uranus 3.9N of Moon	2 12 Uranus 4.4N of Moon	24 9 Jupiter stationary	12 4 Uranus 4.7N of Moon	27 19 Pollux 1.9N of Moon		
11 10 Venus 2.7S of Moon	26 0 Moon furthest South (-28.0)	3 6 Moon furthest South (-28.3)	25 13 Mercury 0.4S of Uranus	13 14 Moon furthest South (-28.4)	27 22 Mars 3.6S of Moon		
12 21 Moon furthest North (28.1)	26 0 Neptune 5.8N of Moon	3 8 Neptune 5.9N of Moon	26 0 Spica 1.4S of Moon	13 1 Moon at perigee	28 3 Moon at apogee		
14 9 Pollux 1.5N of Moon	26 0 Jupiter 1.6N of Moon	4 15 Saturn at conjunction	27 14 Neptune at conjunction	16 9 Uranus at opposition	28 20 Neptune at opposition		
17 1 FIRST QUARTER	26 8 Saturn at opposition	7 17 Mars 2.3N of Moon	29 4 Antares 0.6S of Moon Occn	18 11 LAST QUARTER	30 21 Regulus 2.6S of Moon		
17 8 Regulus 4.1S of Moon	30 13 LAST QUARTER	8 5 Jupiter 1.6N of Moon	29 13 Saturn 5.7N of Moon	19 2 Venus 4.7N of Aldebaran			
21 6 Spica 2.5S of Moon	31 10 Jupiter 2.2N of Moon	8 8 FIRST QUARTER	30 2 Uranus 3.7N of Moon				
23 1 Mercury superior conjunction	27 0 LAST QUARTER	14 20 Uranus at conjunction	30 14 Mercury 4.5N of Moon				
June			January				
d h	d h	d h	d h	d h	d h		
7 1 Moon at apogee	20 11 Saturn 5.0N of Moon	1 16 NEW MOON	18 22 Mars 0.5N of Jupiter	5 5 Saturn at opposition	17 20 LAST QUARTER		
7 14 NEW MOON	20 18 Antares 1.2S of Moon Occn	1 17 Antares 0.7S of Moon	19 12 Mercury 1.3S of Saturn	7 7 Antares 0.2S of Moon Occn	18 2 Jupiter 3.3S of Moon		
9 2 Moon furthest North (28.0)	21 11 Uranus 3.9N of Moon	2 10 Saturn 5.3N of Moon	21 18 Regulus 3.3S of Moon	12 4 FULL MOON	25 13 Mercury 2.7S of Moon		
9 6 Mercury 2.6S of Moon	22 12 Moon at perigee	2 12 Uranus 4.4N of Moon	22 4 Solstice	11 20 Uranus 4.7N of Moon	26 5 NEW MOON		
9 21 Mars 4.8S of Pollux	22 16 Solstice	3 6 Moon furthest South (-28.3)	24 9 Jupiter stationary	12 4 Uranus 4.7N of Moon	27 19 Pollux 1.9N of Moon		
9 23 Mars stationary	23 3 FULL MOON	3 8 Neptune 5.9N of Moon	25 13 Mercury 0.4S of Uranus	13 14 Moon furthest South (-28.4)	27 22 Mars 3.6S of Moon		
10 15 Pollux 1.6N of Moon	22 9 Moon furthest South (-28.0)	4 15 Saturn at conjunction	26 0 Spica 1.4S of Moon	13 1 Moon at perigee	28 3 Moon at apogee		
10 17 Venus 3.1S of Moon	22 9 Neptune 5.7N of Moon	7 17 Mars 2.3N of Moon	27 14 Neptune at conjunction	16 9 Uranus at opposition	28 20 Neptune at opposition		
11 14 Uranus 3.9N of Moon	23 13 Mars 0.5N of Moon Occn	8 5 Jupiter 1.6N of Moon	29 4 Antares 0.6S of Moon Occn	18 11 LAST QUARTER	30 21 Regulus 2.6S of Moon		
13 14 Regulus 3.9S of Moon	25 18 Mercury greatest elong E(25)	8 8 FIRST QUARTER	30 2 Uranus 3.7N of Moon	19 2 Venus 4.7N of Aldebaran			
15 11 FIRST QUARTER	26 8 Neptune at opposition	14 20 Uranus at conjunction	30 14 Mercury 4.5N of Moon				
17 15 Spica 2.4S of Moon	27 0 Jupiter 1.7N of Moon	16 7 FULL MOON	30 17 Moon furthest South (-28.3)				
20 5 Mercury 5.4S of Pollux	29 0 LAST QUARTER	16 13 Mercury 5.1N of Antares	30 21 Neptune 5.9N of Moon				
			17 1 Moon furthest North (28.2)				
			17 5 Moon at apogee				
			18 17 Pollux 1.7N of Moon				

Астрономические явления 1987			July		
January			August		
d h	d h	d h	d h	d h	d h
2 15 Mercury 2.3S of Neptune	22 8 Spica 1.2S of Moon	4 4 Mercury inferior conjunction	17 20 LAST QUARTER	4 4 Mercury inferior conjunction	17 20 LAST QUARTER
4 18 Earth at perihelion	22 22 LAST QUARTER	5 6 Earth at aphelion	18 2 Jupiter 3.3S of Moon	4 5 Earth at aphelion	18 2 Jupiter 3.3S of Moon
4 19 Jupiter 1.2N of Moon Occn	25 0 Venus 1.8N of Saturn	4 6 FIRST QUARTER	23 4 Moon furthest North (28.5)	4 6 FIRST QUARTER	23 4 Moon furthest North (28.5)
5 13 Mars 1.3N of Moon	25 14 Antares 0.4S of Moon Occn	5 6 Spica 0.5S of Moon	23 4 Pluto stationary	5 6 Spica 0.5S of Moon	23 4 Pluto stationary
5 22 FIRST QUARTER	26 15 Uranus 4.6N of Moon	8 13 Antares 0.1S of Moon	25 1 Pollux 1.9N of Moon	8 13 Antares 0.1S of Moon	25 1 Pollux 1.9N of Moon
12 16 Mercury superior conjunction	27 2 Moon furthest South (-28.4)	9 12 Uranus 4.7N of Moon	25 2 Venus 4.1S of Moon	9 12 Uranus 4.7N of Moon	25 2 Venus 4.1S of Moon
13 4 Moon at apogee	27 10 Neptune 6.0N of Moon	9 23 Moon furthest South (-28.4)	25 8 Moon at apogee	9 23 Moon furthest South (-28.4)	25 8 Moon at apogee
13 8 Moon furthest North (28.3)	28 10 Moon at perigee	11 3 FULL MOON	25 10 Mercury greatest elong W(20)	11 3 FULL MOON	25 10 Mercury greatest elong W(20)
14 23 Pollux 1.7N of Moon	29 13 NEW MOON	11 9 Moon at perigee	25 20 NEW MOON	11 9 Moon at perigee	25 20 NEW MOON
15 2 FULL MOON	30 10 Mercury 2.4N of Moon	12 5 Mercury 4.8S of Venus	26 17 Mars 2.8S of Moon	12 5 Mercury 4.8S of Venus	26 17 Mars 2.8S of Moon
15 22 Venus greatest elong W(47)	31 19 Venus 3.1N of Uranus	12 15 Mercury stationary	28 3 Regulus 2.4S of Moon	12 15 Mercury stationary	28 3 Regulus 2.4S of Moon
18 0 Regulus 3.2S of Moon				15 3 Mercury stationary	28 3 Regulus 2.4S of Moon
February			September		
d h	d h	d h	d h	d h	d h
1 14 Jupiter 0.7N of Moon Occn	16 10 Pluto stationary	1 13 Spica 0.3S of Moon	Occn 21 11 Mercury 0.6N of Mars	1 13 Spica 0.3S of Moon	Occn 21 11 Mercury 0.6N of Mars
3 10 Mars 0.2S of Moon	18 1 Mercury stationary	2 19 FIRST QUARTER	22 15 FIRST QUARTER	2 19 FIRST QUARTER	22 15 FIRST QUARTER
5 16 FIRST QUARTER	18 12 Spica 1.1S of Moon Occn	4 23 Antares 0.1N of Moon	22 17 Mercury 1.3N of Regulus	4 23 Antares 0.1N of Moon	22 17 Mercury 1.3N of Regulus
9 11 Moon furthest North (28.4)	21 8 LAST QUARTER	5 21 Uranus 4.9N of Moon	22 6 Mars 0.7N of Regulus	5 21 Uranus 4.9N of Moon	22 6 Mars 0.7N of Regulus
9 16 Moon at apogee	21 21 Antares 0.2S of Moon Occn	6 9 Moon furthest South (-28.5)	23 6 Venus superior conjunction	6 9 Moon furthest South (-28.5)	23 6 Venus superior conjunction
11 6 Pollux 1.7N of Neptune	23 1 Uranus 4.8N of Moon	8 19 Moon at perigee	23 7 Venus 0.9N of Regulus	8 19 Moon at perigee	23 7 Venus 0.9N of Regulus
11 11 Venus 1.3N of Neptune	23 10 Moon furthest South (-28.5)	9 10 FULL MOON	24 9 Regulus 2.4S of Moon	9 10 FULL MOON	24 9 Regulus 2.4S of Moon
12 2 Mercury greatest elong E(18)	25 15 Moon at perigee	14 13 Jupiter 3.7S of Moon	24 9 Venus 0.2N of Mars	14 13 Jupiter 3.7S of Moon	24 9 Venus 0.2N of Mars
13 20 FULL MOON	27 17 Mercury inferior conjunction	15 8 LAST QUARTER	24 11 NEW MOON	15 8 LAST QUARTER	24 11 NEW MOON
14 6 Regulus 3.0S of Moon	28 0 NEW MOON	19 9 Mercury 0.4N of Spica	24 12 Mars 1.6S of Moon	19 9 Mercury 0.4N of Spica	24 12 Mars 1.6S of Moon
March			October		
d h	d h	d h	d h	d h	d h
1 12 Jupiter 0.0N of Moon	22 8 Uranus 4.9N of Moon	1 3 FIRST QUARTER	20 16 Regulus 2.4S of Moon	1 3 FIRST QUARTER	20 16 Regulus 2.4S of Moon
4 9 Mars 1.7S of Moon	22 16 LAST QUARTER	1 6 Antares 0.2N of Moon	22 7 Mars 0.1S of Moon Occn	1 6 Antares 0.2N of Moon	22 7 Mars 0.1S of Moon Occn
7 11 FIRST QUARTER	22 17 Moon furthest South (-28.6)	1 14 Uranus stationary	23 3 NEW MOON	1 14 Uranus stationary	23 3 NEW MOON
8 19 Moon furthest North (28.6)	24 18 Moon at perigee	2 14 Uranus 5.0N of Moon	23 13 Equinox	2 14 Uranus 5.0N of Moon	23 13 Equinox
9 10 Moon at apogee	26 14 Venus 3.1N of Moon	2 17 Moon furthest South (-28.7)	23 16 Mercury 0.4N of Spica	2 17 Moon furthest South (-28.7)	23 16 Mercury 0.4N of Spica
10 13 Pollux 1.6N of Moon	26 23 Mercury greatest elong W(28)	6 2 Moon at perigee	23 20 Venus 1.8N of Moon	6 2 Moon at perigee	23 20 Venus 1.8N of Moon
12 1 Mercury stationary	27 1 Jupiter at conjunction	7 18 FULL MOON	23 20 Spica 0.2S of Moon Occn	7 18 FULL MOON	23 20 Spica 0.2S of Moon Occn
13 14 Regulus 3.0S of Moon	27 2 Jupiter 1.4N of Moon	8 2 Jupiter 3.7			

Краткий астрономический календарь на 1992 год
(конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Астрономические явления 1992			
January		July	
d h	d h	d h	d h
1 9	Venus 5.8N of Moon	17 4	Moon furthest North (24.7)
2 2	Antares 2.0S of Moon	19 21	FULL MOON
20 20	Moon furthest South (-24.8)	19 22	Moon at perigee
3 0	Mars 2.9N of Moon	20 4	Mercury 0.6S of Uranus
3 10	Mars 0.8N of Moon	20 14	Mercury 1.9S of Neptune
3 13	Earth at perihelion	21 21	Regulus 4.4N of Moon
4 23	NEW MOON	22 20	Jupiter 5.9N of Moon
4 23	Uranus 0.8S of Saturn	22 20	Spica 3.0N of Mars
5 0	Uranus at conjunction	25 15	LAST QUARTER
5 4	Neptune 0.1N of Moon	29 8	Antares 2.0S of Moon
6 11	Moon at apogee	29 21	Saturn at conjunction
6 21	Saturn 2.9S of Moon	29 22	Mars 0.4S of Uranus
7 12	Neptune at conjunction	30 2	Moon furthest South (-24.8)
10 18	Mercury 0.7N of Mars	31 17	Mercury 0.9N of Moon Occn
13 2	FIRST QUARTER		
February		August	
d h	d h	d h	d h
1 8	Uranus 1.0S of Moon	18 8	FULL MOON
1 12	Mars 1.5S of Moon	18 9	Regulus 4.4N of Moon
1 12	Neptune 0.0N of Moon	19 3	Jupiter 5.9N of Moon
1 14	Mars 1.5S of Neptune	19 3	Uranus 0.8N of Mars
2 11	Moon at apogee	22 2	Spica 2.9N of Moon
3 4	Mercury 4.4S of Moon	25 8	Antares 2.0S of Moon
3 19	Saturn 3.2S of Moon	25 15	Antares 2.2S of Moon
3 19	NEW MOON	26 8	Moon furthest South (-24.6)
4 21	Mercury 1.4S of Saturn	28 1	Pluto stationary
7 4	Venus 0.8N of Uranus	28 17	Uranus 1.2S of Moon
9 15	Venus 0.3S of Neptune	28 20	Neptune 0.2S of Moon Occn
11 16	FIRST QUARTER	29 0	Jupiter at opposition
12 7	Mercury superior conjunction	29 0	Venus 0.1N of Saturn
13 14	Moon furthest North (24.6)	29 21	Moon at apogee
17 10	Moon at perigee		
March		September	
d h	d h	d h	d h
1 16	Mars 3.7S of Moon	18 18	FULL MOON
1 22	Saturn 3.6S of Moon	20 8	Eglinx
2 3	Venus 3.7S of Moon	20 12	Spica 2.7N of Moon
4 13	NEW MOON	23 23	Antares 2.4S of Moon
6 2	Mercury 3.9S of Moon	24 17	Moon furthest South (-24.4)
6 17	Mars 0.4S of Saturn	26 2	LAST QUARTER
8 15	Mercury greatest elong E(18)	26 14	Mercury inferior conjunction
11 20	Moon furthest North (24.5)	27 4	Uranus 1.8S of Moon
12 2	FIRST QUARTER	27 4	Neptune 0.5S of Moon Occn
16 16	Moon at perigee	28 15	Moon at apogee
16 17	Mercury stationary	29 11	Saturn 4.0S of Moon
16 19	Regulus 4.5N of Moon	30 20	Mars 5.4S of Moon
17 8	Jupiter 5.8N of Moon		
April		October	
d h	d h	d h	d h
2 4	Mercury 3.3S of Moon	20 8	Antares 2.6S of Moon
3 5	NEW MOON	20 10	Neptune stationary
6 14	Mercury 2.0N of Venus	21 1	Moon furthest South (-24.2)
8 1	Mercury stationary	22 0	Uranus stationary
8 2	Moon furthest North (24.3)	23 11	Uranus 1.8S of Moon
10 10	FIRST QUARTER	23 13	Neptune 0.7S of Moon Occn
13 3	Regulus 4.7N of Moon	23 15	Mercury greatest elong W(27)
13 6	Moon at perigee	24 21	LAST QUARTER
13 12	Jupiter 5.8N of Moon	25 10	Moon at apogee
16 22	Spica 2.7N of Moon	25 23	Saturn 4.4S of Moon
17 4	FULL MOON		
May		November	
d h	d h	d h	d h
1 4	Jupiter stationary	17 17	Antares 2.7S of Moon
1 19	Venus 5.8S of Moon	18 9	Moon furthest South (-24.1)
2 17	NEW MOON	20 19	Uranus 1.9S of Moon
5 8	Moon furthest North (24.1)	20 21	Neptune 0.8S of Moon Occn
8 11	Moon at perigee	23 5	Moon at apogee
15 15	FIRST QUARTER	23 5	Saturn 4.7S of Moon
10 9	Regulus 4.8N of Moon	24 15	LAST QUARTER
10 18	Jupiter 5.8N of Moon	27 23	Mercury 0.5N of Venus
12 1	Pluto at conjunction	29 2	Saturn stationary
14 6	Spica 2.7N of Moon	31 16	Mercury superior conjunction
14 17	FULL MOON	31 21	Venus 2.4S of Moon
June		December	
d h	d h	d h	d h
1 3	NEW MOON	15 4	FULL MOON
1 5	Mercury 1.0S of Moon	15 4	Uranus 1.9S of Moon
1 16	Moon furthest North (24.0)	17 3	Neptune 0.8S of Moon Occn
2 22	Venus 5.2N of Aldebaran	19 15	Saturn 4.8S of Moon
4 2	Moon at perigee	19 21	Moon at apogee
5 15	Regulus 4.9N of Moon	21 3	Solstice
7 2	Jupiter 6.0N of Moon	22 13	Mercury 4.9S of Pollux
7 20	FIRST QUARTER	23 8	LAST QUARTER
10 12	Spica 2.8N of Moon	26 4	Mars 5.3S of Moon
13 16	Venus superior conjunction	29 1	Moon furthest North (24.0)
14 0	Antares 2.7S of Moon	30 12	NEW MOON
14 17	Moon furthest South (-24.0)	30 20	Venus 2.0N of Moon
July		January	
d h	d h	d h	d h
2 0	Moon at perigee	14 8	Neptune 0.8S of Moon Occn
2 8	Mercury 3.8N of Moon	14 19	FULL MOON
3 18	Earth at aphelion	16 19	Saturn 4.7S of Moon
3 22	Regulus 4.3N of Moon	17 10	Moon at apogee
4 15	Jupiter 6.0N of Moon	19 3	Mercury stationary
5 23	Mercury greatest elong E(26)	22 22	LAST QUARTER
7 2	FIRST QUARTER	25 2	Mars 3.5S of Moon
7 17	Spica 2.8N of Moon	26 12	Moon furthest North (23.9)
7 22	Uranus at opposition	26 15	Mercury 5.9S of Venus
8 6	Venus 5.7S of Pollux	29 19	NEW MOON
9 13	Neptune at opposition	30 5	Mercury 1.4S of Moon
11 6	Antares 2.7S of Moon	30 7	Moon at perigee
11 23	Moon furthest South (-24.0)	31 17	Venus 5.4N of Moon
14 5	Uranus 1.8S of Moon	31 7	Regulus 4.9N of Moon
August		February	
d h	d h	d h	d h
2 20	Mercury inferior conjunction	13 10	FULL MOON
4 0	Spica 2.7N of Moon	13 15	Moon at apogee
4 8	Pluto stationary	21 3	Mercury greatest elong W(18)
5 11	FIRST QUARTER	21 9	LAST QUARTER
7 1	Venus 1.0N of Regulus	22 20	Mars 1.4S of Moon
7 9	Saturn at opposition	22 20	Moon furthest North (23.8)
7 15	Antares 2.8S of Moon	23 5	Venus 0.2N of Jupiter
8 4	Moon furthest South (-23.9)	26 22	Mercury 4.4N of Moon
10 6	Mars 4.8N of Aldebaran	27 17	Moon at perigee
10 9	Uranus 1.8S of Moon	27 18	Regulus 4.9N of Moon
10 13	Neptune 0.8S of Moon	28 2	NEW MOON
12 10	Mercury stationary	31 9	Spica 2.3N of Moon
12 21	Saturn 4.6S of Moon		
September		March	
d h	d h	d h	d h
3 3	Mercury 1.1N of Regulus	19 19	LAST QUARTER
3 18	Antares 3.0S of Moon	20 0	Venus 2.5N of Spica
3 22	FIRST QUARTER	20 8	Mars 0.9N of Moon Occn
4 10	Moon furthest South (-23.7)	22 18	Eglinx
6 14	Uranus 1.3S of Moon	23 0	Venus stationary
6 18	Neptune 1.0S of Moon	24 4	Regulus 5.0N of Moon
9 0	Saturn 4.7S of Moon	25 2	Moon at perigee
9 18	Moon at apogee	26 10	NEW MOON
12 2	FULL MOON	27 2	Mercury 5.2N of Moon
15 4	Mercury superior conjunction	27 15	Neptune stationary
16 9	Mercury 0.4N of Jupiter	27 19	Spica 2.4N of Moon
17 18	Jupiter at conjunction	28 12	Venus 4.0N of Moon
19 3	Moon furthest North (23.6)		
October		April	
d h	d h	d h	d h
1 3	Antares 3.2S of Moon	21 12	Regulus 5.1N of Moon
1 19	Moon furthest South (-23.5)	23 4	Moon at perigee
3 9	Mercury 1.3S of Spica	25 0	Spica 2.3N of Moon
3 14	FIRST QUARTER	25 20	NEW MOON
3 21	Uranus 2.1S of Moon	27 15	Mercury 0.5S of Moon Occn
4 1	Neptune 1.2S of Moon	27 16	Venus 3.2N of Antares
6 4	Saturn 4.8S of Moon	28 12	Antares 3.4S of Moon
7 5	Moon at apogee	28 14	Venus 0.3S of Moon Occn
11 18	FULL MOON	29 4	Moon furthest South (-23.3)
16 4	Saturn stationary	31 6	Uranus 2.3S of Moon
16 8	Moon furthest North (23.4)	31 9	Mercury greatest elong E(24)
18 14	Mars 3.0N of Moon	31 10	Neptune 1.4S of Moon
19 4	LAST QUARTER		
November		May	
d h	d h	d h	d h
1 15	Mars 5.4S of Pollux	21 22	Mercury inferior conjunction
2 1	FIRST QUARTER	23 23	Mercury 3.5N of Moon
2 2	Saturn 5.0S of Moon	24 9	NEW MOON
3 23	Moon at apogee	24 22	Antares 3.5S of Moon
10 9	FULL MOON	25 13	Moon furthest South (-23.2)
11 10	Mercury stationary	26 16	Venus 1.9S of Uranus
12 14	Moon furthest North (23.3)	27 17	Uranus 2.5S of Moon
14 23	Pluto at conjunction	27 20	Neptune 1.6S of Moon
15 20	Mars 4.8N of Moon	27 20	Venus 4.5S of Moon
17 11	LAST QUARTER	27 21	Venus 3.0S of Neptune
17 18	Regulus 5.3N of Moon	29 16	Mars stationary
18 23	Moon at perigee	30 0	Saturn 5.1S of Moon
21 14	Spica 2.3N of Moon		
December		June	
d h	d h	d h	d h
1 9	Mercury stationary	21 14	Solstice
1 19	Moon at apogee	21 23	Venus 1.0S of Saturn
2 6	FIRST QUARTER	22 6	Antares 3.5S of Moon
9 22	Mercury greatest elong W(21)	22 13	Mercury 1.4N of Moon
9 23	FULL MOON	22 23	Moon furthest South (-23.2)
9 23	Moon furthest North (23.2)	24 0	NEW MOON
13 22	Moon at perigee	24 13	Mars 3.1S of Pollux
15 0	Regulus 5.3N of Moon	25 5	Uranus 2.7S of Moon
16 19	LAST QUARTER	26 5	Neptune 1.7S of Moon
18 20	Spica 2.4N of Moon	27 13	Saturn 5.2S of Moon
19 18	Mercury 5.7N of Antares	29 16	Moon at apogee
January		July	
d h	d h	d h	d h
1 8	Spica 1.7N of Moon	14 19	Mars 3.2S of Moon
1 23	Earth at perihelion	15 13	Mercury stationary
5 0	Antares 0.8N of Moon	16 16	Venus 0.6S of Saturn
6 3	Venus 5.9S of Moon	16 21	Jupiter 5.9S of Moon
6 6	Moon furthest South (-28.2)	19 2	Moon furthest North (28.2)
6 16	Uranus 4.3N of Moon	19 5	Venus 0.9S of Neptune
7 0	Saturn 5.1N of Moon	20 13	Jupiter stationary
7 6	Neptune 5.1N of Moon	20 15	Spica 3.2N of Moon
7 9	NEW MOON	21 21	FULL MOON
8 9	Mercury greatest elong E(19)	24 3	Regulus 0.1S of Moon Occn
9 15	Mercury 1.7N of Moon	25 0	Mercury inferior conjunction
10 23	Moon at perigee	26 23	Moon at apogee
12 16	Venus 0.2N of Uranus	28 17	Spica 1.8N of Moon
14 14	FIRST QUARTER	30 1	LAST QUARTER
February		August	
d h	d h	d h	d h
1 10	Antares 0.6N of Moon	12 23	FIRST QUARTER
1 13	Mercury 3.8N of Venus	13 4	Jupiter 5.9S of Moon
2 15	Moon furthest South (-28.3)	15 7	Moon furthest North (28.3)
3 5	Uranus 4.3N of Moon	17 11	Pollux 3.2N of Moon
3 15	Saturn 5.0N of Moon	18 20	Mercury greatest elong W(26)
3 18	Neptune 5.1N of Moon	20 10	Regulus 0.0N of Moon Occn
4 20	Mercury 5.0N of Moon	20 12	Pluto stationary
5 5	Venus 2.2N of Moon	20 15	FULL MOON
5 17	Mercury stationary	23 14	Moon at apogee
6 7	NEW MOON	25 0	Spica 1.5N of Moon
7 22	Moon at perigee	28 18	Antares 0.7N of Moon Occn
12 5	Mars 3.7S of Moon	28 20	LAST QUARTER
March		September	
d h	d h	d h	d h
2 0	Moon furthest South (-28.3)	13 22	Moon furthest North (28.3)
2 17	Uranus 4.3N of Moon	16 16	Pollux 3.2N of Moon
3 6	Neptune 5.1N of Moon	19 17	Regulus 0.1N of Moon Occn
3 6	Saturn 4.8N of Moon	20 15	Eglinx
3 11	Saturn 0.2S of Neptune	22 9	FULL MOON
6 3	Mercury 0.8S of Moon	22 18	Moon at apogee
7 6	Venus 1.9S of Moon	24 6	Spica 1.8N of Moon
7 18	NEW MOON	28 1	Antares 0.6N of Moon Occn
8 7	Moon at perigee	28 12	Moon furthest South (-28.3)
11 10	Mars 1.9N of Jupiter	30 2	Uranus 4.2N of Moon
12 16	Jupiter 5.8S of Moon	30 10	LAST QUARTER
12 17	Mars 3.9S of Moon	30 15	Neptune 5.0N of Moon
14 10	FIRST QUARTER	30 17	Saturn 4.7N of Moon
April		October	
d h	d h	d h	d h
4 9	Mercury 0.3N of Venus	13 22	Neptune stationary
4 13	Mercury superior conjunction	15 23	Regulus 0.2N of Moon Occn
4 23	Venus superior conjunction	18 21	Moon at apogee
5 19	Moon at perigee	20 12	Spica 1.8N of Moon
6 3	NEW MOON	21 3	FULL MOON
6 13	Venus 4.7S of Moon	22 23	Saturn stationary
6 9	Mercury 4.3S of Moon	24 7	Antares 0.5N of Moon Occn
9 6	Uranus stationary	25 14	Moon furthest South (-28.1)
10 9	Jupiter 5.6S of Moon	26 8	Uranus 4.0N of Moon
10 8	Mars 3.6S of Moon	26 21	Neptune 4.9N of Moon
10 21	Moon furthest North (28.2)	27 0	Saturn 4.5N of Moon
12 23	FIRST QUARTER	28 20	LAST QUARTER
12 23	Pluto 3.3N of Moon		
May		November	
d h	d h	d h	d h
1 1	Mercury greatest elong E(21)	16 7	Mercury 0.5N of Venus
1 9	Moon at perigee	16 9	Moon at apogee
4 4	Moon at perigee	17 19	Spica 1.5N of Moon
4 7	Pluto at opposition	19 2	Venus 5.7N of Aldebaran
5 11	NEW MOON	20 18	FULL MOON
6 1	Venus 5.3S of Moon	21 13	Antares 0.3N of Moon Occn
6 20	Mercury 2.6S of Moon	22 19	Moon furthest South (-27.9)
7 6	Jupiter 5.4S of Moon	23 1	Venus 0.8N of Jupiter
8 6	Moon furthest North (28.0)	23 12	Uranus 3.9N of Moon
9 1	Mars 2.8S of Moon	23 21	Mercury inferior conjunction
10 8	Mars 3.6S of Moon	24 2	Neptune 4.7N of Moon
12 14	FIRST QUARTER	24 4	Saturn 4.3N of Moon
13 1	Mercury stationary	28 3	LAST QUARTER
13 5	Regulus 0.4N of Moon	28 3	NEW MOON
June		December	
d h	d h	d h	d h
1 4	Moon at perigee	17 20	Antares 0.4N of Moon Occn
3 9	Moon at perigee	18 12	Mercury greatest elong W(23)
4 2	Jupiter 5.2S of Moon	19 1	Moon furthest South (-27.8)
4 16	Moon furthest North (27.9)	19 6	FULL MOON
5 1	Mercury stationary	19 17	Uranus 3.8N of Moon
5 5	Venus 3.4S of Moon	20 7	Saturn 4.3N of Moon
6 16	Pollux 3.7N of Moon	21 9	Solstice
6 18	Mars 1.6S of Moon	23 3	Mercury 2.7N of Aldebaran
9 9	Jupiter at conjunction	23 14	Mercury 2.0S of Uranus
9 13	Regulus 0.6N of Moon	24 2	Saturn 0.3S of Neptune
11 6	FIRST QUARTER	24 21	Uranus at opposition
13 3	Moon at apogee	26 9	LAST QUARTER
14 2	Spica 2.1N of Moon	28 4	Moon at perigee

Краткий астрономический календарь на 1990 год
(конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Краткий астрономический календарь на 1991 год
(конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Астрономические явления 1990	
January	
d h	d h
2 17 Neptune at conjunction	15 11 LAST QUARTER
4 10 FIRST QUARTER	18 22 Venus inferior conjunction
4 12 Earth at perihelion	19 16 Moon at apogee
6 20 Saturn at conjunction	20 6 Mercury stationary
7 18 Moon at perigee	22 7 Antares 0.2N of Moon Occn
9 2 Mercury inferior conjunction	23 9 Moon furthest South (-27.5)
9 6 Moon furthest North (27.4)	23 15 Mars 3.7N of Moon
10 0 Jupiter 3.6S of Moon	24 12 Uranus 3.0N of Moon
10 12 Mercury 2.8N of Saturn	24 20 Mercury 5.2N of Moon
11 4 FULL MOON	24 23 Neptune 3.7N of Moon
11 9 Pollux 4.6N of Moon	25 10 Saturn 2.7N of Moon
14 2 Regulus 1.6N of Moon	26 19 NEW MOON Eclipse
14 9 Mercury 2.5N of Neptune	27 16 Mercury 0.8N of Neptune
18 11 Spica 2.8N of Moon	
February	
d h	d h
1 5 Mercury greatest elong W(25)	17 18 LAST QUARTER
2 3 Moon at perigee	18 16 Antares 0.2N of Moon Occn
2 18 FIRST QUARTER	19 18 Moon furthest South (-27.5)
3 13 Mercury 0.2N of Saturn	21 0 Uranus 2.9N of Moon
13 13 Moon furthest North (27.5)	21 10 Neptune 3.6N of Moon
6 3 Jupiter 3.7S of Moon	21 16 Mars 1.9N of Moon
7 17 Pollux 4.6N of Moon	22 1 Saturn 2.4N of Moon
8 4 Venus stationary	23 1 Pluto stationary
9 14 Mars 0.2S of Uranus	24 0 Mercury 2.0S of Moon
9 19 FULL MOON Eclipse	24 19 Jupiter stationary
10 11 Regulus 1.7N of Moon	25 8 NEW MOON
14 19 Spica 2.8N of Moon	28 8 Moon at perigee
16 13 Moon at apogee	28 23 Mars 1.0S of Saturn
17 11 Mars 1.5S of Neptune	
March	
d h	d h
4 2 FIRST QUARTER	19 14 LAST QUARTER
11 17 Moon furthest North (27.4)	20 11 Uranus 2.7N of Moon
5 8 Jupiter 3.7S of Moon	20 21 Equinox
6 23 Pollux 4.7N of Moon	20 21 Neptune 3.5N of Moon
9 19 Regulus 1.7N of Moon	21 14 Saturn 2.1N of Moon
11 11 FULL MOON	22 17 Mars 0.5S of Moon Occn
14 3 Spica 2.7N of Moon	23 7 Venus 2.1N of Moon
16 8 Moon at apogee	26 19 NEW MOON
18 3 Antares 0.2N of Moon Occn	27 10 Mercury 4.5S of Moon
19 2 Mercury superior conjunction	28 7 Moon at perigee
19 2 Moon furthest South (-27.4)	30 8 Venus greatest elong W(46)
April	
d h	d h
1 1 Moon furthest North (27.3)	16 19 Uranus 2.6N of Moon
1 17 Jupiter 3.4S of Moon	17 5 Neptune 3.3N of Moon
2 10 FIRST QUARTER	18 1 Saturn 1.8N of Moon
3 5 Pollux 4.8N of Moon	18 7 LAST QUARTER
6 1 Regulus 1.8N of Moon	20 17 Mars 3.0S of Moon
10 3 FULL MOON	21 22 Venus 3.4S of Moon
10 10 Spica 2.6N of Moon	23 17 Mercury stationary
12 20 Moon at apogee	25 4 NEW MOON
13 14 Mercury greatest elong E(20)	25 16 Moon at perigee
13 23 Uranus stationary	25 23 Mercury 2.7S of Moon
14 7 Antares 0.0N of Moon Occn	28 9 Moon furthest North (27.1)
15 10 Moon furthest South (-27.2)	29 7 Jupiter 2.8S of Moon
16 11 Neptune stationary	30 12 Pollux 5.0N of Moon
May	
d h	d h
1 20 FIRST QUARTER	15 8 Saturn 1.5N of Moon
3 6 Mercury 2.0N of Moon	16 6 Mercury stationary
3 23 Mercury inferior conjunction	17 19 LAST QUARTER
5 1 Saturn stationary	19 15 Mars 5.1S of Moon
7 5 Pluto at opposition	24 2 Moon at perigee
7 16 Spica 2.7N of Moon	24 11 NEW MOON
9 19 FULL MOON	25 18 Moon furthest North (27.0)
9 23 Moon at apogee	27 4 Jupiter 2.3S of Moon
11 13 Antares 0.2S of Moon Occn	27 20 Pollux 5.2N of Moon
12 15 Moon furthest South (-27.0)	30 13 Regulus 2.2N of Moon
14 0 Uranus 2.4N of Moon	31 3 Mercury greatest elong W(25)
14 10 Neptune 3.2N of Moon	31 8 FIRST QUARTER
June	
d h	d h
3 22 Spica 2.9N of Moon	21 10 Moon at perigee
6 4 Moon at apogee	21 15 Solstice
7 19 Antares 0.2S of Moon Occn	21 21 Mercury 4.4S of Moon
8 10 FULL MOON	22 4 Moon furthest North (26.9)
8 20 Moon furthest South (-26.9)	22 18 NEW MOON
10 4 Uranus 2.3N of Moon	22 22 Jupiter 1.6S of Moon
10 15 Neptune 3.0N of Moon	24 6 Pollux 5.3N of Moon
11 11 Saturn 1.4N of Moon	26 22 Regulus 2.4N of Moon
16 4 LAST QUARTER	29 14 Moon at opposition
17 17 Mercury 4.2N of Aldebaran	29 22 FIRST QUARTER
July	
d h	d h
1 5 Spica 3.0N of Moon	15 5 Jupiter at conjunction
2 17 Mercury superior conjunction	15 11 LAST QUARTER
3 3 Venus 4.0N of Aldebaran	19 11 Moon at perigee
3 16 Moon at apogee	19 13 Moon furthest North (26.9)
4 6 Earth at aphelion	20 2 Venus 3.9S of Moon
5 1 Antares 0.2S of Moon Occn	21 16 Pollux 5.4N of Moon
5 11 Neptune at opposition	21 18 Jupiter 1.0S of Moon Occn
6 2 Moon furthest South (-26.9)	22 2 NEW MOON Eclipse
7 8 Uranus 2.3N of Moon	23 16 Mercury 2.4N of Moon
7 11 Mercury 1.5N of Jupiter	24 6 Regulus 2.4N of Moon
7 20 Neptune 3.0N of Moon	28 13 Spica 3.1N of Moon
8 1 FULL MOON	29 17 Mercury 0.0N of Regulus
14 14 Saturn 1.6N of Moon	29 14 FIRST QUARTER
8 14 Saturn 1.4N of Moon	31 2 Pluto stationary
14 17 Saturn at opposition	31 8 Moon at apogee
August	
d h	d h
1 9 Antares 0.2S of Moon Occn	18 23 Venus 0.5N of Moon Occn
2 9 Moon furthest South (-26.9)	20 12 NEW MOON
3 14 Uranus 2.4N of Moon	20 17 Regulus 2.4N of Moon
4 2 Neptune 3.1N of Moon	22 11 Mercury 0.1N of Moon Occn
4 14 Saturn 1.6N of Moon	24 21 Mercury stationary
6 14 FULL MOON Eclipse	24 21 Spica 3.0N of Moon
11 18 Mercury greatest elong E(27)	28 2 Moon at apogee
12 23 Venus 0.0N of Jupiter	28 7 FIRST QUARTER
13 15 LAST QUARTER	28 17 Antares 0.2S of Moon Occn
13 17 Moon at perigee	29 17 Moon furthest South (-26.9)
15 20 Moon furthest North (26.9)	30 21 Uranus 2.2N of Moon
18 1 Pollux 5.4N of Moon	31 9 Neptune 3.0N of Moon
18 13 Jupiter 0.4S of Moon Occn	31 23 Saturn 1.6N of Moon
September	
d h	d h
5 1 FULL MOON	19 0 NEW MOON
7 2 Venus 0.7N of Regulus	21 5 Spica 2.9N of Moon
8 4 Mercury inferior conjunction	23 2 Saturn stationary
9 11 Moon at perigee	23 6 Equinox
11 20 LAST QUARTER	23 10 Mars 4.2N of Aldebaran
12 1 Moon furthest North (26.8)	23 16 Neptune stationary
14 7 Pollux 5.5N of Moon	24 6 Mercury greatest elong W(18)
14 18 Uranus stationary	24 21 Moon at apogee
15 5 Jupiter 0.3N of Moon Occn	25 1 Antares 0.3S of Moon Occn
15 13 Mercury 2.8S of Venus	26 1 Moon furthest South (-26.7)
16 15 Mercury stationary	27 2 FIRST QUARTER
17 0 Regulus 2.5N of Moon	27 5 Uranus 2.2N of Moon
17 18 Mercury 2.1N of Moon	27 18 Neptune 2.9N of Moon
18 1 Venus 4.5N of Moon	28 7 Saturn 1.4N of Moon
October	
d h	d h
4 12 FULL MOON	19 8 Mercury 3.1N of Spica
6 19 Moon at perigee	20 11 Mars stationary
8 18 Mars 4.5S of Moon	20 11 Venus 3.3N of Spica
10 17 Moon furthest North (26.6)	22 5 Mercury superior conjunction
11 3 LAST QUARTER	22 8 Antares 0.6S of Moon Occn
11 13 Pollux 5.7N of Moon	22 15 Moon at apogee
12 19 Jupiter 0.9N of Moon Occn	23 9 Moon furthest South (-26.5)
14 6 Regulus 2.7N of Moon	24 14 Uranus 0.0N of Moon
16 6 Mercury 0.0N of Venus	25 2 Neptune 2.6N of Moon
18 10 Mercury 6.0N of Moon	25 17 Saturn 1.1N of Moon Occn
18 13 Spica 2.8N of Moon	26 20 FIRST QUARTER
18 15 NEW MOON	
November	
d h	d h
1 15 Venus superior conjunction	17 Venus 4.7N of Moon
2 21 FULL MOON	18 15 Antares 0.7S of Moon Occn
3 23 Moon at perigee	18 19 Mercury 1.7N of Moon
5 1 Mars 3.5S of Moon	22 2 Moon at apogee
5 15 Moon furthest North (26.5)	19 13 Moon furthest South (-26.3)
7 19 Pollux 5.9N of Moon	20 3 Mars nearest to Earth
9 5 Jupiter 1.5N of Moon	20 23 Uranus 1.7N of Moon
9 13 LAST QUARTER	21 10 Neptune 2.4N of Moon
10 9 Pluto at conjunction	24 4 Saturn 0.7N of Moon Occn
10 19 FULL MOON	24 11 FIRST QUARTER
14 19 Spica 2.9N of Moon	26 2 Uranus 4.5N of Antares
17 9 NEW MOON	27 20 Mars at opposition
17 10 Mercury 2.6N of Antares	30 12 Jupiter stationary
December	
d h	d h
1 22 Mars 2.6S of Moon	18 5 Venus 1.0N of Moon Occn
2 7 FULL MOON	18 8 Mercury 2.1N of Moon
2 11 Moon at perigee	18 18 Uranus 1.4N of Moon
3 1 Moon furthest North (26.3)	18 19 Neptune 2.2N of Moon
6 0 Mercury greatest elong E(21)	19 0 Mercury 1.5N of Venus
6 14 Jupiter 1.8N of Moon	19 10 Venus 0.6S of Uranus
7 19 Regulus 3.0N of Moon	19 15 Saturn 0.3N of Moon Occn
9 2 LAST QUARTER	22 3 Solstice
10 23 Venus 1.8S of Uranus	24 7 Mercury 1.8S of Neptune
12 0 Spica 3.1N of Moon	24 7 Mercury inferior conjunction
14 15 Mercury stationary	25 3 FIRST QUARTER
15 21 Antares 0.7S of Moon	28 3 Mars 2.2S of Moon
16 3 Moon at apogee	30 12 Moon furthest North (26.3)
16 30 Moon furthest South (-26.3)	30 23 Moon at perigee
17 4 NEW MOON	31 15 Uranus at conjunction
17 19 Mercury 0.5N of Uranus	31 18 FULL MOON

Астрономические явления 1991	
January	
d h	d h
1 16 Mars stationary	15 2 Neptune 2.0N of Moon
1 19 Venus 1.2S of Saturn	15 23 NEW MOON Eclipse
2 22 Jupiter 1.8N of Moon	16 4 Saturn 0.1S of Moon Occn
3 5 Earth at perihelion	17 15 Venus 3.1S of Moon
3 21 Mercury stationary	18 7 Saturn at conjunction
4 4 Regulus 3.1N of Moon	23 14 FIRST QUARTER
5 3 Neptune at conjunction	23 15 Mercury 0.5N of Uranus
7 10 LAST QUARTER	25 13 Mars 2.0S of Moon
8 7 Spica 3.2N of Moon	25 15 Mercury 1.1S of Neptune
12 3 Antares 0.7S of Moon Occn	26 21 Moon furthest North (26.2)
12 11 Moon at apogee	28 7 Moon at perigee
13 1 Moon furthest South (-26.3)	29 0 Jupiter at opposition
13 20 Mercury 4.1N of Moon	30 3 Jupiter 1.7N of Moon
14 13 Mercury greatest elong W(24)	30 6 FULL MOON Eclipse
14 18 Uranus 1.3N of Moon	31 15 Regulus 3.2N of Moon
February	
d h	d h
4 16 Spica 3.2N of Moon	14 17 NEW MOON
5 20 Mercury 1.2S of Saturn	16 20 Venus 5.5S of Moon
6 13 LAST QUARTER	21 23 FIRST QUARTER
7 10 Antares 0.7S of Moon Occn	22 12 Mars 1.5S of Moon
9 5 Moon at apogee	23 4 Moon furthest North (26.2)
9 8 Moon furthest South (-26.3)	25 0 Moon at perigee
11 4 Uranus 1.1N of Moon Occn	25 13 Pluto stationary
11 11 Neptune 1.9N of Moon	26 7 Jupiter 1.5N of Moon
12 17 Saturn 0.5S of Moon Occn	28 1 Regulus 3.2N of Moon
13 16 Mercury 3.2S of Moon	28 18 FULL MOON
March	
d h	d h
2 2 Mercury superior conjunction	2 3 Equinox
4 1 Spica 3.1N of Moon	22 4 Moon at perigee
7 18 Antares 0.8S of Moon Occn	22 10 Moon furthest North (26.0)
8 10 LAST QUARTER	22 16 Mars 0.6S of Moon Occn
8 17 Moon furthest South (-26.1)	23 6 FIRST QUARTER
9 1 Moon at apogee	25 11 Jupiter 1.5N of Moon
10 14 Uranus 0.8N of Moon	27 9 Regulus 3.3N of Moon
10 17 Neptune 1.7N of Moon	27 13 Mercury greatest elong E(19)
10 21 Saturn 0.9S of Moon	30 7 FULL MOON
16 8 NEW MOON	30 14 Jupiter stationary
17 10 Mercury 4.4S of Moon	31 10 Spica 2.9N of Moon
18 20 Venus 5.0S of Moon	
April	
d h	d h
4 3 Antares 1.0S of Moon Occn	17 17 Moon at perigee
4 18 Mercury stationary	18 11 Uranus stationary
5 1 Moon furthest South (-25.9)	18 16 Moon furthest North (25.8)
5 21 Moon at apogee	18 21 Neptune stationary
7 0 Uranus 0.6N of Moon Occn	19 23 Mars 0.5N of Moon Occn
7 6 LAST QUARTER	21 12 FIRST QUARTER
7 6 Neptune 1.5N of Moon	21 18 Jupiter 1.8N of Moon
8 20 Saturn 1.3S of Moon	23 15 Regulus 3.5N of Moon
14 19 Mercury 2.9S of Moon	27 5 Mercury stationary
14 19 NEW MOON	27 17 Spica 2.9N of Moon
14 20 Mercury inferior conjunction	28 20 FULL MOON
17 15 Venus 2.1S of Moon	
May	
d h	d h
1 10 Antares 1.2S of Moon	17 11 Saturn stationary
2 8 Moon furthest South (-25.7)	18 9 Mars 1.9N of Moon
3 14 Moon at apogee	19 5 Jupiter 2.2N of Moon
4 7 Uranus 0.4N of Moon Occn	20 19 FIRST QUARTER
4 13 Neptune 1.3N of Moon	20 20 Regulus 3.7N of Moon
6 6 Saturn 1.6S of Moon	24 23 Spica 3.1N of Moon
7 0 LAST QUARTER	28 11 FULL MOON
7 6 Neptune 1.5N of Moon	28 17 Antares 1.3S of Moon
8 20 Saturn 1.3S of Moon	29 19 Moon furthest South (-25.6)
14 4 NEW MOON	30 6 Venus 4.1S of Pollux
14 14 Mars 5.1S of Pollux	31 2 Moon at apogee
15 16 Moon at perigee	31 13 Uranus 0.3N of Moon Occn
16 0 Moon furthest North (25.7)	31 19 Neptune 1.2N of Moon
17 7 Venus 1.6N of Moon	
June	
d h	d h
2 13 Saturn 1.8S of Moon	18 10 Venus 1.2N of Jupiter
5 15 LAST QUARTER	19 4 FIRST QUARTER
9 21 Mercury 5.2N of Aldebaran	21 5 Spica 3.2N of Moon
12 1 Mercury 2.8S of Moon	21 21 Solstice
12 10 Moon furthest North (25.6)	23 20 Venus 0.2N of Mars
12 12 NEW MOON	24 23 Antares 1.3S of Moon
13 0 Moon at perigee	25 19 Moon furthest South (-25.6)
13 19 Venus greatest elong E(45)	27 2 FULL MOON Eclipse
14 15 Mars 0.6N of Jupiter	27 7 Moon at apogee
15 17 Uranus 3.8N of Moon	27 17 Uranus 0.3N of Moon Occn
15 21 Jupiter 2.7N of Moon	28 0 Neptune 1.1N of Moon Occn
15 21 Mars 3.3N of Moon	29 16 Saturn 1.9S of Moon
17 3 Regulus 3.8N of Moon	30 11 Mercury 4.8S of Pollux
17 4 Mercury superior conjunction	
July	
d h	d h
4 7 Uranus at opposition	18 11 Spica 3.2N of Moon
5 2 LAST QUARTER	18 15 FIRST QUARTER
6 11 Earth at aphelion	22 5 Antares 1.3S of Moon
8 0 Neptune at opposition	23 1 Moon furthest South (-25.6)
9 20 Moon furthest North (25.6)	24 11 Moon at apogee
10 19 Venus 0.3S of Regulus	24 21 Uranus 0.3N of Moon Occn
11 10 Moon at perigee	25 0 Mercury greatest elong E(27)
11 19 NEW MOON Eclipse	25 5 Neptune 1.2N of Moon
13 12 Mercury 3.1N of Moon	26 1 Venus 4.1S of Mars
13 15 Jupiter 3.1N of Moon	26 7 Mercury 1.7S of Regulus
14 12 Mars 4.5N of Moon	26 18 FULL MOON Eclipse
14 12 Regulus 3.8N of Moon	26 18 Saturn 1.6S of Moon
14 16 Venus 2.3N of Moon	27 0 Saturn at opposition
15 1 Mars 0.6N of Regulus	30 3 Venus stationary
15 8 Mercury 0.1S of Jupiter	
August	
d h	d h
2 18 Pluto stationary	17 5 FIRST QUARTER
3 11 LAST QUARTER	17 22 Jupiter at conjunction
6 5 Moon furthest North (25.5)	18 12 Antares 1.4S of Moon
7 3 Mercury stationary	19 8 Moon furthest South (-25.9)
8 20 Moon at perigee	19 22 Mercury 0.2S of Regulus
10 2 NEW MOON	20 22 Moon at apogee
10 12 Jupiter 3.6N of Moon	21 0 Uranus 0.3N of Moon Occn
10 23 Regulus 3.8N of Moon	21 10 Neptune 1.1N of Moon Occn
11 8 Mercury 0.6S of Moon Occn	21 21 Mercury inferior conjunction
11 15 Venus 2.8S of Moon	22 20 Uranus stationary
12 4 Mars 5.3N of Moon	22 21 Saturn 1.7S of Moon
12 8 Mercury 2.3N of Venus	24 16 Mercury 4.6S of Jupiter
13 14 Mercury 2.4N of Moon	25 9 FULL MOON
14 20 Spica 3.1N of Moon	25 18 Mercury stationary
September	
d h	d h
1 18 LAST QUARTER	12 2 Venus stationary
2 12 Moon furthest North (25.4)	14 20 Antares 1.5S of Moon
5 19 Moon at perigee	15 16 Moon furthest South (-25.3)
6 26 Venus 4.8S of Moon	16 22 FIRST QUARTER
7 3 Mercury 3.2N of Moon	17 9 Uranus 0.2N of Moon Occn
7 7 Jupiter 4.2N of Moon	17 14 Moon at apogee
7 9 Regulus 3.9N of Moon	17 17 Neptune 1.0N of Moon Occn
7 18 Mercury greatest elong W(18)	19 2 Saturn 1.6S of Moon
8 11 NEW MOON	19 9 Uranus stationary
9 21 Mars 5.6N of Moon	23 12 Equinox

Краткий астрономический календарь на 1996 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Астрономические явления 1996			July		
January			August		
d h	d h	d h	d h	d h	d h
1 5 Mercury 0.8S of Uranus	18 19 Jupiter 4.5S of Moon	13 11 Moon furthest North (18.6)	1 3 FULL MOON	15 16 NEW MOON	1 3 FULL MOON
1 16 Mars 1.6S of Neptune	18 21 Mercury inferior conjunction	15 16 NEW MOON	1 9 Jupiter 5.0S of Moon	16 13 Moon at apogee	1 9 Jupiter 5.0S of Moon
2 11 Mercury greatest elong E(19)	19 22 Moon at perigee	16 13 Moon at apogee	1 22 Moon at perigee	16 13 Moon at apogee	1 22 Moon at perigee
2 22 Aldebaran 1.8S of Moon	20 6 Neptune 4.5S of Moon	17 17 Neptune at opposition	2 0 Venus stationary	17 17 Neptune at opposition	2 0 Venus stationary
4 4 Moon furthest North (18.9)	20 7 Mercury 1.6S of Moon	18 17 Jupiter 3.8N of Moon	2 7 Neptune 4.3S of Moon	18 17 Jupiter 3.8N of Moon	2 7 Neptune 4.3S of Moon
8 8 Earth at perihelion	20 12 NEW MOON	20 20 Saturn stationary	2 17 Uranus 5.3S of Moon	20 20 Saturn stationary	2 17 Uranus 5.3S of Moon
5 11 Moon at apogee	20 14 Uranus 5.4S of Moon	23 4 Jupiter at opposition	23 4 Spica 3.2S of Moon	23 4 Spica 3.2S of Moon	23 4 Jupiter at opposition
5 20 FULL MOON	20 22 Mercury 2.9N of Neptune	23 4 FIRST QUARTER	5 14 Earth at aphelion	23 4 FIRST QUARTER	5 14 Earth at aphelion
8 3 Mars 0.6S of Uranus	21 5 Mars 5.8S of Moon	25 6 Uranus at opposition	7 3 Saturn 2.8S of Moon	25 6 Uranus at opposition	7 3 Saturn 2.8S of Moon
9 9 Mercury stationary	21 7 Uranus at conjunction	27 19 Moon furthest South (-18.5)	7 18 LAST QUARTER	27 19 Moon furthest South (-18.5)	7 18 LAST QUARTER
9 15 Regulus 4.8N of Moon	23 5 Venus 4.7S of Moon	28 15 Jupiter 5.1S of Moon	11 9 Mercury superior conjunction	28 15 Jupiter 5.1S of Moon	11 9 Mercury superior conjunction
13 9 Mercury 2.8N of Mars	24 0 Saturn 4.6S of Moon	28 15 Neptune 4.3S of Moon	12 0 Aldebaran 1.2S of Moon	28 15 Neptune 4.3S of Moon	12 0 Aldebaran 1.2S of Moon
13 20 LAST QUARTER	27 11 FIRST QUARTER	28 16 Uranus 5.3S of Moon	12 8 Venus 0.3S of Moon	28 16 Uranus 5.3S of Moon	12 8 Venus 0.3S of Moon
13 22 Spica 2.3S of Moon	30 4 Aldebaran 1.6S of Moon	30 10 Moon at perigee	12 23 Mars 5.0N of Moon	30 10 Moon at perigee	12 23 Mars 5.0N of Moon
16 2 Neptune at conjunction	30 8 Mercury stationary	30 10 FULL MOON	13 4 Mercury 5.1S of Pollux	30 10 FULL MOON	13 4 Mercury 5.1S of Pollux
17 3 Mercury 3.3N of Uranus	31 11 Moon furthest North (18.8)				
18 5 Moon furthest South (-18.8)					
February			September		
d h	d h	d h	d h	d h	d h
1 15 Moon at apogee	17 3 Mercury 5.2S of Moon	8 6 Aldebaran 1.0S of Moon Occn	2 4 Venus 2.9S of Mars	17 13 Mercury inferior conjunction	3 6 Venus 2.9S of Mars
2 14 Venus 1.1N of Saturn	17 3 Uranus 5.5S of Moon	9 18 Moon furthest North (18.4)	3 13 Jupiter stationary	20 11 FIRST QUARTER	3 13 Jupiter stationary
4 15 FULL MOON	17 8 Moon at perigee	10 3 Venus 1.2N of Moon	3 18 Mercury stationary	20 11 Moon furthest South (-18.2)	3 18 Mercury stationary
5 20 Regulus 4.3N of Moon	18 23 NEW MOON	10 20 Mars 5.7N of Moon	4 13 Aldebaran 0.9S of Moon Occn	21 5 Jupiter 5.4S of Moon	4 13 Aldebaran 0.9S of Moon Occn
10 4 Spica 2.5S of Moon	19 4 Mars 4.7S of Moon	12 17 Moon at apogee	4 19 LAST QUARTER	22 8 Neptune 4.5S of Moon	4 19 LAST QUARTER
11 12 Mercury 0.1N of Neptune	20 16 Saturn 4.1S of Moon	12 17 Pluto stationary	6 1 Moon furthest North (18.2)	22 17 Equinox	6 1 Moon furthest North (18.2)
11 22 Mercury greatest elong W(26)	24 2 Mercury 0.8S of Mars	13 17 FULL MOON	8 16 Mars 5.8N of Moon	22 18 Uranus 5.4S of Moon	8 16 Mars 5.8N of Moon
12 8 LAST QUARTER	26 5 FIRST QUARTER	14 23 Regulus 3.7N of Moon	8 21 Venus 3.2N of Moon	24 21 Moon at perigee	8 21 Venus 3.2N of Moon
14 15 Moon furthest South (-18.7)	26 11 Aldebaran 1.4S of Moon	14 23 NEW MOON	9 2 Moon at apogee	25 20 Mercury stationary	9 2 Moon at apogee
14 14 Jupiter 4.8S of Moon	27 18 Moon furthest North (18.6)	16 17 Mercury 0.4N of Moon Occn	9 9 Mercury 0.3N of Saturn	26 19 Saturn at opposition	9 9 Mercury 0.3N of Saturn
16 18 Neptune 4.5S of Moon	29 7 Moon at apogee		11 6 Regulus 3.7N of Moon	27 19 FULL MOON	11 6 Regulus 3.7N of Moon
16 19 Mercury 0.3N of Uranus			12 23 NEW MOON	27 22 Saturn 3.0S of Moon	12 23 NEW MOON
March			October		
d h	d h	d h	d h	d h	d h
4 3 Regulus 4.3N of Moon	19 8 Saturn 3.8S of Moon	1 12 Aldebaran 0.8S of Moon Occn	2 4 Venus 2.9S of Mars	17 13 Mercury inferior conjunction	1 12 Aldebaran 0.8S of Moon Occn
4 14 Mars at conjunction	19 8 NEW MOON	2 2 Mercury 0.8S of Mars	3 13 Jupiter stationary	20 11 FIRST QUARTER	2 2 Mercury 0.8S of Mars
5 9 FULL MOON	20 8 Equinox	2 20 Uranus 5.3S of Moon	3 18 Mercury stationary	20 11 Moon furthest South (-18.2)	2 20 Uranus 5.3S of Moon
7 20 Pluto stationary	22 1 Mars 1.1N of Saturn	2 21 Venus 3.2N of Moon	4 13 Aldebaran 0.9S of Moon Occn	21 5 Jupiter 5.4S of Moon	4 13 Aldebaran 0.9S of Moon Occn
8 9 Spica 2.6S of Moon	23 2 Venus 5.3N of Moon	2 21 Mercury 0.3N of Saturn	4 19 LAST QUARTER	22 8 Neptune 4.5S of Moon	4 19 LAST QUARTER
12 17 LAST QUARTER	23 8 Mercury 0.3N of Saturn	2 22 NEW MOON	6 1 Moon furthest North (18.2)	22 17 Equinox	6 1 Moon furthest North (18.2)
12 22 Moon furthest South (-18.5)	24 2 Mercury 0.8S of Mars	2 22 NEW MOON	8 16 Mars 5.8N of Moon	22 18 Uranus 5.4S of Moon	8 16 Mars 5.8N of Moon
14 15 Jupiter 5.0S of Moon	24 19 Aldebaran 1.3S of Moon	2 26 Saturn at opposition	8 21 Venus 3.2N of Moon	24 21 Moon at perigee	8 21 Venus 3.2N of Moon
15 3 Neptune 4.6S of Moon	26 2 Moon furthest North (18.5)	2 26 Saturn at opposition	9 2 Moon at apogee	25 20 Mercury stationary	9 2 Moon at apogee
15 13 Uranus 5.5S of Moon	27 1 FIRST QUARTER	2 26 Saturn at opposition	9 9 Mercury 0.3N of Saturn	26 19 Saturn at opposition	9 9 Mercury 0.3N of Saturn
16 5 Moon at perigee	28 3 Moon at apogee	2 26 Saturn at opposition	11 6 Regulus 3.7N of Moon	27 19 FULL MOON	11 6 Regulus 3.7N of Moon
17 19 Saturn at conjunction	28 7 Mercury superior conjunction	2 26 Saturn at opposition	12 23 NEW MOON	27 22 Saturn 3.0S of Moon	12 23 NEW MOON
18 18 Mercury 4.5S of Moon	31 1 Regulus 4.3N of Moon	2 26 Saturn at opposition	15 15 Mercury 3.0S of Moon	27 2 Saturn 3.0S of Moon	15 15 Mercury 3.0S of Moon
19 5 Mars 2.8S of Moon	31 22 Venus greatest elong E(46)	2 26 Saturn at opposition	15 15 Spica 3.4S of Moon	27 2 Saturn 3.0S of Moon	15 15 Spica 3.4S of Moon
April			November		
d h	d h	d h	d h	d h	d h
4 0 FULL MOON	Eclipse 17 22 NEW MOON	Eclipse 17 22	2 0 Mercury superior conjunction	15 21 Neptune 4.4S of Moon	2 0 Mercury superior conjunction
4 16 Spica 2.7S of Moon	19 13 Mercury 5.2N of Moon	19 13 Mercury 5.2N of Moon	3 7 LAST QUARTER	16 4 Moon at perigee	3 7 LAST QUARTER
9 3 Moon furthest South (-18.5)	21 4 Aldebaran 1.3S of Moon	21 4 Aldebaran 1.3S of Moon	3 13 Moon at apogee	16 7 Uranus 5.2S of Moon	3 13 Moon at apogee
10 15 Jupiter 5.1S of Moon	22 11 Moon furthest North (18.5)	22 11 Moon furthest North (18.5)	4 21 Regulus 3.6N of Moon	18 0 Venus 3.9N of Spica	4 21 Regulus 3.6N of Moon
10 23 LAST QUARTER	23 6 Mercury greatest elong E(20)	23 6 Mercury greatest elong E(20)	5 4 Mars 4.9S of Moon	18 0 FIRST QUARTER	5 4 Mars 4.9S of Moon
11 3 Moon at perigee	24 22 Moon at apogee	24 22 Moon at apogee	6 17 Moon at apogee	20 12 Saturn 3.0S of Moon	6 17 Moon at apogee
11 10 Neptune 4.6S of Moon	25 20 FIRST QUARTER	25 20 FIRST QUARTER	7 11 Mars 5.4N of Moon	20 8 Mercury 3.4N of Spica	7 11 Mars 5.4N of Moon
11 21 Uranus 5.6S of Moon	27 20 Uranus 4.3N of Moon	27 20 Uranus 4.3N of Moon	8 13 Regulus 3.7N of Moon	24 8 Saturn 3.1S of Moon	8 13 Regulus 3.7N of Moon
15 22 Saturn 3.5S of Moon	29 9 Neptune stationary	29 9 Neptune stationary	9 1 Venus 3.4N of Moon	24 8 FULL MOON	9 1 Venus 3.4N of Moon
17 4 Mars 0.6S of Moon	Occn	Occn	10 3 Uranus stationary	29 7 Aldebaran 0.9S of Moon Occn	10 3 Uranus stationary
May			December		
d h	d h	d h	d h	d h	d h
2 1 Spica 2.7S of Moon	16 4 Mars 1.7N of Moon	16 4 Mars 1.7N of Moon	1 12 Aldebaran 0.8S of Moon Occn	12 22 Spica 3.5S of Moon	1 12 Aldebaran 0.8S of Moon Occn
3 11 FULL MOON	17 5 Mercury 2.8N of Moon	17 5 Mercury 2.8N of Moon	3 8 Moon furthest North (18.2)	17 16 Moon furthest South (-18.3)	3 8 Moon furthest North (18.2)
4 12 Mercury stationary	18 12 NEW MOON	18 12 NEW MOON	3 11 Mercury greatest elong W(18)	18 15 Jupiter 5.4S of Moon	3 11 Mercury greatest elong W(18)
4 17 Jupiter stationary	18 12 Aldebaran 1.4S of Moon	18 12 Aldebaran 1.4S of Moon	3 22 Venus 0.2S of Regulus	19 15 Neptune 4.5S of Moon	3 22 Venus 0.2S of Regulus
4 10 Moon furthest South (-18.5)	19 20 Moon furthest North (18.6)	19 20 Moon furthest North (18.6)	4 12 LAST QUARTER	19 18 FIRST QUARTER	4 12 LAST QUARTER
6 22 Moon at perigee	20 6 Venus stationary	20 6 Venus stationary	6 12 Neptune stationary	20 1 Uranus 5.4S of Moon	6 12 Neptune stationary
7 23 Jupiter 5.1S of Moon	22 13 Pluto at opposition	22 13 Pluto at opposition	6 17 Moon at apogee	22 8 Moon at perigee	6 17 Moon at apogee
8 15 Neptune 4.6S of Moon	22 16 Moon at apogee	22 16 Moon at apogee	7 11 Mars 5.4N of Moon	23 8 Mercury 3.4N of Spica	7 11 Mars 5.4N of Moon
8 23 Uranus stationary	24 22 Regulus 4.2N of Moon	24 22 Regulus 4.2N of Moon	8 13 Regulus 3.7N of Moon	24 8 Saturn 3.1S of Moon	8 13 Regulus 3.7N of Moon
9 3 Uranus 5.5S of Moon	25 14 FIRST QUARTER	25 14 FIRST QUARTER	9 1 Venus 3.4N of Moon	24 8 FULL MOON	9 1 Venus 3.4N of Moon
10 5 LAST QUARTER	27 6 Mercury stationary	27 6 Mercury stationary	10 3 Uranus stationary	29 7 Aldebaran 0.9S of Moon Occn	10 3 Uranus stationary
13 10 Saturn 3.2S of Moon	29 11 Spica 2.8S of Moon	29 11 Spica 2.8S of Moon	11 7 Mercury 2.4N of Moon	29 22 Mars 1.1N of Regulus	11 7 Mercury 2.4N of Moon
15 0 Mercury inferior conjunction	29 15 Mercury 3.4S of Mars	29 15 Mercury 3.4S of Mars	12 14 NEW MOON	30 17 Moon furthest North (18.3)	12 14 NEW MOON
June			November		
d h	d h	d h	d h	d h	d h
1 20 FULL MOON	15 14 Mercury 2.9S of Mars	15 14 Mercury 2.9S of Mars	2 0 Mercury superior conjunction	15 21 Neptune 4.4S of Moon	2 0 Mercury superior conjunction
2 20 Moon furthest South (-18.6)	16 1 NEW MOON	16 1 NEW MOON	3 7 LAST QUARTER	16 4 Moon at perigee	3 7 LAST QUARTER
3 16 Moon at perigee	16 4 Moon furthest North (18.6)	16 4 Moon furthest North (18.6)	3 13 Moon at apogee	16 7 Uranus 5.2S of Moon	3 13 Moon at apogee
4 4 Jupiter 5.0S of Moon	19 5 Moon at apogee	19 5 Moon at apogee	4 21 Regulus 3.6N of Moon	18 0 Venus 3.9N of Spica	4 21 Regulus 3.6N of Moon
4 22 Neptune 4.5S of Moon	21 2 Solstice	21 2 Solstice	5 4 Mars 4.9S of Moon	18 0 FIRST QUARTER	5 4 Mars 4.9S of Moon
5 9 Uranus 5.4S of Moon	21 3 Mercury 3.4N of Aldebaran	21 3 Mercury 3.4N of Aldebaran	6 17 Moon at apogee	20 12 Saturn 3.0S of Moon	6 17 Moon at apogee
8 11 LAST QUARTER	21 11 Regulus 4.0N of Moon	21 11 Regulus 4.0N of Moon	6 3 FULL MOON	21 0 Mercury 2.9N of Antares	6 3 FULL MOON
9 19 Saturn 3.0S of Moon	23 8 Mercury 1.3N of Venus	23 8 Mercury 1.3N of Venus	7 20 Antares 4.3S of Moon	24 23 Pluto at conjunction	7 20 Antares 4.3S of Moon
10 9 Mercury greatest elong W(24)	24 1 FIRST QUARTER	24 1 FIRST QUARTER	8 10 Moon furthest South (-22.4)	25 4 FULL MOON	8 10 Moon furthest South (-22.4)
10 16 Venus inferior conjunction	25 20 Spica 3.0S of Moon	25 20 Spica 3.0S of Moon	10 22 Neptune 2.6S of Moon	22 22 Moon furthest North (22.4)	10 22 Neptune 2.6S of Moon
14 0 Mercury 0.5N of Moon Occn	26 8 Mars 5.5N of Aldebaran	26 8 Mars 5.5N of Aldebaran	11 5 Mercury 4.5S of Moon	25 4 FULL MOON	11 5 Mercury 4.5S of Moon
14 2 Mars 3.6N of Moon	29 12 Venus 4.1S of Mars	29 12 Venus 4.1S of Mars	13 23 Moon furthest South (-18.4)	25 16 Aldebaran 1.0S of Moon Occn	13 23 Moon furthest South (-18.4)
14 19 Aldebaran 1.3S of Moon	30 7 Moon furthest South (-18.6)	30 7 Moon furthest South (-18.6)	15 4 Jupiter 5.3S of Moon	27 3 Moon furthest North (18.4)	15 4 Jupiter 5.3S of Moon
15 9 Venus 2.3N of Moon					

Краткий астрономический календарь на 1993 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Астрономические явления 1993			July		
January			August		
d h	d h	d h	d h	d h	d h
1 3 FIRST QUARTER	18 12 Antares 3.6S of Moon	15 15 Moon furthest North (22.3)	1 13 Antares 4.4S of Moon	16 15 Moon furthest North (22.3)	1 13 Antares 4.4S of Moon
3 13 Mars nearest to Earth	19 3 Moon furthest South (-23.1)	16 15 Moon furthest North (22.3)	2 4 Moon furthest South (-22.3)	19 0 Mercury 1.6S of Moon	2 4 Moon furthest South (-22.3)
4 0 Earth at perihelion	19 14 Venus greatest elong E(7.1)	19 11 FULL MOON	3 23 FULL MOON	19 11 FULL MOON	3 23 FULL MOON
6 9 Moon furthest North (23.1)	21 15 Neptune 1.8S of Moon	21 17 Regulus 5.4N of Moon	4 14 Neptune 2.5S of Moon	21 17 Regulus 5.4N of Moon	4 14 Neptune 2.5S of Moon
7 22 Mars at opposition	21 15 Uranus 2.9S of Moon	22 8 Moon at perigee	4 15 Uranus 3.7S of Moon	22 8 Moon at perigee	4 15 Uranus 3.7S of Moon
8 9 Uranus at conjunction	22 17 Mercury 5.4S of Moon	22 23 Mars 5.9N of Moon	4 19 Earth at aphelion	22 23 Mars 5.9N of Moon	4 19 Earth at aphelion
8 12 FULL MOON	22 18 NEW MOON	24 10 Jupiter 5.7N of Moon	10 10 Moon at apogee	24 10 Jupiter 5.7N of Moon	10 10 Moon at apogee
8 22 Neptune at conjunction	23 15 Mercury superior conjunction	25 11 Spica 1.7N of Moon	11 2 Neptune at opposition	25 11 Spica 1.7N of Moon	11 2 Neptune at opposition
10 12 Moon at perigee	24 2 Saturn 5.4S of Moon	25 12 Mercury stationary	12 13 Uranus at opposition	26 3 FIRST QUARTER	12 13 Uranus at opposition
11 7 Regulus 5.2N of Moon	26 10 Moon at apogee	26 3 FIRST QUARTER	12 21 Venus 3.0N of Aldebaran	29 19 Antares 4.5S of Moon	12 21 Venus 3.0N of Aldebaran
14 10 Mercury 1.3S of Uranus	27 1 Venus 4.4S of Moon	29 19 Antares 4.5S of Moon	15 1 Mercury inferior conjunction	29 10 Moon furthest South (-22.2)	15 1 Mercury inferior conjunction
14 16 Mercury 2.4S of Neptune	29 13 Jupiter stationary	31 20 Neptune 2.5S of Moon	16 0 Aldebaran 5.6S of Moon	31 20 Neptune 2.5S of Moon	16 0 Aldebaran 5.6S of Moon
15 1 Spica 2.3N of Moon	30 23 FIRST QUARTER	31 20 Uranus 3.7S of Moon	16 2 Venus 2.5S of Moon	31 20 Uranus 3.7S of Moon	16 2 Venus 2.5S of Moon
15 4 LAST QUARTER					
February			September		
d h	d h	d h	d h	d h	d h
2 1 Mercury 0.9S of Saturn	15 9 Moon furthest South (-23.0)	2 12 FULL MOON	2 12 FULL MOON	19 23 Saturn at opposition	2 12 FULL MOON
2 8 Uranus 1.1S of Neptune	15 11 Mars stationary	4 2 Mercury greatest elong W(19)	4 2 Mercury greatest elong W(19)	20 8 Uranus 1.2S of Neptune	4 2 Mercury greatest elong W(19)
2 19 Moon furthest North (23.0)	17 23 Neptune 2.0S of Moon	7 0 Pluto stationary	7 0 Pluto stationary	20 12 Mars 4.9N of Moon	7 0 Pluto stationary
4 9 Mars 5.7N of Moon	18 0 Uranus 3.1S of Moon	7 3 Moon at apogee	7 3 Moon at apogee	21 0 Jupiter 5.3N of Moon	7 3 Moon at apogee
6 23 FULL MOON	20 15 Saturn 5.5S of Moon	10 15 LAST QUARTER	10 15 LAST QUARTER	21 18 Spica 1.5N of Moon	10 15 LAST QUARTER
7 18 Regulus 5.2N of Moon	21 4 Mercury greatest elong E(18)	12 9 Aldebaran 5.4S of Moon	12 9 Aldebaran 5.4S of Moon	24 10 FIRST QUARTER	12 9 Aldebaran 5.4S of Moon
7 20 Moon at perigee	21 13 NEW MOON	13 0 Moon furthest North (22.1)	13 0 Moon furthest North (22.1)	25 16 Moon furthest South (-22.0)	13 0 Moon furthest North (22.1)
9 16 Saturn at conjunction	22 17 Moon at apogee	15 1 Venus 2.0N of Moon	15 1 Venus 2.0N of Moon	25 16 Moon furthest South (-22.0)	15 1 Venus 2.0N of Moon
11 8 Spica 2.1N of Moon	23 3 Mercury 3.3S of Moon	16 21 Mercury 5.5N of Moon	16 21 Mercury 5.5N of Moon	26 4 Uranus 4.0S of Regulus	16 21 Mercury 5.5N of Moon
13 15 LAST QUARTER	25 4 Venus 0.4N of Moon Occn	17 19 NEW MOON	17 19 NEW MOON	28 0 Uranus 3.8S of Moon	17 19 NEW MOON
14 17 Antares 3.7S of Moon	27 9 Mercury stationary	18 3 Regulus 5.4N of Moon	18 3 Regulus 5.4N of Moon	28 1 Neptune 2.7S of Moon	18 3 Regulus 5.4N of Moon
		19 7 Moon at perigee	19 7 Moon at perigee	29 8 Mercury superior conjunction	19 7 Moon at perigee
March			October		
d h	d h	d h	d h	d h	d h
1 12 Pluto stationary	17 8 Uranus 3.4S of Moon	1 2 FULL MOON	1 2 FULL MOON	18 3 Spica 1.4N of Moon	1 2 FULL MOON
1 15 FIRST QUARTER	20 8 Saturn 5.8S of Moon</				

Краткий астрономический календарь на 1994 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Астрономические явления 1994			
January		July	
d h	d h	d h	d h
1 1 Mercury 0.8S of Mars	11 22 Neptune 3.2S of Moon	2 16 Jupiter stationary	16 2 Spica 0.3N of Moon Occn
1 19 Regulus 5.8N of Moon	11 23 NEW MOON	3 5 Moon at apogee	16 21 Jupiter 2.8N of Moon
2 7 Earth at perihelion	12 0 Uranus 4.4S of Moon	5 19 Mars 0.4N of Moon Occn	17 3 Uranus at opposition
3 19 Mercury superior conjunction	12 10 Venus 1.4S of Neptune	5 19 Earth at aphelion	17 14 Mercury greatest elong W(20)
5 0 LAST QUARTER	12 17 Uranus at conjunction	5 22 Aldebaran 3.9S of Moon	17 18 Mars 5.2N of Aldebaran
5 15 Spica 1.1N of Moon Occn	13 13 Mars 0.4S of Uranus	6 17 Moon furthest North (20.7)	18 16 Moon at perigee
6 0 Moon at perigee	16 14 Venus 1.5S of Neptune	6 18 Mercury stationary	19 23 Moon furthest South (-20.6)
6 5 Venus 0.3N of Mars	17 2 Venus superior conjunction	7 13 Mercury 1.3S of Moon	22 6 Neptune 3.7S of Moon
6 20 Jupiter 3.0N of Moon	18 15 Mars 0.5S of Uranus	8 21 NEW MOON	22 10 Uranus 5.0S of Moon
8 10 Mercury 2.6S of Neptune	19 15 Moon at apogee	11 1 Venus 1.0N of Regulus	22 26 FULL MOON
8 22 Antares 5.3S of Moon	19 20 FIRST QUARTER	12 4 Regulus 5.3N of Moon	30 12 LAST QUARTER
9 6 Mercury 1.6S of Uranus	23 4 Aldebaran 4.7S of Moon	14 15 Neptune at opposition	30 22 Moon at apogee
9 13 Moon furthest South (-21.5)	23 21 Moon furthest North (21.4)	16 1 FIRST QUARTER	
11 7 Neptune at conjunction	27 13 FULL MOON		
11 15 Mars 4.5S of Moon	28 3 Regulus 5.3N of Moon		
11 20 Venus 4.6S of Moon	31 4 Moon at perigee		
February		August	
d h	d h	d h	d h
1 18 Mercury 1.2N of Saturn	16 1 Moon at apogee	2 16 Aldebaran 3.8S of Moon	16 5 Moon furthest South (-20.5)
1 21 Spica 1.0N of Moon Occn	16 14 Mercury 4.8N of Venus	3 1 Moon furthest North (20.6)	17 22 Mercury 1.2N of Regulus
3 7 Jupiter 2.7N of Moon	16 17 FIRST QUARTER	3 4 Mars 2.8N of Moon	18 12 Neptune 3.8S of Moon
3 8 LAST QUARTER	19 6 Mercury 5.0N of Saturn	7 8 NEW MOON	18 16 Uranus 5.0S of Moon
4 16 Mercury greatest elong E(18)	19 13 Aldebaran 4.5S of Moon	8 11 Regulus 5.4N of Moon	21 6 FULL MOON
5 4 Antares 5.4S of Moon	20 6 Moon furthest North (21.2)	9 13 Pluto stationary	24 20 Venus greatest elong E(46)
5 19 Moon furthest South (-21.3)	20 7 Mercury inferior conjunction	10 20 Venus 3.1N of Moon	27 17 Moon at apogee
8 7 Neptune 3.4S of Moon	21 17 Saturn at conjunction	11 7 Spica 0.1N of Moon Occn	29 6 LAST QUARTER
8 11 Uranus 4.5S of Moon	25 12 Regulus 5.4N of Moon	12 23 Moon at perigee	29 14 Aldebaran 3.6S of Moon
10 16 Mars 5.8S of Moon	26 1 FULL MOON	13 0 Mercury superior conjunction	30 10 Moon furthest North (20.4)
10 16 NEW MOON	27 22 Moon at perigee	13 6 Jupiter 2.1N of Moon	31 14 Venus 0.6S of Spica
10 17 Mercury stationary	28 4 Mercury 3.9N of Mars	14 5 FIRST QUARTER	
11 20 Mercury 2.6S of Moon	28 20 Jupiter stationary		
12 2 Venus 0.0N of Saturn			
March		September	
d h	d h	d h	d h
1 4 Spica 0.8N of Moon Occn	15 16 Moon at apogee	1 1 Mars 4.4N of Moon	14 21 Uranus 5.2S of Moon
2 14 Jupiter 2.5N of Moon	18 20 Aldebaran 4.3S of Moon	1 16 Saturn at opposition	19 20 FULL MOON
4 0 Pluto stationary	19 4 Mercury greatest elong W(28)	4 20 Regulus 5.4N of Moon	21 11 Mercury 0.1S of Spica
4 9 Antares 5.6S of Moon	19 14 Moon furthest North (21.0)	5 18 NEW MOON	22 19 Mars 5.9S of Pollux
4 14 Mercury stationary	20 12 FIRST QUARTER	7 6 Mercury 3.1N of Moon	23 6 Equinox
4 16 LAST QUARTER	20 20 Equinox	8 14 Moon at perigee	24 11 Moon at apogee
5 1 Moon furthest South (-21.1)	24 8 Mercury 0.2S of Saturn	8 14 Spica 0.0N of Moon Occn	25 22 Aldebaran 3.4S of Moon
7 14 Neptune 3.6S of Moon	24 23 Regulus 5.5N of Moon	9 2 Venus 2.2S of Moon	25 11 Mercury greatest elong E(26)
7 19 Uranus 4.8S of Moon	25 11 FULL MOON	9 18 Jupiter 1.5N of Moon	26 18 Moon furthest North (20.2)
10 1 Mercury 4.4S of Moon	28 5 Moon at perigee	12 11 FIRST QUARTER	28 0 LAST QUARTER
10 7 NEW MOON	28 14 Spica 0.8N of Moon Occn	12 11 Moon furthest South (-20.3)	29 19 Mars 5.8N of Moon
13 12 Venus 5.0S of Moon	29 21 Jupiter 2.5N of Moon	14 18 Neptune 4.0S of Moon	
14 4 Mars 0.3N of Saturn	31 16 Antares 5.8S of Moon		
April		October	
d h	d h	d h	d h
1 8 Moon furthest South (-20.9)	19 2 FIRST QUARTER	2 3 Uranus stationary	12 2 Uranus 5.3S of Moon
3 2 LAST QUARTER	21 9 Regulus 5.6N of Moon	2 6 Regulus 5.5N of Moon	12 21 Venus stationary
3 21 Neptune 3.8S of Moon	25 1 Spica 0.5N of Moon Occn	2 13 Neptune stationary	19 12 FULL MOON
4 2 Uranus 5.0S of Moon	25 9 Neptune stationary	5 3 NEW MOON	21 5 Mercury inferior conjunction
4 19 Mercury 1.3S of Mars	25 16 Moon at perigee	5 23 Spica 0.1S of Moon Occn	22 1 Moon at apogee
8 20 Mars 5.5S of Moon	25 19 FULL MOON	6 14 Moon at perigee	23 5 Aldebaran 3.3S of Moon
11 0 NEW MOON	26 3 Jupiter 2.6N of Moon	7 11 Jupiter 0.8N of Moon Occn	24 17 Mercury 4.0N of Spica
11 23 Moon at apogee	28 2 Antares 5.9S of Moon	9 6 Mercury stationary	27 16 LAST QUARTER
12 22 Venus 1.1S of Moon Occn	28 17 Moon furthest South (-20.8)	9 18 Moon furthest South (-20.2)	29 15 Regulus 5.5N of Moon
15 3 Aldebaran 4.1S of Moon	30 8 Jupiter at opposition	11 19 FIRST QUARTER	29 17 Mercury stationary
15 20 Moon furthest North (20.8)	30 10 Mercury superior conjunction	11 23 Neptune 4.2S of Moon	
May		November	
d h	d h	d h	d h
1 1 Uranus stationary	18 12 FIRST QUARTER	2 7 Mercury 3.9N of Moon	13 18 Mercury 4.8N of Venus
1 4 Neptune 3.9S of Moon	18 17 Regulus 5.7N of Moon	2 10 Spica 0.2S of Moon Occn	17 19 Jupiter at conjunction
1 10 Uranus 5.1S of Moon	22 11 Spica 0.5N of Moon Occn	2 23 Venus inferior conjunction	18 5 Moon at apogee
2 14 LAST QUARTER	23 9 Jupiter 2.8N of Moon	3 12 Venus 4.8S of Moon	18 6 FULL MOON Eclipse
8 0 Mars 4.0S of Moon	22 2 Moon at perigee	4 13 NEW MOON	19 11 Aldebaran 3.3S of Moon
8 2 Mars at apogee	25 12 FULL MOON	4 0 Moon at perigee	20 7 Moon furthest North (20.1)
10 17 NEW MOON	25 13 Antares 6.0S of Moon	4 7 Jupiter 0.2N of Moon Occn	20 12 Pluto at conjunction
11 21 Mercury 2.5N of Moon	26 4 Moon furthest South (-20.8)	5 2 Mercury 4.2N of Spica	21 16 Venus stationary
12 9 Mars 4.1S of Moon	28 13 Neptune 3.9S of Moon	6 3 Moon furthest South (-20.1)	25 23 Regulus 5.6N of Moon
13 2 Moon furthest North (20.8)	28 18 Uranus 5.1S of Moon	6 6 Mercury greatest elong W(19)	26 6 LAST QUARTER
17 20 Pluto at opposition	30 6 Mercury greatest elong E(23)	8 7 Neptune 4.2S of Moon	28 16 Mercury 0.4S of Jupiter
		10 10 Uranus 5.3S of Moon	29 21 Spica 0.3S of Moon Occn
		9 21 Saturn stationary	30 22 Moon at perigee
		10 6 FIRST QUARTER	31 3 Mercury 1.3N of Moon
June		December	
d h	d h	d h	d h
1 4 Jupiter at opposition	17 15 Moon furthest North (20.1)	2 4 Jupiter 0.5S of Moon Occn	16 17 Aldebaran 3.2S of Moon
2 13 Mercury 1.8S of Moon	18 2 FULL MOON	2 10 Moon at perigee	17 15 Moon furthest North (20.1)
2 23 NEW MOON	22 2 Solstice	2 23 Venus inferior conjunction	18 2 FULL MOON
3 15 Moon furthest South (-20.1)	23 5 Regulus 5.4N of Moon	3 15 Moon furthest South (-20.1)	23 9 Regulus 5.4N of Moon
5 18 Neptune 4.2S of Moon	25 19 Uranus 5.0S of Moon	5 18 Neptune 4.2S of Moon	25 19 Uranus 5.0S of Moon
5 22 Uranus 5.3S of Moon	27 5 Spica 0.4S of Moon Occn	5 22 Uranus 5.3S of Moon	27 5 Spica 0.4S of Moon Occn
6 8 Mercury 4.1N of Antares	29 3 Venus 2.8N of Moon	6 8 Mercury 4.1N of Antares	29 3 Venus 2.8N of Moon
6 15 FIRST QUARTER	30 0 Jupiter 1.1S of Moon Occn	6 15 FIRST QUARTER	30 0 Jupiter 1.1S of Moon Occn
11 11 Mars 2.3N of Regulus	30 22 Moon at perigee	11 11 Mars 2.3N of Regulus	30 22 Moon at perigee
14 3 Mercury superior conjunction	31 3 Moon furthest South (-20.0)	14 3 Mercury superior conjunction	31 3 Moon furthest South (-20.0)
15 7 Moon at apogee		15 7 Moon at apogee	

Краткий астрономический календарь на 1995 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Астрономические явления 1995			
January		July	
d h	d h	d h	d h
1 10 NEW MOON	19 5 Mercury greatest elong E(19)	2 11 Regulus 5.0N of Moon	17 4 Neptune at opposition
2 6 Neptune 4.2S of Moon	19 11 Regulus 5.2N of Moon	4 1 Mars 4.2N of Moon	17 14 LAST QUARTER
2 8 Mercury 2.3S of Neptune	23 11 Spica 0.6S of Moon Occn	4 6 Earth at aphelion	17 17 Mercury 0.4N of Venus
2 11 Uranus 5.3S of Moon	23 19 Mars 3.8N of Regulus	5 20 FIRST QUARTER	21 17 Uranus at opposition
4 0 Mars stationary	24 4 LAST QUARTER	6 14 Spica 1.3S of Moon	22 16 Mercury 5.6S of Pollux
4 5 Mercury 1.6S of Uranus	25 10 Mercury stationary	7 11 Saturn stationary	23 2 Aldebaran 2.3S of Moon
4 6 Earth at perihelion	26 17 Jupiter 1.7S of Moon	9 13 Jupiter 2.1S of Moon	23 20 Moon at apogee
6 15 Moon at apogee	27 12 Moon furthest South (-19.8)	10 15 Moon furthest South (-19.3)	24 4 Moon furthest North (19.3)
11 22 Moon at apogee	27 12 Venus 0.2S of Moon Occn	11 9 Moon at perigee	27 0 Venus 5.7N of Moon
13 0 Aldebaran 3.1S of Moon	27 22 Moon at perigee	12 18 FULL MOON	27 15 NEW MOON
13 13 Venus greatest elong W(47)	28 0 Jupiter 5.3N of Antares	12 18 Neptune 4.4S of Moon	28 2 Mercury superior conjunction
13 17 Neptune at conjunction	29 18 Neptune 4.2S of Moon	13 1 Uranus 5.6S of Moon	29 16 Regulus 4.8N of Moon
13 23 Moon furthest North (20.0)	30 0 Uranus 5.4S of Moon	16 23 Saturn 5.3S of Moon	
14 21 Venus 2.8N of Jupiter	30 22 NEW MOON		
16 20 FULL MOON	31 11 Mercury 2.0S of Moon		
17 0 Uranus at conjunction			
February		August	
d h	d h	d h	d h
3 22 Mercury inferior conjunction	19 17 Spica 0.8S of Moon Occn	1 18 Mars 2.3N of Moon	18 3 LAST QUARTER
7 12 FIRST QUARTER	22 13 LAST QUARTER	2 20 Spica 1.5S of Moon	19 9 Aldebaran 2.1S of Moon
8 15 Moon at apogee	26 14 Moon at perigee	2 21 Jupiter stationary	20 11 Moon at apogee
9 8 Aldebaran 2.9S of Moon	23 5 Jupiter 2.1S of Moon	4 3 FIRST QUARTER	20 12 Moon furthest North (19.1)
10 7 Moon furthest North (19.8)	23 19 Moon furthest South (-19.7)	5 20 Jupiter 2.4S of Moon	21 0 Venus superior conjunction
11 14 Mars nearest to Earth	26 3 Neptune 4.4S of Moon	7 1 Moon furthest South (-19.2)	22 20 Venus 0.3N of Regulus
12 2 Mars at opposition	26 3 Neptune 4.4S of Moon	8 13 Moon at perigee	22 23 Regulus 4.8N of Moon
15 12 FULL MOON	26 7 Venus 0.7N of Neptune	10 3 Neptune 4.4S of Moon	26 15 NEW MOON
15 18 Regulus 5.1N of Moon	26 10 Uranus 5.5S of Moon	9 9 Uranus 5.6S of Moon	26 7 Venus 5.8N of Moon
15 20 Mercury stationary	27 8 Mercury 4.9S of Moon	9 21 Mercury 1.8N of Regulus	28 4 Mercury 1.8N of Moon
March		September	
d h	d h	d h	d h
1 11 NEW MOON	20 13 Moon at perigee	2 4 Jupiter 2.7S of Moon	22 3 Mercury stationary
1 15 Mercury greatest elong W(27)	21 2 Equinox	2 9 FIRST QUARTER	22 7 Regulus 4.8N of Moon
1 19 Saturn 5.8S of Moon	22 14 Jupiter 2.4S of Moon	3 8 Moon furthest South (-19.0)	23 12 Equinox
1 22 Venus 1.3N of Uranus	23 0 Moon furthest South (-19.5)	5 0 Moon at perigee	24 16 NEW MOON
6 1 Saturn at conjunction	23 20 LAST QUARTER	5 10 Neptune 4.3S of Moon	25 11 Venus 2.3N of Moon
6 9 Pluto stationary	25 10 Neptune 4.5S of Moon	9 16 Uranus 5.7S of Moon	25 22 Jupiter 5.0N of Antares
8 15 Moon at apogee	25 17 Mars stationary	9 1 Mercury greatest elong E(27)	26 0 Mercury 3.1S of Moon
8 16 Aldebaran 2.7S of Moon	25 18 Mars 5.7S of Moon	9 3 FULL MOON	26 8 Spica 1.8S of Moon
9 10 FIRST QUARTER	26 3 Mercury 0.5S of Saturn	9 13 Saturn 5.3S of Moon	27 18 Mars 1.9S of Moon
9 15 Moon furthest North (19.6)	27 23 Venus 5.4S of Moon	14 15 Saturn at opposition	29 15 Jupiter 3.1S of Moon
9 13 Regulus 5.2N of Moon	29 8 Mercury 5.6S of Moon	15 17 Aldebaran 2.0S of Moon	29 19 Mercury 4.5S of Venus
17 1 FULL MOON	29 19 Mercury 5.7S of Moon	16 20 Moon furthest North (18.9)	30 3 Moon at perigee
19 0 Spica 0.9S of Moon Occn	31 2 NEW MOON	16 21 LAST QUARTER	30 13 Moon furthest South (-18.9)
April		October	
d h	d h	d h	d h
1 12 Jupiter stationary	17 8 Moon at perigee	1 14 FIRST QUARTER	19 16 Regulus 4.9N of Moon
5 0 Aldebaran 2.6S of Moon	18 21 Jupiter 2.5S of Moon	2 15 Neptune 4.7S of Moon	20 20 Mercury greatest elong W(18)
5 10 Moon at apogee	19 7 Moon furthest South (-19.4)	2 22 Uranus 5.8S of Moon	22 15 Mercury 3.4N of Moon
5 23 Moon furthest North (19.4)	21 16 Neptune 4.6S of Moon	5 1 Mercury inferior conjunction	23 17 Spica 1.8S of Moon
8 5 FIRST QUARTER	22 1 Uranus 5.8S of Moon	5 1 Mercury inferior conjunction	24 4 NEW MOON Eclipse
11 13 Regulus 5.2N of Moon	22 3 LAST QUARTER	5 7 Venus 2.3N of Spica	25 11 Venus 1.9S of Moon
13 12 Venus 0.3N of Saturn	25 20 Saturn 5.5S of Moon	6 14 Uranus stationary	26 12 Mars 3.8S of Moon
14 12 Mercury superior conjunction	27 0 Venus 4.2S of Moon	6 18 Saturn 5.5S of Moon	26 21 Moon at perigee
15 9 Spica 1.0S of Moon Occn	27 21 Neptune stationary	8 15 FULL MOON Eclipse	27 6 Jupiter 3.5S of Moon
15 12 FULL MOON Eclipse	29 17 NEW MOON Eclipse	13 1 Aldebaran 1.9S of Moon	27 19 Moon furthest South (-18.9)
May		November	
d h	d h	d h	d h
1 7 Mercury 4.0N of Moon	19 0 Neptune 4.6S of Moon	2 22 Saturn 5.5S of Moon	22 15 NEW MOON
2 7 Aldebaran 2.5S of Moon	19 8 Uranus 5.7S of Moon	3 7 Mars 3.8N of Antares	22 21 Venus 0.2S of Mars
2 10 Moon at apogee	20 17 Pluto at opposition	7 7 FULL MOON	23 5 Mercury superior conjunction
3 6 Moon furthest North (19.4)	21 11 LAST QUARTER	9 9 Aldebaran 1.9S of Moon	23 6 Pluto at conjunction
5 11 Uranus stationary	23 6 Saturn 5.4S of Moon	10 12 Moon furthest North (18.9)	23 23 Moon at perigee
7 21 FIRST QUARTER	24 18 Mercury stationary	11 5 Venus 4.0N of Antares	24 1 Jupiter 2.9S of Moon
8 22 Regulus 5.3N of Moon	25 3 Mars 1.0N of Regulus	12 20 Moon at apogee	24 8 Mercury 2.1S of Jupiter
12 1 Mercury greatest elong E(22)	27 6 Venus 0.8S of Moon Occn	15 11 LAST QUARTER	24 8 Mars 5.3S of Moon
12 10 Spica 1.1S of Moon Occn	29 9 NEW MOON	16 1 Regulus 4.8N of Moon	24 9 Venus 5.6S of Moon
14 2 FULL MOON	29 13 Aldebaran 2.5S of Moon	16 3 Mars 1.2S of Jupiter	26 5 Neptune 4.6S of Moon
15 15 Moon at perigee	30 4 Mercury 2.5N of Moon	19 9 Uranus 5.7S of Moon	26 12 Uranus 5.7S of Moon
16 2 Jupiter 2.3S of Moon	30 7 Moon at apogee	20 4 Spica 1.9S of Moon	29 2 Mercury 3.5N of Antares
16 17 Moon furthest South (-19.4)	30 14 Moon furthest North (19.4)	22 13 Saturn stationary	29 6 FIRST QUARTER
June		December	
d h	d h	d h	d h
1 11 Jupiter at opposition	17 4 Mercury stationary	6 16 Aldebaran 1.9S of Moon	21 17 Moon furthest South (-18.9)
5 Mercury inferior conjunction	18 16 Venus 4.7N of Aldebaran	7 1 FULL MOON	22 22 Jupiter 4.2S of Moon
5 5 Regulus 5.2N of Moon	18 21 Mercury 3.5S of Venus	7 20 Moon furthest North (19.0)	22 2 NEW MOON
5 15 Mars 5.7N of Moon	19 15 Saturn 5.3S of Moon	8 7 FIRST QUARTER	26 2 Mercury 0.6S of Moon Occn
6 10 FIRST QUARTER	19 22 LAST QUARTER	9 10 Moon at apogee	22 10 Moon at perigee
7 22 Jupiter 5.4N of Antares	21 20 Solstice	13 8 Regulus 4.7N of Moon	23 14 Mercury 1.1S of Mars
9 6 Spica 1.2S of Moon Occn	25 19 Aldebaran 2.5S of Moon	15 5 LAST QUARTER	23 17 Neptune 4.5S of Moon
12 14 Jupiter 2.1S of Moon	26 2 Mercury 0.6S of Moon	17 14 Spica 2.1S of Moon	24 0 Venus 2.2S of Neptune
13 0 Moon at perigee	26 10 Moon at apogee	18 21 Uranus 5.0S of Moon	27 11 Saturn 5.0S of Moon
13 4 FULL MOON	26 15 Venus 3.1N of Moon	18 21 Uranus 5.0S of Moon	28 10 Mercury 2.3S of Neptune
13 4 Moon furthest South (-19.4)	26 21 Moon furthest North (19.4)	19 19 FIRST QUARTER	28 19 Mercury 2.3S of Neptune
15 8 Neptune 4.4S of Moon	28 0 NEW MOON	22 15 Venus 1.2S of Uranus	
15 16 Uranus 5.6S of Moon	29 16 Mercury greatest elong W(22)		

Краткий астрономический календарь на 2000 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Астрономические явления 2000			
January		July	
d h	d h	d h	d h
1 2 Venus 2.5S of Moon	15 18 Saturn 2.8N of Moon	1 15 Mars at conjunction	16 13 FULL MOON Eclipse
3 5 Earth at perihelion	16 0 Mercury superior conjunction	1 19 Mars 2.2N of Moon	17 19 Mercury stationary
4 12 Moon at apogee	17 19 Aldebaran 1.3S of Moon	1 19 NEW MOON	17 19 Neptune 1.2N of Moon
6 5 Mercury 3.6S of Moon	19 21 Moon furthest North (21.0)	1 21 Moon furthest North (21.7)	18 17 Uranus 1.8N of Moon
6 8 Moon furthest South (-21.0)	19 22 Moon at perigee	1 22 Moon at perigee	21 15 Mars 5.7S of Pollux
6 18 NEW MOON	21 4 FULL MOON Eclipse	2 4 Venus 1.6N of Moon	24 10 LAST QUARTER
8 5 Neptune 0.2N of Moon	21 6 Mercury 2.3S of Neptune	2 6 Mercury 3.3S of Moon	26 10 Saturn 2.2N of Moon
9 5 Uranus 0.3N of Moon	23 4 Regulus 1.8S of Moon	2 17 Mercury 5.0S of Venus	26 20 Jupiter 3.1N of Moon
10 20 Mars 1.8N of Moon	24 18 Neptune at conjunction	4 2 Earth at aphelion	27 10 Aldebaran 1.8S of Moon
13 1 Saturn stationary	28 8 LAST QUARTER	5 3 Regulus 2.5S of Moon	27 10 Mercury greatest elong W(20)
14 13 FIRST QUARTER	28 9 Mercury 1.2S of Uranus	6 11 Mercury inferior conjunction	27 22 Neptune at opposition
14 17 Jupiter 4.0N of Moon		7 14 Mercury 5.6S of Mars	29 8 Moon furthest North (21.8)
		7 19 Venus 5.6S of Pollux	29 17 Mercury 0.9S of Moon Occn
		8 12 FIRST QUARTER	30 7 Moon at perigee
		15 12 Moon furthest South (-21.8)	31 10 Mars 0.6N of Moon Occn
		15 15 Moon at apogee	31 2 NEW MOON Eclipse
February		August	
d h	d h	d h	d h
1 2 Moon at apogee	14 2 Aldebaran 1.3S of Moon	1 2 Venus 1.0S of Moon Occn	22 18 LAST QUARTER
1 15 Venus 1.3S of Moon	14 19 Mercury greatest elong E(18)	1 13 Regulus 2.5S of Moon	22 19 Saturn 2.0N of Moon
2 16 Moon furthest South (-21.0)	16 7 Moon furthest North (21.1)	6 14 Venus 1.0N of Regulus	22 20 Pluto stationary
4 14 Neptune 0.3N of Moon Occn	17 1 Moon at perigee	7 1 FIRST QUARTER	23 10 Jupiter 2.7N of Moon
5 13 NEW MOON Eclipse	19 15 Regulus 1.8S of Moon	10 11 Mercury 0.1S of Mars	23 15 Aldebaran 1.8S of Moon
5 14 Uranus 0.5N of Moon	19 16 FULL MOON	11 5 Uranus at opposition	25 17 Moon furthest North (21.9)
6 7 Uranus at conjunction	20 23 Mercury stationary	11 18 Moon furthest South (-21.8)	27 14 Moon at perigee
6 20 Mercury 1.7N of Moon	22 8 Venus 0.5S of Neptune	11 22 Moon at apogee	28 3 Mars 0.9S of Moon Occn
8 19 Mars 3.7N of Moon	27 3 LAST QUARTER	13 17 Neptune 1.2N of Moon	28 23 Regulus 2.6S of Moon
11 5 Jupiter 4.2N of Moon	28 21 Moon at apogee	14 21 Uranus 1.4N of Moon	29 10 NEW MOON
12 1 Saturn 3.0N of Moon	29 23 Moon furthest South (-21.1)	15 5 FULL MOON	29 23 Mercury 2.6S of Moon
12 23 FIRST QUARTER		22 1 Mercury superior conjunction	30 17 Jupiter 4.8N of Aldebaran
		22 8 Mercury 1.3N of Regulus	31 1 Venus 3.5S of Moon
March		September	
d h	d h	d h	d h
1 15 Mercury inferior conjunction	14 23 Moon at perigee	5 16 FIRST QUARTER	19 19 Jupiter 2.4N of Moon
3 0 Neptune 0.5N of Moon Occn	15 21 Mercury 2.1N of Venus	8 1 Moon furthest South (-21.9)	21 1 LAST QUARTER
4 0 Venus 0.1S of Uranus	16 11 Pluto stationary	8 12 Moon at apogee	22 0 Moon furthest North (22.0)
4 1 Uranus 0.7N of Moon	18 0 Regulus 1.9S of Moon	8 23 Neptune 1.2N of Moon	22 17 Equinox
4 1 Venus 0.7N of Moon	20 4 FULL MOON	11 2 Uranus 1.4N of Moon	23 20 Mercury 0.6N of Spica
6 5 NEW MOON	20 23 Equinox	12 19 Saturn stationary	24 8 Moon at perigee
9 19 Jupiter 4.1N of Moon	27 17 Moon at apogee	13 19 FULL MOON	25 8 Regulus 2.6S of Moon
10 10 Saturn 2.9N of Moon	28 0 Mercury 0.7N of Regulus	16 18 Mars 0.7N of Regulus	25 18 Mars 2.2S of Moon
12 8 Aldebaran 1.4S of Moon	29 0 Mercury greatest elong W(28)	22 1 Saturn 1.7N of Moon	27 19 NEW MOON
13 7 FIRST QUARTER	30 9 Neptune 0.7N of Moon Occn	19 14 Venus 2.3N of Spica	29 13 Jupiter stationary
14 0 Mercury stationary	31 12 Uranus 1.0N of Moon Occn	19 17 Aldebaran 2.1S of Moon	29 16 Venus 4.9S of Moon
14 14 Moon furthest North (21.2)			
April		October	
d h	d h	d h	d h
2 13 Mercury 1.5N of Moon	11 13 FIRST QUARTER	5 9 Moon furthest South (-22.1)	19 5 Moon furthest North (22.2)
3 7 Venus 2.6N of Moon	14 7 Regulus 2.1S of Moon	5 11 FIRST QUARTER	19 22 Moon at perigee
4 18 NEW MOON	15 20 Mars 2.3N of Saturn	6 5 Mercury greatest elong E(26)	20 7 LAST QUARTER
6 5 Mars 1.0N of Jupiter	18 17 FULL MOON	6 6 Moon at apogee	22 15 Regulus 2.8S of Moon
6 13 Jupiter 4.0N of Moon	24 12 Moon at apogee	7 6 Neptune 1.4N of Moon	24 7 Mars 3.2S of Moon
6 13 Mars 5.0N of Moon	24 15 Moon furthest South (-21.4)	8 8 Uranus 1.5N of Moon	26 19 Uranus stationary
6 22 Saturn 2.8N of Moon	26 18 Neptune 0.9N of Moon Occn	13 8 FULL MOON	27 7 Venus 3.2N of Antares
8 14 Aldebaran 1.6S of Moon	26 19 LAST QUARTER	15 11 Neptune stationary	27 8 NEW MOON
8 22 Moon at perigee	27 22 Uranus 1.2N of Moon	16 6 Saturn 1.5N of Moon	29 1 Jupiter 4.5N of Aldebaran
10 19 Moon furthest North (21.3)	28 11 Mercury 0.3S of Venus	16 23 Aldebaran 2.2S of Moon	30 1 Mercury inferior conjunction
		17 0 Jupiter 2.2N of Moon	30 9 Venus 4.4S of Moon
		18 14 Mercury stationary	
May		November	
d h	d h	d h	d h
3 9 Venus 3.7N of Moon	10 19 Saturn at conjunction	1 17 Moon furthest South (-22.4)	15 13 Mercury greatest elong W(19)
3 16 Mercury 4.0N of Moon	10 20 FIRST QUARTER	3 15 LAST QUARTER	18 15 LAST QUARTER
4 4 NEW MOON	11 12 Regulus 2.3S of Moon	3 14 Neptune 1.6N of Moon	18 20 Saturn 3.0S of Moon
4 9 Jupiter 3.8N of Moon	17 10 Venus 0.0N of Jupiter	4 7 FIRST QUARTER	19 12 Regulus at opposition
4 13 Saturn 2.4N of Moon	18 17 FULL MOON	4 16 Uranus 1.8N of Moon	21 20 Mars 3.8S of Moon
5 8 Mars 4.8N of Moon	18 12 Mercury 1.2N of Saturn	7 20 Mercury stationary	24 13 Mercury 2.7S of Moon
5 22 Aldebaran 1.7S of Moon	19 12 Venus 1.7S of Mars	11 21 FULL MOON	25 23 NEW MOON
6 9 Moon at perigee	21 23 Moon furthest South (-21.6)	12 11 Saturn 1.5N of Moon	28 2 Jupiter at opposition
8 2 Moon furthest North (21.5)	22 3 Moon at apogee	13 4 Jupiter 2.3N of Moon	29 1 Moon furthest South (-22.5)
8 4 Jupiter at conjunction	24 2 Neptune 1.1N of Moon Occn	13 6 Aldebaran 2.4S of Moon	29 17 Venus 2.0S of Moon
8 12 Neptune stationary	25 6 Uranus 1.4N of Moon	15 12 Moon at perigee	30 22 Moon at apogee
8 16 Mercury 0.8N of Jupiter	25 24 Uranus stationary	15 12 Moon furthest North (22.4)	30 23 Neptune 1.8N of Moon
8 3 Mercury superior conjunction	26 11 LAST QUARTER		
9 20 Mercury 2.1N of Saturn	28 16 Jupiter 1.1N of Saturn		
June		December	
d h	d h	d h	d h
1 5 Saturn 2.5N of Moon	11 10 Venus superior conjunction	1 1 Uranus 2.0N of Moon	18 0 LAST QUARTER
1 6 Jupiter 3.6N of Moon	12 22 FULL MOON	4 3 FIRST QUARTER	20 9 Mars 3.8S of Moon
1 18 Pluto at opposition	18 6 Moon furthest South (-21.7)	4 13 Pluto at conjunction	21 13 Solstice
2 7 Venus 3.4N of Moon	18 12 Moon at apogee	9 17 Saturn 1.7N of Moon	24 5 Venus 1.2S of Uranus
2 8 Aldebaran 1.8S of Moon	20 7 Neptune 1.2N of Moon	10 3 Mercury 4.5N of Antares	25 17 Mercury 2.6S of Moon
2 11 Venus 5.2N of Aldebaran	21 1 Solstice	10 8 Jupiter 2.5N of Moon	25 17 NEW MOON Eclipse
2 12 NEW MOON	21 12 Uranus 1.5N of Moon	10 16 Aldebaran 2.4S of Moon	25 19 Mercury superior conjunction
3 2 Mars 3.6N of Moon	21 19 Venus 0.3S of Mars	11 9 FULL MOON	26 9 Moon furthest South (-22.6)
3 13 Moon at perigee	22 20 Mercury stationary	12 9 Venus 2.5S of Neptune	28 8 Neptune 1.9N of Moon
3 3 Mercury 3.6N of Moon	25 0 LAST QUARTER	12 21 Moon furthest North (22.5)	28 14 Moon at apogee
4 10 Moon furthest North (21.7)	28 21 Saturn 2.4N of Moon	12 23 Moon at perigee	29 11 Uranus 2.1N of Moon
7 18 Regulus 2.4S of Moon	29 2 Jupiter 3.4N of Moon	13 6 Mars 3.4N of Spica	29 23 Venus 1.7N of Moon
9 3 FIRST QUARTER	29 18 Aldebaran 1.8S of Moon	16 3 Regulus 3.1S of Moon	
9 12 Mercury greatest elong E(24)			

Краткий астрономический календарь на 1997 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Астрономические явления 1997			
January		July	
d h	d h	d h	d h
1 1 Mars 3.0N of Moon	13 0 Mercury stationary	2 5 Aldebaran 0.6S of Moon Occn	20 5 Neptune 3.6S of Moon
2 0 Earth at perihelion	14 3 Saturn 2.3S of Moon	3 22 Moon furthest North (18.5)	20 18 Uranus 4.2S of Moon
2 1 LAST QUARTER	15 20 FIRST QUARTER	4 18 Mercury 4.8S of Pollux	21 7 Neptune at opposition
2 1 Mercury inferior conjunction	17 12 Neptune at conjunction	4 18 NEW MOON	21 14 Jupiter 3.6S of Moon
3 1 Spica 3.8S of Moon	19 5 Aldebaran 0.7S of Moon Occn	4 19 Earth at aphelion	21 23 Moon at perigee
3 15 Venus 4.5S of Moon	19 13 Jupiter at conjunction	6 23 Venus 5.0N of Moon	23 9 Uranus 1.1N of Regulus
7 21 Moon furthest South (-18.4)	20 20 Moon furthest North (18.4)	8 14 Regulus 2.4N of Moon	25 19 Saturn 0.1S of Moon Occn
8 5 Mercury 4.7S of Moon	23 15 FULL MOON	9 22 Moon at apogee	26 18 LAST QUARTER
9 4 NEW MOON	24 10 Mercury greatest elong W(25)	12 2 Mars 1.7S of Moon	26 21 Mercury 0.5S of Regulus
9 11 Jupiter 0.8S of Neptune	24 13 Uranus at conjunction	12 21 FIRST QUARTER	29 10 Aldebaran 0.4S of Moon Occn
9 17 Neptune 4.1S of Moon	25 16 Moon at apogee	12 4 Spica 4.7S of Moon	29 19 Uranus at opposition
10 4 Uranus 4.8S of Moon	25 19 Regulus 3.1N of Moon	18 9 Moon furthest South (-18.4)	31 6 Moon furthest North (18.4)
10 9 Moon at perigee	30 8 Spica 4.1S of Moon	20 3 FULL MOON	
10 16 Mercury 2.7N of Venus	31 19 LAST QUARTER		
February		August	
d h	d h	d h	d h
1 14 Venus 1.0S of Neptune	10 15 Saturn 1.9S of Moon	2 18 Saturn stationary	16 5 Pluto stationary
4 9 Moon furthest South (-18.3)	12 17 Mercury 1.0S of Jupiter	3 8 NEW MOON	16 14 Neptune 3.7S of Moon
6 1 Venus 0.3S of Jupiter	13 5 Mercury 0.9S of Uranus	3 22 Mercury greatest elong E(27)	17 1 Mercury stationary
6 2 Mercury 5.3S of Moon	14 9 FIRST QUARTER	4 1 Mars 1.6N of Spica	17 3 Uranus 4.2S of Moon
6 6 Neptune 4.0S of Moon	15 11 Aldebaran 0.6S of Moon Occn	4 21 Regulus 2.3N of Moon	17 19 Jupiter 3.9S of Moon
6 15 Jupiter 4.6S of Moon	16 2 Jupiter 0.2N of Uranus	5 19 Mercury 0.9S of Moon Occn	18 10 FULL MOON
6 16 Venus 4.5S of Moon	17 3 Moon furthest North (18.2)	6 7 Venus 1.8N of Moon	19 5 Moon at perigee
6 17 Mars stationary	21 16 Moon at apogee	6 17 Saturn 0.1S of Moon	22 4 Saturn 0.1S of Moon Occn
6 17 Uranus 4.7S of Moon	22 2 Regulus 3.0N of Moon	6 11 Spica 4.3S of Moon	25 2 LAST QUARTER
6 12 Neptune 0.2S of Uranus	22 10 FULL MOON	9 13 Jupiter at opposition	25 16 Aldebaran 0.3S of Moon Occn
7 15 NEW MOON	24 22 Mars 3.4N of Moon	9 18 Mars 3.6S of Moon	27 11 Moon furthest North (18.3)
7 20 Moon at perigee	26 14 Spica 4.2S of Moon	11 12 FIRST QUARTER	31 13 Mercury inferior conjunction
7 23 Mercury 1.3S of Neptune		14 20 Moon furthest South (-18.3)	
March		September	
d h	d h	d h	d h
2 9 LAST QUARTER	16 9 Moon furthest North (18.1)	1 4 Regulus 2.2N of Moon	14 1 Jupiter 4.1S of Moon
2 13 Mercury 0.8S of Venus	17 7 Mars at opposition	1 18 Mercury 2.6S of Moon	16 15 Moon at perigee
3 18 Moon furthest South (-18.2)	20 13 Equinox	1 23 NEW MOON Eclipse	16 18 FULL MOON Eclipse
5 18 Neptune 4.0S of Moon	20 16 Mercury 1.9N of Saturn	2 21 Moon at apogee	17 1 Mercury greatest elong W(18)
6 7 Uranus 4.6S of Moon	20 17 Mars nearest to Earth	5 14 Venus 3.1S of Moon	19 9 Saturn 0.3S of Moon Occn
6 11 Jupiter 4.3S of Moon	21 0 Moon at apogee	5 17 Spica 5.0S of Moon	21 23 Saturn 0.3S of Moon Occn
8 8 Moon at perigee	21 8 Regulus 3.0N of Moon	6 18 Venus 1.7N of Spica	22 23 Equinox
8 14 Venus 2.5S of Moon	23 10 Mars 3.8N of Moon	7 12 Mars 5.2S of Moon	23 13 LAST QUARTER
8 20 Mercury 3.0S of Moon	24 15 FULL MOON Eclipse	9 4 Mercury stationary	23 18 Moon furthest North (18.2)
9 1 NEW MOON Eclipse	25 20 Spica 4.3S of Moon	10 1 FIRST QUARTER	28 10 Regulus 2.2N of Moon
6 Pluto stationary	30 22 Saturn at conjunction	11 5 Moon furthest South (-18.3)	30 0 Moon at apogee
10 7 Saturn 1.4S of Moon	31 0 Moon furthest South (-18.2)	12 23 Neptune 3.7S of Moon	30 18 Mercury 1.1N of Moon
11 14 Mercury superior conjunction	31 12 Venus 0.9N of Saturn	13 12 Uranus 4.3S of Moon	
14 18 Aldebaran 0.5S of Moon Occn	31 19 LAST QUARTER		
16 0 FIRST QUARTER			
April		October	
d h	d h	d h	d h
2 3 Neptune 4.0S of Moon	17 15 Regulus 2.9N of Moon	1 16 NEW MOON	15 2 Moon at perigee
2 13 Venus superior conjunction	17 16 Moon at apogee	2 23 Jupiter 5.0S of Moon	15 17 Saturn 0.4S of Moon Occn
2 17 Uranus 4.6S of Moon	19 2 Mars 3.5N of Moon	7 7 Spica stationary	15 19 Mercury 2.8N of Spica
3 5 Jupiter 4.0S of Moon	22 3 Spica 4.3S of Moon	8 12 Moon furthest South (-18.3)	16 3 FULL MOON
5 16 Moon at perigee	22 6 Mercury 2.7N of Venus	9 22 Neptune stationary	17 3 Venus 1.7N of Antares
5 23 Mercury greatest elong E(19)	22 20 FULL MOON	9 12 LAST QUARTER	19 9 Aldebaran 0.4S of Moon Occn
7 0 Saturn 1.0S of Moon	25 10 Mercury inferior conjunction	10 4 Saturn at opposition	21 2 Moon furthest North (18.4)
7 11 NEW MOON	27 6 Moon furthest South (-18.3)	10 7 Neptune 3.7S of Moon	23 4 LAST QUARTER
7 13 Venus 0.6N of Moon Occn	29 6 Mars stationary	10 20 Uranus 4.2S of Moon	25 16 Regulus 2.1N of Moon
11 3 Aldebaran 0.5S of Moon	29 9 Neptune 3.9S of Moon	11 9 Jupiter 4.1S of Moon	26 12 Venus 2.1S of Mars
12 18 Moon furthest North (18.2)	30 0 Uranus 4.5S of Moon	12 16 Mars 3.4N of Antares	27 9 Moon at apogee
14 17 FIRST QUARTER	30 2 LAST QUARTER	13 21 Mercury superior conjunction	30 5 Spica 5.0S of Moon
15 7 Mercury stationary	30 19 Jupiter 3.8S of Moon	14 13 Uranus stationary	31 9 NEW MOON
May		November	
d h	d h	d h	d h
1 23 Neptune stationary	16 13 Mars 2.1N of Moon	1 10 Mercury 5.5S of Moon	14 14 FULL MOON
3 11 Moon at perigee	18 15 Venus 5.7N of Aldebaran	4 18 Moon furthest South (-18.5)	14 18 Mercury 0.5S of Moon Occn
4 15 Saturn 0.7S of Moon	19 11 Spica 4.4S of Moon	6 5 Venus greatest elong E(47)	17 10 Moon furthest North (18.5)
5 17 Mercury 1.2N of Moon	22 9 FULL MOON	6 13 Neptune 3.5S of Moon	21 23 LAST QUARTER
6 20 NEW MOON	22 23 Mercury greatest elong W(25)	7 3 Uranus 4.1S of Moon	22 0 Regulus 1.9N of Moon
7 13 Venus 4.1N of Moon	23 13 Moon furthest South (-18.4)	7 18 Jupiter 3.8S of Moon	24 2 Moon at apogee
7 18 Mercury stationary	25 9 Pluto at opposition	7 21 FIRST QUARTER	26 13 Spica 5.1S of Moon
8 13 Aldebaran 0.6S of Moon	26 15 Neptune 3.8S of Moon	12 0 Moon at perigee	27 16 Pluto at conjunction
10 3 Moon furthest North (18.3)	27 5 Uranus 4.3S of Moon	12 7 Moon at apogee	28 8 Mercury greatest elong E(22)
13 8 Uranus stationary	28 4 Jupiter 3.6S of Moon	14 10 Mercury 2.7N of Antares	30 2 NEW MOON
14 7 FIRST QUARTER	29 7 LAST QUARTER		
14 23 Regulus 2.8N of Moon	29 7 Moon at perigee		
15 10 Moon at apogee			
June		December	
d h	d h	d h	d h
1 2 Saturn 0.4S of Moon	15 19 Spica 4.5S of Moon	1 1 Uranus 2.0N of Moon	18 0 LAST QUARTER
3 13 Mercury 1.6N of Moon	20 19 FULL MOON	4 3 FIRST QUARTER	20 9 Mars 3.8S of Moon
4 22 Aldebaran 0.6S of Moon Occn	20 22 Moon furthest South (-18.5)	4 13 Pluto at conjunction	21 13 Solstice
5 7 NEW MOON	21 8 Solstice	9 17 Saturn 1.7N of Moon	24 5 Venus 1.2S of Uranus
6 15 Moon furthest North (18.5)	22 21 Neptune 3.6S of Moon	10 3 Mercury 4.5N of Antares	25 17 Mercury 2.6S of Moon
6 16 Venus 5.9N of Moon	22 12 Neptune 5.6S of Pollux	10 8 Jupiter 2.5N of Moon	25 17 NEW MOON Eclipse
10 11 Jupiter stationary	23 11 Uranus 4.2S of Moon	10 16 Aldebaran 2.4S of Moon	25 19 Mercury superior conjunction
11 7 Regulus 2.6N of Moon	24 5 Moon at perigee	11 9 FULL MOON	26 9 Moon furthest South (-22.6)
12 5 Moon at apogee			

Краткий астрономический календарь на 1998 год

(конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Астрономические явления 1998		
January	d h	d h
1	Mars 3.9S of Moon	19 22
2	Jupiter 2.6S of Moon	20 16
3	Moon at perigee	20 19
4	Earth at perihelion	21 4
5	Saturn 0.2N of Moon	25 21
6	FIRST QUARTER	25 23
7	Mercury greatest elong W(23)	27 0
9	Aldebaran 0.4S of Moon	27 16
11	Venus 4.2N of Neptune	28 5
11	Moon furthest North (18.7)	28 20
15	Regulus 1.5N of Moon	29 15
16	Venus inferior conjunction	29 20
18	Moon at apogee	30 14
February		
d h	d h	d h
1	Saturn 0.5N of Moon	22 8
2	Mercury 2.0S of Neptune	22 8
3	FIRST QUARTER	22 19
5	Aldebaran 0.2S of Moon	23 6
5	Venus stationary	23 17
7	Moon furthest North (18.6)	24 4
8	Mercury 1.3S of Uranus	24 20
10	FULL MOON	24 23
12	Regulus 1.4N of Moon	25 6
15	Moon at apogee	27 0
16	Spica 5.6S of Moon	27 19
19	LAST QUARTER	27 22
March		
d h	d h	d h
1	Saturn 0.9N of Moon	21 17
5	Aldebaran 0.2S of Moon	23 15
5	FIRST QUARTER	24 8
6	Venus 3.8N of Neptune	24 18
6	Moon furthest North (18.5)	25 6
11	Mercury 1.0N of Mars	25 11
11	Regulus 1.4N of Moon	27 15
12	Pluto stationary	27 19
13	FULL MOON	27 19
15	Moon at apogee	28 3
15	Spica 5.6S of Moon	28 6
18	Venus 3.2N of Uranus	28 21
20	Mercury greatest elong E(18)	29 1
20	Equinox	31 11
21	LAST QUARTER	31 11
April		
d h	d h	d h
1	Aldebaran 0.3S of Moon	20 0
2	Mars 1.9N of Saturn	20 19
3	Moon furthest North (18.6)	22 23
3	FIRST QUARTER	23 7
6	Mercury inferior conjunction	23 7
7	Regulus 1.3N of Moon	24 19
11	Moon at apogee	25 17
11	FULL MOON	25 18
12	Spica 5.6S of Moon	26 11
13	Moon at conjunction	26 18
17	Moon furthest South (-18.7)	28 17
19	Mercury stationary	30 13
19	LAST QUARTER	30 13
May		
d h	d h	d h
3	FIRST QUARTER	19 4
4	Neptune stationary	19 4
19	Mercury greatest elong W(27)	22 22
4	Regulus 1.2N of Moon	23 9
8	Moon at apogee	23 23
9	Spica 5.7S of Moon	24 12
11	FULL MOON	25 14
11	Mars at conjunction	25 19
12	Mercury 0.8S of Saturn	26 4
15	Moon furthest South (-18.9)	28 0
17	Neptune 2.5S of Moon	28 5
17	Uranus stationary	28 23
18	Uranus 2.7S of Moon	28 23
June		
d h	d h	d h
1	Regulus 1.0N of Moon	17 11
1	FIRST QUARTER	17 11
5	Moon at apogee	19 17
11	Mercury 0.3S of Mars	21 14
5	Spica 5.8S of Moon	21 15
5	Mercury 5.6N of Aldebaran	22 13
23	Mars 5.8N of Aldebaran	23 8
4	FULL MOON	24 8
10	Mercury superior conjunction	24 10
11	Moon furthest South (-19.0)	25 11
11	Neptune 2.4S of Moon	27 0
14	Uranus 2.6S of Moon	28 11
17	LAST QUARTER	28 11
July		
d h	d h	d h
1	FIRST QUARTER	18 17
2	Moon at apogee	19 20
2	Venus 4.0N of Aldebaran	21 11
4	Earth at aphelion	21 20
8	Moon furthest South (-19.0)	22 2
9	FULL MOON	23 13
10	Neptune 2.3S of Moon	23 20
11	Uranus 2.5S of Moon	25 14
14	Jupiter 0.8N of Moon	25 20
16	Moon at perigee	30 4
16	LAST QUARTER	30 11
17	Mercury greatest elong E(27)	31 12
17	Saturn 2.0N of Moon	31 12
August		
d h	d h	d h
3	Uranus at opposition	16 16
4	Venus 0.8S of Mars	18 3
5	Moon furthest South (-19.0)	18 19
7	Neptune 2.4S of Moon	19 18
7	Uranus 2.5S of Moon	20 12
8	FULL MOON	21 2
7	Mars 5.8S of Pollux	22 2
10	Moon at apogee	22 4
11	Moon at perigee	23 4
13	Saturn 2.0N of Moon	27 4
14	Mercury inferior conjunction	27 5
14	LAST QUARTER	30 5
16	Aldebaran 0.3S of Moon	31 10
September		
d h	d h	d h
1	Moon furthest South (-19.0)	16 3
3	Neptune 2.4S of Moon	17 11
4	Uranus 2.6S of Moon	18 10
6	FULL MOON	19 18
6	Venus 0.7N of Regulus	20 6
14	Jupiter 0.8N of Moon	23 17
7	Mercury 0.8N of Regulus	23 5
8	Moon at perigee	23 21
9	Saturn 1.9N of Moon	25 19
13	Mercury 0.3N of Venus	28 21
12	Aldebaran 0.3S of Moon	29 0
13	LAST QUARTER	30 17
14	Moon furthest North (19.0)	31 2
October		
d h	d h	d h
1	Uranus 2.5S of Moon	19 0
4	Jupiter 0.2N of Moon	20 0
5	FULL MOON	20 4
13	Moon at perigee	20 15
7	Saturn 1.7N of Moon	21 5
7	Mars 0.9N of Regulus	23 18
8	Mercury 2.2N of Spica	26 7
9	Aldebaran 0.4S of Moon	28 1
11	Neptune stationary	28 11
11	Moon furthest North (19.1)	28 19
12	LAST QUARTER	30 4
15	Regulus 0.8N of Moon	31 16
16	Mars 0.9N of Moon	31 16
November		
d h	d h	d h
3	Saturn 1.6N of Moon	19 4
10	Jupiter 0.8N of Moon	20 19
4	FULL MOON	21 10
6	Aldebaran 0.5S of Moon	22 13
7	Moon furthest North (19.3)	24 8
9	Mercury 1.9N of Antares	25 2
11	LAST QUARTER	25 19
11	Mercury greatest elong E(23)	27 0
12	Regulus 0.2N of Moon	28 0
13	Mars 0.6S of Moon	28 10
14	Jupiter stationary	30 8
17	Moon at apogee	30 17
December		
d h	d h	d h
1	Mercury 5.6N of Antares	19 20
1	Mercury inferior conjunction	20 0
2	Moon at perigee	20 9
3	Aldebaran 0.6S of Moon	21 15
3	FULL MOON	21 15
5	Moon furthest North (19.5)	22 9
9	Regulus 0.0N of Moon	25 11
10	LAST QUARTER	26 10
11	Mercury stationary	28 0
12	Mars 1.8S of Moon	30 15
14	Moon at apogee	30 17
17	Mercury 2.5S of Moon	30 23
18	NEW MOON	31 22

Краткий астрономический календарь на 1999 год

(конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Астрономические явления 1999		
January	d h	d h
1	Moon furthest North (19.6)	18 0
2	FULL MOON	18 19
3	Earth at perihelion	19 6
5	Regulus 0.1S of Moon	22 0
5	Venus 1.7S of Neptune	22 8
9	LAST QUARTER	24 7
9	Mars 2.6S of Moon	24 19
12	Moon at apogee	26 20
12	Mars 4.0N of Spica	27 6
13	Venus 0.9S of Uranus	27 15
16	Moon furthest South (-19.6)	29 8
16	Mercury 4.4S of Moon	31 16
17	NEW MOON	31 16
February		
d h	d h	d h
1	Regulus 0.2S of Moon	17 1
2	Uranus at conjunction	17 1
2	Mercury 1.4S of Uranus	18 7
4	Mercury superior conjunction	18 17
4	Mars 2.9S of Moon	20 15
10	Moon at apogee	22 4
8	LAST QUARTER	23 1
12	Moon furthest South (-19.6)	23 12
14	Neptune 1.4S of Moon	23 19
15	Uranus 1.4S of Moon	25 15
March		
d h	d h	d h
1	Regulus 0.3S of Moon	18 12
2	FULL MOON	19 18
3	Mercury greatest elong E(18)	20 0
7	Mars 2.9S of Moon	20 2
8	Moon at apogee	20 4
9	Mercury stationary	20 4
10	LAST QUARTER	21 1
12	Moon furthest South (-19.6)	22 18
12	Neptune 1.3S of Moon	22 10
14	Uranus 1.2S of Moon	24 20
15	Pluto stationary	28 16
17	NEW MOON	31 22
18	Mars stationary	31 22
April		
d h	d h	d h
1	Jupiter at conjunction	16 17
1	Mercury stationary	16 19
3	Mars 3.0S of Moon	17 5
4	Moon at apogee	19 2
7	Moon furthest South (-19.7)	21 3
9	LAST QUARTER	22 19
10	Neptune 1.1S of Moon	24 17
11	Uranus 1.0S of Moon	24 21
14	Mercury 1.1N of Moon	27 11
15	Jupiter 3.0N of Moon	29 23
16	NEW MOON	30 14
May		
d h	d h	d h
1	Mars nearest to Earth	15 14
1	Mercury 1.6S of Jupiter	16 12
2	Moon at apogee	18 11
5	Moon furthest South (-19.9)	18 14
7	Venus 4.7S of Moon	22 3
7	Neptune 0.9S of Moon	22 4
8	Uranus 0.7S of Moon	22 5
8	LAST QUARTER	25 18
13	Jupiter 3.4N of Moon	26 14
13	Mars stationary	29 8
13	Uranus 0.6N of Saturn	30 5
14	Saturn 2.7N of Moon	30 8
14	Mercury 3.3N of Moon	30 6
15	NEW MOON	31 0
June		
d h	d h	d h
1	Moon furthest South (-20.1)	15 6
3	Neptune 0.7S of Moon	17 2
2	Uranus 0.6S of Moon	18 11
5	Mars stationary	20 18
7	LAST QUARTER	21 2
10	Jupiter 3.7N of Moon	21 19
11	Saturn 2.8N of Moon	23 0
11	Venus greatest elong E(45)	25 15
12	Aldebaran 0.9S of Moon	28 21
13	Moon at perigee	28 21
13	NEW MOON	28 21
14	Moon furthest North (20.2)	29 3
July		
d h	d h	d h
1	Neptune 0.6S of Moon	14 9
2	Uranus 0.5S of Moon	15 21
6	LAST QUARTER	16 0
6	Earth at aphelion	20 9
7	Jupiter 3.8N of Moon	23 5
8	Saturn 2.9S of Moon	26 9
10	Aldebaran 0.9S of Moon	26 11
11	Moon at perigee	26 15
12	Mercury stationary	27 19
13	Venus 1.2S of Regulus	28 3
12	NEW MOON	28 6
13	NEW MOON	29 6
August		
d h	d h	d h
4	Jupiter 3.8N of Moon	15 1
4	LAST QUARTER	19 23
1	Saturn 2.9N of Moon	20 11
5	Mercury stationary	21 6
6	Aldebaran 0.8S of Moon	22 19
7	Uranus at opposition	24 14
7	Moon at perigee	25 12
8	Aldebaran 0.8S of Moon	25 12
9	Mercury 1.2S of Moon	26 23
11	NEW MOON	28 10
12	Regulus 1.0S of Moon	30 11
14	Mercury greatest elong W(19)	31 12
September		
d h	d h	d h
1	Saturn 2.7N of Moon	17 20
1	Moon at perigee	17 22
2	Aldebaran 0.8S of Moon	19 4
2	LAST QUARTER	20 21
5	Moon furthest North (20.3)	21 19
8	Mercury superior conjunction	23 11
8	Regulus 1.1S of Moon	25 10
10	Uranus stationary	27 15
9	NEW MOON	28 12
10	Mercury 1.4S of Moon	28 17
16	Moon at apogee	30 3
October		
d h	d h	d h
1	Mercury 1.8N of Spica	19 4
4	LAST QUARTER	23 10
7	Moon furthest North (20.4)	23 19
5	Venus 4.4S of Moon	24 16
5	Regulus 1.2S of Moon	24 19
7	Mars 3.1S of Regulus	24 21
9	NEW MOON	25 18
12	Neptune stationary	26 13
13	Moon at apogee	27 11
15	Mars 5.1S of Moon	29 13
16	Moon furthest South (-20.5)	31 1
17	LAST QUARTER	31 12
18	Neptune 0.5S of Moon	31 12
November		
d h	d h	d h
3	Regulus 1.4S of Moon	21 0
4	Venus 3.0S of Moon	22 2
5	Mercury stationary	23 7
6	Mars at opposition	23 21
8	Saturn at opposition	23 22
12	Moon at apogee	26 13
12	Moon furthest South (-20.7)	25 22
13	Mars 3.1S of Moon	29 2
14	Neptune 0.2S of Moon	29 9
15	Uranus 0.1S of Moon	29 23
15	Mercury inferior conjunction	30 14
16	FIRST QUARTER	30 14
December		
d h	d h	d h
2	Pluto at conjunction	17 21
3	Mercury greatest elong W(20)	18 8
3	Venus 2.9S of Moon	19 10
6	Mercury 2.7S of Moon	21 4
8	NEW MOON	21 9
8	Moon at apogee	22 7
10	Moon furthest South (-20.9)	22 11
11	Neptune 0.0N of Moon	22 17
12	Mars 0.6S of Moon	23 9
12	Uranus 0.1N of Moon	26 18
14	Mars 0.6S of Uranus	29 14
16	FIRST QUARTER	29 16

Краткий астрономический календарь на 2004 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Краткий астрономический календарь на 2001 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Table with columns for month (January to December), day (d), hour (h), and astronomical events (e.g., Mercury greatest elongation, Moon phases, planetary conjunctions).

Table with columns for month (January to December), day (d), hour (h), and astronomical events (e.g., Mars superior conjunction, Moon phases, planetary conjunctions).

Краткий астрономический календарь на 2002 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Table with columns for month, day, time (d h), and astronomical events for 2002. Includes sections for January through December, detailing planetary positions and lunar phases.

Краткий астрономический календарь на 2003 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Table with columns for month, day, time (d h), and astronomical events for 2003. Includes sections for January through December, detailing planetary positions and lunar phases.

Краткий астрономический календарь на 2008 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Краткий астрономический календарь на 2005 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Table with 4 columns: month, day, time (d h), and event description. Rows are organized by month from January to December, listing various astronomical events like planetary conjunctions, eclipses, and moon phases.

Table with 4 columns: month, day, time (d h), and event description. Rows are organized by month from January to December, listing various astronomical events like planetary conjunctions, eclipses, and moon phases.

Краткий астрономический календарь на 2006 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Астрономические явления 2006			
January		July	
d h	d h	d h	d h
1 23 Moon at perigee	21 22 Spica 0.6S of Moon	14 22 Uranus 0.4N of Moon	Occn
2 14 Neptune 3.8N of Moon	22 15 LAST QUARTER	17 19 LAST QUARTER	
4 1 Uranus 1.9N of Moon	23 17 Jupiter 4.4N of Moon	18 7 Mercury inferior conjunction	
4 6 Earth at perihelion	25 11 Antares 0.0N of Moon	22 14 Moon furthest North (28.5)	
6 19 FIRST QUARTER	26 20 Mercury superior conjunction	22 15 Mars 0.6N of Regulus	
8 19 Mars 1.3S of Moon	26 23 Moon furthest South (-28.5)	4 1 Spica 0.1N of Moon	Occn
12 12 Moon furthest North (28.4)	27 22 Saturn at opposition	5 22 Jupiter 4.8N of Moon	24 11 FULL MOON
14 0 Venus inferior conjunction	29 14 NEW MOON	19 10 Jupiter stationary	25 4 NEW MOON
14 8 Pollux 1.8N of Moon	29 17 Mercury 2.0N of Moon	8 7 Antares 0.2N of Moon	Occn
14 9 FULL MOON	30 2 Neptune 3.7N of Moon	9 18 Moon furthest South (-28.5)	27 11 Regulus 1.8S of Moon
15 15 Saturn 3.6S of Moon	30 7 Moon at perigee	11 2 FULL MOON	27 17 Mars 1.0S of Moon
17 9 Regulus 2.6S of Moon	31 13 Uranus 1.6N of Moon	13 5 Neptune 5.0N of Moon	28 14 Mercury stationary
17 19 Moon at apogee		13 18 Moon at perigee	29 12 Moon at apogee
February		August	
d h	d h	d h	d h
1 20 Mercury 1.8S of Neptune	14 16 Mercury 0.0N of Uranus	1 0 Spica 0.3N of Moon	Occn
3 7 Venus stationary	18 5 Spica 0.4S of Moon	2 8 FIRST QUARTER	21 0 Mercury 0.5N of Saturn
5 6 FIRST QUARTER	20 5 Jupiter 4.8N of Moon	2 8 Jupiter 4.6N of Moon	22 5 Venus 2.9S of Moon
5 20 Mars 2.1S of Moon	21 7 LAST QUARTER	4 17 Antares 0.4N of Moon	22 15 Saturn 2.4S of Moon
6 5 Neptune at conjunction	21 20 Antares 0.2N of Moon	6 3 Moon furthest South (-28.6)	22 22 Mercury 1.5S of Moon
6 18 Moon furthest North (28.6)	24 3 Mercury greatest elong E(18)	7 0 Mercury greatest elong W(19)	23 17 Regulus 1.8S of Moon
10 14 Pollux 1.8N of Moon	24 15 Neptune 3.5N of Moon	7 11 Saturn at conjunction	23 19 NEW MOON
11 17 Saturn 3.6S of Moon	25 10 Neptune 3.7N of Moon	9 10 FULL MOON	25 13 Mars 0.5N of Moon
13 4 FULL MOON	27 20 Moon at perigee	9 13 Neptune 2.9N of Moon	26 1 1 Moon at apogee
13 16 Regulus 2.5S of Moon	28 0 NEW MOON	10 19 Moon at perigee	26 23 Venus 0.1N of Saturn
14 0 Moon at apogee	28 2 Uranus 1.4N of Moon	11 5 Neptune at opposition	27 18 Mercury 1.2N of Regulus
		11 6 Uranus 0.3N of Moon	Occn
		16 1 LAST QUARTER	29 22 Jupiter 4.8N of Moon
		18 19 Moon furthest North (28.7)	31 22 FIRST QUARTER
March		September	
d h	d h	d h	d h
1 3 Mercury 3.3N of Moon	20 18 Equinox	1 1 Antares 0.5N of Moon	Occn
1 11 Uranus at conjunction	21 3 Antares 0.2N of Moon	1 5 Mercury superior conjunction	19 23 Regulus 1.8S of Moon
2 8 Mercury stationary	22 16 Moon furthest South (-28.7)	2 12 Moon furthest South (-28.7)	21 14 Venus 0.9N of Moon
5 0 Jupiter stationary	22 19 LAST QUARTER	5 10 Uranus at opposition	22 11 NEW MOON
6 5 Mars 2.9S of Moon	24 13 Mercury stationary	5 23 Neptune 3.0N of Moon	23 4 Equinox
6 20 FIRST QUARTER	25 9 Venus greatest elong W(47)	6 4 Venus 0.7N of Regulus	23 9 Mars 1.9N of Moon
8 0 Moon furthest North (28.7)	26 2 Neptune 5.5N of Moon	7 15 Uranus 0.4N of Moon	Occn
9 20 Pollux 1.7N of Moon	26 2 Venus 5.4N of Moon	7 15 FULL MOON	Eclipse
10 19 Saturn 3.8S of Moon	26 6 Venus 1.8N of Neptune	8 3 Moon at perigee	26 13 Jupiter 5.0N of Moon
12 2 Mercury inferior conjunction	27 16 Uranus 1.2N of Moon	14 11 LAST QUARTER	27 23 Mercury 1.1N of Spica
12 22 Regulus 2.5S of Moon	27 18 Mercury 2.0N of Moon	15 1 Moon furthest North (28.7)	28 8 Antares 0.1N of Moon
13 1 Moon at apogee	28 6 Moon at perigee	15 19 Mercury 0.2S of Mars	29 20 Moon furthest South (-28.7)
14 23 FULL MOON	29 10 NEW MOON	16 23 Pollux 2.0N of Moon	30 10 FIRST QUARTER
17 10 Spica 0.3S of Moon	Occn		
19 10 Jupiter 4.9N of Moon			
April		October	
d h	d h	d h	d h
3 19 Mars 3.5S of Moon	15 12 Jupiter 4.8N of Moon	3 8 Neptune 2.9N of Moon	22 5 Mars 3.3N of Moon
4 7 Moon furthest North (28.7)	17 8 Antares 0.2N of Moon	4 2 Uranus 0.4N of Moon	22 22 NEW MOON
5 12 FIRST QUARTER	18 9 Venus 0.2N of Uranus	6 14 Moon at perigee	22 22 Mercury 3.9S of Jupiter
5 12 Saturn stationary	18 22 Moon furthest South (-28.7)	7 3 FULL MOON	23 6 Mars at conjunction
6 3 Pollux 1.7N of Moon	21 3 LAST QUARTER	12 9 Moon furthest North (28.7)	24 5 Jupiter 5.1N of Moon
7 1 Saturn 3.8S of Moon	22 11 Neptune 3.4N of Moon	14 0 LAST QUARTER	24 6 Mercury 1.3N of Moon
8 19 Mercury greatest elong W(28)	24 3 Uranus 1.0N of Moon	14 5 Venus 0.7N of Mars	25 5 Venus 0.7N of Mars
9 4 Regulus 2.5S of Moon	24 13 Venus 0.3N of Moon	14 15 Mars 2.5N of Spica	25 13 Antares 0.4N of Moon
9 13 Moon at apogee	25 10 Moon at perigee	16 15 Saturn 1.8S of Moon	27 1 1 Moon furthest South (-28.6)
13 16 FULL MOON	26 9 Mercury 3.5S of Moon	16 23 Mercury greatest elong E(25)	27 17 Venus superior conjunction
13 17 Spica 0.3S of Moon	27 19 NEW MOON	17 6 Regulus 1.7S of Moon	28 20 Mercury stationary
		19 9 Moon at apogee	29 7 Neptune stationary
		19 13 Venus 3.2N of Spica	29 21 FIRST QUARTER
		21 19 Spica 0.4N of Moon	Occn
		22 2 Venus 3.9N of Moon	30 16 Neptune 2.7N of Jupiter
May		November	
d h	d h	d h	d h
1 16 Moon furthest North (28.6)	19 17 Neptune 3.3N of Moon	1 0 Uranus 0.3N of Moon	Occn
2 0 Moon at apogee	20 9 LAST QUARTER	3 23 Moon at perigee	20 3 Mars 4.3N of Moon
11 11 Pollux 1.8N of Moon	21 11 Uranus 0.8N of Moon	5 13 FULL MOON	20 13 Uranus stationary
4 10 Saturn 3.6S of Moon	22 15 Moon at perigee	12 17 Mercury 1.1S of Venus	22 22 NEW MOON
4 14 Jupiter at opposition	22 17 Neptune stationary	8 18 Moon furthest North (28.5)	20 23 Jupiter 5.3N of Moon
5 5 FIRST QUARTER	23 15 Mars 5.2S of Pollux	8 21 Mercury inferior conjunction	21 11 Venus 4.8N of Moon
6 12 Regulus 2.4S of Moon	24 5 Venus 3.9S of Moon	10 14 Pollux 2.2N of Moon	21 19 Antares 0.3N of Moon
7 Moon at apogee	24 5 NEW MOON	11 17 Mercury 0.8N of Mars	21 23 Jupiter at conjunction
11 0 Spica 0.2S of Moon	Occn	12 17 LAST QUARTER	22 7 Moon furthest South (-28.5)
12 13 Jupiter 4.8N of Moon	23 10 Moon furthest North (28.5)	13 2 Saturn 1.4S of Moon	25 4 Venus 4.5N of Antares
13 6 FULL MOON	30 20 Pollux 2.0N of Moon	13 13 Regulus 1.6S of Moon	25 20 Mercury greatest elong W(20)
14 14 Antares 0.1N of Moon	Occn	15 20 Venus 0.4S of Jupiter	26 22 Neptune 2.7N of Moon
16 3 Moon furthest South (-28.6)	31 22 Saturn 3.4S of Moon	15 23 Moon at apogee	28 6 FIRST QUARTER
18 19 Mercury superior conjunction		17 2 Mercury stationary	28 14 Uranus 0.2N of Moon
		18 2 Spica 0.5N of Moon	Occn
June		December	
d h	d h	d h	d h
2 20 Regulus 2.2S of Moon	18 14 LAST QUARTER	1 23 Moon at perigee	18 14 Pluto at conjunction
3 23 FIRST QUARTER	19 16 Mercury stationary	5 10 FULL MOON	19 10 Jupiter 5.5N of Moon
4 2 Moon at apogee	19 23 Mercury 5.8S of Pollux	6 3 Moon furthest North (28.4)	19 2 Mars 4.7N of Moon
7 8 Spica 0.1S of Moon	Occn	6 19 Saturn stationary	19 3 Antares 0.3N of Moon
8 16 Jupiter 4.8N of Moon	20 19 Mercury greatest elong E(25)	7 23 Pollux 2.4N of Moon	19 17 Mercury 4.7N of Moon
10 22 Antares 0.1N of Moon	22 8 Moon furthest North (28.4)	10 2 Mercury 1.0N of Mars	20 2 Mars 4.4N of Antares
11 18 FULL MOON	25 16 NEW MOON	10 11 Saturn 1.1S of Moon	Occn
12 10 Moon furthest South (-28.5)	27 4 Pollux 2.1N of Moon	10 16 Mercury 0.1N of Jupiter	20 13 NEW MOON
15 22 Neptune 3.1N of Moon	27 15 Saturn 5.0S of Moon	10 21 Regulus 1.3S of Moon	21 16 Venus 3.5N of Moon
16 17 Moon at perigee	28 12 Mercury 3.0S of Moon	11 16 Mars 0.8S of Jupiter	22 0 Solstice
16 17 Pluto at opposition	28 22 Mars 2.2S of Moon	12 14 LAST QUARTER	24 4 Neptune 2.4N of Moon
17 16 Uranus 0.6N of Moon	Occn	13 19 Moon at apogee	24 11 Uranus 0.0N of Moon
18 Mars 0.6N of Saturn		14 19 Mercury 4.9N of Antares	24 14 FIRST QUARTER
		15 10 Spica 0.7N of Moon	27 2 Moon at perigee

Краткий астрономический календарь на 2007 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Астрономические явления 2007			
January		July	
d h	d h	d h	d h
2 11 Moon furthest North (28.4)	16 21 Moon furthest South (-28.4)	1 16 Venus 0.7S of Saturn	17 9 Regulus 0.3S of Moon
3 14 FULL MOON	17 2 Mars 4.5N of Moon	3 20 Neptune 1.2N of Moon	17 11 Venus 1.2N of Moon
3 20 Earth at perihelion	19 2 Venus 1.3S of Neptune	5 19 Uranus 1.7S of Moon	18 15 Mercury greatest elong W(20)
4 9 Pollux 2.6N of Moon	19 3 NEW MOON	6 19 Earth at aphelion	21 20 Spica 1.7N of Moon
6 18 Saturn 0.9S of Moon	Occn	7 16 LAST QUARTER	22 6 FIRST QUARTER
7 5 Mercury superior conjunction	20 13 Neptune 1.2N of Moon	9 11 Mars 5.9S of Moon	22 8 Moon at apogee
7 6 Regulus 1.1S of Moon	Occn	9 21 Moon at perigee	25 12 Venus stationary
9 6 Jupiter 5.3N of Antares	22 5 Uranus 0.3S of Moon	10 11 Mercury stationary	25 15 Antares 0.6N of Moon
10 16 Moon at apogee	22 12 Moon at perigee	12 16 Moon furthest North (28.2)	25 16 Jupiter 5.7N of Moon
11 12 LAST QUARTER	25 23 FIRST QUARTER	14 12 NEW MOON	26 23 Moon furthest South (-28.3)
15 12 Antares 0.5N of Moon	Occn	14 14 Pollux 3.1N of Moon	30 0 FULL MOON
15 15 Jupiter 5.7N of Moon	Occn	14 17 Venus 1.8S of Regulus	31 2 Neptune 1.2N of Moon
		16 22 Saturn 0.0N of Moon	Occn
February		August	
d h	d h	d h	d h
2 5 FULL MOON	13 14 Mercury stationary	2 0 Uranus 1.7S of Moon	18 14 Mercury 0.4N of Saturn
2 23 Saturn 0.8S of Moon	Occn	4 0 Moon at apogee	19 2 Moon at perigee
3 14 Regulus 1.0S of Moon	Occn	5 21 LAST QUARTER	19 12 Mercury 1.2N of Regulus
7 12 Moon at apogee	17 16 NEW MOON	7 6 Jupiter stationary	20 23 FIRST QUARTER
7 14 Mercury greatest elong E(18)	18 8 Mercury 3.9N of Moon	8 23 Moon furthest North (28.3)	21 23 Saturn at conjunction
7 18 Venus 0.7S of Uranus	Occn	10 22 Pollux 3.2N of Moon	22 0 Antares 0.7N of Moon
8 2 Spica 1.1N of Moon	Occn	12 16 Mercury 0.1S of Moon	Occn
8 15 Neptune at conjunction	19 15 Venus 2.1S of Moon	12 19 NEW MOON	22 22 Mercury 1.7N of Moon
9 10 LAST QUARTER	23 4 Mercury inferior conjunction	13 13 Saturn 0.4S of Moon	Occn
10 18 Saturn at opposition	24 8 FIRST QUARTER	13 17 Regulus 0.2S of Moon	Occn
11 22 Antares 0.6N of Moon	Occn	13 18 Neptune at opposition	28 10 FULL MOON
12 9 Jupiter 5.9N of Moon	25 23 Moon furthest North (28.6)	15 20 Mercury superior conjunction	29 7 Uranus 1.7S of Moon
13 6 Moon furthest South (-28.5)	27 22 Pollux 2.5N of Moon	18 3 Venus inferior conjunction	31 0 Moon at perigee
March		September	
d h	d h	d h	d h
2 2 Saturn 0.9S of Moon	Occn	2 2 Saturn 0.6N of Regulus	15 20 Moon at apogee
2 21 Regulus 1.0S of Moon	Occn	4 2 LAST QUARTER	18 8 Antares 0.7N of Moon
3 23 FULL MOON	Eclipse	4 13 Mars 5.8S of Moon	18 13 Jupiter 5.6N of Moon
5 15 Uranus at conjunction	21 0 Equinox	5 4 Moon furthest North (28.4)	19 16 FIRST QUARTER
7 3 Moon at apogee	21 12 Venus 3.6S of Moon	6 4 Pollux 3.1N of Moon	19 16 Moon furthest South (-28.4)
7 9 Spica 1.1N of Moon	Occn	7 14 Venus stationary	22 10 Mercury 1.1N of Spica
7 11 Mercury stationary	25 6 Moon furthest North (28.6)	7 17 Pluto stationary	23 9 Equinox
11 5 Antares 0.7N of Moon	Occn	9 18 Uranus at opposition	23 19 Neptune 1.2N of Moon
12 3 LAST QUARTER	25 18 FIRST QUARTER	1 1 Regulus 0.2S of Moon	Occn
12 12 Moon furthest South (-28.6)	27 4 Pollux 2.5N of Moon	10 3 Saturn 0.8N of Moon	Occn
16 2 Mars 1.6N of Moon	29 4 Saturn 1.0S of Moon	11 12 NEW MOON	Eclipse
16 14 Neptune 1.9N of Moon	Occn	13 13 Mercury 2.2N of Moon	28 2 Moon at perigee
17 4 Mercury 1.1N of Moon	Occn	14 11 Spica 1.7N of Moon	29 11 Mercury greatest elong E(26)
April		October	
d h	d h	d h	d h
1 17 Mercury 1.5S of Uranus	17 5 Moon at perigee	2 10 Moon furthest North (28.3)	16 20 Jupiter 5.3N of Moon
2 17 FULL MOON	17 11 NEW MOON	2 19 Mars 4.7S of Moon	16 23 Moon furthest South (-28.2)
3 8 Moon at apogee	20 1 Saturn stationary	3 10 LAST QUARTER	19 8 FIRST QUARTER
3 16 Spica 1.1N of Moon	Occn	4 10 Pollux 3.1N of Moon	21 4 Neptune 1.1N of Moon
6 1 Jupiter stationary	21 14 Moon furthest North (28.5)	7 5 Venus 3.1S of Moon	23 1 Uranus 1.7S of Moon
7 12 Antares 0.6N of Moon	Occn	7 23 Mercury inferior conjunction	23 23 Mercury inferior conjunction
8 7 Jupiter 5.9N of Moon	24 6 FIRST QUARTER	7 15 Saturn 1.2N of Moon	26 4 FULL MOON
8 22 Moon furthest South (-28.5)	25 10 Saturn 1.0S of Moon	8 4 Venus 2.8S of Regulus	26 12 Moon at perigee
11 18 LAST QUARTER	26 9 Regulus 0.8S of Moon	11 5 NEW MOON	28 17 Venus greatest elong W(46)
13 1 Neptune 1.8N of Moon	29 4 Mars 0.7S of Uranus	12 3 Mercury stationary	30 19 Moon furthest North (28.1)
14 1 Mars 0.6S of Moon	Occn	13 0 Mercury 1.2N of Moon	31 2 Mercury 3.2N of Spica
14 19 Uranus 1.0S of Moon	Occn	13 10 Moon at apogee	31 17 Pollux 3.3N of Moon
16 7 Mercury 4.4S of Moon	Occn	14 3 Venus 2.9S of Saturn	31 19 Neptune stationary
		15 14 Antares 0.3N of Moon	Occn
May		November	
d h	d h	d h	d h
2 10 FULL MOON	17 23 Mercury 3.0S of Moon	1 13 Mercury stationary	15 15 Mars stationary
3 13 Antares superior conjunction	18 23 Moon furthest North (28.3)	1 21 LAST QUARTER	17 11 Neptune 0.9N of Moon
4 18 Antares 0.5N of Moon	Occn	3 12 Regulus 0.1N of Moon	Occn
20 10 Jupiter 5.7N of Moon	20 1 Venus 1.7S of Moon	5 17 Moon at apogee	17 20 Mercury 1.2S of Moon
6 4 Moon furthest South (-28.4)	22 19 Saturn 0.7S of Moon	4 1 Saturn 1.7N of Moon	24 0 Moon at perigee
10 4 LAST QUARTER	22 16 Regulus 0.6S of Moon	5 17 Venus 2.8N of Moon	24 14 FULL MOON
10 9 Neptune 1.6N of Moon	Occn	8 0 Spica 1.8N of Moon	24 18 Uranus stationary
12 6 Uranus 1.2S of Moon	Occn	9 5 Mercury greatest elong W(19)	26 4 Moon furthest North (28.0)
12 22 Mars 2.8S of Moon	27 22 Moon at apogee	10 15 Moon at apogee	27 5 Mercury 3.7S of Moon
15 14 Moon at perigee	30 2 Spica 1.8N of Moon	9 23 NEW MOON	31 1 Pollux 3.3N of Moon
16 19 NEW MOON	30 2 Venus 4.0S of Pollux	11 20 Antares 0.4N of Moon	Occn
		12 21 Jupiter 5.0N of Moon	30 19 Regulus 0.3N of Moon
		13 4 Moon furthest South (-28.0)	Occn
June		December	
d h	d h	d h	d h
1 0 Antares 0.4N of Moon	Occn	1 11 Saturn 2.1N of Moon	20 12 Saturn stationary
1 1 FULL MOON	18 15 Venus 0.6S of Moon	1 12 LAST QUARTER	20 21 Mercury 1.8S of Jupiter
1 11 Jupiter 5.7N of Moon	19 6 Pluto at opposition	5 6 Spica 2.0N of Moon	21 0 Pluto at conjunction
2 8 Mercury greatest elong E(23)	19 8 Saturn 0.4S of Moon	6 17 Solstice	22 6 Solstice
5 23 Jupiter at opposition	21 8 Regulus 0.4S of Moon	7 19 Mercury 4.2N of Antares	22 9 Moon at perigee
6 15 Neptune 1.4N of Moon	22 13 FIRST QUARTER	9 2 Antares 0.4N of Moon	Occn
8 11 LAST QUARTER	23 22 Uranus stationary	9 7 Mercury 4.3N of Moon	23 15 Jupiter at conjunction
8 13 Uranus 1.5S of Moon	24 12 Spica 1.5N of Moon	10 23 Venus 2.9S of Saturn	23 24 Moon furthest North (27.9)
9 1 Venus greatest elong E(45)	24 14 Moon at apogee	11 19 NEW MOON	24 1 FULL MOON
10 1 Mars 4.7S of Moon	28 12 Antares 0.4N of Moon	12 10 Jupiter 4.8N of Moon	24 2 Mars 0.9S of Moon
12 16 Moon at perigee	28 12 Jupiter 5.6N of Moon	14 18 Neptune 0.7N of Moon	Occn
15 3 NEW MOON	28 18 Mercury inferior conjunction	16 4 Regulus 0.5N of Moon	25 12 Pollux 3.7N of Moon
18 8 Moon furthest North (28.2)	29 15 Moon furthest South (-28.2)	16 16 Uranus 2.1S of Moon	28 4 Regulus 0.5N of Moon
15 16 Mercury stationary	30 13 FULL MOON	17 10 FIRST QUARTER	28 20 Saturn 2.5N of Moon
16 9 Mercury 5.6S of Moon		17 15 Mercury superior conjunction	31 7 LAST QUARTER
		18 23 Mars nearest to Earth	

Краткий астрономический календарь на 2012 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Краткий астрономический календарь на 2009 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Table with columns for month (January to December), day (d), hour (h), and astronomical events (e.g., Mercury greatest elongation, Moon at perigee, eclipses).

Table with columns for month (July to December), day (d), hour (h), and astronomical events (e.g., Venus 3.8S of Moon, Mars 0.8N of Moon, eclipses).

Table with columns for month (January to December), day (d), hour (h), and astronomical events (e.g., Saturn stationary, Mercury 3.2N of Jupiter, eclipses).

Table with columns for month (July to December), day (d), hour (h), and astronomical events (e.g., Uranus stationary, Earth at aphelion, eclipses).

Краткий астрономический календарь на 2010 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Краткий астрономический календарь на 2011 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Table with astronomical data for 2010, organized by month (January to June) and day. Columns include date (d), hour (h), and event description (e.g., Moon at perigee, Antares 1.5S of Moon, etc.).

Table with astronomical data for 2011, organized by month (January to June) and day. Columns include date (d), hour (h), and event description (e.g., Moon at perigee, Antares 2.6S of Moon, etc.).

Краткий астрономический календарь на 2020 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Краткий астрономический календарь на 2017 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Table with astronomical data for 2020, organized by month (January to December). Each month section includes columns for day (d), hour (h), and event description. Events include planetary conjunctions, oppositions, and stationarities.

Table with astronomical data for 2017, organized by month (January to December). Each month section includes columns for day (d), hour (h), and event description. Events include planetary conjunctions, oppositions, and stationarities.

Краткий астрономический календарь на 2018 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Астрономические явления 2018		
January	d h	
1	21	Moon at perigee
1	23	Moon furthest North (20.1)
2	2	FULL MOON
2	2	Mercury greatest elong W(23)
2	20	Uranus stationary
6	6	Earth at aphelion
5	8	Regulus 0.8S of Moon Occn
7	0	Mars 0.2S of Jupiter
8	22	LAST QUARTER
9	7	Venus superior conjunction
9	9	Venus 1.2S of Pluto
11	8	Jupiter 4.1S of Moon
11	12	Mars 4.4S of Moon
13	6	Mercury 0.6S of Saturn
February		
d h	d h	
1	19	Regulus 0.9S of Moon Occn
1	15	LAST QUARTER
7	21	Jupiter 4.1S of Moon
9	6	Mars 4.3S of Moon
11	14	Moon at apogee
11	14	Saturn 2.4S of Moon
11	22	Mars 5.1N of Antares
11	23	Moon furthest South (-20.1)
12	19	Pluto 1.8S of Moon
15	18	Mercury 1.1S of Moon Occn
15	21	NEW MOON Eclipse
March		
d h	d h	
1	6	Regulus 0.9S of Moon Occn
2	0	FULL MOON
4	13	Neptune at conjunction
4	20	Mercury 1.1N of Venus
8	8	Jupiter 3.8S of Moon
9	9	Jupiter stationary
9	11	LAST QUARTER
10	0	Mars 3.8S of Moon
11	2	Saturn 2.2S of Moon
11	6	Moon furthest South (-20.1)
11	9	Moon at apogee
12	4	Pluto 1.7S of Moon
15	13	Mercury greatest elong E(18)
16	13	Neptune 1.7N of Moon
April		
d h	d h	
1	17	Mercury inferior conjunction
2	15	Mars 1.3S of Saturn
3	16	Jupiter 3.7S of Moon
7	12	Saturn 1.4S of Moon
7	14	Moon furthest South (-20.3)
7	17	Mars 3.1S of Moon
8	6	Moon at apogee
8	7	LAST QUARTER
8	13	Pluto 1.5S of Moon
13	0	Neptune 1.3N of Moon
14	4	Mercury stationary
14	12	Mercury 3.6N of Moon
16	1	NEW MOON
16	5	Uranus 4.3N of Moon
May		
d h	d h	
4	20	Saturn 1.7S of Moon
4	22	Moon furthest South (-20.5)
6	20	Pluto 1.4S of Moon
6	0	Moon at apogee
6	6	Mars 2.8S of Moon
8	2	LAST QUARTER
9	0	Jupiter at opposition
10	10	Neptune 2.1N of Moon
13	10	Mercury 2.2S of Uranus
13	18	Mercury 2.3N of Moon
June		
d h	d h	
1	0	Saturn 1.7S of Moon
1	6	Moon furthest South (-20.7)
2	3	Pluto 1.2S of Moon
2	16	Moon at apogee
3	10	Mars 3.2S of Moon
3	15	Mercury 5.8N of Aldebaran
6	2	Mercury superior conjunction
6	18	LAST QUARTER
6	19	Neptune 2.3N of Moon
8	8	Uranus 4.7S of Pollux
10	6	Uranus 4.6N of Moon
12	23	Aldebaran 1.2S of Moon Occn
13	19	NEW MOON
14	12	Mercury 4.3N of Moon
14	23	Moon at perigee
15	0	Moon furthest North (20.7)
July		
d h	d h	
4	2	Neptune 2.4N of Moon
6	7	LAST QUARTER
6	14	Earth at aphelion
7	16	Uranus 4.7N of Moon
10	4	Venus 1.0N of Regulus
10	9	Aldebaran 1.2S of Moon Occn
11	3	Jupiter stationary
12	3	Mercury greatest elong E(26)
12	9	Pluto at opposition
12	11	Moon furthest North (20.8)
12	13	NEW MOON Eclipse
13	8	Moon at perigee
14	23	Mercury 2.1S of Moon
August		
d h	d h	
4	0	Uranus 4.7N of Moon
4	18	LAST QUARTER
6	18	Aldebaran 1.2S of Moon Occn
7	20	Uranus stationary
8	22	Moon furthest North (20.8)
9	2	Mercury inferior conjunction
10	18	Moon at perigee
11	4	Mercury 5.3S of Moon
11	9	NEW MOON Eclipse
12	4	Regulus 1.6S of Moon
14	18	Venus 5.8S of Moon
17	13	Jupiter 4.3S of Moon
September		
d h	d h	
1	17	Venus 1.2S of Spica
3	1	Aldebaran 1.2S of Moon Occn
3	2	LAST QUARTER
5	6	Moon furthest North (20.9)
6	3	Mercury 1.0N of Regulus
6	10	Saturn stationary
7	18	Neptune at opposition
8	1	Moon at perigee
8	14	Regulus 1.7S of Moon
8	22	Mercury 0.9S of Moon Occn
9	18	NEW MOON
14	4	Jupiter 4.2S of Moon
16	23	FIRST QUARTER
October		
d h	d h	
2	9	LAST QUARTER
2	13	Moon furthest North (21.1)
5	3	Venus stationary
5	22	Moon at perigee
5	23	Regulus 1.9S of Moon
6	7	Mercury 2.0N of Spica
3	9	NEW MOON
10	4	Mercury 5.5S of Moon
11	23	Jupiter 3.9S of Moon
15	2	Saturn 1.8S of Moon
15	17	Moon furthest South (-21.2)
16	8	Pluto 1.1S of Moon Occn
16	18	FIRST QUARTER
November		
d h	d h	
2	5	Regulus 2.0S of Moon
11	6	Mercury greatest elong E(23)
11	7	NEW MOON
8	19	Jupiter 3.6S of Moon
9	16	Mercury 1.8N of Antares
11	15	Saturn 1.5S of Moon
12	2	Moon furthest South (-21.4)
12	17	Pluto 0.9S of Moon Occn
14	3	Venus stationary
14	15	Moon at apogee
15	14	FIRST QUARTER
16	4	Mars 0.9N of Moon Occn
17	0	Mercury stationary
December		
d h	d h	
3	21	Venus 3.4S of Moon
5	22	Mercury 1.8S of Moon
6	14	Jupiter 3.3S of Moon
7	0	Mercury stationary
7	7	NEW MOON
7	14	Mars 0.0N of Neptune
9	5	Saturn 1.1S of Moon Occn
9	10	Moon furthest South (-21.5)
10	3	Pluto 0.8S of Moon Occn
12	12	Moon at apogee
14	16	Mercury 2.8N of Moon
15	2	Mars 3.3N of Moon
January		
d h	d h	
1	15	Venus greatest elong E(46)
1	18	FIRST QUARTER
18	10	Mercury stationary
21	3	Saturn 2.1S of Moon
22	2	Moon furthest South (-20.8)
22	18	Pluto 1.3S of Moon
22	11	Moon at perigee
25	11	FULL MOON
26	21	Mercury greatest elong W(18)
27	12	Neptune 2.3N of Moon
28	10	Mars stationary
31	5	Uranus 4.6N of Moon
February		
d h	d h	
0	2	Moon furthest South (-21.6)
2	6	Saturn 0.5S of Moon Occn
2	20	Pluto 0.6S of Moon
2	21	NEW MOON
5	9	Mercury 0.2N of Moon Occn
5	9	Moon at apogee
7	8	Neptune 2.9N of Moon
10	20	Mars 5.7N of Moon
10	23	Uranus 4.7N of Moon
12	22	FIRST QUARTER
13	6	Mars 1.0N of Uranus
March		
d h	d h	
1	6	Moon furthest South (-21.7)
1	18	Saturn 0.2S of Moon Occn
2	3	Pluto 0.4S of Moon
2	22	Venus 1.3N of Moon
4	11	Moon at apogee
5	6	Mercury stationary
6	16	Neptune 3.0N of Moon
6	16	NEW MOON
7	1	Neptune at conjunction
11	15	Mars 5.3N of Moon
13	10	Aldebaran 1.9S of Moon
14	10	FIRST QUARTER
April		
d h	d h	
0	1	Moon at apogee
2	2	Mercury 0.8N of Neptune
2	6	Venus 2.6N of Moon
3	1	Mercury 3.4N of Moon
3	1	Neptune 3.1N of Moon
3	8	NEW MOON
6	16	Uranus 4.4N of Moon
9	15	Aldebaran 2.1S of Moon
10	6	Venus 0.3S of Neptune
10	17	Jupiter stationary
11	22	Mercury greatest elong W(28)
12	0	Moon furthest North (22.0)
12	19	FIRST QUARTER
May		
d h	d h	
2	14	Venus 3.3N of Moon
3	8	Mercury 2.7N of Moon
4	2	Uranus 4.4N of Moon
4	22	NEW MOON
6	21	Aldebaran 2.2S of Moon
7	23	Mars 3.3N of Moon
8	14	Mercury 1.0S of Uranus
9	5	Moon furthest North (22.2)
12	1	FIRST QUARTER
12	16	Regulus 2.9S of Moon
13	21	Moon at perigee
June		
d h	d h	
1	19	Venus 3.0N of Moon
3	5	Aldebaran 2.3S of Moon
3	9	NEW MOON
4	15	Mercury 3.6N of Moon
5	12	Moon furthest North (22.3)
5	14	Mars 1.6N of Moon
7	23	Moon at perigee
8	21	Regulus 3.0S of Moon
10	5	FIRST QUARTER
11	15	Jupiter at opposition
16	19	Jupiter 1.9S of Moon
17	7	Uranus 4.7N of Aldebaran
17	8	FULL MOON
18	15	Moon furthest South (-22.4)

Краткий астрономический календарь на 2019 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Астрономические явления 2019		
January	d h	
1	22	Venus 1.2S of Moon
2	5	Saturn at conjunction
3	3	Earth at perihelion
3	8	Jupiter 3.0S of Moon
4	17	Mercury 2.5S of Moon
5	18	Moon furthest South (-21.6)
5	18	Saturn 0.8S of Moon Occn
6	6	Venus greatest elong W(47)
6	12	Pluto 0.6S of Moon
7	2	Uranus stationary
9	3	Moon at apogee
11	0	Neptune 2.9N of Moon
11	11	Pluto at conjunction
13	0	Mars 5.0N of Moon
February		
d h	d h	
2	0	Moon furthest South (-21.6)
2	6	Saturn 0.5S of Moon Occn
2	20	Pluto 0.6S of Moon
2	21	NEW MOON
5	9	Mercury 0.2N of Moon Occn
5	9	Moon at apogee
7	8	Neptune 2.9N of Moon
10	20	Mars 5.7N of Moon
10	23	Uranus 4.7N of Moon
12	22	FIRST QUARTER
13	6	Mars 1.0N of Uranus
March		
d h	d h	
1	6	Moon furthest South (-21.7)
1	18	Saturn 0.2S of Moon Occn
2	3	Pluto 0.4S of Moon
2	22	Venus 1.3N of Moon
4	11	Moon at apogee
5	6	Mercury stationary
6	16	Neptune 3.0N of Moon
6	16	NEW MOON
7	1	Neptune at conjunction
11	15	Mars 5.3N of Moon
13	10	Aldebaran 1.9S of Moon
14	10	FIRST QUARTER
April		
d h	d h	
0	1	Moon at apogee
2	2	Mercury 0.8N of Neptune
2	6	Venus 2.6N of Moon
3	1	Mercury 3.4N of Moon
3	1	Neptune 3.1N of Moon
3	8	NEW MOON
6	16	Uranus 4.4N of Moon
9	15	Aldebaran 2.1S of Moon
10	6	Venus 0.3S of Neptune
10	17	Jupiter stationary
11	22	Mercury greatest elong W(28)
12	0	Moon furthest North (22.0)
12	19	FIRST QUARTER
May		
d h	d h	
2	14	Venus 3.3N of Moon
3	8	Mercury 2.7N of Moon
4	2	Uranus 4.4N of Moon
4	22	NEW MOON
6	21	Aldebaran 2.2S of Moon
7	23	Mars 3.3N of Moon
8	14	Mercury 1.0S of Uranus
9	5	Moon furthest North (22.2)
12	1	FIRST QUARTER
12	16	Regulus 2.9S of Moon
13	21	Moon at perigee
June		
d h	d h	
1	19	Venus 3.0N of Moon
3	5	Aldebaran 2.3S of Moon
3	9	NEW MOON
4	15	Mercury 3.6N of Moon
5	12	Moon furthest North (22.3)
5	14	Mars 1.6N of Moon
7	23	Moon at perigee
8	21	Regulus 3.0S of Moon
10	5	FIRST QUARTER
11	15	Jupiter at opposition
16	19	Jupiter 1.9S of Moon
17	7	Uranus 4.7N of Aldebaran
17	8	FULL MOON
18	15	Moon furthest South (-22.4)

July	d h	
1	21	Venus 1.6N of Moon
1	19	NEW MOON Eclipse
2	21	Moon furthest North (22.4)
4	5	Mars 0.1S of Moon Occn
4	9	Mercury 3.2S of Moon
5	0	Earth at aphelion
5	5	Moon at perigee
6	4	Regulus 3.0S of Moon
7	4	Mercury stationary
8	19	Mercury 4.0S of Mars
9	10	FIRST QUARTER
9	17	Saturn at opposition
13	20	Jupiter 2.3S of Moon
14	14	Pluto at opposition
15	22	Moon furthest South (-22.4)
August		
d h	d h	
1	3	NEW MOON
1	20	Mars 1.6S of Moon
2	7	Moon at perigee
2	13	Regulus 3.0S of Moon
17	17	FIRST QUARTER
19	24	Aldebaran 2.4S of Moon
23	10	Mercury 2.4S of Moon
24	17	Moon furthest North (22.6)
11	16	Jupiter stationary
12	7	Moon furthest South (-22.5)
12	5	Uranus stationary
12	9	Saturn 0.1N of Moon Occn
12	22	Pluto 0.0N of Moon
14	6	Venus superior conjunction
15	15	FULL MOON
17	10	Moon at apogee
17	16	Neptune 3.4N of Moon
September		
d h	d h	
2	10	Mars at conjunction
3	16	Mercury 0.6N of Mars
4	2	Mercury superior conjunction
6	3	FIRST QUARTER
6	10	Moon furthest South (-22.6)
8	13	Saturn 0.1N of Moon Occn
9	3	Pluto 0.0N of Moon Occn
10	7	Neptune at opposition
13	13	Moon at apogee
13	15	Mercury 0.3S of Venus
13	20	Neptune 3.4N of Moon
14	4	FULL MOON
17	22	Uranus 4.2N of Moon
October		
d h	d h	
2	21	Pluto stationary
3	20	Jupiter 1.9S of Moon
3	21	Venus 2.5S of Spica
5	16	FIRST QUARTER
5	17	Mercury 3.4S of Moon
5	17	Moon furthest South (-22.8)
5	20	Saturn 0.3N of Moon Occn
6	9	Pluto 0.2N of Moon Occn
10	18	Moon at apogee
11	1	Neptune 3.8N of Moon
13	21	FULL MOON
13	21	Mercury 2.6S of Venus
17	21	Aldebaran 2.8S of Moon
19	21	Mercury greatest elong E(25)
November		

Краткий астрономический календарь на 2024 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Краткий астрономический календарь на 2021 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Table with astronomical data for 2024. Columns include month (January to June), day (d), hour (h), and event description (e.g., Moon at apogee, Mars 3.8S of Moon, Jupiter 4.3S of Moon).

Table with astronomical data for 2021. Columns include month (January to December), day (d), hour (h), and event description (e.g., LAST QUARTER, Moon at apogee, Venus 0.4S of Neptune).

Краткий астрономический календарь на 2022 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Краткий астрономический календарь на 2023 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Table with columns for month, day, time, and astronomical event. Months include January, February, March, April, May, June, July, August, September, October, November, and December. Events include planetary conjunctions, oppositions, and stationaries.

Table with columns for month, day, time, and astronomical event. Months include January, February, March, April, May, June, July, August, September, October, November, and December. Events include planetary conjunctions, oppositions, and stationaries.

Краткий астрономический календарь на 2028 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Краткий астрономический календарь на 2025 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Table with astronomical data for 2028. Columns: d h, January, February, March, April, May, June, July, August, September, October, November, December. Rows list celestial events like Mercury greatest elongation, Moon at apogee/perigee, and planetary conjunctions.

Table with astronomical data for 2025. Columns: d h, January, February, March, April, May, June, July, August, September, October, November, December. Rows list celestial events like Mercury greatest elongation, Moon at apogee/perigee, and planetary conjunctions.

Краткий астрономический календарь на 2026 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Table with columns for month, day, time (d, h), and astronomical event. Includes sections for January through June.

Краткий астрономический календарь на 2027 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Table with columns for month, day, time (d, h), and astronomical event. Includes sections for January through December.

Краткий астрономический календарь на 2032 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Краткий астрономический календарь на 2029 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Table with astronomical data for 2032. Columns include month (January to December), day (d), hour (h), and event description (e.g., Jupiter at conjunction, Moon furthest South).

Table with astronomical data for 2029. Columns include month (January to December), day (d), hour (h), and event description (e.g., Earth at perihelion, Mars at opposition, Moon furthest North).

Краткий астрономический календарь на 2030 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Краткий астрономический календарь на 2031 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Table with columns for month (January to December), day (d), hour (h), and astronomical events for the year 2030. Includes events like Moon at perigee, Mercury greatest elongation, and various planetary conjunctions.

Table with columns for month (January to December), day (d), hour (h), and astronomical events for the year 2031. Includes events like Mars 3.8N of Spica, Jupiter stationary, and various planetary conjunctions.

Краткий астрономический календарь на 2036 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Краткий астрономический календарь на 2033 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Астрономические явления 2036			July		
January			August		
d h	d h	d h	d h	d h	d h
1 21 Venus 2.8S of Moon	12 11 Moon furthest North (19.3)	2 22 Mercury superior conjunction	2 0 Moon furthest North (19.9)	4 3 Moon furthest South (-19.9)	18 10 Moon furthest North (19.9)
2 21 Neptune stationary	12 19 Uranus 4.0N of Moon	4 0 Earth at aphelion	22 10 Uranus 3.0N of Moon	6 7 Mars 0.6N of Regulus	18 11 Venus 0.3N of Moon Occn
3 20 Uranus at opposition	13 8 Moon at perigee	4 13 Mercury 1.1N of Uranus	22 11 Mercury 0.3N of Saturn	6 20 Moon at apogee	18 23 Uranus 2.9N of Moon
5 12 Earth at perihelion	13 11 FULL MOON	6 19 Uranus at conjunction	22 10 NEW MOON Eclipse	7 2 FULL MOON	21 4 Moon at perigee
5 15 Jupiter stationary	15 2 Saturn 1.9N of Moon	7 20 Moon furthest South (-19.9)	23 15 NEW MOON	8 10 Venus greatest elong E(46)	21 8 Saturn 0.7N of Moon Occn
6 17 FIRST QUARTER	15 22 Regulus 0.2N of Moon Occn	8 11 FULL MOON	23 16 Venus 3.5S of Jupiter	8 9 Mercury inferior conjunction	20 1 NEW MOON
6 22 Mars 4.3N of Moon	20 6 LAST QUARTER	8 14 Mercury 5.0S of Pollux	23 18 Moon at perigee	9 6 Neptune 3.1N of Moon	20 3 Mars 2.6S of Moon
7 4 Neptune 2.6N of Moon	21 11 Moon stationary	10 16 Moon at apogee	24 16 Saturn 0.8N of Moon Occn	9 6 Neptune 3.1N of Moon	20 3 Mars 2.6S of Moon
8 14 Jupiter 3.9N of Moon	25 21 Mercury stationary	14 21 Venus 1.1N of Aldebaran	24 20 Mars 0.7N of Moon Occn	12 15 Aldebaran 0.9S of Moon Occn	22 19 Equinox
10 7 Mercury inferior conjunction	26 5 Mercury stationary	16 14 LAST QUARTER	24 22 Mercury 0.5N of Moon Occn	13 10 LAST QUARTER	23 15 Mars at conjunction
10 15 Aldebaran 0.5S of Moon Occn	26 16 Moon at apogee	16 18 Neptune 3.2N of Moon	25 8 Regulus 0.7S of Moon Occn	13 10 LAST QUARTER	23 15 Mars at conjunction
12 10 Mars 2.2N of Neptune	28 10 NEW MOON	19 23 Aldebaran 0.7S of Moon Occn	25 9 Mercury 0.0N of Regulus	14 23 Saturn at conjunction	25 4 Mercury stationary
		20 2 Mars 0.1N of Saturn	30 2 FIRST QUARTER	15 1 LAST QUARTER	25 13 Venus 2.6S of Uranus
		20 6 Venus 0.4N of Moon Occn	30 17 Neptune stationary	16 8 Aldebaran 0.7S of Moon Occn	28 14 FIRST QUARTER
		20 9 Jupiter 3.9N of Moon		17 3 Jupiter 3.7N of Moon	31 10 Moon furthest South (-19.9)
February			September		
d h	d h	d h	d h	d h	d h
1 4 Venus 1.6N of Moon	10 20 Moon at perigee	1 4 Venus 1.6N of Moon	18 10 Venus 1.6S of Moon	3 0 Moon at apogee	18 5 Regulus 0.8S of Moon Occn
2 11 Mercury greatest elong W(25)	11 10 Saturn 2.0N of Moon	2 2 Venus 6.0N of Moon	18 12 Moon at perigee	5 6 Mercury 5.2S of Mars	18 12 Moon at perigee
3 11 Neptune 2.7N of Moon	11 22 FULL MOON Eclipse	3 12 Jupiter 4.3N of Moon	5 18 FULL MOON	5 8 FULL MOON	18 23 Mercury 2.6S of Moon
4 12 Mars 5.8N of Moon	12 10 Regulus 0.1N of Moon Occn	5 7 Aldebaran 0.4S of Moon Occn	20 1 Venus greatest elong E(46)	8 9 Mercury inferior conjunction	20 1 NEW MOON
5 0 Jupiter 4.2N of Moon	18 0 Mars 1.9N of Jupiter	5 16 FIRST QUARTER	20 12 Moon furthest South (-19.4)	9 6 Neptune 3.1N of Moon	20 3 Mars 2.6S of Moon
5 1 Saturn at opposition	18 23 LAST QUARTER	7 7 Moon furthest North (19.4)	21 22 Moon at apogee	9 6 Neptune 3.1N of Moon	20 3 Mars 2.6S of Moon
5 1 FIRST QUARTER	18 23 LAST QUARTER	7 11 Uranus 4.0N of Moon	23 17 Venus 4.0N of Jupiter	12 15 Aldebaran 0.9S of Moon Occn	22 19 Equinox
7 0 Aldebaran 0.4S of Moon Occn	23 3 Moon at apogee	9 17 Saturn 2.1N of Moon	27 20 NEW MOON	13 10 LAST QUARTER	23 15 Mars at conjunction
8 13 Pluto at conjunction	25 15 Mercury 2.5S of Moon	10 1 Moon at perigee	28 15 Mercury 4.1N of Moon	13 16 Jupiter 3.4N of Moon	24 14 Mercury greatest elong W(18)
8 23 Moon furthest North (19.3)	26 21 Venus 2.7N of Neptune	10 20 Regulus 0.0N of Moon Occn	29 2 Neptune 2.7N of Moon	14 18 Moon furthest North (20.0)	27 6 FIRST QUARTER
9 4 Uranus 4.0N of Moon	27 4 NEW MOON Eclipse	12 9 FULL MOON	31 3 Jupiter 4.3N of Moon	15 9 Uranus 2.7N of Moon	27 16 Moon furthest South (-20.1)
		18 15 Uranus stationary	31 14 Mercury 2.2N of Neptune	16 19 Mercury stationary	30 12 Moon at apogee
March			October		
d h	d h	d h	d h	d h	d h
1 18 Neptune 2.7N of Moon	19 7 Mercury superior conjunction	1 18 Neptune 2.7N of Moon	19 7 Mercury superior conjunction	2 6 Venus 0.0N of Regulus	16 18 Venus 1.6S of Moon
2 2 Venus 6.0N of Moon	19 18 LAST QUARTER	2 2 Venus 6.0N of Moon	19 18 LAST QUARTER	5 10 FULL MOON	16 8 Neptune at opposition
3 12 Jupiter 4.3N of Moon	20 1 Equinox	3 12 Jupiter 4.3N of Moon	20 1 Equinox	6 10 Neptune 3.0N of Moon	18 20 Mars 3.8S of Moon
5 7 Aldebaran 0.4S of Moon Occn	20 1 Venus greatest elong E(46)	5 7 Aldebaran 0.4S of Moon Occn	20 1 Venus greatest elong E(46)	9 20 Aldebaran 0.9S of Moon Occn	19 7 Mercury 3.1N of Spica
5 16 FIRST QUARTER	20 12 Moon furthest South (-19.4)	5 16 FIRST QUARTER	20 12 Moon furthest South (-19.4)	10 0 Jupiter 3.2N of Moon	19 7 Mercury 3.1N of Spica
7 7 Moon furthest North (19.4)	21 22 Moon at apogee	7 7 Moon furthest North (19.4)	21 22 Moon at apogee	12 0 Moon furthest North (20.2)	19 11 NEW MOON
7 11 Uranus 4.0N of Moon	23 17 Venus 4.0N of Jupiter	7 11 Uranus 4.0N of Moon	23 17 Venus 4.0N of Jupiter	12 17 Uranus 2.5N of Moon	20 3 Saturn 0.8N of Regulus
9 17 Saturn 2.1N of Moon	27 20 NEW MOON	9 17 Saturn 2.1N of Moon	27 20 NEW MOON	12 18 LAST QUARTER	22 11 Mercury superior conjunction
10 1 Moon at perigee	28 15 Mercury 4.1N of Moon	10 1 Moon at perigee	28 15 Mercury 4.1N of Moon	13 8 Mercury 0.8N of Mars	25 1 Moon furthest South (-20.3)
10 20 Regulus 0.0N of Moon Occn	29 2 Neptune 2.7N of Moon	10 20 Regulus 0.0N of Moon Occn	29 2 Neptune 2.7N of Moon	14 1 Jupiter stationary	25 5 Uranus stationary
12 9 FULL MOON	31 3 Jupiter 4.3N of Moon	12 9 FULL MOON	31 3 Jupiter 4.3N of Moon	15 13 Saturn 0.2S of Moon	27 1 FIRST QUARTER
18 15 Uranus stationary	31 14 Mercury 2.2N of Neptune	18 15 Uranus stationary	31 14 Mercury 2.2N of Neptune	15 14 Regulus 0.8S of Moon	28 7 Moon at apogee
				16 12 Moon at perigee	29 1 Mars 2.7N of Spica
April			November		
d h	d h	d h	d h	d h	d h
1 12 Aldebaran 0.5S of Moon Occn	16 20 Moon furthest South (-19.5)	1 12 Aldebaran 0.5S of Moon Occn	16 20 Moon furthest South (-19.5)	2 17 Neptune 3.0N of Moon	11 23 Saturn 0.5S of Moon Occn
3 13 Moon furthest North (19.4)	18 14 LAST QUARTER	3 13 Moon furthest North (19.4)	18 14 LAST QUARTER	3 12 Venus 3.0S of Moon	12 15 NEW MOON
3 17 Uranus 3.9N of Moon	18 18 Moon at apogee	3 17 Uranus 3.9N of Moon	18 18 Moon at apogee	4 0 FULL MOON	15 23 Venus 3.8S of Spica
4 0 FIRST QUARTER	23 22 Mercury stationary	4 0 FIRST QUARTER	23 22 Mercury stationary	6 2 Aldebaran 1.0S of Moon Occn	16 13 Mars 4.5S of Spica
5 22 Saturn 2.1N of Moon	25 12 Neptune 2.8N of Moon	5 22 Saturn 2.1N of Moon	25 12 Neptune 2.8N of Moon	7 4 Jupiter 3.1N of Moon	17 9 Mercury 2.4N of Antares
6 9 Moon at perigee	26 9 NEW MOON	6 9 Moon at perigee	26 9 NEW MOON	8 6 Moon furthest North (20.4)	18 0 NEW MOON
5 7 Regulus 0.1S of Moon Occn	27 21 Jupiter 4.3N of Moon	5 7 Regulus 0.1S of Moon Occn	27 21 Jupiter 4.3N of Moon	8 22 Uranus 2.4N of Moon	21 10 Moon furthest South (-20.5)
10 20 FULL MOON	28 19 Aldebaran 0.7S of Moon Occn	10 20 FULL MOON	28 19 Aldebaran 0.7S of Moon Occn	11 1 LAST QUARTER	25 3 Moon at apogee
13 0 Saturn stationary	30 2 Mars 5.4N of Moon	13 0 Saturn stationary	30 2 Mars 5.4N of Moon	11 10 Moon at perigee	29 22 FIRST QUARTER
13 15 Neptune at conjunction	30 19 Moon furthest North (19.6)	13 15 Neptune at conjunction	30 19 Moon furthest North (19.6)	11 20 Regulus 1.1S of Moon Occn	30 1 Neptune 3.1N of Moon
13 19 Mercury greatest elong E(20)		13 19 Mercury greatest elong E(20)			
May			December		
d h	d h	d h	d h	d h	d h
1 0 Uranus 3.7N of Moon	23 22 Jupiter at conjunction	1 0 Uranus 3.7N of Moon	23 22 Jupiter at conjunction	3 11 Aldebaran 1.1S of Moon Occn	15 7 Mars 4.7S of Moon
1 8 Moon at perigee	24 1 Mercury 1.4N of Moon	1 8 Moon at perigee	24 1 Mercury 1.4N of Moon	3 14 FULL MOON	15 17 Venus 3.5S of Moon
3 4 Saturn 1.9N of Moon	25 16 Jupiter 4.2N of Moon	3 4 Saturn 1.9N of Moon	25 16 Jupiter 4.2N of Moon	4 7 Jupiter 3.2N of Moon	17 15 NEW MOON
3 5 FIRST QUARTER	25 16 Pluto stationary	3 5 FIRST QUARTER	25 16 Pluto stationary	5 14 Moon furthest North (20.5)	18 17 Mercury 2.1S of Moon
4 6 Mercury inferior conjunction	25 19 NEW MOON	4 6 Mercury inferior conjunction	25 19 NEW MOON	6 4 Mercury greatest elong E(21)	18 19 Moon furthest South (-20.6)
4 6 Regulus 0.2S of Moon Occn	28 2 Aldebaran 0.8S of Moon Occn	4 6 Regulus 0.2S of Moon Occn	28 2 Aldebaran 0.8S of Moon Occn	6 4 Uranus 2.3N of Moon	21 7 Solstice
8 19 Venus stationary	28 2 Moon furthest North (19.8)	8 19 Venus stationary	28 2 Moon furthest North (19.8)	7 2 Moon at perigee	22 20 Venus 5.3N of Antares
10 8 FULL MOON	28 9 Moon at perigee	10 8 FULL MOON	28 9 Moon at perigee	7 3 Venus 1.2N of Mars	23 0 Moon at apogee
14 5 Moon furthest South (-19.7)	28 9 Uranus 3.4N of Moon	14 5 Moon furthest South (-19.7)	28 9 Uranus 3.4N of Moon	9 1 Regulus 1.3S of Moon	23 12 Mercury inferior conjunction
16 13 Mercury stationary	28 15 Mars 4.1N of Moon	16 13 Mercury stationary	28 15 Mars 4.1N of Moon	9 6 Saturn 0.6S of Moon Occn	25 19 FIRST QUARTER
16 13 Moon at apogee	30 2 Venus inferior conjunction	16 13 Moon at apogee	30 2 Venus inferior conjunction	10 9 LAST QUARTER	27 9 Neptune 3.3N of Moon
18 8 LAST QUARTER	30 13 Saturn 1.6N of Moon	18 8 LAST QUARTER	30 13 Saturn 1.6N of Moon	12 14 Jupiter at opposition	30 21 Aldebaran 1.1S of Moon Occn
22 8 Mars 5.9N of Moon	31 10 Mercury greatest elong W(25)	22 8 Mars 5.9N of Moon	31 10 Mercury greatest elong W(25)	13 22 Saturn stationary	31 11 Jupiter 3.4N of Moon
22 23 Neptune 2.9N of Moon	31 16 Regulus 0.4S of Moon Occn	22 23 Neptune 2.9N of Moon	31 16 Regulus 0.4S of Moon Occn	14 19 Mercury stationary	
June			January		
d h	d h	d h	d h	d h	d h
1 11 FIRST QUARTER	21 22 Venus 1.7N of Moon	1 11 FIRST QUARTER	21 22 Venus 1.7N of Moon	1 10 NEW MOON	15 13 FULL MOON
4 10 Venus 0.3N of Jupiter	22 13 Aldebaran 0.8S of Moon Occn	4 10 Venus 0.3N of Jupiter	22 13 Aldebaran 0.8S of Moon Occn	3 5 Jupiter 5.5S of Moon	15 13 Regulus 4.6N of Moon
8 21 FULL MOON	22 13 Jupiter 4.1N of Moon	8 21 FULL MOON	22 13 Jupiter 4.1N of Moon	4 5 Moon at perigee	20 7 Moon at apogee
23 Mars 5.4S of Pollux	22 21 Jupiter 4.8N of Aldebaran	23 Mars 5.4S of Pollux	22 21 Jupiter 4.8N of Aldebaran	4 8 Earth at perihelion	22 22 Spica 1.9S of Moon
10 13 Moon furthest South (-19.9)	23 7 Mercury 0.0N of Moon	10 13 Moon furthest South (-19.9)	23 7 Mercury 0.0N of Moon	4 21 Venus 5.2S of Moon	23 17 LAST QUARTER
12 22 Mercury 0.2S of Venus	24 3 NEW MOON	12 22 Mercury 0.2S of Venus	24 3 NEW MOON	7 18 Venus greatest elong E(47)	24 4 Mercury 1.4S of Jupiter
13 4 Moon at apogee	24 12 Moon furthest North (19.9)	13 4 Moon at apogee	24 12 Moon furthest North (19.9)	7 22 Neptune 2.6S of Moon	25 6 Mars 1.4S of Moon
16 23 Mercury 0.8S of Jupiter	24 21 Uranus 3.2N of Moon	16 23 Mercury 0.8S of Jupiter	24 21 Uranus 3.2N of Moon	8 3 FIRST QUARTER	25 15 Mercury 5.0N of Pluto
17 0 LAST QUARTER	25 10 Moon at perigee	17 0 LAST QUARTER	25 10 Moon at perigee	12 0 Aldebaran 1.9S of Moon	27 14 Moon furthest South (-18.9)
17 16 Mercury 4.2N of Aldebaran	26 5 Mars 2.8N of Moon	17 16 Mercury 4.2N of Aldebaran	26 5 Mars 2.8N of Moon	12 23 Mercury superior conjunction	30 21 NEW MOON
19 9 Neptune 3.1N of Moon	27 7 Saturn 1.2N of Moon Occn	19 9 Neptune 3.1N of Moon	27 7 Saturn 1.2N of Moon Occn	13 0 Moon furthest North (19.0)	31 1 Jupiter 5.3S of Moon
19 22 Venus stationary	27 23 Regulus 0.6S of Moon Occn	19 22 Venus stationary	27 23 Regulus 0.6S of Moon Occn	13 10 Uranus 4.7N of Moon	31 20 Mercury 5.7S of Moon
20 18 Solstice	30 18 FIRST QUARTER	20 18 Solstice	30 18 FIRST QUARTER	13 16 Saturn 3.6N of Moon	

Астрономические явления 2033			July		
January			August		
d h	d h	d h	d h	d h	d h
1 10 NEW MOON	15 13 FULL MOON	1 10 NEW MOON	15 13 FULL MOON	1 14 Mars stationary	19 17 Moon furthest North (18.4)
3 5 Jupiter 5.5S of Moon	18 9 Regulus 4.6N of Moon	3 5 Jupiter 5.5S of Moon	18 9 Regulus 4.6N of Moon	1 23 Spica 2.3S of Moon	20 9 Uranus 5.3N of Moon
4 5 Moon at perigee	20 7 Moon at apogee	4 5 Moon at perigee	20 7 Moon at apogee	3 6 Venus 1.6S of Uranus	20 10 Mercury superior conjunction
4 8 Earth at perihelion	22 22 Spica 1.9S of Moon	4 8 Earth at perihelion	22 22 Spica 1.9S of Moon	3 10 FIRST QUARTER	21 7 Saturn 4.7N of Moon
4 21 Venus 5.2S of Moon	23 17 LAST QUARTER	4 21 Venus 5.2S of Moon	23 17 LAST QUARTER	3 7 Moon furthest South (-18.5)	21 17 Mercury 1.3N of Regulus
7 18 Venus greatest elong E(47)	24 4 Mercury 1.4S of Jupiter	7 18 Venus greatest elong E(47)	24 4 Mercury 1.4S of Jupiter	3 10 FIRST QUARTER	22 7 Equinox
7 22 Neptune 2.6S of Moon	25 6 Mars 1.4S of Moon	7 22 Neptune 2.6S of Moon	25 6 Mars 1.4S of Moon	3 9 Moon furthest South (-18.4)	21 0 Regulus 4.0N of Moon
8 3 FIRST QUARTER	25 15 Mercury 5.0N of Pluto	8 3 FIRST QUARTER	25 15 Mercury 5.0N of Pluto	8 0 Jupiter 4.8S of Moon	21 5 Venus 4.3N of Moon
12 0 Aldebaran 1.9S of Moon	27 14 Moon furthest South (-18.9)	12 0 Aldebaran 1.9S of Moon	27 14 Moon furthest South (-18.9)	8 2 FULL MOON	22 16 Equinox
12 23 Mercury superior conjunction	30 21 NEW MOON	12 23 Mercury superior conjunction	30 21 NEW MOON	10 2 Moon at perigee	23 13 NEW MOON Eclipse
13 0 Moon furthest North (19.0)	31 1 Jupiter 5.3S of Moon	13 0 Moon furthest North (19.0)	31 1 Jupiter 5.3S of Moon	11 6 Neptune 1.1S of Moon Occn	23 14 Mercury 0.4N of Spica
13 10 Uranus 4.7N of Moon	31 20 Mercury 5.7S of Moon	13 10 Uranus 4.7N of Moon	31 20 Mercury 5.7S of Moon	14 18 Aldebaran 1.1S of Moon Occn	25 1 Moon at apogee
13 16 Saturn 3.6N of Moon		13 16 Saturn 3.6N of Moon		15 17 LAST QUARTER	25 13 Spica 1.1S of Moon
February			September		
d h	d h	d h	d h	d h	d h
1 7 Moon at perigee	14 15 Regulus 4.5N of Moon	1 7 Moon at perigee	14 15 Regulus 4.5N of Moon	1 4 Mercury 0.1N of Moon Occn	18 11 Spica 2.3S of Moon
2 21 Jupiter at conjunction	16 19 Moon at apogee	2 21 Jupiter at conjunction	16 19 Moon at apogee	1 8 NEW MOON	20 7 Equinox
3 1 Venus 0.2N of Moon Occn	18 6 Mercury stationary	3 1 Venus 0.2N of Moon Occn	18 6 Mercury stationary	1 15 Saturn stationary	20 16 Venus inferior conjunction
3 7 Pluto at conjunction	19 5 Spica 2.1S of Moon	3 7 Pluto at conjunction	19 5 Spica 2.1S of Moon	1 18 Moon at perigee	20 23 Venus greatest elong W(9)
4 5 Neptune 2.4S of Moon	22 11 LAST QUARTER	4 5 Neptune 2.4S of Moon	22 11 LAST QUARTER	3 16 Neptune 2.1S of Moon	23 7 Mars 4.4S of Moon
4 5 FIRST QUARTER	21 19 Regulus 0.7S of Moon Occn	4 5 FIRST QUARTER	21 19 Regulus 0.7S of Moon Occn	5 14 Uranus stationary	23 7 Moon furthest South (-18.6)
8 5 Aldebaran 1.8S of Moon	24 0 Moon furthest South (-18.7)	8 5 Aldebaran 1.8S of Moon	24 0 Moon furthest South (-18.7)	7 11 Aldebaran 1.6S of Moon	24 1 LAST QUARTER
8 7 Moon furthest North (18.9)	24 21 Mars 5.3N of Antares	8 7 Moon furthest North (18.9)	24 21 Mars 5.3N of Antares	8 1 FIRST QUARTER	27 5 Mercury greatest elong W(28)
9 14 Uranus 4.8N of Moon	25 15 Venus stationary	9 14 Uranus 4.8N of Moon	25 15 Venus stationary	8 12 Moon furthest North (18.7)	27 19 Jupiter 4.9S of Moon
9 19 Saturn 3.8N of Moon	27 22 Mercury inferior conjunction	9 19 Saturn 3.8N of Moon	27 22 Mercury inferior conjunction	8 19 Uranus 5.0N of Moon	28 19 Mercury 4.9S of Moon
12 7 Mercury greatest elong E(18)	27 23 Jupiter 5.1S of Moon	12 7 Mercury greatest elong E(18)	27 23 Jupiter 5.1S of Moon	9 0 Saturn 4.1N of Moon	29 17 Venus 5.1N of Moon
14 7 FULL MOON		14 7 FULL MOON		12 7 Mercury stationary	30 5 Moon at perigee
March			October		
d h	d h	d h	d h	d h	d h
1 4 Mercury 0.1N of Moon Occn	18 11 Spica 2.3S of Moon	1 4 Mercury 0.1N of Moon Occn	18 11 Spica 2.3S of Moon	15 21 Moon at apogee	31 4 Neptune 1.9S of Moon
1 8 NEW MOON	20 7 Equinox	1 8 NEW MOON	20 7 Equinox	16 1 FULL MOON	
1 15 Saturn stationary	20 16 Venus inferior conjunction	1 15 Saturn stationary	20 16 Venus inferior conjunction		
1 18 Moon at perigee	20 23 Venus greatest elong W(9)	1 18 Moon at perigee	20 23 Venus greatest elong W(9)		
3 16 Neptune 2.1S of Moon	23 7 Mars 4.4S of Moon	3 16 Neptune 2.1S of Moon	23 7 Mars 4.4S of Moon		
5 14 Uranus stationary	23 7 Moon furthest South (-18.6)	5 14 Uranus stationary	23 7 Moon furthest South (-18.6)		
7 11 Aldebaran 1.6S of Moon	24 1 LAST QUARTER	7 11 Aldebaran 1.6S of Moon	24 1 LAST QUARTER		
8 1 FIRST QUARTER	27 5 Mercury greatest elong W(28)	8 1 FIRST QUARTER	27 5 Mercury greatest elong W(28)		
8 12 Moon furthest North (18.7)	27 19 Jupiter 4.9S of Moon	8 12 Moon furthest North (18.7)	27 19 Jupiter 4.9S of Moon		
8 19 Uranus 5.0N of Moon	28 19 Mercury 4.9S of Moon	8 19 Uranus 5.0N of Moon	28 19 Mercury 4.9S of Moon		
9 0 Saturn 4.1N of Moon	29 17 Venus 5.1N of Moon	9 0 Saturn 4.1N of Moon	29 17 Venus 5.1N of Moon		

Краткий астрономический календарь на 2034 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Астрономические явления 2034				
January		July		
d h	d h	d h	d h	
2 9	Aldebaran 1.0S of Moon Occn	1 7	FULL MOON	
3 16	Moon furthest North (18.5)	17 9	Mars 5.1N of Moon	
4 1	Uranus 5.3N of Moon	22 12	Mercury greatest elong W(21)	
4 2	Venus superior conjunction	22 18	Jupiter 0.1N of Moon Occn	
4 5	Earth at perihelion	23 7	Jupiter 0.1N of Moon Occn	
4 19	FULL MOON	23 8	Uranus 5.2N of Moon	
5 1	Saturn 4.6N of Moon	23 17	Neptune 0.6S of Moon Occn	
6 2	Saturn at opposition	23 22	Venus 1.0N of Regulus	
6 6	Regulus 3.4N of Moon	23 28	Mars 0.2N of Moon Occn	
12 13	LAST QUARTER	24 17	Aldebaran 0.6S of Moon Occn	
12 17	Spica 3.6S of Moon	24 22	Moon at perigee	
13 0	Moon at apogee	25 22	Neptune 0.5S of Moon Occn	
17 23	Moon furthest South (-18.4)	26 19	Mercury greatest elong E(18)	
February				
d h	d h	d h	d h	
1 6	Saturn 4.7N of Moon	18 23	NEW MOON	
1 20	Mercury stationary	19 19	Venus 3.3S of Moon	
3 10	FULL MOON	20 0	Jupiter 2.6S of Moon	
4 15	Regulus 3.3N of Moon	21 15	Moon at perigee	
5 2	Pluto at conjunction	22 6	Neptune 0.5S of Moon Occn	
6 14	Mars 1.7N of Neptune	22 19	Mercury 0.4S of Jupiter	
7 7	Mercury 4.5N of Venus	23 0	Mars 2.5N of Moon	
9 1	Spica 3.8S of Moon	23 10	Mercury stationary	
9 21	Moon at apogee	25 16	FIRST QUARTER	
11 9	Mercury inferior conjunction	25 21	Aldebaran 0.7S of Moon Occn	
11 11	LAST QUARTER	27 6	Moon furthest North (18.2)	
14 10	Moon furthest South (-18.3)	27 12	Moon furthest South (-18.3)	
17 22	Mercury 0.5S of Moon Occn	28 10	Saturn 4.9N of Moon	
March				
d h	d h	d h	d h	
3 22	Regulus 3.3N of Moon	20 13	Equinox	
5 2	FULL MOON	21 6	Moon 0.8N of Neptune	
8 9	Spica 3.9S of Moon	21 17	Neptune 0.1S of Moon Occn	
9 15	Mercury greatest elong W(27)	21 17	Venus 0.7N of Moon Occn	
9 16	Moon at apogee	21 18	Moon at perigee	
10 6	Uranus stationary	23 17	Mars 4.4N of Moon	
10 16	Jupiter at conjunction	25 4	Aldebaran 0.6S of Moon Occn	
13 6	LAST QUARTER	26 12	Moon furthest North (18.2)	
13 28	Moon furthest South (-18.2)	26 17	Uranus 5.1N of Moon	
15 23	Saturn stationary	27 1	FIRST QUARTER	
16 12	Mercury 4.4S of Moon	27 15	Saturn 5.0N of Moon	
19 22	Jupiter 1.9S of Moon	31 4	Regulus 3.3N of Moon	
20 10	NEW MOON	Eclipse		
April				
d h	d h	d h	d h	
3 2	Mercury 1.3S of Jupiter	18 19	NEW MOON	
3 19	FULL MOON	19 18	Moon at perigee	
4 15	Spica 4.0S of Moon	Eclipse	20 14	Venus 4.6N of Moon
6 3	Moon at apogee	21 10	Mars 5.6N of Moon	
9 13	Neptune at conjunction	21 13	Aldebaran 0.7S of Moon Occn	
10 1	Moon furthest South (-18.2)	21 19	Mercury superior conjunction	
11 22	LAST QUARTER	22 20	Moon furthest North (18.2)	
16 3	Mercury 0.2N of Neptune	23 2	Uranus 5.3N of Moon	
16 19	Jupiter 1.3S of Moon	24 0	Saturn 5.9N of Moon	
18 5	Neptune 0.0N of Moon Occn	25 11	FIRST QUARTER	
18 13	Mercury 1.0N of Moon	27 10	Regulus 3.2N of Moon	
May				
d h	d h	d h	d h	
1 22	Spica 4.0S of Moon	20 6	Moon furthest North (18.4)	
3 5	Moon at apogee	20 16	Mercury greatest elong E(22)	
3 12	FULL MOON	20 14	Uranus 5.3N of Moon	
7 8	Moon furthest South (-18.3)	21 13	Saturn 4.8N of Moon	
11 10	LAST QUARTER	22 0	Venus 1.5N of Uranus	
12 8	Venus 0.4N of Mars	22 18	Pluto stationary	
14 15	Jupiter 0.7S of Moon	24 17	Regulus 3.1N of Moon	
15 17	Neptune 0.2N of Moon Occn	24 23	FIRST QUARTER	
16 14	Moon at perigee	25 4	Spica 4.1S of Moon	
18 3	NEW MOON	30 11	Moon at apogee	
18 23	Aldebaran 0.7S of Moon Occn	30 16	Mars 0.8N of Uranus	
June				
d h	d h	d h	d h	
2 3	FULL MOON	17 3	Uranus 5.2N of Moon	
2 8	Mercury stationary	23 4	Mercury greatest elong W(22)	
3 15	Moon furthest South (-18.4)	18 4	Saturn 4.6N of Moon	
4 0	Venus 2.0N of Saturn	19 8	Venus 5.9N of Moon	
7 14	Venus 4.7S of Pollux	21 1	Regulus 2.9N of Moon	
9 19	LAST QUARTER	21 6	Solstices	
11 7	Jupiter 0.2S of Moon Occn	23 14	FIRST QUARTER	
12 3	Neptune 0.4N of Moon Occn	23 10	Spica 4.3S of Moon	
14 11	Mercury inferior conjunction	26 4	Mercury stationary	
14 21	Moon at perigee	26 22	Mars 1.1N of Saturn	
15 10	Aldebaran 0.8S of Moon Occn	27 1	Moon at apogee	
16 5	Mercury 1.2N of Moon Occn	27 20	Uranus at conjunction	
16 10	NEW MOON	29 3	Mars 5.6S of Pollux	
16 18	Moon furthest North (18.4)	30 23	Moon furthest South (-18.4)	
July				
d h	d h	d h	d h	
1 17	FULL MOON	16 13	Mars 5.1N of Moon	
6 17	Earth at aphelion	17 9	Saturn at conjunction	
7 22	Mercury greatest elong W(21)	17 19	Mercury 1.1S of Uranus	
8 18	Jupiter 0.1N of Moon Occn	18 10	Regulus 2.7N of Moon	
9 11	Neptune 0.6N of Moon Occn	19 6	Venus 2.2N of Moon	
9 15	Venus 1.0N of Regulus	22 18	Spica 4.5S of Moon	
9 22	Mercury 3.4N of Moon	23 7	FIRST QUARTER	
12 18	Aldebaran 0.6S of Moon Occn	24 17	Moon at apogee	
12 19	Moon at perigee	26 12	Mercury 5.9S of Pollux	
14 5	Moon furthest North (18.4)	26 16	Neptune stationary	
14 7	Mercury 3.4N of Moon	27 18	Mercury 1.0N of Saturn	
14 15	Uranus 5.2N of Moon	28 8	Moon furthest South (-18.4)	
15 18	NEW MOON	31 5	FULL MOON	
15 20	Saturn 4.5N of Moon	29 16	FULL MOON	
August				
d h	d h	d h	d h	
3 18	Jupiter stationary	13 13	Mercury 1.1N of Regulus	
4 8	Mercury superior conjunction	14 3	NEW MOON	
5 2	Jupiter 0.2N of Moon Occn	14 6	Mars 3.8N of Moon	
5 16	Neptune 0.7N of Moon Occn	14 19	Regulus 2.6N of Moon	
7 6	LAST QUARTER	15 0	Mercury 3.4N of Moon	
7 18	Mercury 0.8N of Mars	18 0	Venus 3.3S of Moon	
8 3	Mercury 3.1S of Moon	18 4	Spica 4.7S of Moon	
9 1	Aldebaran 0.5S of Moon Occn	19 5	Mars conjunction	
9 15	Pluto at opposition	21 11	Moon at apogee	
10 13	Moon furthest North (18.3)	22 0	FIRST QUARTER	
11 1	Uranus 5.3N of Moon	24 17	Moon furthest South (-18.2)	
12 11	Saturn 4.3N of Moon	25 11	Mars 0.7N of Regulus	
12 16	Venus greatest elong E(46)	29 16	FULL MOON	
September				
d h	d h	d h	d h	
1 6	Jupiter 0.0N of Moon Occn	15 10	Spica 4.7S of Moon	
1 22	Neptune 0.7N of Moon Occn	17 0	Mercury greatest elong E(27)	
2 16	Moon at perigee	18 6	Moon at apogee	
3 3	Venus 1.8S of Spica	20 18	FIRST QUARTER	
5 7	Aldebaran 0.4S of Moon Occn	21 1	Moon furthest South (-18.2)	
5 11	LAST QUARTER	21 5	Mercury 1.1S of Spica	
6 19	Moon furthest North (18.2)	22 22	Equinox	
7 9	Uranus 5.3N of Moon	28 2	FULL MOON	
8 23	Saturn 4.3N of Moon	28 10	Jupiter 0.2S of Moon Occn	
11 3	Regulus 2.6N of Moon	29 5	Neptune 0.7N of Moon Occn	
12 0	Mars 2.2N of Moon	29 22	Venus stationary	
12 16	NEW MOON	Eclipse	29 23	Mercury stationary
14 23	Mercury 4.6S of Moon	30 4	Moon at perigee	
October				
d h	d h	d h	d h	
2 10	Jupiter at opposition	16 11	Uranus stationary	
2 13	Aldebaran 0.4S of Moon Occn	18 9	Moon furthest South (-18.3)	
4 1	Moon furthest North (18.2)	20 11	FIRST QUARTER	
4 16	Uranus 5.3N of Moon	20 20	Mercury stationary	
4 18	LAST QUARTER	21 16	Venus inferior conjunction	
6 9	Saturn 4.2N of Moon	25 15	Jupiter 0.4S of Moon Occn	
7 22	Mercury 0.9S of Spica	26 15	Neptune 0.7N of Moon Occn	
8 9	Regulus 2.5N of Moon	27 12	FULL MOON	
10 17	Mars 0.4N of Moon Occn	28 9	Mercury greatest elong W(18)	
12 7	NEW MOON	28 10	Moon at perigee	
12 8	Mercury 4.0S of Moon	28 16	Venus 3.3S of Spica	
12 12	Mercury inferior conjunction	29 21	Aldebaran 0.5S of Moon Occn	
12 18	Spica 4.7S of Moon	31 8	Moon furthest North (18.3)	
14 5	Neptune at opposition	31 9	Pluto stationary	
15 23	Moon at apogee	31 23	Uranus 5.2N of Moon	
November				
d h	d h	d h	d h	
2 17	Saturn 4.0N of Moon	16 18	Saturn stationary	
3 3	LAST QUARTER	17 20	Mars 2.9N of Spica	
3 8	Mercury 4.1N of Spica	19 3	FIRST QUARTER	
4 15	Regulus 2.4N of Moon	22 22	Jupiter 0.3S of Moon Occn	
8 12	Mars 1.3S of Moon	23 0	Neptune 0.8N of Moon Occn	
8 16	Spica 4.8S of Moon	25 2	FULL MOON	
9 0	Spica 4.8S of Moon	25 22	Moon at perigee	
9 4	Venus stationary	26 2	Mars 2.9N of Spica	
9 20	Mercury 1.8S of Moon	26 8	Aldebaran 0.6S of Moon Occn	
11 1	NEW MOON	27 19	Moon furthest North (18.5)	
11 22	Venus 2.8S of Mars	28 7	Uranus 5.1N of Moon	
12 9	Moon at apogee	29 16	Jupiter stationary	
14 16	Moon furthest South (-18.4)	30 1	Saturn 3.9N of Moon	
December				
d h	d h	d h	d h	
1 21	Regulus 2.2N of Moon	20 19	Neptune 1.0N of Moon Occn	
2 11	Mercury 3.8N of Antares	21 9	Solstices	
2 16	LAST QUARTER	23 20	Aldebaran 0.5S of Moon Occn	
2 16	Mercury superior conjunction	24 10	Moon at perigee	
6 6	Spica 4.9S of Moon	25 7	Moon furthest North (18.6)	
6 19	Venus 1.2S of Moon	25 8	FULL MOON	
7 7	Mars 2.9S of Moon	25 17	Uranus 5.0N of Moon	
9 10	Moon at apogee	27 9	Saturn 3.8N of Moon	
10 20	NEW MOON	29 6	Regulus 2.0N of Moon	
11 23	Moon furthest South (-18.6)	30 4	Uranus at opposition	
18 17	FIRST QUARTER	30 18	Venus 2.7N of Mars	
19 7	Jupiter 0.1N of Moon Occn	31 10	Neptune stationary	

Краткий астрономический календарь на 2035 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Астрономические явления 2035				
January		July		
d h	d h	d h	d h	
1 9	Venus greatest elong W(47)	17 4	FIRST QUARTER	
1 10	LAST QUARTER	20 5	Aldebaran 0.4S of Moon Occn	
2 12	Spica 5.1S of Moon	21 17	Moon at perigee	
3 0	Earth at perihelion	21 19	Moon furthest North (18.5)	
5 4	Mars 4.2S of Moon	22 1	Uranus 5.1N of Moon	
5 8	Venus 1.5S of Moon	22 3	Saturn at opposition	
5 19	Moon at apogee	23 17	Saturn 3.9N of Moon	
6 7	Moon furthest South (-18.6)	23 20	FULL MOON	
9 14	NEW MOON	25 17	Regulus 1.8N of Moon	
10 1	Mercury greatest elong E(19)	26 5	Mercury inferior conjunction	
11 6	Mercury 3.6S of Moon	27 3	Mars 4.9N of Antares	
15 18	Jupiter 0.7N of Moon Occn	29 20	Spica 5.3S of Moon	
16 16	Neptune 1.2N of Moon Occn	31 6	LAST QUARTER	
16 17	Mercury stationary			
February				
d h	d h	d h	d h	
2 13	Moon at apogee	15 13	FIRST QUARTER	
3 1	Mars 5.0S of Moon	16 12	Aldebaran 0.3S of Moon Occn	
4 11	Moon 2.7S of Moon	18 4	Moon at perigee	
4 16	Moon furthest South (-18.5)	18 4	Moon furthest North (18.5)	
6 3	Mercury 3.1S of Moon Occn	18 9	Uranus 5.1N of Moon	
6 20	Pluto at conjunction	19 22	Mercury greatest elong W(26)	
6 21	Mercury stationary	19 23	Saturn 4.1N of Moon	
8 8	NEW MOON	22 3	Regulus 1.8N of Moon	
12 8	Jupiter 1.3N of Moon	22 8	FULL MOON	
12 22	Neptune 1.4N of Moon	26 5	Spica 5.4S of Moon	
March				
d h	d h	d h	d h	
2 2	LAST QUARTER	17 10	Moon furthest North (18.4)	
2 10	Moon at apogee	17 13	Uranus 5.2N of Moon	
4 0	Mars 5.2S of Moon	19 3	Saturn 4.2N of Moon	
4 1	Moon furthest South (-18.4)	20 19	Equinox	
6 17	Venus 2.8S of Moon	21 11	Regulus 1.7N of Moon	
8 3	Mercury 3.5S of Moon	23 22	FULL MOON	
9 23	NEW MOON	Eclipse	24 16	Jupiter 0.5N of Neptune
12 2	Jupiter 1.8N of Moon	25 14	Spica 5.4S of Moon	
12 6	Neptune 1.5N of Moon	30 6	Moon at apogee	
14 21	Uranus stationary	30 11	Saturn stationary	
15 2	Moon at perigee	31 9	Moon furthest South (-18.4)	
15 17	Aldebaran 0.3S of Moon Occn	31 23	LAST QUARTER	
16 20	FIRST QUARTER			
April				
d h	d h	d h	d h	
1 22	Mars 4.9S of Moon	13 15	Moon furthest North (18.5)	
5 18	Mercury superior conjunction	13 20	Uranus 5.1N of Moon	
5 22	Venus 1.2S of Moon Occn	15 2	FIRST QUARTER	
6 10	NEW MOON	16 9	Saturn 4.1N of Moon	
8 16	Neptune 2.7N of Moon	17 9	Jupiter at conjunction	
8 16	Neptune 1.6N of Moon	17 17	Regulus 1.6N of Moon	
8 17	Mercury 1.1N of Neptune	21 22	Spica 5.4S of Moon	
8 21	Jupiter 2.4N of Moon	22 13	FULL MOON	
8 18	Mercury 0.8N of Jupiter	26 22	Moon at apogee	
11 1	Moon at perigee	27 16	Moon furthest South (-18.6)	
12 0	Aldebaran 0.3S of Moon Occn	30 16	LAST QUARTER	
12 2	Neptune at conjunction	30 19	Mars 4.2S of Moon	
May				
d h	d h	d h	d h	
2 8	Mercury greatest elong E(21)	14 10	FIRST QUARTER	
5 23	Venus 1.3N of Moon	14 22	Regulus 1.5N of Moon	
6 1	Neptune 1.7N of Moon	17 20	Jupiter 0.5S of Jupiter	
6 19	Jupiter 2.8N of Moon	19 4	Spica 5.5S of Moon	
7 20	NEW MOON	22 4	FULL MOON	
8 14	Venus 0.0N of Neptune	24 9	Moon at apogee	
9 2	Moon at perigee	24 18	Pluto stationary	
9 8	Aldebaran 0.5S of Moon Occn	25 0	Moon furthest South (-18.8)	
10 23	Moon furthest North (18.7)	25 4	Mercury inferior conjunction	
11 4	Uranus 4.9N of Moon	29 13	Mars 3.5S of Moon	
12 18	Saturn 3.9N of Moon	30 7	LAST QUARTER	
14 6	Mercury stationary			
June				
d h	d h	d h	d h	
2 16	Neptune 1.9N of Moon	12 19	FIRST QUARTER	
11 15	Jupiter 3.2N of Moon	15 9	Spica 5.7S of Moon	
4 21	Venus 3.8N of Moon	16 9	Venus 4.8N of Aldebaran	
5 2	Mercury 1.1N of Moon Occn	19 8	Mercury greatest elong W(23)	
5 19	Aldebaran 0.5S of Moon Occn	20 12	Moon at apogee	
6 3	NEW MOON	20 19	FULL MOON	
6 7	Mercury stationary	21 7	Moon furthest South (-18.9)	
6 11	Moon at perigee	21 12	Solstices	
7 10	Moon furthest North (18.8)	24 0	Mercury 2.6N of Aldebaran	
7 13	Mercury 3.0S of Venus	27 1	Mars 3.1S of Moon	
7 17	Uranus 4.7N of Moon	28 18	LAST QUARTER	
9 6	Saturn 3.6N of Moon	30 1	Neptune 2.1N of Moon	
11 5	Regulus 1.3N of Moon			
July				
d h	d h	d h	d h	
1 10	Jupiter 3.6N of Moon	12 16	Spica 5.9S of Moon	
2 19	Uranus at conjunction	12 16	Mercury 0.4N of Venus	
3 5	Aldebaran 0.4S of Moon Occn	17 17	Moon at apogee	
4 6				

Краткий астрономический календарь на 2040 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Краткий астрономический календарь на 2037 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Table with columns for month, day, time (d, h), and astronomical events for the year 2040. Includes sections for January through December.

Table with columns for month, day, time (d, h), and astronomical events for the year 2037. Includes sections for January through December.

Краткий астрономический календарь на 2038 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Table with columns for month (January to June), day (d), hour (h), and astronomical events (e.g., Mercury stationary, Moon at perigee, Jupiter at opposition). Includes sub-sections for 'Астрономические явления 2038' and 'July'.

Краткий астрономический календарь на 2039 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Table with columns for month (January to June), day (d), hour (h), and astronomical events (e.g., Mercury stationary, Moon at perigee, Jupiter at opposition). Includes sub-sections for 'Астрономические явления 2039' and 'July'.

Краткий астрономический календарь на 2044 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Краткий астрономический календарь на 2041 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Астрономические явления 2044			
January		July	
d h	d h	d h	d h
1	Venus 1.0N of Moon	19	Mars 3.9N of Moon
2	Earth at perihelion	20	Neptune stationary
5	UJupiter at conjunction	21	Spica 0.7N of Moon
8	Mercury greatest elong W(23)	21	LAST QUARTER
8	FIRST QUARTER	25	Uranus 0.4N of Moon
9	Neptune 5.6S of Moon	25	Moon at apogee
13	Moon furthest North (-28.4)	26	Moon furthest South (-28.5)
13	Moon at perigee	27	Mercury 0.8S of Jupiter
14	FULL MOON	27	Jupiter 4.3N of Moon
14	Pollux 2.4N of Moon	28	Mercury 3.3N of Moon
16	Uranus 1.9S of Moon	30	NEW MOON
17	Regulus 1.4S of Moon		
February		August	
d h	d h	d h	d h
1	Mars stationary	15	Mars 4.8N of Moon
2	Uranus 1.0S of Moon	17	Spica 0.9N of Moon
6	Neptune 5.7S of Moon	19	Antares 0.6N of Moon
6	FIRST QUARTER	20	Equinox
6	LAST QUARTER	20	Mercury greatest elong E(19)
9	Uranus at opposition	21	Moon at apogee
9	Moon furthest North (28.5)	22	Moon at apogee
10	Moon furthest South (-28.6)	23	Moon furthest South (-28.6)
11	Pollux 2.4N of Moon	23	LAST QUARTER
12	Uranus 1.9S of Moon	23	Jupiter 3.7N of Moon
13	FULL MOON	25	Mercury stationary
13	Regulus 1.3S of Moon	26	NEW MOON
March		September	
d h	d h	d h	d h
3	Venus 1.7S of Moon	16	Spica 0.9N of Moon
4	Neptune 5.7S of Moon	17	Venus greatest elong E(46)
6	FIRST QUARTER	19	Antares 0.6N of Moon
7	Moon furthest North (28.6)	19	Equinox
7	Moon at perigee	20	Mercury greatest elong E(19)
9	Saturn stationary	21	Moon at apogee
11	Pollux 2.4N of Moon	21	Moon furthest South (-28.6)
11	Uranus 2.0S of Moon	21	LAST QUARTER
11	Mars at opposition	24	Jupiter 3.7N of Moon
12	Regulus 1.3S of Moon	27	Mercury stationary
13	Mars 3.9N of Moon	29	NEW MOON
13	FULL MOON	30	Mercury 0.5N of Moon
14	Mars nearest to Earth	31	Uranus 5.8S of Moon
14	Venus 4.3N of Neptune		
April		October	
d h	d h	d h	d h
1	Venus 0.7S of Moon	17	Moon furthest South (-28.5)
2	Moon at perigee	17	Moon at apogee
3	Moon furthest North (28.6)	19	Mercury stationary
3	FIRST QUARTER	19	LAST QUARTER
5	Pollux 2.4N of Moon	20	Jupiter 3.3N of Moon
6	Mercury inferior conjunction	23	Mars stationary
7	Uranus 2.0S of Moon	24	Uranus stationary
8	Regulus 1.2S of Moon	26	Mercury 4.1S of Moon
9	Mars 2.3N of Moon	27	NEW MOON
12	FULL MOON	28	Neptune 5.8S of Moon
12	Spica 0.9N of Moon	29	Moon at perigee
16	Uranus 0.3N of Moon	30	Venus 0.1N of Moon
May		November	
d h	d h	d h	d h
1	Moon furthest North (28.5)	15	Moon at apogee
2	Neptune at conjunction	17	Saturn at opposition
2	Pollux 2.4N of Moon	18	Spica 0.9N of Moon
10	FIRST QUARTER	20	LAST QUARTER
4	Uranus 1.9S of Moon	22	Mercury 0.5S of Neptune
5	Mercury greatest elong W(27)	24	Jupiter stationary
5	Regulus 1.1S of Moon	25	Neptune 5.9S of Moon
6	Mars 1.3N of Moon	27	NEW MOON
6	Uranus stationary	27	Venus 3.3S of Moon
13	Venus stationary	28	Uranus 0.3S of Moon
13	Spica 1.0N of Moon	29	Venus inferior conjunction
12	FULL MOON	29	Moon at perigee
13	Antares 0.8N of Moon	28	Moon furthest North (28.3)
15	Moon furthest South (-28.4)	30	Pollux 2.7N of Moon
June		December	
d h	d h	d h	d h
1	Uranus 1.7S of Moon	14	Jupiter 2.7N of Moon
2	Regulus 0.9S of Moon	17	Venus stationary
2	Mercury 0.6S of Venus	18	LAST QUARTER
2	FIRST QUARTER	20	Solstice
3	Mars 1.3N of Moon	23	Moon furthest North (28.3)
5	Neptune 5.6N of Aldebaran	25	Moon at perigee
6	Spica 1.1N of Moon	25	NEW MOON
6	Uranus stationary	26	Mercury 2.0S of Moon
9	Antares 0.8N of Moon	26	Pollux 2.8N of Moon
10	Mercury superior conjunction	27	Mercury 4.8S of Pollux
10	FULL MOON	28	Uranus 1.4S of Moon
11	Moon furthest South (-28.3)	29	Regulus 0.7S of Moon
11	Moon at apogee		

Астрономические явления 2041			
January		July	
d h	d h	d h	d h
2	Mars 2.8N of Moon	18	Uranus 4.2S of Moon
2	Moon furthest South (-26.8)	18	Moon at apogee
3	NEW MOON	19	Mercury greatest elong E(19)
3	Mercury 2.3N of Moon	20	Regulus 4.5S of Moon
3	Earth at perihelion	22	Saturn 0.2N of Moon
3	Moon at perigee	24	Spica 4.4S of Moon
5	Uranus 4.2S of Moon	25	Jupiter 0.4S of Moon
5	Venus greatest elong E(47)	25	LAST QUARTER
7	Mercury 1.1N of Moon	25	Mercury stationary
9	FIRST QUARTER	25	Uranus at opposition
10	Neptune 0.0N of Moon	26	Saturn 4.6N of Spica
13	Neptune stationary	28	Antares 2.8S of Moon
15	Moon furthest North (26.8)	29	Moon furthest South (-26.9)
16	Pollux 2.3N of Moon	31	Mars 3.7N of Moon
17	FULL MOON		
February		August	
d h	d h	d h	d h
1	NEW MOON	14	Pluto at conjunction
1	Moon at perigee	15	Jupiter stationary
2	Pluto 5.0S of Moon	16	Mercury stationary
2	Saturn stationary	16	FULL MOON
4	Mercury inferior conjunction	16	Regulus 4.4S of Moon
6	Neptune 0.2S of Moon	20	Saturn 0.3N of Moon
7	Saturn 4.7N of Spica	20	Regulus 4.2S of Moon
7	FIRST QUARTER	21	Jupiter 0.1S of Moon
11	Mercury 4.3N of Mars	23	Uranus stationary
12	Moon furthest North (27.0)	24	LAST QUARTER
13	Pollux 2.2N of Moon	24	Antares 2.6S of Moon
14	Uranus 4.2S of Moon	26	Moon furthest South (-27.1)
14	Moon at apogee	28	Mercury 4.9N of Moon
March		September	
d h	d h	d h	d h
1	Mars 3.9N of Moon	18	Venus greatest elong W(9)
1	Uranus 5.1S of Moon	19	Mercury 1.0S of Mars
1	Moon at perigee	19	Saturn 0.8N of Moon
1	Mercury greatest elong W(27)	20	Spica 4.0S of Moon
2	NEW MOON	20	Equinox
6	Neptune 0.5S of Moon	20	Jupiter stationary
9	FIRST QUARTER	23	Spica 1.9N of Moon
11	Moon furthest North (27.2)	23	Mars 4.1N of Moon
11	Moon furthest South (-27.3)	25	Mercury superior conjunction
13	Uranus 4.3S of Moon	26	Mars 3.7N of Moon
14	Moon at perigee	26	Mercury stationary
15	Regulus 4.4S of Moon	27	Uranus 0.6N of Moon
17	FULL MOON	28	Moon furthest South (-28.4)
18	Venus inferior conjunction	29	FIRST QUARTER
April		October	
d h	d h	d h	d h
1	NEW MOON	16	FULL MOON
2	Neptune 0.7S of Moon	16	Jupiter 0.1S of Moon
2	Moon at perigee	16	Pluto at opposition
7	Moon furthest North (27.3)	19	Mercury 1.8N of Neptune
8	FIRST QUARTER	19	Antares 2.4S of Moon
8	Uranus 1.6N of Moon	21	Moon furthest South (-27.4)
9	Uranus 4.5S of Moon	21	LAST QUARTER
10	Saturn at opposition	25	Neptune at conjunction
10	Uranus stationary	25	Pluto 5.1S of Moon
11	Moon at apogee	26	Moon at perigee
11	Regulus 4.5S of Moon	27	Venus 5.2N of Moon
14	Mercury superior conjunction	28	Mars 2.1N of Moon
16	Saturn 0.6N of Moon	30	Neptune 0.8S of Moon
17	Spica 3.8S of Moon	30	NEW MOON
May		November	
d h	d h	d h	d h
1	Mercury 0.8N of Moon	17	Antares 2.3S of Moon
4	Moon furthest North (27.4)	17	Moon furthest South (-27.4)
6	Jupiter 1.8N of Moon	22	Moon at perigee
6	Pollux 3.6N of Spica	22	Pluto 5.3S of Moon
7	Uranus 4.6S of Moon	22	LAST QUARTER
8	FIRST QUARTER	24	Saturn stationary
8	Moon at apogee	26	Venus 0.8S of Moon
9	Regulus 4.6S of Moon	27	Moon at perigee
9	Mercury greatest elong E(22)	27	Mars 0.5N of Moon
12	Saturn 0.9N of Moon	27	Mercury greatest elong W(46)
13	Spica 0.4S of Moon	27	Neptune 1.0S of Moon
13	Jupiter 0.4S of Moon	28	NEW MOON
13	Spica 3.8S of Moon	30	Mercury 3.8S of Moon
16	FULL MOON		
June		December	
d h	d h	d h	d h
1	Moon furthest North (27.3)	17	Mercury stationary
2	Pollux 1.9N of Moon	17	Moon at perigee
3	Uranus stationary	18	Jupiter stationary
3	Uranus 4.5S of Moon	18	Pluto 5.5S of Moon
5	Mars 0.9N of Neptune	20	Solstice
5	Mercury inferior conjunction	21	Saturn stationary
5	Moon at apogee	21	LAST QUARTER
5	Regulus 4.5S of Moon	23	Neptune 1.1S of Moon
6	FIRST QUARTER	24	Venus 3.2S of Moon
9	Saturn 0.3N of Moon	24	Mars 1.3S of Moon
9	Jupiter 0.6S of Moon	24	Moon furthest North (27.3)
10	Uranus 3.8S of Moon	28	NEW MOON
12	Venus 0.8S of Neptune	28	Uranus 2.0S of Mars
12	Antares 2.3S of Moon	29	Pollux 1.9N of Moon
14	FULL MOON	29	Mercury greatest elong W(22)
15	Moon furthest South (-27.3)	30	Uranus 4.4S of Moon
July		December	
d h	d h	d h	d h
2	Regulus 4.4S of Moon	21	Saturn 0.5N of Moon
3	Moon at apogee	21	Mars 3.9S of Moon
4	Earth at aphelion	21	Mars 3.9S of Moon
6	Mercury 5.6S of Pollux	22	Mercury stationary
6	Mars 2.8S of Moon	23	Mercury 1.1N of Moon
6	FIRST QUARTER	24	Venus 5.1S of Moon
9	Mercury 0.3N of Moon	25	Moon furthest North (27.4)
9	Jupiter 0.6S of Moon	27	Pollux 1.9N of Moon
7	Spica 3.7S of Moon	28	Mercury 3.3S of Moon
10	Antares 2.2S of Moon	28	NEW MOON
12	Moon furthest South (-27.4)	28	Uranus 4.4S of Moon
13	Venus 3.2N of Aldebaran	28	Mercury superior conjunction
13	FULL MOON	29	Mercury 1.1N of Uranus
15	Moon at perigee	30	Regulus 4.2S of Moon
16	Pluto 5.8S of Moon	30	Moon at apogee
19	LAST QUARTER	30	Jupiter 3.2N of Spica
21	Neptune 1.4S of Moon	31	Uranus at conjunction
August		September	
d h	d h	d h	d h
3	Saturn 0.5N of Moon	20	Pluto at opposition
3	Mercury 3.5S of Moon	21	Mars 3.9S of Moon
3	Jupiter 0.3S of Moon	21	Moon furthest North (27.6)
4	FIRST QUARTER	23	Pollux 1.8N of Moon
7	Antares 2.0S of Moon	23	Mercury at apogee
9	Moon furthest South (-27.5)	24	Uranus 4.4S of Moon
9	Mercury 1.0N of Regulus	26	Regulus 4.2S of Moon
10	Neptune stationary	26	NEW MOON
12	FULL MOON	27	Moon at apogee
12	Pluto 5.9S of Moon	28	Mercury 4.0S of Moon
16	Moon at perigee	30	Saturn 0.8N of Moon
19	Neptune 4.6S of Moon	31	Jupiter 3.3S of Moon
18	LAST QUARTER		
September		October	
d h	d h	d h	d h
2	Venus 0.3S of Uranus	21	Uranus 4.6S of Moon
3	Antares 1.8S of Moon	22	Mercury stationary
3	FIRST QUARTER	22	Equinox
5	Moon furthest South (-27.7)	22	Regulus 4.2S of Moon
6	Mercury greatest elong E(27)	23	Moon at apogee
10	Moon at perigee	25	NEW MOON
9	FULL MOON	25	Saturn 4.3N of Spica
10	Neptune 1.8S of Moon	26	Mercury 5.3S of Moon
17	LAST QUARTER	27	Saturn 1.1N of Moon
18	Moon furthest North (27.8)	27	Spica 3.2S of Moon
18	Venus 0.3N of Regulus	27	Mars 5.9S of Pollux
19	Uranus 4.3S of Moon	27	Jupiter 0.7N of Moon
19	Pollux 1.6N of Moon	30	Antares 1.7S of Moon
October		November	
d h	d h	d h	d h
2	Venus 0.3S of Uranus	21	Uranus 4.6S of Moon
3	Antares 1.8S of Moon	22	Mercury stationary
3	FIRST QUARTER	22	Equinox
5	Moon furthest South (-27.7)	22	Regulus 4.2S of Moon
6	Mercury greatest elong E(27)	23	Moon at apogee
10	Moon at perigee	25	NEW MOON
9	FULL MOON	25	Saturn 4.3N of Spica
10	Neptune 1.8S of Moon	26	Mercury 5.3S of Moon
17	LAST QUARTER	27	Saturn 1.1N of Moon
18	Moon furthest North (27.8)	27	Spica 3.2S of Moon
18	Venus 0.3N of Regulus	27	Mars 5.9S of Pollux
19	Uranus 4.3S of Moon	27	Jupiter 0.7N of Moon
19	Pollux 1.6N of Moon	30	Antares 1.7S of Moon
November		December	
d h	d h	d h	d h
2	Moon furthest South (-27.8)	20	Saturn at conjunction
3	FIRST QUARTER	20	Moon at apogee
5	Mercury inferior conjunction	21	Mercury greatest elong W(18)
6	Pluto 5.8S of Moon	21	Mercury 6.1S of Moon
12	Moon at perigee	22	Venus 0.3S of Moon
10	Spica 3.1S of Moon	24	Spica 3.1S of Moon
11	Neptune 1.8S of Moon	24	Saturn 1.5N of Moon
13	Mercury stationary	25	NEW MOON
13	Mars furthest North (27.8)	25	Jupiter 0.3N of Moon
16	Pollux 1.5N of Moon	27	Mercury 1.6N of Venus
16	LAST QUARTER	28	Antares 1.6S of Moon
17	Mars 4.0S of Moon	29	Neptune at opposition
19	Uranus 4.6S of Moon	30	Moon furthest South (-27.9)
19	Mercury 0.2S of Venus	31	Mercury 3.9N of Spica
19	Regulus 4.3S of Moon		
December		December	
d h	d h	d h	d h
1	Venus 3.5N of Spica	16	Regulus 4.3S of Moon
1	FIRST QUARTER	17	Moon at apogee
2	Mars 1.0N of Uranus	17	Uranus stationary
2	Mercury 0.6S of Moon	18	Venus 0.1N of Jupiter
3	Mercury 5.6S of Saturn	20	Spica 3.1S of Moon
4	Jupiter at conjunction	21	Saturn 1.8N of Moon
5	Venus 0.9S of Saturn	22	Jupiter 1.9N of Moon
5	Uranus 2.3N of Moon	22	Venus 2.3N of Moon
7	Neptune 1.8S of Moon	23	Mercury superior conjunction
8	FULL MOON	23	Mercury 1.8N of Moon
10	Moon furthest North (27.8)	23	NEW MOON
12	Mercury 0.2S of Jupiter	26	Moon furthest South (-27.8)
13	Pollux 1.6N of Moon	27	Mercury 1.7S of Moon
13	Uranus 4.4S of Moon	27	Uranus 1.9S of Moon
14	Mercury 5.7S of Pollux	29	Pluto 4.2S of Moon
15	Moon at apogee	29	Mars 3.9N of Moon
15	LAST QUARTER	29	NEW MOON
18	Spica 3.0S of Moon	30	FIRST QUARTER

Краткий астрономический календарь на 2042 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Астрономические явления 2042			
January		July	
d h	d h	d h	d h
1	1	2	18
2	12	3	19
3	18	4	20
4	18	5	21
5	19	6	21
6	19	7	22
7	20	8	23
8	20	9	23
9	21	10	24
10	21	11	24
11	22	12	25
12	23	13	25
13	23	14	26
14	23	15	26
15	24	16	27
16	24	17	27
17	25	18	28
18	25	19	28
19	26	20	29
20	26	21	29
21	27	22	30
22	27	23	30
23	28	24	31
24	28	25	31
25	29	26	
26	29	27	
27	30	28	
28	30	29	
29	31	30	
30	31	31	

Краткий астрономический календарь на 2043 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Астрономические явления 2043			
January		July	
d h	d h	d h	d h
2	12	14	17
3	18	15	18
4	18	16	19
5	19	17	20
6	19	18	21
7	20	19	22
8	20	20	23
9	21	21	24
10	21	22	25
11	22	23	26
12	23	24	27
13	23	25	28
14	24	26	29
15	24	27	30
16	25	28	31
17	25	29	
18	26	30	
19	26	31	
20	27		
21	27		
22	28		
23	28		
24	29		
25	29		
26	30		
27	30		
28	31		
29	31		
30			
31			

Краткий астрономический календарь на 2048 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Краткий астрономический календарь на 2045 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Table with columns for month (January to June), day (d), hour (h), and astronomical events (e.g., FULL MOON, Earth at perihelion, Mercury superior conjunction).

Table with columns for month (January to December), day (d), hour (h), and astronomical events (e.g., Moon furthest North, Venus superior conjunction, Jupiter stationary).

Краткий астрономический календарь на 2046 год

(конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Астрономические явления 2046			
January		February	
d h	d h	d h	d h
1 13 Venus inferior conjunction	20 3 Mars 4.2N of Spica	1 7 Saturn 5.7N of Moon	20 18 Uranus 2.3N of Moon
3 1 Earth at perihelion	21 22 Pollux 4.9N of Moon	11 Moon furthest South (-27.3)	20 20 Regulus 2.0N of Moon
4 6 Antares 0.1N of Moon	Occn 21 23 Venus stationary	23 NEW MOON	20 23 FULL MOON
4 20 Saturn 5.7N of Moon	22 12 FULL MOON	7 8 Mercury 2.6S of Moon	21 4 Mercury stationary
5 5 Moon furthest South (-27.3)	23 19 Moon at perigee	8 4 Moon at apogee	21 6 Moon at perigee
5 13 Mercury 6.0S of Venus	24 9 Regulus 1.9N of Moon	6 6 Jupiter 3.9S of Moon	22 9 FULL MOON
6 16 Mercury 1.4N of Venus	24 9 Uranus 2.3N of Moon	14 3 FIRST QUARTER	24 10 Spica 2.8N of Moon
7 4 NEW MOON	21 22 Neptune stationary	15 1 Mercury greatest elong E(18)	27 16 LAST QUARTER
11 16 Jupiter 3.4S of Moon	28 8 Spica 2.9N of Moon	16 3 Moon furthest North (27.3)	27 18 Antares 0.1N of Moon
11 16 Moon at apogee	28 8 Uranus 0.3N of Regulus	18 2 Uranus at opposition	28 16 Saturn 5.5N of Moon
15 9 FIRST QUARTER	29 4 LAST QUARTER	18 9 Pollux 5.0N of Moon	28 17 Moon furthest South (-27.3)
16 7 Mercury superior conjunction	31 12 Antares 0.1N of Moon		
19 18 Moon furthest North (27.3)			
March		April	
d h	d h	d h	d h
2 20 Mercury inferior conjunction	17 19 Pollux 5.1N of Moon	1 15 Saturn stationary	16 16 Regulus 2.3N of Moon
3 12 Venus 4.8N of Moon	20 4 Uranus 2.3N of Moon	2 7 Venus 0.9S of Moon	Occn 17 18 Mars at opposition
6 23 Mercury 1.0N of Moon	Occn 20 7 Regulus 2.1N of Moon	3 12 Moon at apogee	19 2 2 Moon at perigee
7 6 Moon at apogee	20 10 Equinox	4 0 Mercury 5.0S of Moon	20 8 Spica 2.7N of Moon
7 18 NEW MOON	21 18 Moon at perigee	5 2 Jupiter 4.8S of Moon	21 12 Venus 4.8S of Moon
8 6 Jupiter 3.9S of Moon	22 9 FULL MOON	6 11 NEW MOON	23 12 Antares 0.3S of Moon
11 1 Mars stationary	23 21 Spica 2.8N of Moon	11 17 Moon furthest North (27.0)	24 4 Mars nearest to Earth
13 4 Venus greatest elong W(47)	27 2 Antares 0.0N of Moon	14 2 Pollux 5.3N of Moon	24 9 Moon furthest South (-26.9)
15 5 Mercury stationary	28 0 Moon furthest South (-27.1)	14 3 FIRST QUARTER	24 10 Saturn 5.2N of Moon
15 11 Moon furthest North (27.2)	28 1 Saturn 5.4N of Moon	15 3 Mercury 1.5S of Jupiter	26 21 Mars 3.6N of Spica
15 14 Jupiter at conjunction	29 7 LAST QUARTER	16 12 Uranus 2.3N of Moon	27 23 LAST QUARTER
15 17 FIRST QUARTER	30 6 Mercury greatest elong W(28)		
May		June	
d h	d h	d h	d h
1 4 Moon at apogee	13 18 Uranus 2.3N of Moon	4 15 NEW MOON	13 16 Mars 4.6N of Moon
2 11 Venus 5.4S of Moon	13 23 Regulus 2.5N of Moon	5 4 Moon furthest North (26.7)	14 0 Spica 3.0N of Moon
2 21 Jupiter 5.3S of Moon	16 22 Moon at perigee	6 12 Mercury 0.5S of Moon	Occn 17 6 Antares 0.4S of Moon
5 1 Uranus stationary	17 8 Mars 5.4N of Moon	7 13 Pollux 5.6N of Moon	17 22 Saturn 5.2N of Moon
5 2 Jupiter 4.8S of Moon	20 3 FULL MOON	10 0 Uranus 2.7N of Moon	18 2 Moon furthest South (-26.7)
6 2 NEW MOON	20 20 Antares 0.4S of Moon	10 4 Regulus 2.6N of Moon	18 13 FULL MOON
7 4 Neptune at conjunction	22 2 Antares 0.4S of Moon	10 15 Saturn at opposition	21 4 Solstice
8 0 Venus 0.5S of Jupiter	21 17 Saturn 5.2N of Moon	10 18 Mercury greatest elong E(24)	24 2 Mercury stationary
8 22 Moon furthest North (26.8)	21 18 Moon furthest South (-26.8)	11 1 Pluto stationary	25 16 Moon at apogee
8 23 Mercury 1.5N of Neptune	27 17 LAST QUARTER	11 Venus 0.1S of Neptune	26 10 LAST QUARTER
10 8 Mercury superior conjunction	28 22 Moon at apogee	11 15 FIRST QUARTER	30 5 Venus 4.2N of Aldebaran
11 7 Pollux 5.3N of Moon	29 20 Mars stationary	12 3 Moon at perigee	
13 10 FIRST QUARTER	30 16 Jupiter 5.8S of Moon		
July		August	
d h	d h	d h	d h
1 5 Mars 1.2N of Spica	11 12 Mars 4.2N of Moon	1 6 Pollux 5.8N of Moon	20 23 Saturn stationary
1 20 Venus 5.3S of Moon	14 13 Antares 0.3S of Moon	2 10 NEW MOON	Occn 23 1 Neptune stationary
2 12 Moon furthest North (26.7)	15 2 Saturn 5.3N of Moon	3 19 Regulus 2.7N of Moon	23 6 Mercury superior conjunction
4 1 NEW MOON	15 9 Moon furthest South (-26.7)	3 19 Uranus 3.0N of Moon	23 8 Mercury 1.3N of Regulus
4 11 Mercury 5.7S of Moon	18 0 FULL MOON	4 9 Moon at perigee	24 2 Mercury 1.0N of Uranus
4 21 Pollux 5.7N of Moon	18 14 Mercury stationary	7 8 Mercury 2.6S of Moon	24 18 LAST QUARTER
5 7 Earth at aphelion	23 10 Moon at apogee	8 4 Moon at apogee	25 0 Uranus at conjunction
7 8 Uranus 2.9N of Moon	26 3 LAST QUARTER	9 17 Mars 3.8N of Moon	25 17 Moon furthest North (26.7)
7 10 Regulus 2.7N of Moon	28 15 Mercury greatest elong W(20)	9 1 FIRST QUARTER	27 9 Pluto at opposition
7 18 Mercury inferior conjunction	29 21 Moon furthest North (26.7)	10 19 Antares 0.3S of Moon	Occn 27 17 Pollux 5.8N of Moon
7 18 Moon at perigee	31 6 Uranus 0.3N of Regulus	11 6 Saturn 5.3N of Moon	30 21 Venus 3.1N of Moon
10 19 FIRST QUARTER	31 22 Venus 1.3S of Moon	11 14 Moon furthest South (-26.7)	31 5 Regulus 2.8N of Moon
11 5 Spica 3.1N of Moon	31 23 Mercury 2.5S of Moon	16 14 FULL MOON	31 8 Uranus 3.2N of Moon
		20 1 Moon at apogee	31 18 NEW MOON
September		October	
d h	d h	d h	d h
1 8 Mercury 4.8N of Moon	22 14 Moon furthest North (26.5)	1 5 Spica 2.9N of Moon	19 19 Mercury stationary
1 14 Moon at perigee	22 20 Equinox	1 19 Mercury 2.7N of Moon	19 20 Moon furthest North (26.3)
3 19 Spica 3.0N of Moon	22 22 Mars 2.9N of Antares	4 2 Mars 2.9S of Saturn	22 20 LAST QUARTER
3 21 Venus 0.8N of Regulus	23 8 LAST QUARTER	4 8 Antares 0.5S of Moon	Occn 22 5 Neptune 0.1N of Moon
5 17 Venus 0.3N of Uranus	24 18 Mercury 0.6N of Spica	4 22 Saturn 4.8N of Moon	25 9 Uranus 3.7N of Moon
6 5 Mars 3.0N of Moon	25 2 Pollux 6.0N of Moon	4 23 Mars 1.8N of Moon	28 11 Moon at perigee
7 1 Antares 0.4S of Moon	Occn 27 16 Regulus 2.0N of Moon	5 3 Moon furthest South (-26.5)	28 16 Spica 2.9N of Moon
7 9 FIRST QUARTER	27 22 Uranus 3.4N of Moon	6 20 FIRST QUARTER	29 11 NEW MOON
7 12 Saturn 5.1N of Moon	29 19 Venus 5.8N of Moon	7 1 Jupiter at opposition	29 16 Mercury 1.9S of Venus
7 20 Moon furthest South (-26.6)	30 1 Moon at perigee	10 17 Mercury greatest elong E(25)	29 17 Mercury 3.8N of Moon
15 6 FULL MOON	30 2 NEW MOON	13 11 Moon at apogee	29 17 Venus 5.7N of Moon
16 10 Moon at apogee		14 23 FULL MOON	31 6 Mercury inferior conjunction
		15 16 Venus superior conjunction	31 18 Antares 0.8S of Moon
		17 6 Venus 3.2N of Spica	Occn
November		December	
d h	d h	d h	d h
1 8 Saturn 4.3N of Moon	17 8 LAST QUARTER	1 23 Mars 1.9S of Moon	4 Mercury 2.2S of Saturn
1 12 Moon furthest South (-26.3)	21 8 Regulus 3.0N of Moon	3 19 Venus 1.7S of Saturn	22 17 Solstice
2 21 Mars 0.1N of Moon	Occn 21 18 Uranus 4.0N of Moon	4 15 Jupiter stationary	22 9 Spica 3.1N of Moon
5 12 FIRST QUARTER	22 22 Venus 4.4N of Antares	5 7 FIRST QUARTER	23 4 Moon at perigee
9 1 Mercury stationary	25 2 Spica 3.0N of Antares	7 12 Moon at apogee	25 14 Antares 0.9S of Moon
9 19 Moon at apogee	25 17 Moon at perigee	11 3 Mercury 4.3N of Antares	26 7 Moon furthest South (-26.1)
10 4 Neptune at opposition	27 21 NEW MOON	11 23 Uranus stationary	26 18 Saturn 3.6N of Moon
13 17 FULL MOON	28 5 Antares 0.9S of Moon	13 7 Moon furthest North (26.1)	27 2 Mercury superior conjunction
16 1 Moon furthest North (26.2)	28 17 Venus 2.8N of Moon	13 9 FULL MOON	27 10 NEW MOON
16 19 Mercury greatest elong W(19)	28 23 Moon furthest South (-26.1)	17 11 Saturn at conjunction	27 11 Mercury 0.1N of Moon
20 15 Pluto stationary	29 3 Saturn 3.9N of Moon	18 13 Regulus 3.4N of Moon	28 21 Venus 1.4S of Moon
		19 0 Uranus 4.2N of Moon	31 3 Mars 3.6S of Moon
		20 14 LAST QUARTER	

Краткий астрономический календарь на 2047 год

(конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Астрономические явления 2047			
January		February	
d h	d h	d h	d h
4 5 FIRST QUARTER	21 21 Antares 0.9S of Moon	1 6 Moon at apogee	18 3 Antares 0.9S of Moon
4 9 Moon at apogee	22 15 Moon furthest South (-26.1)	3 3 FIRST QUARTER	18 20 Moon furthest South (-26.0)
5 12 Earth at perihelion	23 8 Saturn 3.3N of Moon	4 16 Mercury stationary	19 18 Saturn 3.0N of Moon
9 15 Moon furthest North (26.1)	26 1 NEW MOON	6 0 Moon furthest North (26.0)	23 1 Uranus at opposition
12 1 FULL MOON	27 3 Neptune stationary	10 14 FULL MOON	23 6 Mercury 0.7N of Moon
14 20 Regulus 3.3N of Moon	27 14 Mercury 3.0S of Moon	11 5 Regulus 3.3N of Moon	23 15 Pluto at conjunction
15 5 Uranus 4.2N of Moon	28 5 Venus 4.8S of Moon	11 12 Uranus 4.1N of Moon	24 18 NEW MOON
16 22 Moon at perigee	29 8 Mars 4.9S of Moon	13 1 Moon at perigee	25 3 Venus 0.3S of Mars
18 15 Spica 3.2N of Moon	29 11 Mercury greatest elong E(18)	14 2 Mercury inferior conjunction	26 9 Mercury stationary
18 22 LAST QUARTER		14 21 Spica 3.1N of Moon	27 12 Mars 5.3S of Moon
		17 6 LAST QUARTER	27 15 Venus 5.6S of Moon
March		April	
d h	d h	d h	d h
1 0 Moon at apogee	2 2 Moon furthest South (-25.9)	1 17 Moon furthest North (25.7)	20 23 Mars 1.9N of Neptune
4 22 FIRST QUARTER	18 8 Mars 0.9N of Jupiter	3 15 FIRST QUARTER	22 4 Jupiter at conjunction
5 9 Moon furthest North (25.9)	18 16 LAST QUARTER	7 2 Regulus 3.7N of Moon	23 15 Mercury 0.4N of Jupiter
8 10 Venus 0.9N of Jupiter	19 3 Saturn 2.7N of Moon	7 6 Uranus 4.2N of Moon	24 12 Moon at apogee
10 15 Regulus 3.6N of Moon	20 16 Equinox	10 10 FULL MOON	24 13 Mercury superior conjunction
10 21 Uranus 4.1N of Moon	24 5 Mercury 5.7S of Moon	10 15 Moon at perigee	25 0 Jupiter 5.9S of Moon
12 1 FULL MOON	26 11 NEW MOON	10 16 Spica 2.9N of Moon	25 4 NEW MOON
12 14 Mercury greatest elong W(27)	28 10 Moon at apogee	13 11 Saturn stationary	25 6 Mercury 5.1S of Moon
13 5 Moon at perigee	28 6 Mars 5.0S of Moon	13 18 Antares 1.3S of Moon	26 4 Moon furthest North (25.4)
14 6 Spica 3.0N of Moon	29 23 Venus 3.5S of Moon	14 10 Moon furthest South (-25.7)	28 22 Moon furthest North (25.5)
17 9 Antares 1.1S of Moon	Occn 30 6 Venus 2.8N of Neptune	15 11 Saturn 2.9N of Moon	29 12 Venus 0.2N of Moon
		17 3 LAST QUARTER	Occn
May		June	
d h	d h	d h	d h
1 7 Mercury 2.9N of Neptune	21 20 Moon at apogee	1 11 FIRST QUARTER	19 14 Jupiter 5.6S of Moon
3 15 FIRST QUARTER	22 4 Jupiter at conjunction	4 12 Spica 3.0N of Moon	21 10 Solstice
7 2 Regulus 3.7N of Moon	23 15 Mercury 0.4N of Jupiter	5 13 Mercury stationary	22 10 Moon furthest North (25.4)
7 6 Uranus 4.2N of Moon	24 12 Moon at apogee	6 8 Moon at perigee	22 19 Saturn at opposition
10 10 FULL MOON	24 13 Mercury superior conjunction	7 14 Antares 1.5S of Moon	23 10 NEW MOON
10 15 Moon at perigee	25 0 Jupiter 5.9S of Moon	8 6 FULL MOON	23 11 Mars 0.5S of Moon
10 16 Spica 2.9N of Moon	25 4 NEW MOON	8 6 Moon furthest South (-25.4)	23 22 Venus 3.2N of Moon
13 11 Saturn stationary	25 6 Mercury 5.1S of Moon	9 2 Moon at perigee	25 14 Mars 2.4S of Moon
13 18 Antares 1.3S of Moon	26 4 Moon furthest North (25.4)	9 11 Mercury 2.8N of Neptune	26 14 Moon furthest North (25.4)
14 10 Moon furthest South (-25.7)	28 22 Moon furthest North (25.5)	9 18 FULL MOON	26 19 Mercury 0.0N of Moon
15 11 Saturn 2.9N of Moon	29 12 Venus 0.2N of Moon	10 3 Uranus stationary	28 8 Venus greatest elong E(45)
17 3 LAST QUARTER	Occn	11 4 Antares 1.5S of Moon	28 20 Venus 3.3N of Moon
		11 20 Moon furthest South (-25.5)	29 23 Venus 3.9S of Pollux
		12 19 Saturn 2.4N of Moon	31 17 Regulus 4.1N of Moon
		16 15 LAST QUARTER	31 20 Uranus 4.5N of Moon
July		August	
d h	d h	d h	d h
1 19 Saturn stationary	19 18 NEW MOON	1 17 Mercury 2.9N of Neptune	21 20 Moon at apogee
4 8 FULL MOON	20 2 Mercury greatest elong E(26)	3 15 FIRST QUARTER	22 4 Jupiter at conjunction
9 16 Moon at apogee	21 1 Mars 0.8N of Regulus	7 2 Regulus 3.7N of Moon	23 15 Mercury 0.4N of Jupiter
10 2 Neptune 5.6S of Moon	21 16 Mercury 0.6S of Spica	7 8 Moon at apogee	24 12 Moon at apogee
10 10 Jupiter 5.0S of Moon	21 15 Spica 2.8N of Moon	10 12 Moon furthest North (25.1)	21 15 Moon at perigee
12 11 LAST QUARTER	21 15 Spica 2.8N of Moon	12 11 LAST QUARTER	21 15 Spica 2.8N of Moon
14 16 Jupiter stationary	23 2 Equinox	14 16 Jupiter stationary	23 2 Equinox
16 14 Venus 2.0S of Moon	24 18 Antares 1.9S of Moon	16 14 Venus 2.0S of Moon	24 18 Antares 1.9S of Moon
17 19 Mars 4.8N of Moon	25 9 Moon furthest South (-25.0)	17 19 Mars 4.8N of Moon	25 9 Moon furthest South (-25.0)
17 22 Regulus 4.2N of Moon	26 1 Saturn 2.1N of Moon	17 22 Regulus 4.2N of Moon	26 1 Saturn 2.1N of Moon
18 11 Uranus 4.8N of Moon	26 9 FIRST QUARTER	18 11 Uranus 4.8N of Moon	26 9 FIRST QUARTER
September		October	
d h	d h	d h	d h
1 19 Saturn stationary	19 18 NEW MOON	1 22 Mercury stationary	16 11 Mars 5.9N of Moon
4 8 FULL MOON	20 2 Mercury greatest elong E(26)	3 23 FULL MOON	16 20 Venus greatest elong W(46)
9 16 Moon at apogee	21 1 Mars 0.8N of Regulus	4 10 Neptune 5.6S of Moon	16 15 Mercury 4.8N of Moon
10 2 Neptune 5.6S of Moon	21 16 Mercury 0.6S of Spica	7 8 Moon at apogee	19 1 Spica 2.8N of Moon
10 10 Jupiter 5.0S of Moon	21 15 Spica 2.8N of Moon	7 8 Neptune 5.6S of Moon	19 3 NEW MOON
12 11 LAST QUARTER	21 15 Spica 2.8N of Moon	7 16 Jupiter 4.9S of Moon	19 10 Venus 1.1S of Uranus
14 16 Jupiter stationary	23 2 Equinox	9 17 Moon furthest North (24.9)	19 22 Moon at perigee
16 14 Venus 2.0S of Moon	24 18 Antares 1.9S of Moon	10 0 Venus 1.8S of Regulus	22 2 Antares 2.0S of Moon
17 19 Mars 4.8N of Moon	25 9 Moon furthest South (-25.0)	12 4 LAST QUARTER	22 17 Moon furthest South (-24.8)
17 22 Regulus 4.2N of Moon	26 1 Saturn 2.1N of Moon	10 0 Mercury 0.2S of Spica	23 11 Saturn 1.7N of Moon
18 11 Uranus 4.8N of Moon	26 9 FIRST QUARTER	15 6 Mercury inferior conjunction	23 17 Mercury stationary
		15 8 Regulus 4.3N of Moon	25 19 FIRST QUARTER
		15 18 Uranus 5.3N of Moon	31 4 Mercury greatest elong W(19)
		16 0 Uranus 5.1N of Moon	
November		December	
d h	d h	d h	d h
2 16 FULL MOON	16 18 Mercury 5.4N of Moon	2 11 FULL MOON	17 0 Uranus stationary
3 13 Neptune 5.6S of Moon	16 23 Jupiter 0.6N of Neptune	3 5 Moon furthest North (24.6)	17 10 Mercury 1.3S of Moon
3 16 Jupiter 4.9S of Moon	17 10 Moon at perigee	3 22 Mercury 3.8N of Antares	17 16 Saturn 0.8N of Moon
3 16 Moon at apogee	17 12 NEW MOON	5 5 Mercury superior conjunction	18 11 Mars 3.4N of Spica
4 11 Mercury 4.2N of Spica	18 13 Antares 2.2S of Moon	9 0 Regulus 4.7N of Moon	20 3 Saturn 2.7S of Saturn
5 23 Moon furthest North (24.7)	19 13 Moon furthest South (-24.7)	9 19 Uranus 5.5N of Moon	21 23 Solstice
9 0 Regulus 4.7N of Moon	20 0 Saturn 1.3N of Moon	10 8 Saturn stationary	24 1 FIRST QUARTER
10 19 LAST QUARTER	22 10 Pluto stationary	11 7 Regulus 4.6N of Moon	24 21 FIRST QUARTER
11 17 Regulus 4.6N of Moon	22 8 FIRST QUARTER	12 11 Uranus 5.3N of Moon	26 21 Venus 4.1N of Spica
12 11 Uranus 5.3N of Moon	26 21 Venus 4.1N of Spica	12 16 Neptune at opposition	30 15 Jupiter 5.1S of Moon
13 2 Jupiter at opposition	30 15 Jupiter 5.1S of Moon	13 2 Jupiter at opposition	30 16 Moon at apogee
15 12 Spica 2.8N of Moon	30 18 Neptune 5.6S of Moon	15 12 Spica 2.8N of Moon	30 18 Neptune 5.6S of Moon
December		January	
d h	d h	d h	d h
2 11 FULL MOON	17 0 Uranus stationary	1 19 Saturn stationary	19 18 NEW MOON
3 5 Moon furthest North (24.6)	17 10 Mercury 1.3S of Moon	4 8 FULL MOON	20 2 Mercury greatest elong E(26)
3 22 Mercury 3.8N of Antares	17 16 Saturn 0.8N		

Краткий астрономический календарь на 2052 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Краткий астрономический календарь на 2049 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Table of astronomical events for 2052, organized by month (January to December) and day. Includes celestial bodies like Uranus, Jupiter, Saturn, Mars, Venus, Mercury, Neptune, and the Moon, along with specific dates and times.

Table of astronomical events for 2049, organized by month (January to December) and day. Includes celestial bodies like Mars, Uranus, Saturn, Venus, Mercury, Neptune, and the Moon, along with specific dates and times.

Краткий астрономический календарь на 2050 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Астрономические явления 2050			
January		July	
d h	d h	d h	d h
1 6	Neptune 2.2S of Moon	2 0	Mercury 4.8S of Pollux
4 19	Earth at perihelion	3 3	Moon furthest South (-20.4)
5 0	Aldebaran 4.4S of Moon	4 18	FULL MOON
5 16	Moon furthest North (21.2)	6 0	Earth at aphelion
6 20	Mercury stationary	6 10	Saturn 5.4S of Moon
8 1	FULL MOON	7 2	Moon at perigee
9 3	Jupiter 4.3N of Moon	7 3	Venus 0.9N of Regulus
11 2	Moon at apogee	10 16	Mercury 0.9N of Jupiter
11 15	Regulus 5.3N of Moon	11 9	LAST QUARTER
13 7	Uranus 5.3N of Moon	14 6	Neptune 0.9S of Moon Occn
15 7	Venus 0.8S of Saturn	15 5	Aldebaran 3.6S of Moon
16 2	Spica 0.8N of Moon Occn	15 23	Moon furthest North (20.4)
16 6	LAST QUARTER	17 2	Mars stationary
		18 21	NEW MOON
February		August	
d h	d h	d h	d h
1 5	Aldebaran 4.3S of Moon	2 17	Saturn 5.4S of Moon
1 22	Moon furthest North (21.0)	3 2	FULL MOON
2 12	Neptune stationary	4 5	Moon at perigee
2 5	Jupiter 4.9N of Moon	7 18	Jupiter at conjunction
5 22	Mars 5.0N of Antares	7 20	Venus greatest elong E(46)
6 20	FULL MOON	9 16	LAST QUARTER
7 6	Moon at apogee	10 12	Mercury stationary
7 21	Regulus 5.4N of Moon	10 12	Neptune 0.7S of Moon Occn
8 1	Mercury 1.1S of Saturn	11 11	Aldebaran 3.4S of Moon
9 12	Uranus 5.4N of Moon	12 4	Moon furthest North (20.2)
12 9	Spica 0.6N of Moon Occn	14 7	Mars at opposition
March		September	
d h	d h	d h	d h
1 4	Moon furthest North (20.8)	1 1	Neptune stationary
4 3	Jupiter 5.0N of Moon	1 9	FULL MOON
5 6	Mercury superior conjunction	1 14	Moon at perigee
6 8	Moon at apogee	1 19	Pluto at opposition
7 3	Regulus 5.4N of Moon	1 20	Mercury stationary
8 15	FULL MOON	2 20	Mercury stationary
9 16	Uranus 5.3N of Moon	11 11	Venus 2.6S of Spica
9 22	Uranus at opposition	19 19	Neptune 0.5S of Moon Occn
11 15	Spica 0.4N of Moon Occn	7 17	Aldebaran 3.2S of Moon
15 21	Moon furthest South (-20.7)	8 2	LAST QUARTER
16 10	LAST QUARTER	8 10	Moon furthest North (20.0)
17 1	Mars 3.6S of Moon	10 20	Mercury 0.2S of Regulus
19 6	Saturn 5.2S of Moon	10 22	Mercury greatest elong W(18)
April		October	
d h	d h	d h	d h
2 21	Moon at apogee	2 9	Neptune 0.4S of Moon Occn
3 10	Regulus 5.3N of Moon	5 1	Aldebaran 3.1S of Moon Occn
4 20	Uranus 5.4N of Moon	5 18	Moon furthest North (19.9)
7 8	FULL MOON	6 11	Saturn stationary
7 21	Spica 0.3N of Moon Occn	7 1	Mercury superior conjunction
8 4	Mercury stationary	7 16	LAST QUARTER
12 2	Moon furthest South (-20.6)	17 17	Jupiter 5.7N of Moon
14 12	Mars 5.4S of Moon	11 11	Regulus 5.8N of Moon
14 18	LAST QUARTER	12 16	Moon at apogee
15 16	Saturn 5.4S of Moon	13 5	Mercury 2.6N of Spica
16 6	Mercury inferior conjunction	13 8	Uranus 4.6N of Moon
18 7	Venus 2.1N of Neptune	15 8	Venus 5.3S of Spica
May		November	
d h	d h	d h	d h
2 2	Uranus 5.3N of Moon	1 11	Aldebaran 3.0S of Moon
5 4	Spica 0.3N of Moon Occn	2 4	Moon furthest North (19.9)
5 21	FULL MOON	4 7	Venus stationary
9 9	Moon furthest South (-20.5)	6 9	LAST QUARTER
12 23	Saturn 5.6S of Moon	7 18	Regulus 5.4N of Moon
14 0	LAST QUARTER	7 23	Jupiter 5.7N of Moon
15 15	Moon at perigee	8 6	Moon at apogee
16 4	Mercury greatest elong W(26)	9 18	Uranus 4.6N of Moon
16 11	Mars 1.6S of Saturn	11 14	Venus 0.8N of Moon Occn
18 21	Neptune at conjunction	12 7	Spica 0.5S of Moon Occn
21	Mercury 4.9S of Moon	12 14	Mercury 2.1N of Antares
22	Saturn stationary	14 13	NEW MOON
June		December	
d h	d h	d h	d h
1 13	Spica 0.2N of Moon Occn	1 15	Mercury stationary
4 5	Mercury 0.8N of Neptune	5 2	Regulus 5.4N of Moon
9 5	FULL MOON	5 12	Jupiter 5.7N of Moon
17	Moon furthest South (-20.5)	6 6	LAST QUARTER
20	Mercury 4.6S of Pollux	7 2	Moon at apogee
4	Saturn 5.5S of Moon	7 4	Uranus 4.3N of Moon
9	Moon at perigee	9 15	Spica 0.6S of Moon Occn
11	Mercury 5.1N of Aldebaran	10 8	Venus 3.2N of Moon
12 4	LAST QUARTER	11 13	Mercury inferior conjunction
15 19	Venus 1.8N of Jupiter	13 19	Mercury 0.8S of Moon Occn
21	Pluto stationary	14 1	Moon furthest South (-19.8)
22	Neptune 1.1S of Moon Occn	14 5	NEW MOON
July		January	
d h	d h	d h	d h
1 13	Spica 0.2N of Moon Occn	1 11	Regulus 5.2N of Moon
4 5	Mercury 0.8N of Neptune	1 21	Jupiter 5.6N of Moon
9 5	FULL MOON	18 15	Mars 1.6S of Moon
17	Moon furthest South (-20.5)	3 4	Earth at perihelion
20	Mercury 4.6S of Pollux	13	Uranus 4.3N of Moon
4	Saturn 5.5S of Moon	3 23	Moon at apogee
9	Moon at perigee	5 4	LAST QUARTER
11	Mercury 5.1N of Aldebaran	6 0	Venus 0.8S of Moon Occn
12 4	LAST QUARTER	9 1	Saturn 5.1N of Moon Occn
15 19	Venus 1.8N of Jupiter	10 12	Moon furthest South (-19.7)
21	Pluto stationary	11 5	Mercury 3.6S of Moon
22	Neptune 1.1S of Moon Occn	12 18	NEW MOON

Краткий астрономический календарь на 2051 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Астрономические явления 2051			
January		July	
d h	d h	d h	d h
1 11	Regulus 5.2N of Moon	15 19	Moon at perigee
1 21	Jupiter 5.6N of Moon	18 15	Mars 1.6S of Moon
3 4	Earth at perihelion	19 12	FIRST QUARTER
13	Uranus 4.3N of Moon	21 10	Neptune 0.2S of Moon Occn
3 23	Moon at apogee	22 13	Aldebaran 2.7S of Moon
5 4	LAST QUARTER	23 8	Moon furthest North (19.6)
6 0	Venus 0.8S of Moon Occn	26 21	FULL MOON
9 1	Saturn 5.1N of Moon Occn	28 19	Regulus 5.0N of Moon
10 12	Moon furthest South (-19.7)	29 1	Jupiter 5.6N of Moon
11 5	Mercury 3.6S of Moon	30 20	Uranus 4.1N of Moon
12 18	NEW MOON	31 6	Saturn at conjunction
22	Saturn 5.7S of Moon	31 19	Moon at apogee
February		August	
d h	d h	d h	d h
2 8	Spica 1.0S of Moon Occn	17 22	FIRST QUARTER
4 1	LAST QUARTER	18 18	Aldebaran 2.5S of Moon
5 1	Neptune stationary	19 14	Jupiter at opposition
6 22	Moon furthest South (-19.5)	19 14	Moon furthest North (19.5)
7 4	Mercury 1.4S of Saturn	22 7	Jupiter 0.8N of Regulus
8 1	Venus 2.5S of Moon	25 1	Jupiter 5.8N of Moon
10 6	NEW MOON	25 2	Regulus 5.0N of Moon
11 6	NEW MOON	25 14	FULL MOON
12 19	Moon at perigee	27 1	Uranus 4.1N of Moon
15 15	Mercury superior conjunction	28 9	Moon at apogee
16 5	Mars 0.6N of Moon Occn	28 20	Pluto at conjunction
17 16	Neptune 0.0N of Moon Occn		
March		September	
d h	d h	d h	d h
1 15	Spica 1.2S of Moon	18 1	Aldebaran 2.4S of Moon
5 19	LAST QUARTER	18 20	Moon furthest North (19.3)
6 7	Moon furthest South (-19.3)	19 9	FIRST QUARTER
10 0	Venus 5.0S of Moon	19 13	Mars 2.6N of Neptune
10 6	Saturn 5.7S of Moon	20 15	Eginox
12 16	NEW MOON	20 23	Mercury stationary
13 4	Moon at perigee	24 1	Jupiter 5.9N of Moon
13 7	Venus 0.8N of Saturn	24 8	Regulus 5.0N of Moon
13 20	Mercury greatest elong E(18)	26 5	Uranus 4.1N of Moon
13 23	Mercury 0.1N of Moon Occn	27 8	FULL MOON
14 3	Uranus at opposition	27 12	Moon at apogee
16 21	Mars 2.7N of Moon	28 21	Spica 1.3S of Moon
17 0	Neptune 0.3N of Moon Occn	30 22	Mercury inferior conjunction
April		October	
d h	d h	d h	d h
2 14	Moon furthest South (-19.2)	17 22	FIRST QUARTER
4 9	LAST QUARTER	20 4	Jupiter 6.0N of Moon
6 20	Saturn 5.8S of Moon	20 14	Regulus 5.1N of Moon
8 21	Venus 4.9S of Moon	22 6	Jupiter stationary
9 22	Mercury 2.0S of Moon	22 9	Uranus 4.2N of Moon
10 16	Moon at perigee	23 15	Moon at apogee
11 1	NEW MOON	25 3	Spica 1.3S of Moon
12 8	Mercury stationary	25 20	Mercury 0.9S of Venus
13 11	Neptune 0.4N of Moon Occn	26 2	FULL MOON
14 10	Aldebaran 2.3S of Moon	28 0	Mercury greatest elong W(27)
14 14	Mars 4.3N of Moon	29 20	Moon furthest South (-19.2)
15 9	Moon furthest North (19.2)		
May		November	
d h	d h	d h	d h
3 19	LAST QUARTER	17 13	Jupiter 5.9N of Moon
4 7	Saturn 5.8S of Moon	17 21	Regulus 5.1N of Moon
8 19	Mercury 1.6S of Moon	18 5	Neptune at conjunction
8 17	Venus 2.3S of Moon	19 14	Uranus 4.2N of Moon
9 0	Moon at perigee	21 5	Moon at apogee
10 10	NEW MOON	22 10	Spica 1.4S of Moon
10 23	Neptune 0.6N of Moon Occn	25 17	FULL MOON
11 8	Mercury 1.2S of Venus	27 2	Moon furthest South (-19.2)
11 20	Aldebaran 2.3S of Moon	28 9	Mercury 1.1N of Neptune
12 15	Moon furthest North (19.2)	29 5	Uranus stationary
13 7	Mars 5.6N of Moon	31 13	Saturn 5.8S of Moon
17 13	FIRST QUARTER	31 15	Saturn stationary
June		December	
d h	d h	d h	d h
2 2	LAST QUARTER	15 22	Uranus 4.0N of Moon
5 0	Mercury 5.9N of Aldebaran	16 5	FIRST QUARTER
4 13	Mercury superior conjunction	17 14	Mars 5.5S of Pollux
5 20	Venus 0.6N of Neptune	17 22	Moon at apogee
6 0	Moon at perigee	18 11	Pluto stationary
7 11	Neptune 0.7N of Moon Occn	18 17	Spica 1.5S of Moon
7 14	Venus 1.6N of Moon	19 6	Jupiter 0.6N of Regulus
8 6	Aldebaran 2.3S of Moon	21 9	Solstice
8 19	NEW MOON	23 11	Moon furthest South (-19.2)
9 2	Moon furthest North (19.2)	24 6	FULL MOON
9 5	Mercury 4.9S of Moon	24 19	Aldebaran 2.9S of Moon
14 3	Jupiter 5.5N of Moon	27 18	Saturn 5.7S of Moon
14 5	Regulus 4.9S of Moon	29 19	Mercury 0.2N of Mars
15 12	Venus 4.8N of Aldebaran		
July		January	
d h	d h	d h	d h
1 7	LAST QUARTER	13 8	Uranus 3.7N of Moon
2 20	Moon at perigee	15 16	Moon at perigee
4 20	Neptune 0.9N of Moon Occn	15 23	FIRST QUARTER
5 14	Aldebaran 2.2S of Moon	16 1	Spica 1.7S of Moon
6 9	Earth at aphelion	20 20	Moon furthest South (-19.1)
6 12	Moon furthest North (19.2)	20 22	Venus 6.0S of Pollux
7 13	Venus 4.3N of Moon	20 20	Mercury stationary
8 4	NEW MOON	23 16	FULL MOON
10 7	Mercury 4.5N of Moon	24 22	Saturn 5.7S of Moon
10 8	Mercury greatest elong E(26)	28 1	Moon at perigee
11 14	Regulus 4.7N of Moon	29 10	Mercury 5.5S of Mars
11 21	Jupiter 5.1N of Moon	30 11	LAST QUARTER
August		February	
d h	d h	d h	d h
1 3	Neptune 1.1N of Moon Occn	14 11	Mars 0.6N of Regulus
1 20	Aldebaran 2.0S of Moon	14 16	FIRST QUARTER
2 15	Moon furthest North (19.0)	2 15	Moon furthest North (19.0)
5 6	Venus superior conjunction	17 6	Moon furthest South (-18.9)
6 15	NEW MOON	19 14	Venus 0.9N of Regulus
6 15	Venus 5.3N of Moon	21 4	Saturn 5.8S of Moon
6 16	Mercury 0.1S of Moon Occn	22 1	FULL MOON
7 5	Mercury inferior conjunction	25 9	Uranus at perigee
13 13	Mars 5.0N of Moon	25 0	Venus 0.3N of Mars
7 22	Regulus 4.8N of Moon	26 6	Mercury greatest elong W(18)
8 15	Jupiter 4.4N of Moon	28 9	Neptune 1.3N of Moon Occn
9 18	Uranus 3.6N of Moon	28 17	LAST QUARTER
9 20	Saturn at opposition	29 2	Aldebaran 1.8S of Moon
12 9	Spica 0.9S of Moon	30 1	Moon furthest North (18.9)
12 10	Moon at apogee	30 19	Venus 0.4N of Jupiter
September		March	
d h	d h	d h	d h
3 9	Pluto at opposition	13 9	FIRST QUARTER
3 13	Neptune stationary	13 14	Moon furthest South (-18.8)
3 23	Mercury 5.8N of Moon	14 16	Mercury 0.7N of Jupiter
4 5	Regulus 4.8N of Moon	16 22	Mercury 0.7N of Mars
4 5	NEW MOON	17 11	Saturn 5.9S of Moon
5 8	Mars 4.3N of Moon	18 21	Uranus at conjunction
5 10	Jupiter 4.2N of Moon	19 3	Mercury 0.8N of Uranus
5 15	Mercury 1.0N of Regulus	19 8	Mercury superior conjunction
5 23	Venus 4.1N of Moon	20 10	FULL MOON
6 5	Uranus 3.2N of Moon	21 12	Moon at perigee
6 11	Mars 0.0N of Jupiter	23 1	Eginox
8 13	Venus 0.6N of Uranus	23 17	Mars 0.2N of Uranus
8 16	Spica 2.1S of Moon	24 15	Neptune 1.3N of Moon
9 3	Jupiter at conjunction	25 8	Aldebaran 1.7S of Moon
9 3	Moon at apogee	26 6	Moon furthest North (18.8)
10 12	Mars at conjunction	27 1	LAST QUARTER
October		April	
d h	d h	d h	d h
1 11	Regulus 4.8N of Moon	18 14	Saturn stationary
1 19	Venus 2.4N of Spica	19 19	FULL MOON
1 23	Moon at perigee	19 23	Moon at perigee
3 15	Uranus 3.0N of Moon	22 0	Neptune 1.3N of Moon
4 3	Mars 2.7N of Moon	22 10	Aldebaran 1.7S of Moon
4 19	NEW MOON	23 15	Moon furthest North (18.8)
5 20	Mercury 1.9N of Spica	26 12	LAST QUARTER
5 23	Mercury 0.2S of Moon Occn	27 12	Mercury 2.1S of Venus
5 23	Spica 2.1S of Moon	28 16	Regulus 4.7N of Moon
6 9	Venus 0.1N of Moon Occn	29 16	Mercury 2.2S of Venus
6 15	Moon at apogee	30 21	Jupiter 3.4N of Moon
10 21	Moon furthest South (-18.7)	31 0	Uranus 2.9N of Moon
13 0	FIRST QUARTER		
November		May	
d h	d h	d h	d h
1 23	Mars 0.9N of Moon Occn	18 5	FULL MOON
2 4	Spica 2.2S of Moon	19 10	Neptune 1.3N of Moon Occn
2 17	Moon at apogee	19 4	Aldebaran 1.7S of Moon
3 14	NEW MOON	19 5	Mercury 3.3N of Antares
4 14	Mercury greatest elong E(23)	20 2	Moon furthest North (18.8)
5 20	Venus 4.3S of Moon	21 14	Neptune at opposition
6 7	Mars 2.8N of Spica	24 23	Regulus 4.6N of Moon
8 4	Uranus 3.8N of Antares (-18.8)	25 4	LAST QUARTER
8 4	Venus 3.8N of Antares	25 21	Mercury inferior conjunction
9 6	Jupiter 0.4N of Uranus	27 9	Uranus 2.7N of Moon
11 1	Mercury 2.0N of Antares	27 13	Jupiter 2.9N of Moon
11 4	Saturn 6.0S of Moon	28 14	Pluto stationary
11 13	FIRST QUARTER	2	

Краткий астрономический календарь на 2056 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Краткий астрономический календарь на 2053 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Table with astronomical events for 2056, organized by month (January to December). Columns include date, time (d h), and event description (e.g., Moon furthest North, Mercury conjunction).

Table with astronomical events for 2053, organized by month (January to December). Columns include date, time (d h), and event description (e.g., Moon furthest North, Mercury conjunction).

Краткий астрономический календарь на 2054 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Краткий астрономический календарь на 2055 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Астрономические явления 2054		July	
d h	January	d h	July
1	LAST QUARTER	12	Venus stationary
2	Spica 5.7S of Moon	19	Neptune 3.4N of Moon
2	Earth at perihelion	20	Aldebaran 0.3S of Moon Occn
4	Jupiter 4.1S of Moon	21	Moon furthest North (18.8)
6	Mars 5.2S of Moon	22	Mercury greatest elong E(19)
7	Venus 0.6N of Moon	23	Moon at perigee
7	Moon furthest South (-18.8)	23	FULL MOON
8	NEW MOON	24	Regulus 1.2N of Moon Occn
10	Mercury 4.8S of Moon	27	Uranus 1.0S of Moon
10	Moon at apogee	28	Mercury stationary
13	Saturn 1.6S of Moon	29	Spica 5.8S of Moon
14	Uranus stationary	30	LAST QUARTER
17	FIRST QUARTER		
February		August	
d h	February	d h	August
1	Jupiter 4.3S of Moon	16	Moon furthest North (19.2)
4	Venus 1.2N of Moon	16	Venus 3.3N of Moon
4	Moon furthest South (-18.7)	18	Aldebaran 0.2S of Moon Occn
4	Mars 4.9S of Moon	18	Moon at perigee
6	Moon at apogee	18	Mercury 2.9N of Moon
6	Mercury inferior conjunction	18	Moon at perigee
7	Mercury 1.8N of Moon	19	LAST QUARTER
7	NEW MOON	20	Regulus 0.3N of Moon Occn
9	Saturn 1.2S of Moon	20	Jupiter 4.5S of Moon
11	Neptune stationary	21	Mars 4.3S of Moon
15	FIRST QUARTER	21	Moon furthest North (19.2)
March		September	
d h	March	d h	September
1	LAST QUARTER	17	Moon at apogee
3	Moon furthest South (-18.7)	17	Regulus 0.8N of Moon Occn
4	Pluto at conjunction	16	Saturn at opposition
4	Mercury greatest elong W(27)	16	Moon at perigee
5	Venus 0.2S of Moon	17	Saturn 0.2S of Moon Occn
5	Mars 3.6S of Moon	17	Mercury 1.1N of Moon
5	Moon at apogee	17	FULL MOON
7	Mercury 2.3S of Moon	17	Equinox
7	Saturn at conjunction	18	Mercury 0.8N of Regulus
9	Saturn 0.9S of Moon Occn	18	FULL MOON
9	NEW MOON	18	Neptune 3.5N of Moon
10	Venus greatest elong W(47)	18	Uranus 2.7S of Moon
16	Neptune 3.6N of Moon	18	Aldebaran 0.4S of Moon Occn
17	Aldebaran 0.2S of Moon Occn	19	Mars 4.2N of Moon
17	FIRST QUARTER	19	Mars 4.2N of Moon
April		October	
d h	April	d h	October
2	Moon at apogee	1	Venus 1.7S of Moon
2	Mars 2.2S of Moon	16	NEW MOON
3	Venus 0.4S of Moon Occn	16	Venus 3.2N of Spica
5	Saturn 0.6S of Moon	20	Neptune 3.3N of Moon
7	Mercury 0.7N of Moon	20	Aldebaran 0.6S of Moon Occn
8	NEW MOON	21	Mars 4.8N of Moon
11	Neptune 3.5N of Moon	21	Moon furthest North (19.4)
12	Aldebaran 0.3S of Moon Occn	22	Mercury 1.1N of Uranus
13	Moon furthest North (18.8)	22	Mercury inferior conjunction
15	FIRST QUARTER	23	Mercury greatest elong W(18)
17	Mercury superior conjunction	24	FIRST QUARTER
May		November	
d h	May	d h	November
3	Mars 0.4S of Moon Occn	15	Mercury greatest elong E(22)
3	Saturn 0.3S of Moon	15	Uranus 2.0S of Moon
4	Venus 0.9N of Moon	18	Spica 6.0S of Moon
5	Mercury 3.8N of Neptune	21	FULL MOON
7	NEW MOON	21	Jupiter 3.9S of Moon
8	Neptune 3.4N of Moon	22	Mercury at opposition
9	Aldebaran 0.5S of Moon Occn	24	Moon furthest South (-19.1)
11	Moon furthest North (19.0)	25	Neptune at conjunction
12	Mars 0.4N of Saturn	26	Moon at apogee
13	Moon at perigee	28	Moon at apogee
14	FIRST QUARTER	28	Mercury stationary
15	FIRST QUARTER	29	LAST QUARTER
15	Regulus 0.8N of Moon Occn	31	Saturn 0.0N of Moon Occn
June		December	
d h	June	d h	December
1	Mars 1.9N of Moon	17	Jupiter 4.1S of Moon
1	Venus 2.7N of Moon	20	FULL MOON
5	Neptune 3.4N of Moon	20	Moon furthest South (-19.2)
5	Aldebaran 0.5S of Moon Occn	20	Mercury stationary
6	NEW MOON	21	Solstice
6	Mercury 2.3N of Moon	22	Pluto stationary
7	Moon furthest North (19.2)	24	Moon at apogee
8	Mercury inferior conjunction	25	Venus 0.2N of Neptune
8	Moon at perigee	27	Saturn 0.2N of Moon Occn
11	Regulus 0.6N of Moon	28	LAST QUARTER
12	FIRST QUARTER	29	Venus 4.2N of Aldebaran
13	Uranus stationary	30	Mars 2.9N of Moon
13	Uranus 2.2S of Moon		

Астрономические явления 2055		July	
d h	January	d h	July
3	Mars at apogee	19	Uranus stationary
4	Saturn 0.6N of Moon	19	Uranus 3.6S of Moon
5	Earth at perihelion	20	LAST QUARTER
5	Mercury greatest elong E(19)	21	Mercury inferior conjunction
6	FIRST QUARTER	23	Mars stationary
10	Neptune 3.3N of Moon	24	Jupiter 3.7S of Moon
10	Aldebaran 0.7S of Moon Occn	25	Moon furthest South (-19.8)
12	Mercury stationary	26	Mercury 1.4N of Moon
12	Moon furthest North (19.8)	27	NEW MOON
13	FULL MOON	30	Venus 0.0N of Moon Occn
15	Moon at perigee	31	Moon at apogee
16	Regulus 0.5S of Moon Occn	31	Saturn 0.9N of Moon Occn
February		August	
d h	February	d h	August
2	Mercury stationary	15	Mercury greatest elong W(26)
4	FIRST QUARTER	15	Uranus 3.5S of Moon
6	Neptune 3.4N of Moon	18	LAST QUARTER
6	Aldebaran 0.6S of Moon Occn	21	Jupiter 3.4S of Moon
8	Moon furthest North (19.8)	21	Moon furthest South (-19.8)
11	FULL MOON	24	Mercury 1.7S of Moon
11	Regulus 0.6S of Moon Occn	25	NEW MOON
12	Moon at perigee	27	Moon at apogee
13	Neptune stationary	28	Saturn 1.2N of Moon
14	Venus 0.9N of Saturn		
March		September	
d h	March	d h	September
1	Venus 3.7N of Moon	20	LAST QUARTER
1	Neptune 3.4N of Moon	20	Saturn at conjunction
5	Pluto at conjunction	20	Equinox
6	Aldebaran 0.6S of Moon Occn	20	Jupiter 3.1S of Moon
6	FIRST QUARTER	20	Moon furthest South (-19.8)
8	Moon furthest North (19.8)	26	Moon at apogee
11	Regulus 1.7S of Moon Occn	26	Mercury 0.3N of Saturn
5	Moon at perigee	27	Saturn 1.4N of Moon
13	FULL MOON	27	Mercury 2.0N of Moon
14	Uranus 3.5S of Moon	28	NEW MOON
April		October	
d h	April	d h	October
1	Mercury superior conjunction	14	Venus 3.5N of Neptune
2	Neptune 3.3N of Moon	17	Jupiter 2.8S of Moon
2	Uranus at opposition	17	Moon furthest South (-20.0)
2	Aldebaran 0.7S of Moon Occn	18	LAST QUARTER
4	Mars 5.3N of Moon	23	Moon at apogee
4	Moon furthest North (20.0)	24	Saturn 1.0N of Moon
5	FIRST QUARTER	24	Jupiter stationary
8	Regulus 0.8S of Moon Occn	26	NEW MOON
10	Moon at perigee	27	Moon furthest North (20.6)
11	Uranus 3.4S of Moon	29	Neptune 3.1N of Moon
11	FULL MOON	29	Aldebaran 0.9S of Moon Occn
May		November	
d h	May	d h	November
1	Moon furthest North (20.1)	20	Moon at apogee
2	Mars 3.6N of Moon	21	Saturn 1.9N of Moon
3	Mars 4.9S of Pollux	25	Mercury 2.3N of Moon
4	FIRST QUARTER	25	Venus greatest elong E(45)
5	Regulus 1.0S of Moon Occn	26	NEW MOON
8	Uranus 3.5S of Moon	26	Neptune 3.0N of Moon
8	Moon at perigee	26	Aldebaran 1.0S of Moon Occn
9	Mercury stationary	28	Neptune at conjunction
11	FULL MOON	29	Moon furthest North (20.3)
14	Jupiter 2.7S of Moon	30	Venus 3.9S of Pollux
14	Moon furthest South (-20.2)	30	Mars 4.4N of Moon
18	LAST QUARTER	31	Mars 1.7N of Moon
19	Mercury inferior conjunction	31	Mercury stationary
June		December	
d h	June	d h	December
1	Regulus 1.2S of Moon Occn	21	Solstice
2	FIRST QUARTER	23	Neptune 3.0N of Moon
4	Uranus 3.6S of Moon	23	Mercury 3.1N of Aldebaran
5	Moon at perigee	23	Aldebaran 1.0S of Moon Occn
9	FULL MOON	23	Mercury 2.1N of Moon
10	Jupiter 2.8S of Moon	24	Pluto stationary
11	Moon furthest South (-20.4)	24	Moon at opposition
14	Mercury greatest elong W(23)	25	NEW MOON
17	LAST QUARTER	25	Moon furthest North (20.4)
17	Moon at apogee	28	Venus 0.1S of Moon Occn
18	Saturn 2.1N of Moon	28	Mars 0.2S of Moon Occn
18	Uranus stationary	29	Regulus 1.3S of Moon
21	Mercury 1.1S of Neptune	30	Moon at perigee
July		December	
d h	July	d h	December
1	FIRST QUARTER	22	NEW MOON
2	Uranus 3.8S of Moon	22	Regulus 1.5S of Moon
2	Earth at aphelion	22	NEW MOON
3	Saturn at conjunction	22	Aldebaran 1.0S of Moon Occn
6	Mercury inferior conjunction	24	Moon at perigee
7	Mars 0.7N of Regulus	24	Moon furthest North (20.4)
7	Jupiter 3.0S of Moon	24	Mars 3.4S of Moon
8	Moon furthest South (-20.4)	25	Venus stationary
8	FULL MOON	25	Mars 4.4S of Moon
11	Mercury stationary	25	Jupiter stationary
15	Moon at apogee	27	Mercury 3.9S of Moon
15	Saturn 2.1N of Moon	29	Uranus 3.9S of Moon
15	Mercury 5.2S of Pollux	31	FIRST QUARTER
16	LAST QUARTER		

Краткий астрономический календарь на 2060 год (конфигурация Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Краткий астрономический календарь на 2057 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Table with astronomical data for 2060, organized by month (January to December). Each month includes a grid of dates (d, h) and descriptions of celestial events such as planetary conjunctions, oppositions, and stationarities.

Table with astronomical data for 2057, organized by month (January to December). Each month includes a grid of dates (d, h) and descriptions of celestial events such as planetary conjunctions, oppositions, and stationarities.

Краткий астрономический календарь на 2058 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Краткий астрономический календарь на 2059 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Table with 2 columns: January, February, March, April, May, June, July, August, September, October, November, December. Each month contains astronomical events with dates and descriptions.

Table with 2 columns: January, February, March, April, May, June, July, August, September, October, November, December. Each month contains astronomical events with dates and descriptions.

Краткий астрономический календарь на 2064 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Краткий астрономический календарь на 2061 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Table with astronomical data for 2064, including months (January to December) and celestial events like conjunctions, oppositions, and eclipses.

Table with astronomical data for 2061, including months (January to December) and celestial events like conjunctions, oppositions, and eclipses.

Краткий астрономический календарь на 2068 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Краткий астрономический календарь на 2065 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Table with 2 columns: January, February, March, April, May, June, July, August, September, October, November, December. Rows list astronomical events like Moon at perigee, Mercury superior conjunction, etc.

Table with 2 columns: January, February, March, April, May, June, July, August, September, October, November, December. Rows list astronomical events like Spica 3.0N of Moon, Earth at perihelion, etc.

Краткий астрономический календарь на 2066 год

(конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Астрономические явления 2066		
January		
d h	d h	d h
2 3	Mars 5.3S of Moon	3 Jupiter 0.7N of Uranus
3 9	FIRST QUARTER	20 18 Mercury 0.8S of Venus
5 3	Earth at perihelion	21 15 Jupiter 4.4N of Moon
7 15	Moon at apogee	21 15 Uranus 3.7N of Moon
8 22	Moon furthest North (25.5)	22 1 Antares 1.4S of Moon
9 20	Neptune 2.8S of Moon	22 15 Moon furthest South (-25.5)
10 21	Mercury superior conjunction	23 15 Moon at perigee
11 15	FULL MOON	25 20 NEW MOON
14 9	Saturn 4.5N of Moon	26 10 Venus 3.7S of Moon
14 18	Regulus 4.0N of Moon	26 15 Mercury 4.3S of Moon
18 19	Spica 3.2N of Moon	31 2 Mars 5.1S of Moon
19 3	LAST QUARTER	
February		
d h	d h	d h
2 5	FIRST QUARTER	17 23 LAST QUARTER
4 10	Moon at apogee	17 23 Uranus 3.6N of Moon
5 6	Moon furthest North (25.5)	18 4 Jupiter 4.1N of Moon
6 2	Neptune 2.8S of Moon	18 7 Antares 1.5S of Moon
10 8	FULL MOON	18 14 Mercury 4.2N of Venus
10 12	Mercury greatest elong E(18)	18 22 Moon furthest South (-25.4)
11 15	Saturn 4.4N of Moon	20 0 Moon at perigee
11 0	Regulus 4.0N of Moon	24 8 NEW MOON
12 11	Saturn at opposition	24 15 Mercury 0.4S of Moon Occn
15 1	Spica 3.1N of Moon	25 13 Venus 6.0S of Moon
15 15	Mercury stationary	26 7 Mercury inferior conjunction
March		
d h	d h	d h
1 2	Mars 4.2S of Moon	17 13 Antares 1.7S of Moon
4 2	FIRST QUARTER	17 13 Jupiter 3.8N of Moon
4 7	Moon at apogee	18 4 Moon furthest South (-25.2)
4 14	Moon furthest North (25.3)	18 15 Pluto at conjunction
5 10	Neptune 2.7S of Moon	18 19 LAST QUARTER
9 17	Saturn 4.4N of Moon	19 11 Jupiter 5.5N of Antares
10 2	Neptune stationary	20 7 Equinox
10 8	Uranus stationary	23 16 Mercury 4.9S of Moon
10 9	Regulus 4.0N of Moon	25 10 Mercury greatest elong W(28)
10 15	Mercury stationary	25 22 NEW MOON
11 22	FULL MOON	26 22 Jupiter stationary
14 7	Spica 2.8N of Moon	27 19 Venus 5.2S of Moon
16 20	Moon at perigee	30 1 Mars 2.9S of Moon
17 4	Uranus 3.4N of Moon	31 22 Moon furthest North (25.1)
April		
d h	d h	d h
1 3	Moon at apogee	13 19 Jupiter 3.7N of Moon
1 18	Neptune 2.4S of Moon	14 10 Moon furthest South (-25.0)
2 23	FIRST QUARTER	17 2 LAST QUARTER
3 10	Jupiter 5.8N of Antares	21 Saturn stationary
6 0	Saturn 4.5N of Moon	24 12 NEW MOON
6 18	Regulus 4.2N of Moon	27 4 Venus 1.9S of Moon
10 9	FULL MOON	27 23 Mars 1.1S of Moon Occn
10 16	Spica 2.8N of Moon	28 5 Moon furthest North (24.9)
12 22	Moon at perigee	28 19 Moon at apogee
13 10	Uranus 3.2N of Moon	29 2 Neptune 2.2S of Moon
13 19	Antares 1.9S of Moon	
May		
d h	d h	d h
2 16	FIRST QUARTER	19 11 Mars 2.2N of Neptune
3 8	Saturn 4.6N of Moon	24 3 NEW MOON
4 3	Regulus 4.4N of Moon	24 3 Uranus at opposition
5 10	Mercury superior conjunction	25 11 Moon furthest North (24.8)
8 2	Spica 2.8N of Moon	25 23 Mercury 0.9N of Moon Occn
9 18	FULL MOON	26 6 Moon at apogee
10 18	Uranus 3.1N of Moon	26 11 Neptune 1.9S of Moon
10 20	Jupiter 3.7N of Moon	26 20 Jupiter at opposition
11 4	Moon at perigee	26 20 Mars 0.7N of Moon Occn
11 4	Antares 2.0S of Moon	27 11 Venus 2.3N of Moon
11 16	Moon furthest South (-24.9)	28 21 Mercury 3.3N of Neptune
14 0	Venus 0.6N of Mars	30 18 Saturn 4.3N of Moon
16 10	LAST QUARTER	31 11 Regulus 4.5N of Moon
16 22	Venus 2.8N of Neptune	
June		
d h	d h	d h
1 1	FIRST QUARTER	21 17 Moon furthest North (24.7)
1 12	Spica 2.9N of Moon	22 10 Moon at apogee
5 18	Mercury greatest elong E(24)	22 19 Neptune 1.8S of Moon
6 3	Venus 4.6S of Pollux	22 19 NEW MOON
7 3	Uranus 3.2N of Moon	22 20 Neptune at conjunction
7 5	Jupiter 3.8N of Moon	23 22 Mercury 2.1S of Moon
7 15	Antares 2.1S of Moon	24 16 Mars 2.5N of Moon
8 2	FULL MOON	24 18 Jupiter 0.7N of Uranus
8 4	Moon furthest South (-24.8)	25 1 Mars 5.5S of Pollux
8 9	Moon at perigee	26 15 Venus 5.1N of Moon
14 19	LAST QUARTER	27 4 Saturn 5.0N of Moon
19 1	Mercury stationary	27 17 Regulus 4.6N of Moon
21 0	Solstice	30 17 FIRST QUARTER
July		
d h	d h	d h
1 21	Spica 3.0N of Moon	19 16 Moon at apogee
2 9	Mercury inferior conjunction	20 3 Neptune 1.6S of Moon
3 5	Venus 0.2N of Saturn	20 16 Mercury 3.0S of Moon
4 11	Jupiter 3.9N of Moon	22 10 NEW MOON
4 12	Uranus 3.2N of Moon	23 10 Mars 4.0N of Moon
5 2	Antares 2.1S of Moon	23 21 Mercury greatest elong W(20)
5 6	Earth at aphelion	24 16 Saturn 5.2N of Moon
5 15	Moon furthest South (-24.7)	24 23 Regulus 4.0N of Moon
6 19	Moon at perigee	26 10 Venus 5.0N of Moon
7 9	FULL MOON	26 10 Jupiter stationary
7 9	Pluto stationary	29 3 Spica 3.0N of Moon
8 16	Venus 0.3N of Regulus	30 2 FIRST QUARTER
13 11	Mercury stationary	31 18 Jupiter 3.8N of Moon
14 6	LAST QUARTER	31 19 Uranus 3.2N of Moon
18 22	Moon furthest North (24.7)	
August		
d h	d h	d h
1 10	Antares 2.2S of Moon	21 5 Mars 5.2N of Moon
1 23	Moon furthest South (-24.6)	21 5 Mercury 5.8N of Moon
3 2	Venus greatest elong E(46)	21 5 Regulus 4.5N of Moon
4 3	Moon at perigee	21 5 Saturn 5.4N of Moon
5 17	FULL MOON	21 9 Mars 0.2S of Saturn
9 23	Uranus stationary	21 13 Mars 0.7N of Regulus
12 21	LAST QUARTER	22 7 Saturn 0.9N of Regulus
15 5	Moon furthest North (24.6)	23 17 Saturn at conjunction
16 5	Moon at apogee	24 16 Venus 1.7N of Moon
16 11	Neptune 1.5S of Moon	25 9 Spica 2.8N of Moon
18 20	Mercury superior conjunction	27 9 Mars at conjunction
20 21	Mercury 0.6N of Mars	28 2 Uranus 3.1N of Moon
21 0	NEW MOON	28 3 Jupiter 3.5N of Moon
21 1	Mercury 0.4N of Saturn	28 8 FIRST QUARTER
21 3	Mercury 1.3N of Regulus	28 17 Antares 2.3S of Moon
21 4	Jupiter 0.3N of Uranus	29 6 Moon furthest South (-24.5)
September		
d h	d h	d h
1 1	Moon at perigee	21 14 Pluto at opposition
4 1	FULL MOON	21 15 Spica 2.6N of Moon
10 12	Venus 3.8S of Spica	21 18 Venus 2.7S of Moon
11 13	Moon furthest North (24.4)	22 26 Equinox
11 14	LAST QUARTER	23 9 Mercury 0.3N of Spica
12 20	Neptune 1.3S of Moon	24 8 Uranus 2.8N of Moon
12 21	Moon at apogee	24 14 Jupiter 3.0N of Moon
12 17	Regulus 4.6N of Moon	24 17 Mercury 5.7N of Venus
17 19	Saturn 5.6N of Moon	24 22 Antares 2.5S of Moon
18 22	Mars 5.9N of Moon	25 12 Moon furthest South (-24.3)
19 13	NEW MOON	26 14 FIRST QUARTER
19 17	Venus stationary	27 12 Moon at perigee
21 10	Mercury 3.3N of Moon	
October		
d h	d h	d h
2 17	Mercury greatest elong E(26)	18 23 Spica 2.6N of Moon
4 12	FULL MOON	19 15 NEW MOON
7 0	Neptune stationary	20 3 Mercury 1.2N of Moon Occn
8 21	Moon furthest North (24.2)	21 17 Uranus 2.5N of Moon
10 5	Neptune 1.1S of Moon Occn	22 4 Jupiter 2.4N of Moon
10 17	Moon at apogee	22 5 Antares 2.7S of Moon
11 9	LAST QUARTER	22 18 Moon at perigee
11 23	Venus inferior conjunction	22 18 Moon furthest South (-24.2)
14 21	Regulus 4.8N of Moon	23 4 Jupiter 5.0N of Antares
15 6	Mercury stationary	25 9 Venus 5.9S of Mars
15 9	Saturn 6.0N of Moon	25 20 FIRST QUARTER
17 16	Mars 6.0N of Moon	26 23 Mercury inferior conjunction
18 7	Venus 1.6S of Moon	30 11 Venus stationary
November		
d h	d h	d h
2 2	FULL MOON	15 3 Spica 2.6N of Moon
4 15	Mercury stationary	15 11 Mars 5.4N of Moon
5 5	Moon furthest North (24.1)	17 13 NEW MOON
6 12	Neptune 0.9S of Moon Occn	18 5 Uranus 2.3N of Moon
7 14	Moon at apogee	18 13 Antares 2.8S of Moon
10 5	LAST QUARTER	18 22 Jupiter 1.7N of Moon
10 12	Regulus 4.8N of Moon	19 2 Moon furthest South (-24.0)
12 5	Mercury greatest elong W(19)	19 11 Moon at perigee
13 16	Mars 2.9N of Spica	24 5 FIRST QUARTER
14 14	Venus 4.5N of Moon	27 23 Uranus at conjunction
December		
d h	d h	d h
1 12	Venus 3.9N of Spica	16 19 Jupiter 1.0N of Moon Occn
1 19	FULL MOON	16 19 Mercury 0.4S of Moon Occn
2 12	Moon furthest North (24.0)	16 19 Mercury 1.4S of Jupiter
3 18	Neptune 0.9S of Moon Occn	17 0 NEW MOON
5 7	Moon at apogee	17 19 Moon at perigee
6 14	Mercury 0.1S of Uranus	18 11 Pluto stationary
8 14	Regulus 5.0N of Moon	21 10 Mercury superior conjunction
9 5	Mercury 4.3N of Antares	21 13 Solstice
10 2	LAST QUARTER	22 4 Saturn stationary
12 19	Spica 2.7N of Moon	22 20 Venus greatest elong W(47)
13 12	Jupiter at conjunction	23 16 FIRST QUARTER
14 6	Mars 4.3N of Moon	24 9 Neptune at opposition
15 19	Uranus 2.1N of Moon	29 18 Moon furthest North (23.9)
16 0	Antares 2.3S of Moon	30 23 Neptune 0.9S of Moon Occn
16 13	Moon furthest South (-23.9)	31 14 FULL MOON
		31 14 EQUINOX

Краткий астрономический календарь на 2067 год

(конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Астрономические явления 2067		
January		
d h	d h	d h
1 14	Moon at apogee	15 7 Moon at perigee
3 17	Earth at perihelion	15 11 NEW MOON
4 20	Regulus 5.0N of Moon	16 13 Mercury 5.0S of Moon
6 22	Venus 2.7N of Mars	19 14 Mars 0.2N of Uranus
8 16	LAST QUARTER	22 4 Mars 4.8N of Antares
9 4	Spica 2.7N of Moon	22 6 FIRST QUARTER
12 0	Mars 2.0N of Moon	24 23 Mercury greatest elong E(19)
12 4	Venus 4.3N of Moon	26 0 Moon furthest North (23.8)
12 8	Uranus 1.9N of Moon	27 4 Neptune 0.9S of Moon Occn
12 11	Antares 3.0S of Moon	28 14 Moon at apogee
12 23	Moon furthest South (-23.8)	30 10 FULL MOON
13 17	Jupiter 0.3N of Uranus	31 7 Mercury stationary
14 7	Venus 2.8N of Uranus	
February		
d h	d h	d h
2 2	Regulus 5.0N of Moon	12 19 Moon at perigee
4 15	Venus 1.6N of Jupiter	13 8 Mercury 0.2S of Moon Occn
5 10	Spica 2.6N of Moon	13 21 NEW MOON
7 6	LAST QUARTER	20 23 FIRST QUARTER
8 19	Uranus 1.7N of Moon	21 20 Mercury stationary
8 3	Antares 3.3S of Moon	22 6 Moon furthest North (23.7)
9	Moon furthest South (-23.7)	23 Neptune 0.7S of Moon Occn
9 17	Mars 0.4N of Moon	25 2 Moon at apogee
9 18	Mercury inferior conjunction	26 2 Saturn at opposition
10 12	Jupiter 0.3S of Moon	28 9 Regulus 4.9N of Moon
10 22	Venus 0.4N of Moon	Occn
March		
d h	d h	d h
4 1	FULL MOON	13 9 Mercury 5.7S of Moon
3 19	Mars 0.6S of Jupiter	15 1 Uranus stationary
4 16	Spica 2.4N of Moon	15 8 NEW MOON
7 18	Mercury greatest elong W(27)	20 0 Pluto at conjunction
8 2	Uranus 1.5N of Moon	20 12 Equinox
8 3	Antares 3.3S of Moon	21 14 Moon furthest North (23.5)
8 16	LAST QUARTER	22 17 Neptune 0.5S of Moon Occn
8 16	Moon furthest South (-23.6)	22 18 FIRST QUARTER
10 3	Jupiter 0.9S of Moon	24 20 Moon at apogee
10 9	Mars 2.0S of Moon	27 16 Regulus 5.1N of Moon
12 12	Neptune stationary	30 20 FULL MOON
12 17	Venus 4.1S of Moon	31 22 Spica 2.3N of Moon
13 0	Moon at perigee	
April		
d h	d h	d h
4 7	Uranus 1.3N of Moon	19 2 Neptune 0.2S of Moon Occn
4 8	Antares 3.5S of Moon	20 6 Mercury superior conjunction
4 21	Moon furthest South (-23.4)	21 14 FIRST QUARTER
6 14	Jupiter 1.4S of Moon	21 16 Moon at apogee
6 23	LAST QUARTER	24 0 Regulus 5.2N of Moon
8 0	Mars 4.2S of Moon	28 7 Spica 2.2N of Moon
9 5	Moon at perigee	29 8 FULL MOON
13 19	NEW MOON	29 17 Jupiter stationary
17 23	Moon furthest North (23.3)	
May		
d h	d h	d h
1 12	Uranus 1.2N of Moon	Occn 19 10 Moon at apogee
1 15	Antares 3.6S of Moon	21 8 FIRST QUARTER
2 3	Moon furthest South (-23.2)	21 9 Regulus 5.4N of Moon
3 21	Jupiter 1.7S of Moon	25 16 Spica 2.2N of Moon
4 4	Moon at perigee	28 18 FULL MOON
4 15	LAST QUARTER	28 19 Uranus 1.2N of Moon Occn
6 8	Saturn stationary	28 23 Antares 4.7S of Moon
11 12	Venus 5.6S of Moon	29 12 Moon furthest South (-23.1)
13 7	NEW MOON	29 12 Uranus at opposition
13 3	Mercury 1.9N of Moon	31 2 Jupiter 1.7S of Moon
15 7	Moon furthest North (23.2)	31 7 Moon at perigee
16 12	Neptune 0.0N of Moon	31 9 Mercury stationary
18 11	Mercury greatest elong E(22)	
June		
d h	d h	d h
4 10	LAST QUARTER	21 5 Solstice
10 15	Venus 2.1S of Moon	22 1 Spica 2.3N of Moon
11 14	Moon furthest North (23.1)	24 4 Mercury stationary
11 20	NEW MOON	25 4 Uranus 1.2N of Moon
11 22	Mercury 2.9S of Moon	25 10 Antares 3.7S of Moon
12 8	Mercury inferior conjunction	25 10 Neptune at conjunction
12 21	Neptune 0.1N of Moon	Occn 25 21 Moon furthest South (-23.1)
14 14	Venus 4.8N of Aldebaran	27 2 FULL MOON
16 2	Moon at apogee	27 6 Jupiter 1.5S of Moon
17 16	Regulus 5.4N of Moon	28 9 Moon at perigee
20 0	FIRST QUARTER	29 12 Jupiter at opposition
20 10	Mercury 4.0S of Venus	
July		
d h	d h	d h
3 17	LAST QUARTER	15 10 Mercury 0.0N of Neptune
3 20	Venus 1.2N of Neptune	15 9 Spica 2.2N of Moon
6 1	Mercury greatest elong W(21)	19 13 FIRST QUARTER
7 3	Earth at aphelion	20 0 Venus 5.8S of Pollux
8 19	Pluto stationary	22 12 Uranus 1.2N of Moon Occn
8 20	Moon furthest North (23.1)	22 20 Antares 3.8S of Moon
9 14	Mercury 1.7S of Moon	23 8 Moon furthest South (-23.0)
10 5	Neptune 0.2N of Moon	Occn 24 12 Jupiter 1.3S of Moon
10 22	Venus 2.4N of Moon	25 22 Mercury 5.8S of Pollux

Краткий астрономический календарь на 2072 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Краткий астрономический календарь на 2069 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Table with astronomical data for 2072, organized by month (January to June) and day. Columns include date, event name, and time. Events include planetary conjunctions, oppositions, and stationarities.

Table with astronomical data for 2069, organized by month (January to June) and day. Columns include date, event name, and time. Events include planetary conjunctions, oppositions, and stationarities.

Краткий астрономический календарь на 2070 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Астрономические явления 2070		July	
January		d h	d h
2 13 Mercury stationary	13 10 Mercury greatest along W(24)	1 10 LAST QUARTER	14 8 Mars 0.8N of Regulus
3 3 Earth at perihelion	14 10 Venus stationary	2 4 Neptune at conjunction	14 8 Saturn 3.1N of Moon
4 7 LAST QUARTER	16 21 Jupiter 4.4S of Moon	2 14 Jupiter 0.8S of Moon	15 3 FIRST QUARTER
4 10 Mars stationary	19 18 FIRST QUARTER	5 16 Aldebaran 1.7S of Moon	15 6 Spica 2.4S of Moon
4 16 Saturn 3.5N of Moon	22 2 Mars 5.3N of Moon	6 15 Venus 3.2N of Moon	19 20 Moon at apogee
5 4 Spica 1.5S of Moon	22 15 Aldebaran 2.2S of Moon	6 11 Earth at aphelion	19 22 Uranus 4.4S of Moon
7 5 Moon at apogee	23 3 Moon at perigee	6 15 Moon furthest North (-18.8)	20 8 Moon furthest South (-18.8)
9 18 Mercury 3.4S of Venus	23 11 Moon furthest North (19.2)	6 18 Moon at perigee	23 6 FULL MOON
9 22 Uranus 3.9S of Moon	24 13 Neptune 3.7N of Moon	7 16 Neptune 4.0N of Moon	23 8 Mercury greatest along E(27)
10 1 Moon furthest South (-19.3)	24 13 FULL MOON	8 1 NEW MOON	24 8 Venus 0.8N of Neptune
10 9 Venus 1.4N of Moon	28 6 Regulus 4.7N of Moon	9 16 Mercury 5.9N of Moon	26 22 Mercury 2.1S of Regulus
10 10 Mercury 2.2S of Moon	28 20 Saturn stationary	10 23 Mars 5.1N of Moon	30 1 Jupiter 0.5S of Moon Occn
12 11 NEW MOON		11 2 Regulus 4.8N of Moon	30 17 LAST QUARTER
		11 20 Pluto stationary	
February		August	
d h	d h	d h	d h
1 2 Saturn 3.4N of Moon	18 2 FIRST QUARTER	0 16 Aldebaran 1.5S of Moon	16 13 Mercury 5.2S of Regulus
1 12 Spica 1.7S of Moon	18 21 Aldebaran 2.0S of Moon	3 0 Moon furthest North (18.7)	16 16 Moon furthest North (-18.6)
4 LAST QUARTER	18 22 Mars 5.9N of Moon	3 20 Moon at perigee	19 7 Jupiter stationary
4 1 Moon at apogee	19 18 Moon furthest North (19.0)	4 3 Neptune 4.1N of Moon	19 7 Mercury inferior conjunction
6 9 Uranus 4.1S of Moon	20 20 Neptune 3.8N of Moon	5 2 Venus 5.2N of Moon	21 19 FULL MOON
6 10 Moon furthest South (-19.1)	24 15 Regulus 4.7N of Moon	5 13 Mercury stationary	26 8 Jupiter 0.4S of Moon Occn
7 11 Venus 0.3N of Moon	25 2 FULL MOON	6 8 NEW MOON	27 9 Mercury 3.9S of Venus
7 11 NEW MOON	28 9 Saturn 3.4N of Moon	7 12 Regulus 4.2N of Moon	28 9 Uranus stationary
13 13 Jupiter 3.8S of Moon	28 13 Mercury superior conjunction	7 28 22 LAST QUARTER	28 22 LAST QUARTER
17 16 Moon at perigee	28 21 Spica 1.9S of Moon	8 16 Mars 5.6N of Moon	29 5 Mercury stationary
		10 20 Saturn 2.6N of Moon	29 6 Aldebaran 1.3S of Moon
		11 15 Spica 2.6S of Moon	30 7 Moon furthest North (18.5)
		13 7 NEW MOON	30 22 Moon at perigee
		15 17 Moon apogee	31 12 Neptune 4.2N of Moon
		16 4 Uranus 4.6S of Moon	
March		September	
d h	d h	d h	d h
2 22 Moon at apogee	18 23 Moon furthest North (18.9)	2 12 Venus 0.8N of Regulus	13 0 Moon furthest South (-18.5)
5 2 LAST QUARTER	19 9 FIRST QUARTER	3 10 Mercury 3.4N of Moon	20 7 FULL MOON
5 17 Venus greatest along W(47)	20 1 Neptune 4.0N of Moon	3 21 Regulus 4.2N of Moon	22 15 Jupiter 0.6S of Moon Occn
5 18 Moon furthest South (-18.9)	20 6 Equinox	4 1 Venus 4.1S of Moon	22 15 Equinox
5 19 Uranus 4.4S of Moon	23 3 Pluto at conjunction	4 18 NEW MOON	24 22 Moon at perigee
8 22 Venus 2.7S of Moon	23 22 Regulus 4.7N of Moon	6 10 Mars 1.7N of Moon	25 12 Aldebaran 1.3S of Moon Occn
10 1 Mercury 0.7N of Jupiter	26 0 Jupiter at conjunction	6 10 Mercury greatest along W(18)	26 4 Pluto at opposition
12 15 NEW MOON	26 1 Mercury greatest along E(19)	7 10 Saturn 4.2N of Moon	26 12 Moon furthest North (18.5)
13 9 Jupiter 3.1S of Moon	26 17 FULL MOON	7 23 Spica 2.8S of Moon	27 4 LAST QUARTER
13 13 Mercury 1.9S of Moon	27 13 Saturn 3.5N of Moon	10 6 Mercury 0.4N of Regulus	27 18 Neptune 4.3N of Moon
15 18 Moon at perigee	28 1 Uranus stationary	12 11 Moon at apogee	29 1 Mercury 0.1N of Venus
18 2 Aldebaran 1.8S of Moon	28 5 Spica 2.0S of Moon	12 12 Uranus 4.7S of Moon	30 1 Mars 1.8S of Saturn
18 20 Neptune stationary	31 17 Moon at apogee	12 13 FIRST QUARTER	
April		October	
d h	d h	d h	d h
2 2 Moon furthest South (-18.8)	15 6 Mars 2.8N of Neptune	1 5 Regulus 4.2N of Moon	15 20 Venus 1.1S of Saturn
2 3 Uranus 4.5S of Moon	15 6 Moon furthest North (18.8)	2 3 Mercury superior conjunction	14 8 Mercury 0.3S of Mars
3 4 Mercury stationary	16 7 Neptune 4.1N of Moon	4 4 Venus 1.3N of Moon	15 10 Saturn at conjunction
3 21 LAST QUARTER	17 17 FIRST QUARTER	4 NEW MOON	15 22 Neptune stationary
5 14 Saturn at opposition	20 4 Regulus 4.8N of Moon	4 10 Mercury 1.4N of Moon	15 22 Venus 3.1N of Spica
5 18 Venus 4.2S of Moon	23 16 Saturn 3.7N of Moon	5 1 Saturn 1.8N of Moon	17 14 Jupiter at opposition
10 6 Jupiter 2.5S of Moon	24 12 Spica 2.0S of Moon	5 6 Mars 0.3S of Moon	19 14 Jupiter 0.9S of Moon Occn
11 2 NEW MOON	25 9 FULL MOON	5 18 Spica 2.8S of Moon	19 18 FULL MOON
11 8 Mercury 2.5N of Moon	25 15 Mercury stationary	6 18 Mars 2.4N of Spica	19 18 Moon at perigee
12 16 Moon at perigee	28 6 Moon at apogee	8 12 Venus superior conjunction	22 19 Aldebaran 1.3S of Moon Occn
13 4 Mercury inferior conjunction	29 9 Moon furthest South (-18.8)	9 8 Mercury 1.7S of Saturn	23 19 Moon furthest North (18.5)
14 10 Aldebaran 1.8S of Moon	29 9 Uranus 4.5S of Moon	9 21 Uranus 4.8S of Moon	25 0 Neptune 4.3N of Moon
		10 6 Moon at apogee	25 10 LAST QUARTER
		10 8 Moon furthest South (-18.4)	26 16 Venus 0.6N of Mars
		11 5 Mercury 2.4N of Spica	28 11 Regulus 4.2N of Moon
		12 8 FIRST QUARTER	
May		November	
d h	d h	d h	d h
3 13 LAST QUARTER	13 17 Neptune 4.0N of Moon	1 14 Saturn 1.5N of Moon	18 5 FULL MOON
7 15 Venus 3.1S of Moon	15 2 Venus 0.7S of Jupiter	11 15 Spica 2.9S of Moon	19 4 Aldebaran 1.3S of Moon Occn
8 3 Jupiter 1.9S of Moon	17 2 FIRST QUARTER	2 22 NEW MOON	19 8 Moon at perigee
8 6 Aldebaran 1.8S of Moon	17 4 Regulus 4.7N of Moon	3 3 Mars 2.3S of Moon	20 4 Moon furthest North (18.6)
10 11 NEW MOON	20 19 Saturn 3.7N of Moon	3 13 Venus 2.2S of Moon	21 7 Neptune 4.1N of Moon
10 1 Moon at perigee	21 18 Spica 2.1S of Moon	4 6 Saturn 4.3N of Spica	21 14 Venus 4.4N of Antares
11 4 Mercury greatest along W(26)	25 1 FULL MOON	4 16 Mercury 5.8S of Moon	23 0 Mercury 2.1S of Uranus
11 19 Aldebaran 1.8S of Moon	25 10 Moon at apogee	6 7 Uranus 4.8S of Moon	24 16 Regulus 4.1N of Moon
12 16 Moon furthest North (18.9)	26 13 Uranus 4.4S of Moon	6 16 Moon furthest South (-18.5)	24 20 LAST QUARTER
14 Mars 5.1S of Pollux	26 16 Moon furthest South (-18.9)	7 11 Moon at apogee	27 7 Mercury stationary
		10 18 Mars at conjunction	28 21 Spica 3.0S of Moon
		11 3 FIRST QUARTER	29 2 Saturn 1.2N of Moon Occn
		11 8 Mercury 2.0N of Antares	30 1 Mercury 0.8S of Uranus
		15 20 Jupiter 1.0S of Moon	30 19 Mercury 0.1S of Venus
		17 6 Mercury greatest along E(23)	
June		December	
d h	d h	d h	d h
2 1 LAST QUARTER	15 21 Mercury superior conjunction	1 5 Venus 0.5S of Uranus	17 16 FULL MOON
4 23 Jupiter 1.3S of Moon	15 21 Saturn stationary	2 2 Mars 4.0S of Moon	17 17 Moon furthest North (18.6)
6 11 Venus 0.0N of Moon	17 0 Saturn 3.5N of Moon	2 16 NEW MOON	17 19 Moon at perigee
6 2 Mercury 3.2N of Moon	18 0 Spica 2.2S of Moon	3 11 Mercury 4.4S of Moon	18 17 Neptune 4.0N of Moon
8 6 Aldebaran 1.8S of Moon	20 23 Solstice	3 17 Uranus 4.8S of Moon	21 15 Solstice
8 18 NEW MOON	22 17 Uranus 4.3S of Moon	3 23 Moon furthest South (-18.6)	22 0 Regulus 3.9N of Moon
9 3 Moon furthest North (18.9)	22 22 Mercury 2.6N of Neptune	4 0 Venus 5.5S of Moon	22 3 Pluto stationary
9 6 Mercury 5.3N of Aldebaran	23 0 Moon furthest South (-18.9)	4 13 Moon at apogee	24 9 LAST QUARTER
10 4 Neptune 4.0N of Moon	23 16 FULL MOON	7 6 Mercury inferior conjunction	25 3 Spica 3.2S of Moon
12 2 Uranus at opposition	28 22 Venus 4.3N of Aldebaran	10 20 FIRST QUARTER	25 13 Saturn 0.8N of Moon Occn
12 17 Regulus 4.8N of Moon	29 22 Mercury 4.8S of Pollux	11 10 Mercury 2.7N of Mars	26 15 Mercury greatest along W(22)
15 13 FIRST QUARTER		11 21 Mars 4.3N of Antares	30 12 Mercury 3.0S of Moon
		13 3 Jupiter 0.8S of Moon	30 23 Mars 0.4S of Uranus
		15 1 Jupiter stationary	31 2 Uranus 4.8S of Moon
		15 8 Uranus at conjunction	31 3 Mars 5.2S of Moon
		16 16 Aldebaran 1.2S of Moon	31 7 Moon furthest South (-18.6)
		17 3 Mercury stationary	31 14 Moon at apogee

Краткий астрономический календарь на 2071 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Астрономические явления 2071		July	
January		d h	d h
d h	d h	1 9 Regulus 3.1N of Moon	18 13 Mercury stationary
1 12 NEW MOON	16 10 FULL MOON	4 10 FIRST QUARTER	20 8 LAST QUARTER
2 3 Neptune at opposition	18 10 Regulus 3.7N of Moon	4 18 Neptune at conjunction	22 14 Mars 3.3N of Moon
5 6 Mercury 0.8N of Uranus	22 10 Spica 3.4S of Moon	4 23 Earth at aphelion	22 17 Jupiter 3.9N of Moon
5 11 Earth at perihelion	22 23 Saturn 0.6N of Moon	5 8 Spica 4.1S of Moon	23 11 Aldebaran 0.7S of Moon Occn
5 11 FIRST QUARTER	23 2 LAST QUARTER	5 9 Mercury greatest along E(26)	24 19 Moon furthest North (18.4)
9 13 Jupiter 0.3S of Moon	27 12 Uranus 5.0S of Moon	5 9 Saturn 0.5N of Moon	24 25 Neptune 4.0N of Moon
10 18 Mercury 0.5N of Mars	27 15 Moon furthest South (-18.5)	7 6 Venus stationary	26 4 Mars 0.1N of Jupiter
12 18 Aldebaran 1.1S of Moon	27 21 Moon at apogee	10 5 Uranus 5.1S of Moon	26 17 Moon at perigee
14 5 Moon furthest North (18.5)	29 5 Mars 5.7S of Moon	10 15 Moon furthest South (-18.4)	27 0 NEW MOON
15 3 Neptune 4.1N of Moon	31 7 NEW MOON	12 18 FULL MOON	27 9 Venus 2.1S of Moon
15 8 Moon at perigee		12 16 Moon at apogee	27 16 Mercury 1.1S of Moon Occn
		13 6 Pluto stationary	28 19 Regulus 3.0N of Moon
		13 11 Mercury 1.2N of Venus	30 11 Venus inferior conjunction
February		August	
d h	d h	d h	d h
2 19 Venus 3.7S of Moon	14 13 FULL MOON	1 15 Spica 4.2S of Moon	20 6 Mars 4.6N of Moon
6 1 Jupiter 0.3N of Moon	14 21 Regulus 3.6N of Moon	1 17 Saturn 0.1N of Moon	20 16 Venus stationary
7 22 FIRST QUARTER	18 19 Spica 3.5S of Moon	2 6 Mercury inferior conjunction	20 17 Mercury greatest along W(18.2)
9 11 Aldebaran 0.9S of Moon	19 8 Saturn 0.6N of Moon	2 21 FIRST QUARTER	21 4 Moon furthest North (18.9)
9 23 Saturn stationary	21 21 LAST QUARTER	10 0 Uranus 5.3S of Moon	22 3 Neptune 4.1N of Moon
10 15 Moon furthest North (18.4)	23 21 Uranus 5.2S of Moon	6 23 Moon furthest South (-18.3)	23 3 Venus 2.4S of Moon
10 17 Mercury superior conjunction	23 23 Moon furthest South (-18.3)	10 2 Moon at apogee	24 1 Moon at perigee
11 12 Neptune 4.1N of Moon	24 14 Moon at apogee	10 6 Mars 4.8N of Aldebaran	24 1 Moon at perigee
12 16 Moon at perigee	27 8 Mars 5.4S of Moon	10 23 FULL MOON	25 5 Regulus 2.9N of Moon
		11 21 Mercury stationary	25 8 NEW MOON
		18 17 LAST QUARTER	29 0 Spica 4.3S of Moon
		19 7 Jupiter 3.8N of Moon	29 6 Saturn 0.2S of Moon Occn
		19 19 Aldebaran 0.5S of Moon	
March		September	
d h	d h	d h	d h
2 0 NEW MOON	18 5 Spica 3.6S of Moon	2 12 Venus 0.8N of Regulus	13 0 Moon furthest South (-18.5)
3 9 Mercury 0.2S of Moon	18 15 Saturn 0.7N of Moon	3 10 Mercury 3.4N of Moon	20 7 FULL MOON
4 22 Venus 0.8N of Moon	20 12 Equinox	3 21 Regulus 4.2N of Moon	22 15 Jupiter 0.6S of Moon Occn
5 16 Jupiter 0.9N of Moon	21 8 Neptune stationary	4 1 Venus 4.1S of Moon	22 15 Equinox
8 17 Aldebaran 0.8S of Moon	23 6 Uranus 5.3S of Moon	4 18 NEW MOON	24 22 Moon at perigee
9 6 FIRST QUARTER	23 7 Moon furthest South (-18.2)	6 10 Mars 1.7N of Moon	25 12 Aldebaran 1.3S of Moon Occn
9 7 Mercury greatest along E(18)	23 17 LAST QUARTER	6 10 Mercury greatest along W(18)	26 4 Pluto at opposition
9 22 Moon furthest North (18.2)	24 10 Moon at apogee	7 10 Saturn 4.2N of Moon	26 12 Moon furthest North (18.5)
10 19 Neptune 4.3N of Moon	24 12 Pluto at conjunction	7 23 Spica 2.8S of Moon	27 4 LAST QUARTER
12 10 Moon at perigee	26 1 Mercury inferior conjunction	10 6 Mercury 0.4N of Regulus	27 18 Neptune 4.3N of Moon
14 7 Regulus 3.5N of Moon	28 13 Mars 4.3S of Moon	12 11 Moon at apogee	29 1 Mercury 0.1N of Venus
15 3 Venus 1.3N of Jupiter	30 21 Mercury 1.7N of Moon	12 12 Uranus 4.7S of Moon	30 1 Mars 1.8S of Saturn
16 1 FULL MOON	31 14 NEW MOON	12 13 FIRST QUARTER	
16 3 Mercury stationary			
April		October	
d h	d h	d h	d h
1 16 Uranus stationary	14 21 Saturn 0.8N of Moon	1 5 Regulus 4.2N of Moon	15 20 Venus 1.1S of Saturn
2 10 Jupiter 1.5N of Moon	18 8 Saturn at opposition	2 3 Mercury superior conjunction	14 8 Mercury 0.3S of Mars
3 18 Venus 5.2N of Moon	19 14 Uranus 5.3S of Moon	4 4 Venus 1.3N of Moon	15 10 Saturn at conjunction
4 22 Aldebaran 0.8S of Moon	19 15 Moon furthest South (-18.3)	4 NEW MOON	15 22 Neptune stationary
6 3 Moon furthest North (18.2)	21 6 Moon at apogee	4 10 Mercury 1.4N of Moon	15 22 Venus 3.1N of Spica
6 18 Moon at perigee	22 12 LAST QUARTER	5 1 Saturn 1.8N of Moon	17 14 Jupiter at opposition
7 0 Neptune 4.3N of Moon	23 6 Mercury greatest along W(27)	5 6 Mars 0.3S of Moon	19 14 Jupiter 0.9S of Moon Occn
7 13 FIRST QUARTER	26 10 Mars 2.4S of Moon	5 18 Spica 2.8S of Moon	19 18 FULL MOON
7 13 Mercury stationary	28 0 Mercury 2.4S of Moon	6 18 Mars 2.4N of Spica	19 18 Moon at perigee
10 14 Regulus 3.5N of Moon	30 2 NEW MOON	8 12 Venus superior conjunction	22 19 Aldebaran 1.3S of Moon Occn
14 13 FULL MOON	30 5 Jupiter 2.1N of Moon	9 8 Mercury 1.7S of Saturn	23 19 Moon furthest North (18.5)
14 14 Spica 3.7S of Moon		9 21 Uranus 4.8S of Moon	25 0 Neptune 4.3N of Moon
		10 6 Moon at apogee	25 10 LAST QUARTER
		10 8 Moon furthest South (-18.4)	26 16 Venus 0.6N of Mars
		11 5 Mercury 2.4N of Spica	28 11 Regulus 4.2N of Moon
		12 8 FIRST QUARTER	
May		November	
d h	d h	d h	d h
2 6 Aldebaran 0.8S of Moon	20 6 Mercury 0.4S of Jupiter	1 14 Saturn 1.5N of Moon	18 5 FULL MOON
2 20 Jupiter at conjunction	21 5 Venus greatest along E(45)	11 15 Spica 2.9S of Moon	19 4 Aldebaran 1.3S of Moon Occn
3 3 Moon at perigee	22 6 LAST QUARTER	2 22 NEW MOON	19 8 Moon at perigee
3 10 Moon furthest North (18.3)	25 18 Mars 0.3S of Moon	3 3 Mars 2.3S of Moon	20 4 Moon furthest North (18.6)
4 7 Neptune 4.2N of Moon	28 3 Jupiter 2.6N of Moon	3 13 Venus 2.2S of Moon	21 7 Neptune 4.1N of Moon
4 19 FIRST QUARTER	28 16 Mercury 4.6N of Moon	4 6 Saturn 4.3N of Spica	21 14 Venus 4.4N of Antares
7 20 Regulus 3.5N of Moon	29 11 NEW MOON	4 16 Mercury 5.8S of Moon	23 0 Mercury 2.1S of Uranus
11 21 Spica 3.7S of Moon	29 15 Aldebaran 0.9S of Moon	6 7 Uranus 4.8S of Moon	24 16 Regulus 4.1N of Moon
12 0 Saturn 0.9N of Moon	30 10 Venus 3.9S of Pollux	6 16 Moon furthest South (-18.5)	24 20 LAST QUARTER
14 3 FULL MOON	30 20 Moon furthest North (18.4)	7 11 Moon at apogee	27 7 Mercury stationary
16 16 Venus 3.9N of Neptune	31 0 Moon at perigee	10 18 Mars at conjunction	28 21 Spica 3.0S of Moon
16 21 Uranus 5.2S of Moon	31 8 Mercury superior conjunction	11 3 FIRST QUARTER	29 2 Saturn 1.2N of Moon Occn
16 23 Moon furthest South (-18.4)	31 16 Neptune 4.1N of Moon	11 8 Mercury 2.0N of Antares	30 1 Mercury 0.8S of Uranus
18 23 Moon at apogee		15 2	

Краткий астрономический календарь на 2076 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Краткий астрономический календарь на 2073 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Table with columns for months (January to December) and astronomical events (d h, description, status). Includes events like Mercury inferior conjunction, Earth at perihelion, and various planetary positions.

Table with columns for months (January to December) and astronomical events (d h, description, status). Includes events like Mercury superior conjunction, Earth at perihelion, and various planetary positions.

Краткий астрономический календарь на 2074 год (конфигурации Луны и планеты, покрытия, затмения - по Occult v4.0, UT)

Астрономические явления 2074		July	
d h	January	d h	July
5 6	FIRST QUARTER	2 2	FIRST QUARTER
9 10	Earth at perihelion	4 19	Earth at aphelion
6 0	Mars stationary	5 14	Saturn 2.5S of Moon
6 17	Moon at apogee	6 14	Moon at perigee
8 10	Neptune at opposition	8 3	Uranus 2.5S of Moon
9 21	Aldebaran 0.9S of Moon Occn	8 7	Moon furthest South (-21.0)
12 6	Moon furthest North (20.3)	8 11	Venus 0.9N of Regulus
12 24	Neptune 1.4N of Moon	8 17	FULL MOON
13 6	FULL MOON	11 12	Neptune at conjunction
14 13	Jupiter 0.9N of Moon Occn	16 1	LAST QUARTER
16 1	Regulus 1.2S of Moon Occn	16 4	Pluto stationary
16 8	Mars 2.0N of Moon	18 13	Moon at apogee
17 14	Mercury greatest elong E(19)	19 23	Aldebaran 1.3S of Moon
February		August	
d h	February	d h	August
2 13	Mercury inferior conjunction	1 20	Saturn 2.7S of Moon
3 14	Moon at apogee	3 2	Moon at perigee
4 4	FIRST QUARTER	4 5	Saturn stationary
6 6	Aldebaran 0.9S of Moon Occn	4 10	Mercury 1.0N of Jupiter
8 15	Moon furthest North (20.3)	4 10	Uranus 2.6S of Moon
9 4	Neptune 1.4N of Moon	4 16	Moon furthest South (-21.0)
10 15	Jupiter 1.2N of Moon Occn	7 2	FULL MOON
11 21	FULL MOON	8 8	Mercury 0.9N of Regulus
12 2	Mars 3.2N of Moon	14 18	LAST QUARTER
12 9	Regulus 1.2S of Moon Occn	15 6	Moon at apogee
13 18	Mars nearest to Earth	16 7	Aldebaran 1.4S of Moon
March		September	
d h	March	d h	September
3 10	Moon at apogee	5 13	FULL MOON
5 14	Aldebaran 0.9S of Moon Occn	7 14	Mercury greatest elong E(27)
6 0	FIRST QUARTER	12 1	Moon at apogee
8 1	Moon furthest North (20.4)	12 15	Aldebaran 1.5S of Moon
8 13	Neptune 1.4N of Moon	13 12	LAST QUARTER
9 21	Jupiter 1.4N of Moon	15 4	Moon furthest North (21.2)
10 20	Mars 3.3N of Moon	15 6	Uranus stationary
11 19	Regulus 1.3S of Moon	15 13	Jupiter 0.3N of Regulus
13 8	FULL MOON	16 1	Neptune 0.2N of Moon Occn
15 7	Moon at perigee	17 3	Venus stationary
16 7	Saturn stationary	18 9	Regulus 2.1S of Moon
18 9	Saturn 2.5S of Moon	19 31	Moon at apogee
April		October	
d h	April	d h	October
1 22	Aldebaran 1.1S of Moon Occn	3 15	Mercury inferior conjunction
4 9	Moon furthest North (20.5)	5 2	FULL MOON
4 18	FIRST QUARTER	9 13	Venus inferior conjunction
4 22	Neptune 1.2N of Moon	9 19	Moon at apogee
6 5	Jupiter 1.2N of Moon	9 23	Aldebaran 1.7S of Moon
7 5	Mars 2.2N of Moon	11 23	Mercury stationary
8 6	Regulus 1.5S of Moon	12 13	Moon furthest North (21.4)
11 18	FULL MOON	13 6	LAST QUARTER
12 14	Moon at perigee	13 10	Neptune 0.1S of Moon Occn
13 3	Mercury superior conjunction	16 11	Regulus 2.2S of Moon
May		November	
d h	May	d h	November
1 16	Moon furthest North (20.7)	2 15	Mars 3.8N of Antares
2 5	Neptune 1.0N of Moon Occn	3 19	FULL MOON
3 16	Jupiter 0.9N of Moon Occn	6 5	Aldebaran 1.9S of Moon
4 8	FIRST QUARTER	6 10	Moon at apogee
5 2	Mars 0.3N of Moon Occn	9 23	Moon furthest North (21.6)
5 15	Regulus 1.6S of Moon	9 17	Neptune 0.3S of Moon Occn
10 11	Mercury greatest elong E(21)	12 0	LAST QUARTER
11 0	Moon at perigee	12 20	Moon furthest South (-21.6)
11 2	FULL MOON	12 20	Regulus 2.5S of Moon
12 0	Saturn 2.3S of Moon	13 15	Jupiter 2.7S of Moon
14 9	Uranus 2.5S of Moon	15 23	Venus 5.1S of Moon
14 10	Moon furthest South (-20.8)	18 18	Mercury 4.5S of Moon
17 20	LAST QUARTER	December	
June		d h	December
d h	June	1 9	Saturn at conjunction
1 21	Regulus 1.8S of Moon	2 4	Venus 4.0N of Spica
2 6	Mars 1.4S of Moon	3 12	Aldebaran 1.9S of Moon
2 19	FIRST QUARTER	3 13	Moon at apogee
3 9	Mercury inferior conjunction	3 14	FULL MOON
5 19	Venus 4.6S of Pollux	6 2	Moon furthest North (21.7)
8 2	Mercury 2.0N of Aldebaran	6 2	Neptune 0.4S of Moon Occn
8 7	Saturn 2.3S of Moon	10 3	Regulus 2.6S of Moon
8 10	Moon at perigee	11 2	Mars 0.7S of Uranus
9	FULL MOON	11 4	Jupiter 2.9S of Moon
10 18	Uranus 2.5S of Moon	11 14	LAST QUARTER
10 21	Moon furthest South (-20.9)	14 23	Venus 2.3S of Moon Occn
15 10	Mercury stationary	15 7	Saturn 1.9S of Moon
16 9	LAST QUARTER	17 9	Mercury 1.9S of Uranus
20 22	Moon at apogee	17 20	Moon at perigee

Краткий астрономический календарь на 2075 год (конфигурации Луны и планеты, покрытия, затмения - по Occult v4.0, UT)

Астрономические явления 2075		July	
d h	January	d h	July
1 4	Uranus at conjunction	15 18	Moon furthest South (-21.8)
2 8	Moon furthest North (21.8)	15 18	Uranus 1.4S of Moon
2 9	FULL MOON	16 18	NEW MOON
3 3	Neptune 0.4S of Moon Occn	16 21	Mercury 3.4N of Moon
4 2	Earth at perihelion	17 13	Mercury inferior conjunction
6 9	Regulus 2.7S of Moon	17 14	Mars 0.2N of Moon Occn
7 10	Jupiter 2.9S of Moon	19 12	Venus 1.0N of Saturn
8 1	Mercury stationary	23 23	FIRST QUARTER
10 3	LAST QUARTER	27 1	Aldebaran 1.9S of Moon
10 21	Neptune at opposition	27 6	Moon at apogee
11 1	Mercury 2.5N of Mars	28 23	Mercury stationary
13 12	Venus 0.8S of Moon Occn	29 16	Moon furthest North (21.9)
13 22	Saturn 1.7S of Moon	30 8	Neptune 0.4S of Moon Occn
15 6	Moon at perigee	February	
February		d h	February
d h	February	1 4	FULL MOON
2 15	Regulus 2.7S of Moon	13 8	Mercury 0.7N of Moon Occn
3 13	Jupiter 2.6S of Moon	15 6	NEW MOON
8 12	LAST QUARTER	15 15	Mars 2.2N of Moon
9 20	Saturn 1.4S of Moon	20 20	FIRST QUARTER
10 12	Mercury greatest elong W(26)	23 9	Aldebaran 2.0S of Moon
12 3	Moon furthest South (-21.9)	24 3	Moon at apogee
12 5	Venus 0.8N of Moon Occn	26 0	Moon furthest North (22.0)
12 6	Uranus 1.2S of Moon Occn	26 15	Neptune 0.4S of Moon Occn
12 7	Moon at perigee	28 3	Jupiter at opposition
March		September	
d h	March	d h	September
1 23	Regulus 2.7S of Moon	20 11	Eginox
2 14	Jupiter 2.4S of Moon	22 17	Aldebaran 2.2S of Moon
2 20	FULL MOON	23 23	Moon at apogee
9 6	Mars at conjunction	24 14	Mercury 0.7S of Mars
9 18	Saturn 1.1S of Moon Occn	24 16	FIRST QUARTER
9 20	Uranus 1.4S of Moon	25 20	Moon furthest North (22.1)
10 13	Moon at perigee	25 23	Neptune 0.6S of Moon Occn
11 10	Moon furthest South (-22.0)	27 21	Mercury superior conjunction
11 14	Uranus 1.0S of Moon Occn	27 21	Saturn stationary
14 1	Venus 2.0N of Moon	28 21	Pluto at conjunction
15 22	Mercury 1.9N of Moon	29 7	Regulus 2.8S of Moon
16 16	Mars 3.6N of Moon	29 17	Jupiter 2.3S of Moon
16 19	NEW MOON	30 7	Neptune stationary
April		October	
d h	April	d h	October
1 8	FULL MOON	19 1	Aldebaran 2.4S of Moon
4 23	Moon at perigee	20 18	Moon at apogee
6 0	Saturn 0.9S of Moon Occn	21 16	Moon furthest North (22.3)
7 15	Moon furthest South (-22.2)	22 7	Neptune 0.8S of Moon Occn
7 21	Uranus 0.8S of Moon Occn	22 18	Mercury greatest elong E(20)
8 3	LAST QUARTER	23 11	FIRST QUARTER
13 0	Venus 3.2N of Moon	25 17	Regulus 3.0S of Moon
14 17	Mars 4.3N of Moon	26 0	Jupiter 2.4S of Moon
15 8	NEW MOON	30 18	FULL MOON
18 23	Uranus stationary	May	
May		d h	May
d h	May	1 5	Jupiter stationary
2 16	Moon at perigee	18 23	Moon furthest North (22.5)
3 6	Saturn 0.7S of Moon Occn	20 10	Pollux 6.0N of Moon
3 18	Mercury stationary	23 1	Regulus 3.2S of Moon
4 22	Moon furthest South (-22.4)	23 8	FIRST QUARTER
5 3	Uranus 0.6S of Moon Occn	23 9	Jupiter 2.7S of Moon
7 10	LAST QUARTER	26 12	Mercury stationary
13 3	Venus 3.2N of Moon	26 23	Mercury 3.1S of Mars
13 17	Mars 4.4N of Moon	27 3	Mercury 2.2S of Venus
14 6	Mercury inferior conjunction	27 9	Venus 0.9S of Mars
14 21	Mercury 3.4N of Moon	30 9	FULL MOON
14 23	NEW MOON	30 13	Saturn 0.8S of Moon Occn
16 8	Aldebaran 2.6S of Moon	30 22	Moon at perigee
18 8	Moon at apogee	June	
June		d h	June
d h	June	1 7	Moon furthest South (-22.6)
1 7	Moon furthest South (-22.6)	16 6	Pollux 5.8N of Moon
1 14	Uranus 0.5S of Moon Occn	17 7	Mercury 2.6S of Mars
5 17	Saturn at opposition	19 8	Regulus 3.3S of Moon
5 18	LAST QUARTER	19 22	Jupiter 3.1S of Moon
9 19	Mercury greatest elong W(24)	21 4	Solstices
11 11	Mercury 0.4N of Moon Occn	21 16	FIRST QUARTER
11 17	Mars 3.3N of Moon	21 18	Mercury 3.6N of Aldebaran
12 10	Venus 2.4N of Moon	26 14	Mars 5.3N of Aldebaran
12 14	Aldebaran 2.6S of Moon	26 21	Saturn 0.9S of Moon Occn
13 14	NEW MOON	28 8	Moon at perigee
13 14	Venus 4.8N of Aldebaran	28 9	FULL MOON
14 15	Moon at apogee	28 17	Moon furthest South (-22.6)
15 5	Moon furthest North (22.6)	28 19	Uranus 0.5S of Moon Occn
15 23	Neptune 1.1S of Moon Occn	December	
December		d h	December
d h	December	1 13	Mars 2.9S of Moon
1 13	Mars 2.9S of Moon	20 17	Aldebaran 3.3S of Moon
3 3	Venus 1.4S of Uranus	21 18	Solstices
3 6	Mars 2.6S of Moon	22 8	FULL MOON
7 23	NEW MOON	23 2	Mercury stationary
8 6	Saturn 0.1S of Moon Occn	23 7	Moon furthest North (23.5)
9 7	Moon at perigee	24 7	Neptune 2.2S of Moon
8 8	Mercury 2.2S of Moon	24 8	Pollux 5.0N of Moon
9 8	Moon furthest South (-23.4)	24 19	Moon at apogee
9 19	Uranus 0.3S of Moon Occn	27 10	Mercury 2.6S of Moon
10 9	Venus 0.5S of Moon Occn	29 7	Pluto stationary
12 21	Saturn at conjunction	29 19	Mercury 2.1N of Uranus
14 14	FIRST QUARTER	29 20	Mars 2.7S of Moon
14 23	Mercury greatest elong E(21)	30 13	LAST QUARTER
15 5	Mercury 1.5S of Uranus	30 21	Jupiter 3.9S of Moon

Краткий астрономический календарь на 2080 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Краткий астрономический календарь на 2077 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Table with columns for month (January to December), day (d), hour (h), and astronomical events for the year 2080. Includes planetary positions and lunar phases.

Table with columns for month (January to December), day (d), hour (h), and astronomical events for the year 2077. Includes planetary positions and lunar phases.

Краткий астрономический календарь на 2078 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Краткий астрономический календарь на 2079 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Table with columns for month (January to December), day (d), hour (h), and astronomical events for the year 2078. Includes events like Mercury superior conjunction, Earth at aphelion, and various planetary stationaries.

Table with columns for month (January to December), day (d), hour (h), and astronomical events for the year 2079. Includes events like Pluto stationary, Mercury 1.5S of Uranus, and various planetary stationaries.

Краткий астрономический календарь на 2084 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Краткий астрономический календарь на 2081 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Астрономические явления 2084		July	
d h	d h	d h	d h
January		August	
1 1 LAST QUARTER	11 21 Saturn 5.9S of Moon	1 17 NEW MOON	14 14 Moon at perigee
2 3 Spica 3.2N of Moon	14 18 FIRST QUARTER	1 19 Neptune 1.9N of Moon	15 17 Uranus 3.3S of Moon
3 22 Earth at perihelion	17 18 Jupiter 5.2S of Moon	2 1 Mercury 2.7S of Moon	16 0 FULL MOON
5 2 Mars 4.1N of Moon	19 5 Moon at apogee	3 4 Neptune at conjunction	22 14 Mercury greatest elong W(18)
5 7 Antares 0.7S of Moon	19 10 Moon furthest North (26.4)	3 10 Regulus 3.9N of Moon	22 23 Mercury 0.6S of Neptune
5 23 Moon furthest South (-26.3)	22 23 FULL MOON Eclipse	4 9 Mercury inferior conjunction	23 3 LAST QUARTER
6 5 Mercury 3.8N of Moon	23 15 Neptune 1.0N of Moon	5 21 Neptune 4.7S of Neptune	24 16 Moon furthest North (25.5)
6 13 Pluto stationary	25 5 Regulus 3.2N of Moon	5 21 Spica 3.1N of Moon	25 3 Jupiter 1.1S of Moon
6 19 Moon at perigee	25 16 Jupiter stationary	9 9 FIRST QUARTER	26 17 Moon at apogee
7 17 NEW MOON Eclipse	25 23 Venus 1.1N of Saturn	9 11 Antares 1.3S of Moon	27 11 Venus 1.2S of Moon
9 3 Mars 4.6N of Antares	29 9 Spica 3.2N of Moon	11 15 Moon furthest South (-25.6)	29 4 Neptune 2.0N of Moon
9 16 Uranus 2.1S of Moon	30 12 LAST QUARTER	11 17 Uranus at opposition	29 22 Mercury 3.7N of Moon
10 16 Venus 4.2S of Moon	30 16 Neptune at opposition	13 1 Venus 2.2S of Jupiter	30 16 Regulus 3.9N of Moon
February		September	
d h	d h	d h	d h
1 16 Antares 0.7S of Moon	13 20 Mercury superior conjunction	3 22 Spica 3.0N of Moon	21 21 LAST QUARTER
2 7 Moon furthest South (-26.3)	14 3 Jupiter 5.0S of Moon	4 3 Mercury 1.1N of Regulus	22 0 Equinox
2 20 Mars 2.4N of Moon	15 17 Moon furthest North (26.3)	7 7 Antares 1.5S of Moon	22 18 Saturn at opposition
4 3 Moon at perigee	15 23 Moon at apogee	7 16 FIRST QUARTER	23 0 Jupiter 0.5S of Moon
5 18 Mercury 3.1S of Moon	19 20 Neptune 1.0N of Moon	7 22 Moon furthest South (-25.4)	23 10 Moon at apogee
6 4 NEW MOON	20 5 Regulus 3.2N of Moon	11 14 Moon at perigee	23 13 Neptune 2.2N of Moon
6 5 Uranus 2.3S of Moon	21 16 FULL MOON	12 1 Uranus 3.3S of Moon	26 16 Venus 3.6N of Moon
6 19 Uranus at conjunction	25 14 Spica 3.1N of Moon	14 9 FULL MOON	27 0 Regulus 4.0N of Moon
8 12 Saturn 6.0S of Moon	28 18 Mercury 1.5N of Saturn	14 23 Venus 0.3S of Neptune	29 1 NEW MOON
9 15 Saturn 4.6S of Moon	28 21 LAST QUARTER	16 15 Mercury superior conjunction	30 2 Venus 0.1N of Regulus
9 22 Mercury 1.4S of Uranus	28 22 Antares 0.8S of Moon	21 0 Moon furthest North (25.4)	30 18 Mercury 5.2N of Moon
13 13 FIRST QUARTER	29 14 Moon furthest South (-26.2)	October	
March		d h	d h
d h	d h	1 4 Spica 2.9N of Moon	18 8 Moon furthest North (25.2)
2 14 Mars 0.2N of Moon	18 3 Mercury stationary	4 2 Mars stationary	20 12 Jupiter 0.1S of Moon
2 16 Moon at perigee	18 4 Neptune 1.0N of Moon	4 8 Mercury 1.8N of Spica	21 6 Moon at apogee
4 17 Uranus 2.5S of Moon	19 15 Equinox	4 12 Antares 1.7S of Moon	21 16 Neptune 2.9N of Moon
5 21 Venus greatest elong E(46)	19 21 Regulus 3.3N of Moon	6 22 FIRST QUARTER	22 22 Neptune 2.9N of Moon
6 17 NEW MOON	22 6 FULL MOON	6 22 FIRST QUARTER	27 8 Regulus 4.2N of Moon
8 2 Mercury 3.5S of Moon	23 21 Spica 3.0N of Moon	8 8 Moon at perigee	27 8 Uranus stationary
10 11 Venus 2.2S of Moon	27 3 Antares 0.9S of Moon	9 7 Uranus 3.5S of Moon	28 12 Spica 2.9N of Moon
11 6 Mercury greatest elong E(18)	27 15 Moon at perigee	10 17 Pluto at opposition	29 1 NEW MOON
12 17 Jupiter 4.6S of Moon	27 20 Moon furthest South (-26.1)	13 20 FULL MOON	31 4 Mercury 0.6N of Moon
13 22 Saturn at conjunction	28 2 Mercury inferior conjunction	16 11 Mars 5.2S of Moon	31 19 Antares 1.8S of Moon
14 1 Moon furthest North (26.2)	29 3 LAST QUARTER	November	
14 10 FIRST QUARTER	31 7 Mars 2.3S of Moon	d h	d h
14 19 Moon at apogee		1 9 Moon furthest South (-25.1)	16 20 Jupiter 0.1N of Moon
April		1 17 Jupiter stationary	18 2 Moon at apogee
d h	d h	2 0 Mars nearest to Earth	19 7 Neptune 2.7N of Moon
1 3 Uranus 2.8S of Moon	18 3 Jupiter 5.0N of Aldebaran	2 1 Mercury greatest elong E(24)	20 13 LAST QUARTER
4 5 Mercury 3.2S of Moon	18 18 Neptune stationary	2 2 Moon at perigee	20 16 Regulus 4.8N of Moon
5 5 NEW MOON	20 4 Spica 2.9N of Moon	5 5 FIRST QUARTER	23 7 Mercury inferior conjunction
6 17 Pluto at conjunction	20 17 FULL MOON	5 12 Uranus 3.6S of Moon	24 22 Spica 3.0N of Moon
8 16 Venus 1.2N of Moon	23 10 Antares 1.2S of Moon	6 0 Mars at opposition	27 6 Mercury 5.4N of Moon
9 11 Jupiter 4.1S of Moon	23 10 Moon at perigee	12 4 Mars 4.2S of Moon	27 21 NEW MOON
9 14 Mercury stationary	24 2 Moon furthest South (-25.9)	12 10 FULL MOON	28 4 Antares 1.9S of Moon
10 9 Moon furthest North (26.0)	24 21 Venus stationary	12 20 Mercury stationary	28 18 Moon furthest South (-25.0)
11 15 Moon at apogee	25 4 Mercury greatest elong W(27)	13 12 Regulus 3.7N of Moon	29 22 Moon at perigee
13 6 FIRST QUARTER	27 10 LAST QUARTER	14 16 Moon furthest North (25.0)	30 12 Saturn stationary
14 12 Neptune 1.2N of Moon	28 10 Uranus 3.1S of Moon	15 18 Neptune stationary	
16 6 Regulus 3.5N of Moon	29 1 Mars 4.6S of Moon	December	
16 16 Mars 0.7S of Uranus		d h	d h
May		2 18 Mercury stationary	20 8 LAST QUARTER
d h	d h	2 19 Mercury 3.8S of Moon	20 14 Mercury 5.7N of Antares
1 4 NEW MOON	17 16 Spica 3.0N of Moon	4 14 FIRST QUARTER	20 22 Solstices
6 3 Jupiter 1.0N of Moon	20 2 FULL MOON	9 0 Mars 3.3S of Moon	22 8 Spica 3.0N of Moon
7 5 Venus 3.5S of Moon	20 20 Antares 1.3S of Moon	9 21 Mercury 1.2N of Venus	24 0 Mercury 2.0N of Venus
7 16 Moon furthest North (25.8)	21 10 Moon furthest South (-25.7)	11 7 Mercury greatest elong W(21)	25 15 Antares 1.9S of Moon
9 8 Moon at apogee	21 12 Moon at perigee	11 23 Moon furthest North (24.9)	26 3 Venus 2.6N of Moon
11 20 Neptune 1.8N of Moon	23 10 Mercury 2.4S of Venus	12 3 FULL MOON	26 4 Mercury 2.4N of Moon
12 23 FIRST QUARTER	25 16 Uranus 3.3S of Moon	13 22 Jupiter 0.1N of Moon	26 4 Moon furthest South (-24.9)
13 14 Regulus 3.7N of Moon	26 2 Uranus stationary	14 0 Mars stationary	27 9 NEW MOON Eclipse
16 4 Venus inferior conjunction	26 17 LAST QUARTER	15 20 Moon at apogee	28 0 Moon at perigee
June		16 14 Neptune 2.8N of Moon	30 5 Uranus 3.9S of Moon
d h	d h	18 0 Regulus 4.3N of Moon	31 7 Jupiter at opposition
1 8 Mercury 6.0N of Aldebaran	11 13 FIRST QUARTER	20 5 Venus 5.4N of Antares	
1 8 Venus 5.1S of Moon	13 11 Jupiter at conjunction	July	
2 1 Mercury superior conjunction	13 23 Uranus 3.8S of Saturn	d h	d h
3 10 NEW MOON	14 2 Spica 3.1N of Moon	1 2 Mercury 2.7S of Moon	15 17 FULL MOON Eclipse
3 14 Mercury 2.1S of Moon	17 6 Antares 1.3S of Moon	2 20 Earth at aphelion	19 8 Uranus 3.4S of Moon
3 22 Moon furthest North (25.7)	17 20 Moon furthest South (-25.7)	5 10 Mercury 2.0N of Moon	20 14 Mercury stationary
4 1 Jupiter 2.9S of Moon	18 9 FULL MOON	5 11 Neptune 1.8N of Moon	24 13 LAST QUARTER
5 8 Venus stationary	18 20 Moon at perigee	5 21 Mercury 0.1N of Neptune	25 7 Venus greatest elong W(46)
5 19 Moon at apogee	20 8 Solstices	7 4 Regulus 3.9N of Moon	25 19 Pluto stationary
5 17 Mercury 1.6N of Jupiter	21 23 Uranus 3.4S of Moon	10 11 Mercury greatest elong E(26)	28 9 Moon furthest North (25.6)
6 4 Neptune 1.8N of Moon	23 10 Mercury 2.4S of Venus	11 6 FIRST QUARTER	28 12 Venus 5.9S of Moon
9 22 Regulus 3.8N of Moon	25 2 LAST QUARTER	11 10 Spica 3.2N of Moon	29 14 Jupiter 1.7S of Moon
		14 16 Antares 1.3S of Moon	30 6 Moon at apogee
		15 6 Moon furthest South (-25.6)	

Астрономические явления 2081		July	
d h	d h	d h	d h
January		August	
d h	d h	d h	d h
2 8 LAST QUARTER	15 20 Mars 0.6S of Moon	1 21 Moon furthest North (28.5)	14 13 Moon furthest South (-28.6)
2 20 Earth at perihelion	16 22 Mercury stationary	2 13 Venus 5.3S of Moon	16 4 Saturn at opposition
2 21 Pluto stationary	18 6 FIRST QUARTER	3 18 Pollox 2.7N of Moon	17 19 Uranus 2.6N of Moon
3 6 Spica 0.3N of Moon	22 17 Moon furthest North (28.5)	4 12 Neptune 3.5S of Moon	19 4 Saturn 0.3N of Moon
6 4 Mercury 0.3N of Uranus	23 10 Neptune at opposition	5 1 Mars 1.4S of Moon	19 11 FULL MOON
6 19 Antares 0.3N of Moon	24 9 Pollox 2.7N of Moon	5 9 Mercury 0.7N of Regulus	21 5 Moon at apogee
8 1 Moon furthest South (-28.5)	25 1 Neptune 4.3S of Moon	5 19 Mercury 0.4S of Moon	21 21 Jupiter 2.4S of Moon
10 7 NEW MOON	25 2 Uranus at conjunction	6 4 Moon at perigee	27 8 Uranus 0.4N of Neptune
10 7 Mercury greatest elong E(19)	25 3 FULL MOON	6 5 Regulus 0.9S of Moon	27 14 LAST QUARTER
11 6 Uranus 3.4N of Moon	25 17 Moon at perigee	6 6 Mercury 0.1S of Moon	28 16 Spica 1.2N of Moon
11 18 Mercury 3.1N of Moon	26 9 Mercury inferior conjunction	6 22 Spica 1.2N of Moon	28 6 Moon furthest North (28.6)
12 2 Saturn 2.5N of Moon	26 19 Regulus 1.7S of Moon	11 16 FIRST QUARTER	30 20 Mercury greatest elong E(27)
12 22 Jupiter 1.8N of Moon	27 8 Mercury 4.0N of Uranus	13 1 Mars at conjunction	31 4 Pollox 2.6N of Moon
12 22 Moon at apogee	30 13 Spica 0.4N of Moon	13 6 Antares 0.7N of Moon	
14 5 Venus 2.0N of Moon	31 20 LAST QUARTER	September	
February		d h	d h
d h	d h	1 0 Neptune 3.5S of Moon	15 3 Jupiter at opposition
3 1 Antares 0.5N of Moon	16 21 FIRST QUARTER	1 10 Venus 2.4S of Moon	15 6 Saturn 0.7N of Moon
4 12 Moon furthest South (-28.6)	19 2 Moon furthest North (28.6)	2 16 Regulus 0.8S of Moon	16 15 Venus 0.6N of Regulus
6 4 Saturn at conjunction	20 20 Mercury greatest elong W(26)	2 21 Mars 0.1N of Moon	17 8 Moon at apogee
7 2 Mercury stationary	20 20 Pollox 2.2N of Moon	3 8 NEW MOON Eclipse	17 21 Jupiter 2.2S of Moon
7 15 Uranus 3.2N of Moon	21 11 Neptune 4.3S of Moon	3 13 Moon at perigee	18 3 FULL MOON Eclipse
8 15 Saturn 2.1N of Moon	21 17 Mercury 0.5N of Uranus	5 5 Mercury 1.0S of Moon	22 7 Equinox
8 20 NEW MOON	22 10 Jupiter at conjunction	6 6 Spica 1.2N of Moon	24 18 Moon furthest North (28.6)
9 3 Moon at apogee	25 5 Moon at perigee	9 13 Antares 0.7N of Moon	25 1 LAST QUARTER
9 17 Jupiter 1.2N of Moon	23 7 Regulus 1.4S of Moon	10 2 FIRST QUARTER	25 14 Mercury inferior conjunction
11 2 Venus stationary	23 14 FULL MOON	10 20 Moon furthest South (-28.6)	27 13 Pollox 2.7N of Moon
11 16 Venus 5.8N of Moon	26 22 Spica 0.5N of Moon	12 23 Mercury stationary	28 11 Neptune 3.4S of Moon
13 20 Mars 2.2S of Moon		13 23 Uranus 2.6N of Moon	30 2 Regulus 0.8S of Moon
March		October	
d h	d h	d h	d h
2 8 Antares 0.5N of Moon	17 1 Mercury 1.3S of Jupiter	1 7 Venus 1.8N of Moon	14 20 Jupiter 2.0S of Moon
2 11 LAST QUARTER	18 9 FIRST QUARTER	1 13 Mars 1.8N of Moon	15 2 Uranus stationary
3 18 Moon furthest South (-28.6)	18 2 Moon furthest North (28.7)	1 23 Mercury 0.8N of Moon	17 20 Saturn at perigee
4 18 Mercury 0.6S of Saturn	19 22 Equinox	2 0 Moon at perigee	20 6 Mercury 0.5N of Venus
6 6 Venus greatest elong W(9)	20 5 Pollox 2.2N of Moon	2 17 NEW MOON	22 19 Moon furthest North (28.4)
6 7 Venus inferior conjunction	20 19 Neptune 4.3S of Moon	3 16 Spica 1.2N of Moon	24 18 Saturn stationary
7 0 Uranus 3.2N of Moon	22 17 Regulus 1.5S of Moon	4 15 Mercury stationary	24 20 Pollox 2.8N of Moon
8 4 Saturn 1.9N of Moon	23 15 Moon at perigee	6 20 Venus 0.4N of Mars	25 11 LAST QUARTER
8 6 Moon at apogee	25 0 FULL MOON	6 21 Antares 0.8N of Moon	25 19 Neptune 3.2S of Moon
8 14 Mercury 0.5N of Moon	25 4 Venus stationary	7 20 Pluto at opposition	27 11 Regulus 0.6S of Moon
9 13 Jupiter 0.6N of Moon	26 9 Spica 0.6N of Moon	8 3 Moon furthest South (-28.5)	27 18 Mercury 3.6N of Spica
10 15 NEW MOON Eclipse	29 16 Antares 0.5N of Moon	9 16 FIRST QUARTER	30 3 Venus 3.4N of Spica
14 18 Mars 3.4S of Moon	31 2 Moon furthest South (-28.7)	10 3 Mercury 0.2S of Venus	30 4 Mars 3.3N of Moon
April		11 4 Uranus 2.6N of Moon	30 7 Moon at perigee
d h	d h	12 4 Mercury greatest elong W(18)	31 3 Spica 1.3N of Moon
1 3 LAST QUARTER	16 12 Pollox 2.2N of Moon	12 10 Saturn 0.7N of Moon	31 5 Venus 4.8N of Moon
3 9 Uranus 3.1N of Moon	16 17 FIRST QUARTER	14 13 Moon at apogee	31 14 Mercury 5.0N of Moon
3 19 Pluto at conjunction	17 2 Neptune 4.3S of Moon	November	
4 16 Saturn 1.6N of Moon	2 2 Regulus 1.5S of Moon	d h	d h
4 20 Moon at apogee	19 9 Venus 2.7N of Jupiter	1 3 NEW MOON	21 1 Pollox 3.0N of Moon
5 23 Mercury superior conjunction	20 17 Moon at perigee	3 7 Antares 0.5N of Moon	21 6 Mars 3.0N of Spica
6 1 Venus 5.3N of Moon	22 19 Spica 0.6N of Moon	4 12 Moon furthest South (-28.3)	22 1 Neptune 3.1S of Moon
6 9 Jupiter 0.1S of Moon	23 10 FULL MOON	7 13 Uranus 2.5N of Moon	23 15 Mercury 2.4S of Moon
6 9 NEW MOON	26 2 Antares 0.4N of Moon	8 9 FIRST QUARTER	23 19 LAST QUARTER
9 16 Mercury 3.0S of Moon	27 11 Moon furthest South (-28.6)	8 18 Saturn 0.5N of Moon	25 16 Mercury 3.2N of Antares
12 5 Neptune stationary	30 18 Uranus 2.9N of Moon	9 5 Neptune stationary	27 3 Moon at perigee
12 13 Mars 4.1S of Moon	30 21 LAST QUARTER	11 1 Jupiter 1.9S of Moon	27 15 Mars 4.6N of Moon
14 15 Moon furthest North (28.6)		12 4 Moon at apogee	27 15 Mercury 5.8N of Moon
May		13 0 Jupiter stationary	30 4 NEW MOON
d h	d h	16 13 FULL MOON	30 17 Antares 0.4N of Moon
2 4 Saturn 1.2N of Moon	15 23 FIRST QUARTER	19 1 Moon furthest North (28.3)	
2 13 Mercury greatest elong E(21)	16 8 Regulus 1.3S of Moon	December	
2 17 Mars at perigee	17 13 Saturn at conjunction	d h	d h
4 4 Jupiter 0.8S of Moon	20 0 Spica 0.7N of Moon	1 10 Mercury 3.0N of Moon	20 23 Regulus 0.3S of Moon
4 23 Venus 0.9S of Moon	22 20 FULL MOON	1 21 Moon furthest South (-28.2)	21 5 Solstices
8 22 NEW MOON	23 11 Antares 0.3N of Moon	4 23 Uranus 2.2N of Moon	22 10 Moon at perigee
10 9 Mercury 2.8S of Moon	24 19 Moon furthest South (-28.4)	5 17 Venus 4.8N of Antares	23 23 LAST QUARTER
11 6 Mars 4.2S of Moon	25 11 Mercury inferior conjunction	5 5 Saturn 0.2N of Moon	24 14 Mercury greatest elong E(20)
11 21 Moon furthest North (28.5)	28 8 FIRST QUARTER	8 6 FIRST QUARTER	24 19 Spica 1.6N of Moon
11 17 Pollox 2.4N of Moon	29 14 Saturn 0.9N of Moon	8 11 Jupiter 2.1S of Moon	26 9 Mars 5.4N of Moon
13 22 Uranus stationary	30 9 Moon at apogee	9 0 Moon at apogee	28 2 Antares 0.5N of Moon
14 8 Neptune 4.1S of Moon	30 15 LAST QUARTER	16 4 FULL MOON	29 5 Moon furthest South (-28.2)
14 12 Mercury stationary	31 21 Jupiter 1.5S of Moon	16 7 Moon furthest North (28.2)	30 4 NEW MOON
15 11 Venus greatest elong W(46)		18 8 Pollox 3.1N of Moon	30 9 Venus 3.5N of Moon
June		19 6 Neptune 2.9S of Moon	31 14 Mercury 3.3N of Moon
d h	d h	21 23 Venus superior conjunction	31 22 Mercury stationary
3 16 Venus 5.4S of Moon	19 19 Antares 0.4N of Moon		
6 3 Saturn stationary	20 0 Mercury greatest elong W(23)		
7 8 NEW MOON	20 15 Solstices		
8 3 Moon furthest North (28.4)	21 2 Moon furthest South (-28.4)		
8 22 Mars 3.7S of Moon	23 20 Mercury 2.6N of Aldebaran		
10 6 Pollox 2.3N of Moon	24 9 Uranus 2.9N of Moon		
11 15 Neptune 4.6N of Moon	25 21 Saturn 0.6N of Moon		
11 17 Moon at perigee	27 3 Moon at apogee		
12 13 Regulus 1.2S of Moon	28 10 Jupiter 2.0S of Moon		
14 4 FIRST QUARTER	29 8 LAST QUARTER		
16 9 Spica 0.5N of Moon			

Краткий астрономический календарь на 2082 год

(конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Краткий астрономический календарь на 2083 год

(конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Астрономические явления 2082			
January		July	
d h	d h	d h	d h
1 0 Uranus 1.9N of Moon	21 0 Spica 1.8N of Moon	1 17 LAST QUARTER	17 22 JUPITER 6.0S of Moon
2 18 Saturn 0.1S of Moon	21 9 Venus 0.7S of Uranus	4 2 Mercury superior conjunction	22 18 Moon furthest North (27.9)
4 2 Pluto stationary	21 12 LAST QUARTER	4 5 Spica 2.2N of Moon	24 9 Pluto stationary
5 2 Jupiter 2.5S of Moon	21 16 Mercury stationary	4 19 Moon at perigee	25 0 Pollux 3.9N of Moon
5 13 Earth at perihelion	23 23 Mars 5.6N of Moon	4 22 Earth at aphelion	25 15 NEW MOON
5 21 Moon at apogee	24 8 Antares 0.6N of Moon	7 10 Antares 0.4N of Moon	25 22 Neptune 1.9S of Moon
7 4 FIRST QUARTER	25 11 Moon furthest South (-28.3)	8 7 Venus 0.8N of Regulus	27 8 Mercury 0.8N of Moon
8 9 Mercury 3.3N of Venus	25 20 Neptune at opposition	8 10 Moon furthest South (-27.9)	27 15 Regulus 0.8N of Moon
10 11 Mercury inferior conjunction	28 20 NEW MOON	9 15 Mercury 5.0S of Pollux	29 3 Venus 1.8N of Moon
12 16 Moon furthest North (28.2)	28 21 Uranus 1.7N of Moon	10 3 FULL MOON	29 6 Venus greatest elong E(46)
14 17 Pollux 3.2N of Moon	29 8 Uranus at conjunction	11 23 Uranus 0.7N of Moon	30 0 Moon at perigee
14 18 FULL MOON	29 17 Venus 0.0N of Moon	14 1 Saturn 2.7S of Moon	30 1 Neptune at conjunction
15 13 Neptune 2.8S of Moon	30 8 Saturn 0.5S of Moon	15 20 Mercury 2.0N of Neptune	30 4 Mercury 0.1N of Regulus
17 6 Regulus 0.1S of Moon	31 9 Mars 4.9N of Antares	17 16 Moon at apogee	31 10 Spica 2.3N of Moon
17 17 Moon at perigee			
February		August	
d h	d h	d h	d h
1 20 Jupiter 3.0S of Moon	17 7 Spica 1.8N of Moon	1 11 FIRST QUARTER	24 0 Regulus 0.8N of Moon
2 17 Mercury greatest elong W(25)	18 3 Saturn at conjunction	3 16 Antares 0.5N of Moon	24 1 NEW MOON
2 17 Moon at apogee	19 20 Mercury 0.8S of Uranus	3 16 Mars stationary	24 12 Jupiter stationary
5 19 Venus 0.2S of Saturn	19 25 LAST QUARTER	3 19 Uranus at opposition	25 16 Mercury 1.4S of Moon
6 1 FIRST QUARTER	20 13 Antares 0.7N of Moon	4 16 Moon furthest South (-28.0)	26 8 Moon at perigee
9 1 Moon furthest North (28.3)	21 14 Mars 5.1N of Moon	5 5 Uranus 0.7N of Moon	26 10 Venus 1.8N of Moon
11 3 Pollux 3.2N of Moon	21 17 Moon furthest South (-28.3)	8 14 FULL MOON	27 1 Venus 0.2S of Moon
11 22 Neptune 2.8S of Moon	25 7 Uranus 1.6N of Moon	10 6 Saturn 2.7S of Moon	27 17 Spica 2.3N of Moon
13 6 FULL MOON	26 1 Mercury 0.5S of Moon	13 5 Mercury greatest elong E(27)	28 20 Saturn at opposition
13 15 Regulus 0.0N of Moon	26 21 Saturn 0.9S of Moon	14 10 Moon at apogee	30 16 FIRST QUARTER
14 17 Moon at perigee	27 14 NEW MOON	16 16 LAST QUARTER	30 19 Mars nearest to Earth
		19 2 Moon furthest North (28.0)	30 22 Antares 0.3N of Moon
		21 9 Pollux 3.9N of Moon	31 22 Moon furthest South (-28.0)
		22 10 Neptune 1.8S of Moon	
March		September	
d h	d h	d h	d h
1 4 Venus 3.2S of Moon	20 4 Equinox	1 17 Mars at opposition	20 10 Regulus 0.9N of Moon
1 16 Jupiter 3.5S of Moon	20 12 Mercury superior conjunction	4 10 Uranus 0.7N of Moon	21 5 Mercury 1.3N of Moon
2 7 Moon at apogee	20 23 Moon furthest South (-28.3)	6 9 Saturn 2.6S of Moon	22 10 NEW MOON
4 21 Venus 0.8S of Saturn	21 8 LAST QUARTER	7 4 FULL MOON	22 13 Equinox
6 19 Venus 0.0N of Jupiter	22 6 Mars 3.7N of Moon	9 14 Mercury inferior conjunction	22 11 Moon at perigee
7 19 FIRST QUARTER	24 15 Uranus 1.4N of Moon	11 2 Moon at apogee	23 19 Venus 3.9S of Moon
8 10 Moon furthest North (28.3)	25 2 Mercury 0.3N of Jupiter	14 13 Venus stationary	24 1 Spica 2.3N of Moon
10 13 Pollux 3.3N of Moon	26 10 Saturn 1.3S of Moon	15 8 LAST QUARTER	25 19 Mercury greatest elong W(18)
11 8 Neptune 2.8S of Moon	29 9 NEW MOON	15 11 Moon furthest North (28.0)	27 4 Antares 0.4N of Moon
13 3 Regulus 0.1N of Moon	29 10 Moon at apogee	17 19 Pollux 3.9N of Moon	28 0 Moon furthest South (-27.9)
14 16 FULL MOON	29 12 Jupiter 4.0S of Moon	18 0 Mercury stationary	29 0 FIRST QUARTER
15 3 Moon at perigee	31 7 Spica 1.8N of Moon	18 21 Neptune 1.7S of Moon	
16 16 Spica 1.8N of Moon	31 14 Venus 4.6S of Moon		
19 20 Antares 0.6N of Moon			
April		October	
d h	d h	d h	d h
1 17 Moon furthest North (28.3)	17 7 Moon furthest South (-28.2)	1 14 Uranus 0.7N of Moon	20 9 Venus 2.1S of Moon
2 5 Pluto at conjunction	19 21 LAST QUARTER	3 19 Pollux 3.9N of Moon	21 5 Spica 2.3N of Moon
6 8 FIRST QUARTER	19 23 Mars 1.7N of Moon	3 14 Mars 5.2S of Moon	21 16 Mercury 5.3N of Moon
6 22 Pollux 3.3N of Moon	20 23 Uranus 1.2N of Moon	3 14 Mars stationary	21 18 NEW MOON
7 17 Neptune 2.7S of Moon	22 21 Saturn 1.7S of Moon	6 20 FULL MOON	21 22 Moon at perigee
9 13 Regulus 0.2N of Moon	25 5 Mercury stationary	7 3 Venus inferior conjunction	22 20 Jupiter at opposition
12 15 Moon at perigee	25 15 Moon at apogee	8 14 Moon at apogee	23 17 Mercury superior conjunction
13 1 FULL MOON	26 7 Jupiter 4.5S of Moon	9 3 Pluto at opposition	24 13 Antares 0.2N of Moon
13 3 Spica 1.9N of Moon	28 2 NEW MOON	12 18 Moon furthest North (27.8)	25 12 Moon furthest South (-27.7)
14 18 Neptune stationary	28 23 Mercury 2.9S of Moon	14 23 LAST QUARTER	25 16 Venus stationary
15 1 Mercury greatest elong E(20)	30 21 Venus 3.8S of Moon	15 3 Pollux 4.1N of Moon	28 12 FIRST QUARTER
16 5 Antares 0.5N of Moon		16 7 Neptune 1.5S of Moon	28 20 Uranus 0.6N of Moon
		17 21 Regulus 1.1N of Moon	30 16 Saturn 2.6S of Moon
		19 13 Uranus stationary	31 7 Mars 3.8S of Moon
		20 7 Mercury 3.1N of Spica	
May		November	
d h	d h	d h	d h
1 22 Moon furthest North (28.1)	17 20 Mercury stationary	4 15 Moon at apogee	18 8 Mercury 2.6N of Antares
4 4 Pollux 3.3N of Moon	18 7 Uranus 0.9N of Moon	5 14 FULL MOON	19 9 Moon at perigee
4 23 Neptune 2.6S of Moon	18 8 Uranus stationary	6 3 Saturn stationary	20 4 NEW MOON
5 13 Mercury inferior conjunction	18 15 Mars 0.9S of Moon	8 23 Moon furthest North (27.6)	21 0 Antares 0.2N of Moon
5 19 FIRST QUARTER	19 13 LAST QUARTER	11 19 Pollux 4.3N of Moon	21 11 Venus 0.3N of Moon
6 21 Regulus 0.3N of Moon	20 8 Saturn 2.2S of Moon	11 19 Neptune stationary	21 22 Moon furthest South (-27.6)
14 14 Spica 1.9N of Moon	24 5 Moon at apogee	12 15 Neptune 1.2S of Uranus	25 5 Uranus 0.2N of Moon
10 23 Moon at perigee	24 5 Mercury 4.6S of Moon	12 15 FULL MOON	25 23 Saturn 2.8S of Moon
11 15 Mars 1.2S of Uranus	27 16 NEW MOON	13 16 Antares 0.4N of Moon	26 7 FIRST QUARTER
12 9 FULL MOON	29 4 Moon furthest North (27.9)	14 5 Regulus 1.3S of Moon	27 4 FIRST QUARTER
13 16 Antares 0.4N of Moon	30 22 Venus 1.3S of Moon	17 4 Venus 4.2N of Moon	28 14 Mars 3.6S of Moon
14 17 Moon furthest South (-28.0)	31 9 Pollux 3.7N of Moon	17 23 Spica 2.4N of Moon	
June		December	
d h	d h	d h	d h
1 6 Neptune 2.3S of Moon	18 5 LAST QUARTER	1 8 Jupiter 6.0S of Moon	17 23 Venus greatest elong W(47)
1 16 Mercury greatest elong W(25)	18 16 Mercury 4.1N of Aldebaran	1 21 Moon at apogee	18 11 Antares 0.1N of Moon
3 3 Regulus 0.5N of Moon	19 22 Moon at apogee	2 15 Venus 4.1N of Spica	19 17 Moon furthest South (-27.5)
4 1 FIRST QUARTER	20 4 Saturn stationary	5 8 FULL MOON	19 15 NEW MOON
5 10 Venus 4.5S of Pollux	20 21 Jupiter 5.6S of Moon	6 4 Moon furthest North (27.5)	20 6 Jupiter stationary
6 22 Saturn 2.1N of Moon	20 21 Solstice	7 10 Mercury greatest elong E(21)	20 10 Mercury 3.9N of Moon
7 23 Moon at perigee	25 8 Mercury 4.6S of Moon	8 15 Pollux 4.5N of Moon	21 11 Solstice
10 2 Antares 0.8N of Moon	25 10 Moon furthest North (27.9)	9 20 Neptune 1.1S of Moon	22 17 Uranus 0.1N of Moon
10 17 FULL MOON	26 5 NEW MOON	11 11 Regulus 1.5N of Moon	24 11 Saturn 3.1S of Moon
12 1 Moon furthest South (-27.9)	27 16 Pollux 3.8N of Moon	12 23 LAST QUARTER	25 16 Mercury inferior conjunction
14 15 Uranus 0.7N of Moon	28 13 Neptune 2.1S of Moon	15 8 Spica 2.6N of Moon	26 23 FIRST QUARTER
15 11 Venus 2.3N of Neptune	29 16 Venus 1.1N of Moon	16 0 Mercury stationary	27 5 Mars 3.9S of Moon
16 4 Mars 3.7S of Moon	30 8 Regulus 0.7N of Moon	17 17 Moon at perigee	29 13 Moon at apogee
16 17 Saturn 2.5S of Moon			

Астрономические явления 2083			
January		July	
d h	d h	d h	d h
2 11 Moon furthest North (27.5)	15 16 Moon furthest South (-27.5)	1 11 Mercury 4.8S of Pollux	16 19 Mars 1.8N of Moon
4 2 FULL MOON	16 1 Mercury greatest elong W(24)	1 19 Mercury 1.4S of Moon	17 3 Mercury 1.4S of Moon
4 11 Earth at perihelion	16 8 Mercury 5.1N of Moon	3 11 Saturn stationary	18 0 Regulus 2.4N of Moon
4 22 Pollux 4.6N of Moon	18 3 NEW MOON	4 23 Saturn 5.6S of Moon	19 1 Venus 5.9S of Pollux
5 8 Mercury stationary	19 5 Uranus 0.2S of Moon	6 2 Mars 1.3N of Neptune	22 0 Spica 3.1N of Moon
5 8 Pluto stationary	21 1 Saturn 3.4S of Moon	6 20 LAST QUARTER	22 8 FIRST QUARTER
6 1 Neptune 1.0S of Moon	25 0 Mars 4.3S of Moon	14 8 Earth at aphelion	25 5 Antares 0.2S of Moon
7 11 Regulus 1.8N of Moon	25 21 FIRST QUARTER	15 Mercury 1.6N of Neptune	25 15 Pluto stationary
11 8 LAST QUARTER	26 10 Moon at apogee	11 10 Moon at apogee	25 23 Moon furthest South (-27.0)
11 17 Spica 2.7N of Moon	27 5 Mars 1.8N of Jupiter	10 18 Jupiter 5.6S of Moon	25 5 Moon at perigee
14 10 Moon at perigee	28 6 Neptune at opposition	11 20 Mercury 0.1N of Mars	26 12 Mercury greatest elong E(27)
14 20 Antares 0.2N of Moon	29 18 Moon furthest North (27.5)	12 11 Moon furthest North (27.0)	26 19 Mercury 1.6S of Regulus
		14 16 Venus 1.1S of Moon	27 8 Venus superior conjunction
		14 23 NEW MOON	29 0 FULL MOON
		15 2 Pollux 5.4N of Moon	29 18 Uranus 1.4S of Moon
		16 7 Neptune 0.1S of Moon	31 9 Venus 1.2N of Neptune
February		August	
d h	d h	d h	d h
1 6 Pollux 4.6N of Moon	15 Mercury 1.3S of Uranus	1 7 Saturn 5.6S of Moon	14 17 Mercury 2.1S of Moon
2 7 Neptune 1.0S of Moon	15 17 Uranus 0.4S of Moon	1 14 Neptune at conjunction	17 8 Mercury 5.8S of Mars
2 14 Uranus at conjunction	15 18 Mercury 1.8S of Moon	5 12 LAST QUARTER	17 18 Venus 0.2N of Regulus
2 18 FULL MOON	16 18 NEW MOON	3 Moon at apogee	18 6 Spica 3.0N of Moon
4 0 Regulus 1.7N of Moon	17 16 Saturn 3.7S of Moon	7 12 Jupiter 5.5S of Moon	20 13 FIRST QUARTER
7 20 Moon furthest North (27.5)	22 21 Mars 4.3S of Moon	8 6 Uranus at opposition	21 11 Antares 0.2S of Moon
7 23 Moon at perigee	23 7 Moon at apogee	8 14 Mercury stationary	22 1 Moon at perigee
9 16 LAST QUARTER	24 18 FIRST QUARTER	12 10 Mercury 0.8N of Neptune	22 12 Moon furthest South (-27.0)
11 2 Antares 0.3N of Moon	26 3 Moon furthest North (27.5)	10 12 Mars 0.6N of Regulus	22 17 Mercury 4.9S of Regulus
11 23 Moon furthest South (-27.5)	28 15 Pollux 4.7N of Moon	11 10 Pollux 5.4N of Moon	23 8 Mercury inferior conjunction
13 12 Venus 4.1N of Moon		12 16 Neptune 0.0N of Moon	25 8 Venus 0.4N of Mars
		13 12 NEW MOON	26 1 Uranus 1.3S of Moon
		13 22 Venus 3.0N of Moon	27 17 FULL MOON
		14 11 Mars 3.3N of Moon	28 13 Saturn 5.6S of Moon
March		September	
d h	d h	d h	d h
1 16 Neptune 1.0S of Moon	17 Saturn 4.0S of Moon	1 4 Mercury stationary	14 12 Spica 2.9N of Moon
2 8 Saturn at conjunction	18 10 NEW MOON	3 21 Moon at apogee	16 4 Moon at perigee
2 22 Mercury 0.1S of Saturn	19 17 Mercury 3.6S of Moon	4 2 Jupiter 5.3S of Moon	17 17 Antares 0.3S of Moon
3 9 Regulus 1.7N of Moon	20 10 Equinox	4 6 LAST QUARTER	18 10 Jupiter 4.5N of Aldebaran
3 12 Mercury superior conjunction	21 14 Jupiter 6.0S of Moon	7 18 Pollux 5.5N of Moon	18 14 Mars at conjunction
4 7 FULL MOON	23 1 Moon at apogee	9 2 Neptune 0.2N of Moon	18 18 FIRST QUARTER
7 2 Moon at perigee	23 7 Mars 3.8S of Moon	9 7 Mercury greatest elong W(18)	22 6 Uranus 1.4S of Moon
7 3 Spica 2.7N of Moon	25 11 Moon furthest North (27.4)	10 14 Mercury 2.3N of Moon	22 19 Equinox
10 7 Antares 0.2N of Moon	26 13 FIRST QUARTER	10 17 Saturn at opposition	22 23 Saturn 5.5S of Moon
11 0 LAST QUARTER	28 1 Pollux 4.8N of Moon	11 2 Mercury 0.1N of Regulus	25 15 Jupiter stationary
11 4 Moon furthest South (-27.5)	28 23 Mercury greatest elong E(19)	12 0 NEW MOON	30 7 Mercury 0.7N of Mars
11 9 Venus 0.4N of Uranus	29 1 Neptune 0.9S of Moon	12 4 Mars 4.5N of Moon	30 9 Venus 2.8N of Spica
15 2 Uranus 0.6S of Moon	30 19 Regulus 1.8N of Moon	13 0 Venus 5.3N of Moon	
15 11 Venus 0.8S of Moon			
April		October	
d h	d h	d h	d h
2 18 FULL MOON	16 23 Mercury 2.9S of Moon	1 12 Jupiter 5.1S of Moon	12 17 Mercury 2.3N of Moon
3 12 Spica 2.6N of Moon	17 2 NEW MOON	1 12 Venus at conjunction	12 22 Moon at perigee
4 3 Moon at perigee	17 6 Neptune stationary	2 10 Moon furthest North (26.7)	13 14 Moon at perigee
5 1 Venus 0.3N of Saturn	18 9 Jupiter 5.9S of Moon	4 1 LAST QUARTER	14 23 Antares 0.5S of Moon
6 10 Mercury stationary	19 13 Moon at apogee	5 3 Pollux 5.6N of Moon	15 18 Moon furthest South (-26.7)
6 8 Pluto at conjunction	21 14 Mars 2.8S of Moon	5 5 Mercury superior conjunction	18 1 FIRST QUARTER
6 14 Antares 0.0N of Moon	21 18 Moon furthest North (27.2)	15 19 Neptune 0.8N of Moon	18 11 Venus 1.5S of Moon
7 11 Moon furthest South (-27.3)	24 8 Pollux 5.0N of Moon	8 0 Regulus 2.8N of Moon	21 21 Saturn 5.5S of Moon
9 8 LAST QUARTER	25 5 FIRST QUARTER	10 11 Pluto at opposition	23 22 Uranus stationary
11 10 Uranus 0.8S of Moon	25 9 Neptune 0.7S of Moon	10 13 Jupiter 4.3N of Aldebaran	24 14 FULL MOON
13 18 Saturn 4.4S of Moon	27 5 Regulus 2.0N of Moon	10 21 Mars 5.3N of Moon	28 17 Jupiter 5.0S of Moon
14 15 Venus 4.9S of Moon	28 18 Mercury stationary	11 10 NEW MOON	29 10 Moon at apogee
16 9 Mercury inferior conjunction	30 23 Spica 2.7N of Moon	11 18 Mercury 5.8N of Moon	29 17 Moon furthest North (26.5)
		11 21 Spica 2.9N of Moon	
May		November	
d h	d h	d h	d h
2 2 FULL MOON	19 0 Moon furthest North (27.0)	1 11 Pollux 5.9N of Moon	12 9 Mercury 2.1N of Antares
2 9 Moon at perigee	19 9 Mars 1.5S of Moon	2 7 Mars 2.7N of Spica	14 6 Neptune stationary
3 18 Mercury 0.7S of Venus	21 15 Pollux 5.2N of Moon	2 19 LAST QUARTER	15 17 Uranus 1.7S of Moon
4 0 Antares 0.1S of Moon	22 16 Neptune 0.5S of Moon	2 22 Neptune 0.7N of Moon	16 11 FIRST QUARTER
4 19 Moon furthest South (-27.1)	22 17 Uranus stationary	4 10 Regulus 2.8N of Moon	18 1 Saturn 5.6S of Moon
8 4 Jupiter at conjunction	24 12 Regulus 2.2N of Moon	6 11 Venus 3.7N of Antares	18 18 Saturn stationary
8 17 Uranus 1.1S of Moon	24 18 FIRST QUARTER	8 7 Spica 2.9N of Moon	20 5 Mercury greatest elong E(22)
8 18 LAST QUARTER	28 10 Spica 2.8N of Moon	8 14 Mars 5.6N of Moon	24 8 Mercury stationary
9 5 Saturn 4.9S of Moon	29 22 Venus 0.2S of Jupiter	9 20 NEW MOON	24 17 Jupiter 5.0S of Moon
14 14 Mercury greatest elong W(26)	30 22 Moon at perigee	10 26 Moon at perigee	25 20 Moon at apogee
15 5 Jupiter 5.8S of Moon	31 9 FULL MOON	11 9 Antares 0.6S of Moon	26 3 Moon furthest North (26.4)
16 16 Moon at apogee	31 10 Antares 0.2S of Moon	11 19 Saturn 2.3N of Moon	28 3 Jupiter at opposition
16 18 NEW MOON		12 2 Moon furthest South (-26.5)	30 5 Neptune 0.9N of Moon
June		December	
d h	d h	d h	d h
1 5 Moon furthest South (-27.0)	15 9 NEW MOON	1 18 Regulus 3.1N of Moon	15 9 Saturn 5.7S of Moon
1 22 Mercury 1.0S of Jupiter	17 20 Pollux 5.3N of Moon	2 11 LAST QUARTER	16 1 FIRST QUARTER
5 1 Uranus 1.3S of Moon	18 2 Mars 0.1N of Moon	5 18 Spica 3.0N of Moon	20 1 Mercury stationary
6 13 Mercury 0.2S of Venus	18 14 Mercury superior conjunction	7 8 Venus 3.2N of Moon	21 6 Venus 3.2S of Moon
7 6 FULL MOON	18 23 Neptune 0.3S of Moon	8 20 Antares 0.7S of Moon	21 16 Solstice
7 14 Saturn 5.3S of Moon	20 18 Regulus 2.4N of Moon	9 6 NEW MOON	22 20 Moon at apogee
10 21 Mercury 5.2N of Aldebaran	21 2 Solstice	9 7 Moon at perigee	23 4 Moon furthest North (26.3)
12 22 Moon at apogee	23 2 FIRST QUARTER	9 8 Mercury 4.7N of Moon	24 14 FULL MOON
13 0 Jupiter 5.7S of Moon	24 8 Spica 3.0N of Moon	9 12 Moon furthest South (-26.4)	27 10 Neptune 1.0N of Moon
13 10 Mars 5.4S of Pollux	27 21 Antares 0.2S of Moon	9 23 Mercury inferior conjunction	29 0 Regulus 3.2N of Moon
13 16 Venus 4.9S of Aldebaran	28 6 Moon at perigee	11 7 Venus 1.3S of Moon	29 8 Venus 1.2S of Uranus
14 7 Mercury 4.9S of Moon	28 15 Moon furthest South (-27.0)	13 3 Uranus 1.9S of Moon	29 12 Mercury greatest elong W(22)
14 23 Venus 3.5S of Moon	29 16 FULL MOON		
15 5 Moon furthest North (27.0)			

Краткий астрономический календарь на 2088 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Астрономические явления 2088			
January		July	
d h	d h	d h	d h
1 17 FIRST QUARTER	15 14 Spica 0.5S of Moon	17 5	NEW MOON
3 13 Saturn 3.1S of Moon	15 15 LAST QUARTER	17 5	Occn
3 20 Mercury greatest elong E(19)	18 18 Moon at apogee	20 23	FULL MOON
5 10 Earth at perihelion	20 6 Mercury inferior conjunction	5 20	Earth at aphelion
5 22 Aldebaran 3.1S of Moon	20 7 Moon furthest South (-20.0)	8 10	Uranus 5.0S of Moon
6 13 Moon furthest North (20.0)	21 6 Venus 3.0S of Moon	11 17	LAST QUARTER
6 18 Moon at perigee	22 18 Mars 5.5S of Moon	12 18	Mercury superior conjunction
6 9 FULL MOON	23 5 Mercury 1.4S of Moon	14 4	Mercury 5.1S of Pollux
8 23 Saturn stationary	23 19 NEW MOON	14 4	Saturn 0.2S of Moon
10 15 Neptune 5.2N of Moon	26 1 Uranus 5.4S of Moon	14 19	Mars 2.1N of Moon
10 16 Pluto stationary	26 7 Mercury 4.7S of Mars	15 7	Aldebaran 2.4S of Moon
10 20 Mercury stationary	30 Saturn 2.7S of Moon	16 1	Moon furthest North (19.4)
11 9 Regulus 5.3N of Moon	31 3 FIRST QUARTER		
15 1 Jupiter 3.5N of Moon	31 18 Mercury stationary		
February		August	
d h	d h	d h	d h
2 6 Aldebaran 2.9S of Moon	15 14 Moon at apogee	1 15	Venus 1.0N of Regulus
2 18 Jupiter stationary	16 15 Moon furthest South (-19.8)	2 12	Mercury 0.8N of Regulus
2 22 Moon furthest North (19.9)	20 9 Mercury 5.6S of Moon	2 13	FULL MOON
3 17 Moon at perigee	20 15 Venus 5.6S of Moon	4 14	Uranus 4.9S of Moon
6 9 FULL MOON	22 11 Uranus 5.3S of Moon	5 8	Mercury 0.8S of Venus
6 10 Neptune 5.2N of Moon	22 11 Uranus 5.3S of Moon	10 0	LAST QUARTER
7 14 Mercury 1.5N of Venus	22 14 Uranus at conjunction	10 15	Saturn 0.0N of Moon
7 19 Regulus 5.1N of Moon	27 5 Saturn 2.2S of Moon	14 6	Aldebaran 2.2S of Moon
8 9 Neptune at opposition	27 13 Venus 0.2N of Mars	12 9	Neptune at conjunction
11 10 Jupiter 3.3N of Moon	29 11 Aldebaran 2.8S of Moon	12 10	Moon furthest North (19.2)
11 23 Spica 0.7S of Moon	29 11 FIRST QUARTER	12 11	Mars 3.9N of Moon
13 12 Mercury greatest elong W(26)	29 14 Moon at perigee	14 8	Moon at perigee
14 12 LAST QUARTER		16 9	Neptune 4.9N of Moon
March		September	
d h	d h	d h	d h
1 4 Moon furthest North (19.7)	19 15 Equinox	1 2	FULL MOON
2 0 Mercury 0.7S of Mars	19 23 Mars 0.4S of Uranus	5 4	Mercury stationary
5 7 Neptune 5.2N of Moon	20 23 Uranus 5.3S of Moon	6 21	Saturn 0.2N of Moon
6 4 Regulus 5.1N of Moon	21 8 Mars 5.7S of Moon	6 21	Venus superior conjunction
7 9 Mercury 1.0S of Venus	21 20 Uranus 5.3S of Moon	7 21	Aldebaran 2.0S of Moon
7 10 FULL MOON	22 10 Mercury 5.3S of Moon	8 6	LAST QUARTER
9 16 Jupiter 3.4N of Moon	22 23 NEW MOON	8 16	Saturn stationary
10 8 Spica 0.9S of Moon	25 16 Saturn 1.8S of Moon	8 17	Moon furthest North (19.0)
10 15 Mercury 1.5S of Uranus	26 7 Moon at perigee	10 0	Mars 5.3N of Moon
11 16 Venus 0.5S of Uranus	27 17 Aldebaran 2.6S of Moon	10 15	Moon at perigee
14 11 Moon at apogee	28 9 Moon furthest North (19.5)	11 11	Venus 0.7S of Jupiter
14 23 Moon furthest South (-19.6)	29 17 Mercury superior conjunction	12 20	Neptune 5.0N of Moon
15 9 LAST QUARTER	29 18 FIRST QUARTER	13 11	Regulus 4.8N of Moon
April		October	
d h	d h	d h	d h
1 12 Neptune 5.3N of Moon	22 22 Venus 2.3S of Moon	2 7	Jupiter 3.1N of Spica
1 11 Regulus 5.2N of Moon	21 10 NEW MOON	2 14	Mars 5.9S of Pollux
2 18 Jupiter at opposition	22 7 Saturn 1.3S of Moon	4 2	Saturn 0.1N of Moon
5 18 Jupiter 3.6N of Moon	22 20 Mercury 4.1N of Moon	4 18	Mercury greatest elong W(18)
6 0 FULL MOON	23 4 Moon at perigee	5 2	Aldebaran 1.9S of Moon
6 16 Spica 1.0S of Moon	24 1 Aldebaran 2.5S of Moon	5 15	Moon at perigee
10 19 Pluto at conjunction	24 17 Moon furthest North (19.5)	5 22	Moon furthest North (19.0)
11 5 Moon at apogee	24 18 Mercury greatest elong E(20)	7 12	LAST QUARTER
11 7 Moon furthest South (-19.5)	27 18 Neptune stationary	10 4	Neptune 5.0N of Moon
14 4 LAST QUARTER	28 1 FIRST QUARTER	10 18	Regulus 4.8N of Moon
16 6 Mercury 4.0N of Saturn	28 17 Neptune 5.4N of Moon	13 10	Mercury 3.8N of Moon
17 11 Uranus 5.2S of Moon	29 17 Regulus 5.3N of Moon	14 14	NEW MOON
19 2 Mars 4.3S of Moon		14 19	Pluto at opposition
May		November	
d h	d h	d h	d h
2 18 Jupiter 3.8N of Moon	19 23 Saturn 0.9S of Moon	1 10	Aldebaran 1.9S of Moon
3 22 Spica 1.0S of Moon	20 9 Mercury 0.2S of Moon	1 15	Moon furthest South (-19.0)
5 16 FULL MOON	20 18 NEW MOON	2 5	Moon furthest North (19.0)
5 23 Mercury stationary	20 20 Venus 1.9N of Moon	3 13	Mercury superior conjunction
6 9 Saturn at conjunction	21 11 Aldebaran 2.5S of Moon	5 19	LAST QUARTER
8 14 Moon furthest South (-19.5)	21 11 Moon at perigee	6 10	Neptune 5.0N of Moon
8 19 Moon at apogee	24 18 Mercury greatest elong E(20)	7 0	Regulus 4.8N of Moon
9 10 Venus 1.3N of Saturn	26 0 Neptune 5.3N of Moon	7 3	Spica 1.9S of Moon
9 20 LAST QUARTER	26 23 Regulus 5.2N of Moon	11 4	Jupiter 0.8N of Moon
14 21 Uranus 5.3S of Moon	27 9 FIRST QUARTER	12 14	Uranus stationary
15 15 Mercury inferior conjunction	28 9 Venus 5.4N of Aldebaran	13 6	NEW MOON
16 17 Mercury 0.3S of Venus	28 20 Mercury stationary	13 19	Mercury 3.5S of Moon
17 9 Venus superior conjunction	29 21 Jupiter 3.8N of Moon		
18 2 Mars 2.3S of Moon	31 4 Spica 1.1S of Moon		
June		December	
d h	d h	d h	d h
4 8 FULL MOON	18 15 Moon furthest North (19.5)	3 16	Neptune 4.9N of Moon
4 22 Moon furthest South (-19.5)	18 20 Moon at perigee	4 6	Regulus 4.7N of Moon
4 23 Jupiter stationary	19 1 NEW MOON	5 5	LAST QUARTER
5 0 Moon at apogee	19 17 Venus 5.3N of Moon	5 5	Saturn stationary
11 5 Uranus 5.2S of Moon	20 7 Solstice	8 8	Spica 2.0S of Moon
11 12 Uranus stationary	21 22 Mercury 3.4N of Aldebaran	9 12	Jupiter 0.1S of Moon
11 22 Mercury greatest elong W(24)	22 10 Neptune 5.1N of Moon	13 0	NEW MOON
12 8 LAST QUARTER	23 7 Regulus 5.0N of Moon	13 4	Moon furthest South (-19.0)
16 0 Mars 0.1S of Moon	25 20 FIRST QUARTER	15 3	Moon at apogee
16 15 Saturn 0.6S of Moon	26 4 Jupiter 3.5N of Moon	16 23	Mercury greatest elong E(20)
17 11 Mercury 0.3S of Moon	27 10 Spica 1.2S of Moon	19 3	Uranus 4.7S of Moon
17 21 Aldebaran 2.5S of Moon	30 14 Mars 1.3N of Saturn	20 21	Solstice

Краткий астрономический календарь на 2085 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Астрономические явления 2085			
January		July	
d h	d h	d h	d h
3 0 FIRST QUARTER	18 16 Spica 3.0N of Moon	1 13	Spica 2.8N of Moon
3 1 Earth at perihelion	19 1 LAST QUARTER	1 11	Mercury stationary
5 11 Mars 2.6S of Moon	22 2 Antares 2.0S of Moon	3 16	Venus 1.7N of Neptune
6 21 Pluto stationary	22 15 Moon furthest South (-24.8)	5 0	Antares 2.7S of Moon
8 5 Moon furthest North (24.9)	25 3 Venus 2.0S of Moon	5 1	Earth at aphelion
9 22 Jupiter 0.1S of Moon	25 4 Mercury superior conjunction	5 12	Moon furthest South (-24.1)
10 22 FULL MOON	25 18 Moon at perigee	7 10	FULL MOON
12 5 FULL MOON	25 6 NEW MOON	8 20	Moon at apogee
12 19 Neptune 2.8N of Moon	25 20 NEW MOON	10 21	Uranus 4.9S of Moon
14 7 Regulus 4.8N of Moon	26 19 Uranus 4.0S of Moon	12 2	Mars 5.8N of Moon
February		August	
d h	d h	d h	d h
1 2 Neptune at opposition	1 2 Venus 0.5S of Uranus	1 9	Antares 2.8S of Moon
1 14 FIRST QUARTER	17 14 LAST QUARTER	1 21	Moon furthest South (-24.0)
2 12 Mars 1.8S of Moon	18 10 Antares 2.2S of Moon	5 13	Mercury greatest elong W(19)
3 5 Mercury 1.2S of Uranus	18 23 Moon furthest South (-24.7)	5 17	FULL MOON
4 10 Moon furthest North (24.8)	22 14 Mercury greatest elong E(18)	5 17	Neptune at conjunction
5 22 Jupiter 0.3S of Moon	23 6 Moon at perigee	6 9	Uranus 4.8S of Moon
8 4 Moon at apogee	23 8 Uranus 4.2S of Moon	11 17	Mercury 0.4S of Jupiter
8 0 Neptune 2.8N of Moon	24 2 Venus 5.5S of Moon	12 9	LAST QUARTER
9 19 FULL MOON	24 2 FIRST QUARTER	13 13	Moon furthest North (24.0)
10 0 Uranus at conjunction	25 12 Mercury 2.9S of Moon	16 3	Uranus at opposition
10 13 Regulus 4.8N of Moon	28 15 Jupiter stationary	18 7	Jupiter 3.2N of Moon
14 22 Spica 2.8N of Moon	28 21 Mercury stationary	18 19	Mercury 1.1N of Neptune
March		September	
d h	d h	d h	d h
2 21 Mars 0.7S of Moon	18 6 Moon furthest South (-24.5)	2 18	Uranus 4.8S of Moon
3 7 FIRST QUARTER	19 0 LAST QUARTER	3 10	Venus 1.2N of Spica
3 17 Moon furthest North (24.7)	19 21 Equinox	3 14	Moon at perigee
5 3 Jupiter 0.1S of Moon	22 8 Venus 0.8N of Saturn	4 0	FULL MOON
6 12 Venus superior conjunction	22 21 Uranus 4.4S of Moon	10 19	Moon furthest North (23.8)
7 14 Moon at apogee	23 1 Mercury stationary	10 21	LAST QUARTER
8 5 Neptune 2.8N of Moon	23 11 Moon at perigee	10 21	LAST QUARTER
9 19 Regulus 4.8N of Moon	24 2 Mercury 3.8S of Moon	15 1	Jupiter 3.8N of Moon
10 0 Mercury 5.0N of Venus	25 16 NEW MOON	15 9	Mercury 0.2S of Mars
10 14 Mercury inferior conjunction	26 22 Saturn at conjunction	15 13	Neptune 3.8N of Moon
11 12 FULL MOON	31 2 Moon furthest North (24.5)	16 12	Moon at apogee
14 4 Spica 2.8N of Moon	31 12 Mars 0.7N of Moon	16 21	Regulus 4.8N of Moon
17 16 Antares 2.3S of Moon			
April		October	
d h	d h	d h	d h
1 14 Jupiter 0.3N of Moon	17 7 LAST QUARTER	1 22	Moon at perigee
2 1 FIRST QUARTER	19 5 Uranus 4.6S of Moon	3 8	FULL MOON
4 8 Moon at apogee	19 21 Moon at perigee	6 2	Saturn at opposition
4 11 Neptune 3.0N of Moon	21 7 Neptune stationary	6 4	Moon furthest North (23.6)
6 2 Regulus 4.6N of Moon	22 15 Mercury 0.5S of Saturn	10 8	Venus greatest elong E(47)
7 8 Mercury greatest elong W(28)	24 3 NEW MOON	10 13	LAST QUARTER
8 0 Pluto at conjunction	25 2 Venus 3.9S of Moon	12 0	Pluto at opposition
10 3 FULL MOON	27 10 Moon furthest North (24.3)	12 17	Jupiter 4.3N of Moon
10 11 Spica 2.8N of Moon	29 5 Jupiter 0.8N of Moon	12 21	Neptune 4.0N of Moon
13 22 Antares 2.5S of Moon	29 5 Mars 2.2N of Moon	13 23	Mars 2.5N of Spica
14 11 Moon furthest South (-24.4)	29 17 Mars 1.4N of Jupiter	14 0	Moon at apogee
May		November	
d h	d h	d h	d h
1 19 Neptune 3.2N of Moon	22 17 Mars 5.2S of Pollux	1 19	Jupiter 0.8N of Neptune
1 20 FIRST QUARTER	23 14 NEW MOON	1 19	FULL MOON
4 4 Moon at apogee	24 6 Mercury 0.5S of Moon	4 13	Moon furthest North (23.4)
3 10 Regulus 4.8N of Moon	24 19 Moon furthest North (24.2)	7 13	Mercury inferior conjunction
7 19 Spica 2.7N of Moon	25 7 Venus 0.3N of Moon	9 6	Neptune 4.2N of Moon
9 15 FULL MOON	26 23 Jupiter 1.4N of Moon	9 7	Jupiter 4.7N of Moon
11 5 Antares 2.7S of Moon	27 23 Mars 3.7N of Moon	9 8	LAST QUARTER
11 18 Moon furthest South (-24.2)	29 4 Neptune 3.3N of Moon	10 6	Uranus 0.3N of Mars
13 16 Venus 5.9N of Aldebaran	29 22 Moon at apogee	10 11	Regulus 5.3N of Moon
14 23 Moon at perigee	30 10 Uranus stationary	10 18	Moon at apogee
16 12 Uranus 4.8S of Moon	30 18 Regulus 4.9N of Moon	14 22	Spica 2.3N of Moon
16 13 LAST QUARTER	31 14 FIRST QUARTER	16 1	Mercury 5.7N of Moon
17 12 Mercury superior conjunction			
June		December	
d h	d h	d h	d h
4 4 Spica 2.7N of Moon	21 1 Moon furthest North (24.1)	1 8	FULL MOON
7 13 Antares 2.7S of Moon	21 17 Mars 1.3N of Neptune	1 23	Moon furthest North (-23.3)
8 2 FULL MOON	22 3 NEW MOON	3 23	Jupiter stationary
8 2 Moon furthest South (-24.1)	23 18 Jupiter 2.0N of Moon	6 14	Neptune 4.3N of Moon
10 20 Moon at perigee	24 6 Mercury 2.0N of Moon	6 17	Jupiter 5.0N of Moon
12 18 Uranus 4.9S of Moon	24 15 Venus 4.3N of Moon	7 19	Regulus 5.3N of Moon
14 6 Venus 1.3N of Jupiter	25 13 Neptune 3.4N of Moon	8 15	Moon at apogee
14 18 LAST QUARTER	25 17 Mars 4.8N of Moon	9 5	LAST QUARTER
15 20 Mercury 1.1N of Jupiter	26 14 Moon at apogee	9 21	Mercury 0.9N of Mars
18 8 Venus 5.1S of Pollux	27 2 Regulus 5.0N of Moon	12 7	Spica 2.4N of Moon
19 4 Mercury greatest elong E(25)	30 6 FIRST QUARTER	13 13	Saturn stationary
20 14 Solstice		14 8	Mercury 4.8N of Antares
		15 16	Mars 1.1N of Moon
		15 20	Antares 3.5S of Moon

Краткий астрономический календарь на 2092 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Краткий астрономический календарь на 2089 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Астрономические явления 2092				
January		July		
d h	d h	d h	d h	
2 8	LAST QUARTER	17 14	Mercury superior conjunction	
3 21	Earth at perihelion	18 6	Moon at apogee	
6 12	Moon at perigee	20 8	Aldebaran 0,5S of Moon Occn	
8 8	Moon furthest South (-19,5)	21 6	Mercury 1,7S of Jupiter	
8 15	Mercury 4,9S of Moon	22 5	Saturn 3,1N of Moon	
9 1	NEW MOON	22 14	Moon furthest North (19,5)	
9 22	Jupiter 2,4S of Moon	24 8	Jupiter at conjunction	
10 19	Mars 2,1S of Moon	24 11	Venus 0,2S of Uranus	
12 7	Venus 0,7S of Moon	24 14	FULL MOON	
13 8	Uranus 1,3N of Moon	26 11	Neptune 0,0N of Moon Occn	
14 12	Pluto stationary	26 14	Regulus 0,2S of Moon Occn	
14 14	FIRST QUARTER	31 17	LAST QUARTER	
February				
d h	d h	d h	d h	
2 8	Moon at perigee	17	Neptune at opposition	
4 17	Moon furthest South (-19,5)	18 11	Saturn 3,3N of Moon	
6 19	Jupiter 1,9S of Moon	18 23	Moon furthest North (19,5)	
7 15	NEW MOON	21 4	Mercury 2,9N of Uranus	
8 21	Mercury 0,4N of Moon	22 9	Mercury stationary	
8 22	Mars 0,2N of Moon	22 18	Neptune 0,0N of Moon Occn	
10 16	Mercury 0,4N of Mars	22 23	Venus 0,3S of Moon Occn	
10 20	Uranus 1,0N of Moon	23 5	FULL MOON	
11 10	Venus 4,4N of Moon	23 12	Mercury 3,5N of Uranus	
13 3	Moon at apogee	24 18	Mercury 3,9N of Mars	
15 11	FIRST QUARTER	25 4	Mars 0,1S of Uranus	
16 8	Mercury greatest elong E(18)	27 6	Moon at perigee	
16 16	Aldebaran 0,5S of Moon	Occn		
March				
d h	d h	d h	d h	
1 0	LAST QUARTER	15 10	Mercury stationary	
3 0	Moon furthest South (-19,5)	16 8	FIRST QUARTER	
3 1	Mercury inferior conjunction	16 20	Saturn 3,3N of Moon	
3 8	Saturn stationary	17 8	Moon furthest North (19,5)	
3 12	Venus greatest elong E(46)	19 14	EQUINOX	
5 13	Jupiter 1,3S of Moon	21 3	Neptune 0,0N of Moon Occn	
7 12	Mercury 4,6N of Moon	21 9	Regulus 0,4S of Moon Occn	
8 6	NEW MOON	23 17	FULL MOON	
8 8	Mars 1,6N of Moon	25 19	Moon at perigee	
9 1	Mars 2,3N of Moon	30 5	Moon furthest South (-19,6)	
9 9	Uranus at conjunction	30 8	LAST QUARTER	
13 23	Moon at apogee	30 10	Mercury greatest elong W(28)	
15 0	Aldebaran 0,5S of Moon	Occn		
April				
d h	d h	d h	d h	
2 5	Jupiter 0,8S of Moon	Occn	15 11	FIRST QUARTER
4 12	Mercury 0,2N of Moon	Occn	17 1	Neptune 0,1S of Moon Occn
4 17	Uranus 1,8N of Moon	Occn	19 19	Regulus 0,5S of Moon Occn
6 18	Mercury 1,5S of Uranus	21 9	Mars at conjunction	
6 21	NEW MOON	22 2	FULL MOON	
7 4	Mars 3,9N of Moon	22 12	Venus stationary	
10 14	Moon at apogee	23 1	Moon at perigee	
11 7	Aldebaran 0,7S of Moon	Occn	26 12	Moon furthest South (-19,8)
13 6	Saturn 3,1N of Moon	Occn	28 17	LAST QUARTER
13 16	Moon furthest North (19,7)	Occn	29 19	Jupiter 0,3S of Moon
14 21	Pluto at conjunction	Occn		
May				
d h	d h	d h	d h	
2 1	Uranus 2,0N of Moon	13 20	Venus inferior conjunction	
2 2	Mercury 4,2N of Moon	14 15	FIRST QUARTER	
4 14	Mars 4,0N of Moon	14 19	Neptune 0,3S of Moon Occn	
6 13	NEW MOON	15 3	Regulus 0,7S of Moon Occn	
6 21	Neptune stationary	17 17	Venus 2,6N of Mars	
7 10	Mercury 0,3S of Mars	21 9	FULL MOON	
7 22	Moon at apogee	21 10	Moon at perigee	
8 14	Aldebaran 0,9S of Moon	Occn	23 22	Moon furthest South (-20,0)
10 12	Mercury superior conjunction	27 6	Jupiter 0,1N of Moon Occn	
10 17	Saturn 2,6N of Moon	Occn	28 3	LAST QUARTER
10 22	Moon furthest North (19,9)	Occn	29 9	Uranus 2,3N of Moon
12 10	Mercury 3,3S of Venus	Occn		
June				
d h	d h	d h	d h	
2 17	Venus 4,0N of Moon	13 2	FIRST QUARTER	
2 20	Venus stationary	13 19	Mars 5,7N of Aldebaran	
4 1	Moon at apogee	14 17	Jupiter stationary	
4 6	Mars 4,9N of Moon	18 20	Moon at perigee	
4 20	Aldebaran 0,9S of Moon	Occn	19 16	FULL MOON
5 5	NEW MOON	20 7	Solstice	
6 0	Mercury 2,3N of Saturn	20 9	Moon furthest South (-20,1)	
7 5	Moon furthest North (20,0)	23 19	Jupiter 0,1N of Moon Occn	
7 5	Saturn 2,3N of Moon	24 8	Mercury stationary	
7 8	Mercury 4,6N of Moon	25 17	Uranus 2,5N of Moon	
11 1	Mercury greatest elong E(24)	26 16	LAST QUARTER	
11 2	Neptune 0,5S of Moon	Occn	27 21	Venus stationary
11 10	Regulus 0,9S of Moon	Occn	30 21	Uranus 1,3N of Moon
December				
d h	d h	d h	d h	
1 9	Moon furthest South (-20,7)	19 16	Neptune 1,7S of Moon	
3 12	Neptune stationary	19 18	Venus 5,4N of Antares	
4 4	Jupiter 0,3N of Moon	Occn	20 21	Solstice
5 22	FIRST QUARTER	21 23	LAST QUARTER	
6 7	Uranus 2,8N of Moon	22 14	Mars 2,6S of Moon	
11 2	Mercury 4,8N of Antares	27 9	Mercury superior conjunction	
12 22	Aldebaran 1,3S of Moon	27 13	Venus 3,4S of Moon	
13 21	FULL MOON	28 7	Moon at perigee	
14 4	Moon at apogee	28 16	NEW MOON	
15 10	Moon furthest North (20,8)	28 17	Mercury 4,0S of Moon	
16 9	Saturn 1,0N of Moon	Occn	28 20	Moon furthest South (-20,8)
19 14	Regulus 1,7S of Moon	Occn	31 22	Jupiter 0,9N of Moon

Астрономические явления 2089				
January		July		
d h	d h	d h	d h	
2 18	Earth at perihelion	19 19	FIRST QUARTER	
3 10	Mercury inferior conjunction	21 7	Saturn 0,2N of Moon Occn	
3 18	LAST QUARTER	21 11	Saturn stationary	
4 14	Spica 2,2S of Moon	22 17	Aldebaran 1,6S of Moon	
6 3	Jupiter 0,7S of Moon	Occn	23 16	Moon furthest North (18,8)
8 23	Venus 0,7N of Uranus	25 19	Moon at perigee	
9 12	Moon furthest South (-18,9)	25 21	Mercury greatest elong W(25)	
10 15	Mercury 1,5S of Moon	26 11	FULL MOON	
10 21	Pluto stationary	27 10	Neptune 4,6N of Moon	
11 4	Moon at apogee	28 1	Regulus 4,4N of Moon	
11 20	NEW MOON	30 0	Mars nearest to Earth	
14 8	Mercury stationary	31 20	Mars at opposition	
15 11	Uranus 4,4S of Moon	31 22	Spica 2,4S of Moon	
15 21	Venus 2,5S of Moon	Occn		
February				
d h	d h	d h	d h	
2 10	LAST QUARTER	17 14	Saturn 0,6N of Moon Occn	
2 16	Jupiter 1,1S of Moon	Occn	18 7	FIRST QUARTER
5 19	Moon furthest South (-18,7)	19 1	Aldebaran 1,4S of Moon	
7 10	Moon at apogee	20 1	Moon furthest North (18,6)	
8 16	Mercury 5,8S of Moon	23 11	Moon at perigee	
8 16	Venus stationary	23 20	Neptune 4,6N of Moon	
9 19	Neptune at opposition	24 12	Regulus 4,3N of Moon	
10 15	NEW MOON	24 22	FULL MOON	
11 19	Uranus 4,2S of Moon	25 19	Uranus at conjunction	
13 0	Venus 3,8N of Moon	28 7	Spica 2,5S of Moon	
March				
d h	d h	d h	d h	
2 3	Jupiter 1,3S of Moon	13 13	Mars stationary	
3 20	Venus greatest elong W(9)	16 23	Saturn 1,0N of Moon Occn	
3 21	Venus inferior conjunction	18 7	Aldebaran 1,3S of Moon	
4 5	Jupiter stationary	19 7	Moon furthest North (18,5)	
4 5	LAST QUARTER	19 15	FIRST QUARTER	
6 2	Mercury 1,3S of Uranus	19 21	Equinox	
5	Moon furthest South (-18,6)	22 19	Venus stationary	
7 3	Moon at apogee	22 23	Moon at perigee	
11 5	Uranus 4,1S of Moon	23 4	Neptune 4,7N of Moon	
11 7	Venus 5,2N of Moon	23 21	Regulus 4,3N of Moon	
12 6	Mercury 4,0S of Moon	26 9	FULL MOON	
12 8	NEW MOON	27 17	Spica 2,7S of Moon	
13 1	Mercury superior conjunction	29 11	Jupiter 1,2S of Moon	
April				
d h	d h	d h	d h	
1 10	Moon furthest South (-18,5)	15 12	Moon furthest North (18,5)	
3 0	LAST QUARTER	16 18	Mercury stationary	
3 23	Moon at apogee	17 15	Moon at perigee	
7 10	Mercury greatest elong E(19)	18 21	FIRST QUARTER	
7 15	Uranus 0,3N of Moon	Occn	19 10	Neptune 4,7N of Moon
7 16	Venus 4,0S of Moon	20 4	Regulus 4,3N of Moon	
8 16	Venus 4,1N of Uranus	24 2	Spica 2,7S of Moon	
10 22	NEW MOON	24 21	FULL MOON	
12 2	Pluto at conjunction	25 15	Jupiter 1,0S of Moon Occn	
12 8	Mercury 5,0N of Moon	26 23	Mercury inferior conjunction	
13 11	Saturn 1,3N of Moon	28 19	Moon furthest South (-18,5)	
14 13	Aldebaran 1,3S of Moon	30 8	Neptune stationary	
May				
d h	d h	d h	d h	
1 18	Moon at apogee	14 20	Mars 1,5N of Neptune	
2 19	LAST QUARTER	16 15	Neptune 4,6N of Moon	
4 17	Jupiter at opposition	16 17	Mars 6,0N of Moon	
5 3	Uranus 3,9S of Moon	17 3	FIRST QUARTER	
6 17	Venus 2,1S of Moon	17 10	Regulus 4,2N of Moon	
9 1	Mercury 0,8S of Moon	Occn	21 0	Saturn at conjunction
9 7	Mercury stationary	21 9	Spica 2,8S of Moon	
10 10	NEW MOON	22 16	Jupiter 0,8S of Moon Occn	
11 1	Saturn 1,6N of Moon	24 10	FULL MOON	
11 20	Aldebaran 1,3S of Moon	24 13	Mercury greatest elong W(18,6)	
12 20	Moon furthest North (18,6)	26 1	Moon furthest South (-18,6)	
13 1	Venus greatest elong W(46)	29 11	Moon at apogee	
13 16	Moon at perigee	Occn		
June				
d h	d h	d h	d h	
1 12	LAST QUARTER	13 23	Mars 4,5N of Moon	
1 12	Uranus 3,7S of Moon	15 4	Mercury 4,6N of Aldebaran	
5 9	Uranus 1,0S of Moon	Occn	15 9	FIRST QUARTER
5 21	Mars 0,8N of Regulus	15 19	Uranus stationary	
7 6	Mercury 1,1N of Moon	Occn	17 15	Spica 2,9S of Moon
7 16	Saturn 1,9N of Moon	18 17	Jupiter 0,9S of Moon Occn	
8 6	Aldebaran 1,3S of Moon	20 13	Solstice	
8 18	NEW MOON	22 12	Moon furthest South (-18,6)	
9 6	Moon furthest North (18,6)	23 0	FULL MOON	
10 11	Moon at perigee	26 0	Moon at apogee	
11 2	Mercury 0,2N of Saturn	27 4	Mercury superior conjunction	
12 23	Neptune 4,5N of Moon	28 20	Uranus 3,5S of Moon	
13 16	Regulus 4,0N of Moon	Occn		
August				
d h	d h	d h	d h	
1 22	Saturn 2,5N of Moon	12 8	Jupiter 1,6S of Moon	
2 1	Aldebaran 1,0S of Moon	Occn	13 3	FIRST QUARTER
3 4	Moon furthest North (18,5)	14 22	Neptune at conjunction	
3 23	Venus 4,1N of Moon	16 22	Moon furthest South (-18,4)	
5 9	Mercury greatest elong E(27)	18 13	Mercury stationary	
6 3	Moon at perigee	19 9	Moon at apogee	
6 8	NEW MOON	21 6	FULL MOON	
6 20	Neptune 4,1N of Moon	22 5	Uranus 3,4S of Moon	
7 10	Regulus 3,7N of Moon	25 1	LAST QUARTER	
8 6	Mercury 0,3N of Moon	Occn	29 9	Aldebaran 0,9S of Moon Occn
9 23	Mars 0,6N of Moon	Occn	29 9	Saturn 2,6N of Moon
11 4	Spica 3,3S of Moon	30 13	Moon furthest North (18,3)	
September				
d h	d h	d h	d h	
1 15	Uranus at opposition	11 18	FIRST QUARTER	
2 2	Mercury inferior conjunction	12 9	Moon furthest South (-18,2)	
2 19	Venus 4,7N of Moon	15 19	Moon at apogee	
3 9	Neptune 4,0N of Moon	16 4	Venus 0,6N of Regulus	
3 12	Moon at perigee	18 9	Uranus 3,4S of Moon	
3 21	Regulus 3,7N of Moon	18 11	Mercury greatest elong W(18)	
4 8	Mercury 0,7S of Moon	Occn	19 21	FULL MOON
4 12	NEW MOON	22 6	Equinox	
4 18	Saturn 3,5N of Aldebaran	22 18	Saturn stationary	
5 2	Mars 2,0N of Spica	25 15	Aldebaran 0,8S of Moon Occn	
5 13	Spica 3,4S of Moon	25 15	Saturn 2,7N of Moon	
7 16	Mars 1,5S of Moon	26 19	Moon furthest North (18,2)	
9 0	Jupiter 2,1S of Moon	27 9	LAST QUARTER	
10 6	Venus 0,5N of Neptune	30 19	Neptune 4,0N of Moon	
10 14	Mercury stationary	Occn		
October				
d h	d h	d h	d h	
1 6	Regulus 3,7N of Moon	14 5	Mercury superior conjunction	
1 16	Moon at perigee	15 15	Uranus 3,5S of Moon	
2 15	Venus 3,0N of Moon	16 1	Pluto at opposition	
3 8	Mercury 2,3N of Moon	16 18	Mercury 2,8N of Spica	
4 19	LAST QUARTER	19 13	FULL MOON	
5 0	Spica 3,4S of Moon	22 19	Saturn 2,5N of Moon	
6 12	Mars 3,5S of Moon	22 20	Aldebaran 0,9S of Moon Occn	
6 19	Jupiter 2,6S of Moon	24 1	Moon furthest North (18,3)	
9 17	Moon furthest South (-18,2)	26 16	LAST QUARTER	
10 8	Saturn 3,5N of Aldebaran	28 3	Neptune 3,8N of Moon	
11 11	FIRST QUARTER	28 13	Regulus 3,6N of Moon	
13 11	Moon at apogee	28 22	Moon at perigee	
13 15	Mars 2,1N of Jupiter	29 17	Venus 3,4N of Spica	
November				
d h	d h	d h	d h	
1 9	Spica 3,5S of Moon	14 0	Saturn 2,4N of Moon	
1 15	Venus 0,4S of Moon	Occn	19 0	Mercury 0,9S of Moon Occn
2 12	NEW MOON	20 8	Moon furthest North (18,4)	
3 11	Mercury 4,8S of Moon	20 21	Mercury 1,7S of Mars	
3 15	Jupiter 4,8N of Moon	21 3	Jupiter at conjunction	
4 11	Mars 5,0S of Moon	22 17	Moon at perigee	
5 3	Mercury 2,1S of Jupiter	24 9	Neptune 3,7N of Moon	
6 2	Moon furthest South (-18,3)	24 19	Regulus 3,5N of Moon	
7 1	FIRST QUARTER	24 23	LAST QUARTER	
10 7	Mars 3,8N of Antares	27 2	Neptune stationary	
10 7	Moon at apogee	27 13	Venus 0,2S of Jupiter	
11 22	Uranus 3,4S of Moon	28 16	Spica 3,6S of Moon	
15 7	Mercury 2,4N of Antares	29 8	Saturn at opposition	
16 20	Uranus stationary	29 21	Mercury greatest elong E(22)	
18 3	FULL MOON	Occn		
December				
d h	d h	d h	d h	
1 10	Jupiter 3,4S of Moon	17 19	Moon furthest North (18,4)	
1 15	Venus 3,9S of Moon	18 13	Mercury 2,2N of Venus	
2 3	Mercury 3,8N of Moon	18 3	Mercury inferior conjunction	
3 12	Mars 5,8S of Moon	19 23	Moon at perigee	
3 12	Moon furthest South (-18,4)	21 3	Solstice	
5 6	Venus 4,8N of Antares	21 15	Neptune 3,6N of Moon	
8 4	Moon at apogee	22 1	Regulus 3,3N of Moon	
9	Mercury stationary	24 7	LAST QUARTER	
9 7	Uranus 2,8S of Moon	25 22	Spica 3,8S of Moon	
10 4	FIRST QUARTER	28 23	Mercury stationary	
11 20	Mercury 0,7N of Mars	29 4	Jupiter 3,8S of Moon	
16 6	Saturn 2,4N of Moon	30 2	Mercury 2,0S of Moon	
16 13	Aldebaran 0,9S of Moon	Occn	30 21	Moon furthest South (-18,4)
16 23	Venus superior conjunction	31 19	NEW MOON	
17 15	FULL MOON	Occn		

Краткий астрономический календарь на 2090 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Краткий астрономический календарь на 2091 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Астрономические явления 2090			
January		July	
d h	d h	d h	d h
1 3	Venus 5,6S of Moon	1 0	Venus 1,3N of Neptune
1 4	Mars 5,8S of Moon	1 12	Regulus 2,4N of Moon
1 22	Moon at apogee	4 10	FIRST QUARTER
4 4	Moon at perihelion	4 10	Aldebaran 0,5S of Moon Occn
5 4	Earth at perihelion	4 20	Neptune 3,7N of Moon
5 16	Uranus 2,9S of Moon	4 20	Earth at aphelion
8 8	Mercury greatest elong W(23)	5 7	Spica 4,7S of Moon
9 1	FIRST QUARTER	8 2	Venus 0,8N of Regulus
12 2	Pluto stationary	8 17	Jupiter 4,3S of Moon
12 3	Venus 0,1S of Mars	10 7	Moon furthest South (-18,4)
12 13	Saturn 2,6N of Moon	10 19	Jupiter 5,2N of Antares
13 0	Aldebaran 0,8S of Moon Occn	11 17	FULL MOON
14 3	Jupiter 5,3N of Antares	16 7	Uranus 1,5S of Moon
14 7	Moon furthest North (18,4)	16 17	Moon at apogee
		17 10	Mars 1,5N of Saturn
		18 13	Mercury greatest elong E(27)
			Pluto stationary
February		August	
d h	d h	d h	d h
1 9	Moon at apogee	1 13	Spica 4,8S of Moon
2 1	Uranus 2,6S of Moon	2 16	FIRST QUARTER
4 5	Saturn stationary	4 20	Jupiter 4,5S of Moon
7 18	FIRST QUARTER	6 8	Jupiter stationary
8 5	Mars at conjunction	6 14	Moon furthest South (-18,3)
8 21	Saturn 2,9N of Moon	6 14	Jupiter 4,3S of Moon
9 10	Aldebaran 0,6S of Moon Occn	12 12	Uranus 1,4S of Moon
10 18	Moon furthest North (18,3)	13 8	Mercury 5,2S of Neptune
12 5	Neptune at opposition	13 8	Moon at apogee
14 9	Neptune 3,4N of Moon	15 11	Mercury inferior conjunction
14 13	FULL MOON	17 11	Neptune at conjunction
14 16	Moon at perigee	18 10	LAST QUARTER
March		September	
d h	d h	d h	d h
1 9	NEW MOON	1 0	FIRST QUARTER
1 10	Uranus 2,4S of Moon	1 4	Jupiter 4,7S of Moon
1 21	Mercury 2,6S of Moon	1 14	Jupiter 5,0N of Antares
1 23	Uranus at conjunction	1 22	Mercury greatest elong W(18)
3 1	Venus 1,1S of Moon	2 20	Moon furthest South (-18,2)
6 4	Saturn 3,1N of Moon	5 4	Mercury 0,2N of Neptune
8 12	Mars 0,3S of Uranus	5 23	Uranus at opposition
8 17	Aldebaran 0,5S of Moon Occn	7 12	Mars 5,9S of Pollux
9 8	FIRST QUARTER	8 16	Uranus 1,5S of Moon
10 3	Moon furthest North (18,1)	8 19	Mercury 0,7N of Regulus
13 19	Neptune 3,4N of Moon	8 22	FULL MOON
14 4	Regulus 2,9N of Moon	12 0	Venus stationary
15 4	Moon at perigee	15 22	Aldebaran 0,2S of Moon Occn
		16 23	LAST QUARTER
April		October	
d h	d h	d h	d h
1 3	Mercury 5,3N of Moon	1 17	Venus inferior conjunction
2 9	Venus 3,2N of Moon	5 20	Uranus 1,5S of Moon
4 16	Saturn 3,9N of Moon	6 16	Moon at apogee
4 23	Aldebaran 0,5S of Moon Occn	7 3	Saturn stationary
5 3	Jupiter stationary	8 15	FULL MOON
6 9	Moon furthest North (18,1)	9 5	Mercury 2,2N of Spica
7 17	FIRST QUARTER	13 4	Aldebaran 0,3S of Moon Occn
8 4	Mercury inferior conjunction	14 7	Saturn 3,7N of Moon
10 3	Neptune 3,4N of Moon	14 20	Moon furthest North (18,3)
10 17	Regulus 2,9N of Moon	16 10	LAST QUARTER
12 12	Moon at perigee	16 10	Pluto at opposition
13 8	Pluto at conjunction	17 8	FIRST QUARTER
14 9	FULL MOON		
May		November	
d h	d h	d h	d h
2 1	Saturn 3,4N of Moon	2 12	Uranus 1,4S of Moon
2 4	Aldebaran 0,6S of Moon Occn	2 14	Mars 1,3N of Neptune
2 19	Neptune stationary	3 2	Moon at apogee
3 15	Moon furthest North (18,3)	7 9	FULL MOON
6 6	Mercury greatest elong W(27)	9 10	Aldebaran 0,5S of Moon Occn
6 15	Saturn 4,0N of Aldebaran	9 18	Mars 1,3N of Regulus
7 0	FIRST QUARTER	10 10	Mercury 1,3N of Antares
10 10	Neptune 3,3N of Moon	10 15	Saturn 3,7N of Moon
8 0	Mercury 2,8N of Moon	12 2	Moon furthest North (18,4)
10 4	Moon at perigee	12 13	Mercury greatest elong E(23)
11 18	Spica 4,4S of Moon	14 19	LAST QUARTER
13 19	FULL MOON	15 3	Neptune 2,2N of Moon
		15 9	Regulus 1,9N of Moon
June		December	
d h	d h	d h	d h
3 15	Neptune 3,2N of Moon	3 0	Mercury inferior conjunction
4 5	Regulus 2,8N of Moon	3 1	Venus 4,1N of Spica
4 20	Moon at perigee	3 6	Mercury 5,8N of Antares
4 21	Saturn at conjunction	6 17	Aldebaran 0,5S of Moon Occn
5 1	Jupiter at opposition	7 1	FULL MOON
5 2	Venus 4,5S of Pollux	7 14	Saturn 3,4N of Moon
5 5	FIRST QUARTER	8 9	Moon furthest North (18,6)
6 23	Mercury 5,8N of Aldebaran	12 9	Neptune 2,0N of Moon
8 1	Spica 4,5S of Moon	12 15	Regulus 1,8N of Moon
8 22	Mercury 1,8N of Saturn	12 17	Mercury stationary
11 15	Jupiter 4,2S of Moon	13 11	Saturn at opposition
11 16	Mercury superior conjunction	13 17	Mars 2,4N of Moon
12 5	FULL MOON	14 4	LAST QUARTER
12 22	Moon furthest South (-18,4)	15 13	Venus greatest elong W(47)

Астрономические явления 2091			
January		July	
d h	d h	d h	d h
3 1	Aldebaran 0,4S of Moon Occn	13 8	Pluto stationary
3 18	Saturn 3,5N of Moon	16 1	Venus 2,5S of Moon
4 19	Earth at perihelion	17 18	Moon furthest South (-18,6)
4 19	Moon furthest North (18,6)	17 22	Jupiter 4,5S of Moon
5 15	FULL MOON	18 17	Mercury 5,5S of Moon
8 14	Neptune 1,9N of Moon	19 16	NEW MOON
8 21	Regulus 1,6N of Moon	23 5	Uranus 0,7S of Moon Occn
12 3	Moon at perigee	25 14	Moon at apogee
10 12	Mars 2,2N of Moon	27 0	Mars stationary
10 19	Mercury 0,7S of Jupiter	27 19	FIRST QUARTER
12 12	LAST QUARTER	30 11	Aldebaran 0,3S of Moon Occn
12 16	Spica 5,5S of Moon	31 1	Saturn 3,8N of Moon
February		August	
d h	d h	d h	d h
1 6	Moon furthest North (18,6)	14 15	Neptune at opposition
4 4	FULL MOON	14 23	Venus 3,2S of Moon
4 22	Neptune 1,8N of Moon	18 4	Saturn stationary
5 6	Regulus 1,5N of Moon	18 9	NEW MOON
5 17	Mercury superior conjunction	19 9	Mercury 1,0S of Moon Occn
6 9	Moon at perigee	19 15	Uranus 0,4S of Moon Occn
9 23	Mars 2,6N of Moon	21 4	Mercury 0,0N of Uranus
6 22	Spica 5,6S of Moon	22 8	Moon at apogee
10 20	Venus 1,2N of Jupiter	26 14	FIRST QUARTER
10 21	LAST QUARTER	26 20	Aldebaran 0,2S of Moon Occn
14 1	Moon furthest South (-18,5)	27 10	Saturn 4,0N of Moon
14 15	Jupiter 4,3S of Moon	28 17	Moon furthest North (18,5)
March		September	
d h	d h	d h	d h
4 8	Neptune 1,8N of Moon	14 6	Jupiter 4,2S of Moon
4 17	Regulus 1,4N of Moon	17 3	Venus 2,1S of Moon
4 20	Mercury greatest elong E(18)	19 1	Uranus 0,3S of Moon Occn
5 15	FULL MOON	20 3	NEW MOON
5 18	Mars 3,6N of Moon	20 7	Mercury 5,2N of Moon
6 4	Uranus at conjunction	20 8	Equinox
6 15	Moon at perigee	21 6	Mercury inferior conjunction
6 20	Mars at opposition	21 17	Moon at apogee
8 7	Spica 5,6S of Moon	26 3	Aldebaran 0,2S of Moon Occn
8 21	Mars nearest to Earth	26 20	Saturn 4,0N of Moon
11 9	Mercury stationary	28 1	Moon furthest North (18,5)
12 7	LAST QUARTER	28 6	FIRST QUARTER
13 6	Moon furthest South (-18,5)	31 17	Neptune 1,8N of Moon
April		October	
d h	d h	d h	d h
1 3	Regulus 1,3N of Moon	16 8	Mercury 0,4S of Moon Occn
1 15	Mars 3,3N of Moon	16 11	Moon 0,2N of Moon Occn
2 18	Mercury stationary	17 19	Moon at apogee
4 1	FULL MOON	18 6	Mercury greatest elong W(28)
4 2	Moon at perigee	18 14	Mars stationary
4 18	Spica 5,6S of Moon	18 21	NEW MOON
5 20	Venus 0,6S of Uranus	22 9	Aldebaran 0,4S of Moon Occn
9 13	Moon furthest South (-18,6)	23 6	Saturn 3,9N of Moon
10 18	Jupiter 3,9S of Moon	24 7	Moon furthest North (18,6)
10 18	LAST QUARTER	26 18	FIRST QUARTER
13 18	Mercury 0,3S of Venus	28 2	Neptune 1,7N of Moon
14 15	Pluto at conjunction	28 12	Regulus 1,2N of Moon Occn
15 9	Uranus 0,1S of Moon Occn	28 23	Mars 2,3N of Moon
May		November	
d h	d h	d h	d h
2 5	Spica 5,7S of Moon	17 13	Mercury 3,4N of Moon
2 15	Moon at perigee	18 13	NEW MOON
3 9	FULL MOON	19 14	Aldebaran 0,5S of Moon Occn
4 23	Mercury 1,0S of Venus	20 18	Saturn 3,8N of Moon
5 8	Neptune stationary	21 13	Moon furthest North (18,8)
6 23	Moon furthest South (-18,7)	25 8	Neptune 1,5N of Moon
8 5	Jupiter 3,7S of Moon	25 19	Regulus 1,0N of Moon Occn
9 17	Jupiter stationary	26 2	FIRST QUARTER
10 15	LAST QUARTER	26 18	Mars 0,6N of Moon Occn
12 18	Uranus 0,2N of Moon Occn	27 2	Mercury superior conjunction
15 4	Moon at apogee	29 14	Spica 5,8S of Moon
16 20	Venus 2,9N of Moon	30 19	Moon at perigee
June		December	
d h	d h	d h	d h
1 17	FULL MOON	19 23	Saturn at conjunction
3 0	Moon furthest South (-18,9)	21 1	Solstice
4 12	Jupiter 3,6S of Moon	21 14	Neptune 1,3N of Moon
5 22	Mercury 2,8N of Saturn	21 20	Mercury 5,2S of Pollux
9 0	LAST QUARTER	22 0	Regulus 0,8N of Moon Occn
9 2	Uranus 0,5N of Moon Occn	23 21	Mars 1,4S of Moon
11 19	Moon at apogee	24 8	FIRST QUARTER
13 5	Venus 4,9N of Aldebaran	24 12	Uranus stationary
15 21	Aldebaran 0,5S of Moon Occn	25 21	Spica 6,0S of Moon
16 4	Moon at apogee	27 11	Moon at perigee
17 2	NEW MOON	28 18	Venus 1,0N of Saturn
17 2	Saturn 3,6N of Moon	30 9	Mercury greatest elong E(26)
17 20	Moon furthest North (19,0)	30 20	Moon furthest South (-19,0)
18 23	Mercury 5,4N of Moon		
July		August	
d h	d h	d h	d h
1 1	FULL MOON	17 20	Mercury 1,8S of Moon
1 17	Jupiter 3,8S of Moon	18 14	Venus 5,9S of Pollux
1 22	Uranus 0,6N of Moon Occn	18 22	Neptune 1,1N of Moon Occn
7 11	Earth at aphelion	19 6	Regulus 0,7N of Moon Occn
8 17	LAST QUARTER	22 3	Mars 3,2S of Moon
9 9	Jupiter at opposition	23 4	Moon at perigee
9 13	Moon at apogee	23 12	FIRST QUARTER
13 5	Aldebaran 0,4S of Moon Occn	25 2	Venus superior conjunction
13 14	Mercury stationary	28 4	Mercury inferior conjunction
14 21	Saturn 3,5N of Moon	28 15	Moon furthest South (-18,9)
15 5	Moon furthest North (19,0)	28 19	Jupiter 4,0S of Moon
16 9	Venus 4,1N of Moon	30 12	FULL MOON
16 14	NEW MOON		
September		October	
d h	d h	d h	d h
1 12	Mercury 1,2N of Regulus	13 15	Mercury 0,5S of Moon Occn
3 0	Moon at apogee	14 9	Venus 1,7S of Moon
5 22	Aldebaran 0,2S of Moon Occn	15 2	Moon at perigee
6 3	LAST QUARTER	17 4	Mars 5,7S of Moon
8 0	Moon furthest North (18,9)	20 0	FIRST QUARTER
8 2	Saturn 3,4N of Moon	20 17	Moon furthest South (-18,9)
8 7	Jupiter stationary	21 3	Jupiter 4,3S of Moon
10 1	Mercury superior conjunction	22 17	Equinox
10 7	Uranus at opposition	26 5	Uranus 0,6N of Moon Occn
11 19	Neptune 0,8N of Moon Occn	27 15	FULL MOON
12 0	Regulus 0,8N of Moon Occn	29 22	Venus 2,8N of Spica
13 9	NEW MOON	30 16	Moon at apogee
November		December	
d h	d h	d h	d h
1 15	Moon furthest North (19,2)	15 5	Jupiter 3,6S of Moon
1 19	Saturn 3,0N of Moon	17 8	Mercury inferior conjunction
4 10	LAST QUARTER	17 23	FIRST QUARTER
7 17	Neptune 0,8N of Moon Occn	18 14	Mercury 0,1N of Moon Occn
5 20	Regulus 0,3N of Moon Occn	23 23	Moon at apogee
6 1	Venus 3,7N of Antares	25 7	Uranus stationary
6 15	Mercury stationary	26 3	FULL MOON
10 21	Moon at perigee	26 12	Mercury stationary
11 3	NEW MOON	27 17	Aldebaran 0,6S of Moon Occn
13 4	Venus 5,9S of Moon	28 21	Moon furthest North (19,4)
13 18	Mars 5,5S of Moon	28 23	Saturn 2,9N of Moon
14 9	Moon furthest South (-19,3)	30 8	Venus 0,6S of Mars
December		January	
d h	d h	d h	d h
2 1	Neptune stationary	16 22	Uranus 1,0N of Moon Occn
3 0	Neptune 0,2N of Moon Occn	17 17	FIRST QUARTER
3 18	Regulus 0,1N of Moon Occn	18 19	Mercury 5,3N of Antares
3 22	LAST QUARTER	20 1	Mars 0,8S of Jupiter
4 15	Mercury greatest elong W(20)	21 10	Moon at apogee
9 4	Mercury 3,1S of Moon	21 15	Solstice
9 8	Moon at perigee	24 0	Aldebaran 0,6S of Moon Occn
10 13	NEW MOON	25 21	FULL MOON
11 4	Venus 1,6S of Jupiter	26 1	Saturn 2,9N of Moon
11 21	Moon furthest South (-19,4)	26 5	Moon furthest North (19,5)
12 17	Mars 4,1S of Moon	27 15	Saturn at opposition
13 0	Jupiter 3,0S of Moon	30 5	Neptune 0,0N of Moon Occn
13 4	Venus 4,5S of Moon	30 8	Regulus 0,1S of Moon Occn

Краткий астрономический календарь на 2096 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Краткий астрономический календарь на 2093 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Table with columns for month, day, time (d h), and astronomical events for the year 2096. Includes sections for January through December.

Table with columns for month, day, time (d h), and astronomical events for the year 2093. Includes sections for January through December.

Краткий астрономический календарь на 2024 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Астрономические явления 2024		
January	d h	d h
1 16 FULL MOON	Eclipse 17 5	Moon at perigee
1 17 Moon furthest North (22.5)	18 0	Mercury 3.1N of Moon
2 18 Pollux 6.0N of Moon	19 10	Mars 3.0N of Moon
3 17 Saturn 1.3S of Moon	19 18	Mercury stationary
4 0 Earth at perihelion	20 15	Uranus 4.1N of Moon
4 9 Moon at apogee	20 23	Jupiter 3.8N of Moon
5 20 Regulus 3.2S of Moon	23 11	FIRST QUARTER
6 2 Neptune 3.2S of Moon	23 19	Saturn at opposition
6 20 Venus stationary	26 9	Aldebaran 2.5S of Moon
9 21 LAST QUARTER	28 23	Moon furthest North (22.5)
9 23 Mercury greatest elong E(19)	29 4	Mercury inferior conjunction
14 7 Venus 3.2N of Moon	30 0	Pollux 5.9N of Moon
15 18 Moon furthest South (-22.5)	30 19	Saturn 1.1S of Moon Occn
15 19 Pluto stationary	31 11	Moon at apogee
16 19 NEW MOON	Eclipse 31 12	FULL MOON
February	d h	d h
2 3 Regulus 3.2S of Moon	17 18	Jupiter 3.9N of Moon
2 7 Neptune 3.1S of Moon	20 21	Neptune at opposition
8 12 LAST QUARTER	22 2	FIRST QUARTER
9 23 Mercury stationary	22 6	Aldebaran 2.6S of Moon
11 23 Venus 3.7N of Moon	25 2	Mercury greatest elong W(27)
12 5 Moon furthest South (-22.6)	25 5	Moon furthest North (22.6)
12 13 Mars 0.1N of Uranus	26 7	Pollux 5.8N of Moon
13 13 Mercury 3.3N of Moon	26 11	Venus greatest elong W(47)
14 16 Moon at perigee	26 16	Saturn 1.0S of Moon Occn
15 5 NEW MOON	27 14	Moon at apogee
17 4 Uranus 4.1N of Moon	27 15	Mars 0.6N of Jupiter
17 9 Mars 4.3N of Moon		
March	d h	d h
1 9 Regulus 3.2S of Moon	18 8	Mars 4.7N of Moon
1 12 Neptune 3.1S of Moon	20 2	Equinox
2 7 FULL MOON	22 0	Aldebaran 2.8S of Moon
10 0 LAST QUARTER	22 20	FIRST QUARTER
11 14 Moon furthest South (-22.8)	24 12	Moon furthest North (22.8)
13 8 Venus 3.7N of Moon	25 13	Pollux 5.8N of Moon
15 3 Moon at perigee	26 2	Saturn 1.1S of Moon Occn
15 4 Mercury 1.8N of Moon	27 5	Moon at apogee
16 15 NEW MOON	28 16	Regulus 3.3S of Moon
16 17 Uranus 4.1N of Moon	28 17	Neptune 3.2S of Moon
17 16 Jupiter 3.8N of Moon	29 0	Mercury 1.3S of Uranus
17 19 Uranus at conjunction		
April	d h	d h
1 0 FULL MOON	17 9	Mars 4.3N of Moon
1 4 Saturn stationary	17 9	Pluto at conjunction
5 12 Jupiter at conjunction	18 9	Aldebaran 3.0S of Moon
7 10 Mercury 0.0N of Jupiter	20 20	Moon furthest North (23.0)
7 20 Moon furthest South (-23.0)	21 21	Pollux 5.4N of Moon
8 8 LAST QUARTER	22 11	Saturn 1.3S of Moon
8 18 Mercury superior conjunction	24 14	FIRST QUARTER
11 22 Venus 3.7N of Moon	24 14	Mercury 1.4N of Mars
12 3 Moon at perigee	24 0	Moon at apogee
13 5 Uranus 4.2N of Moon	24 23	Regulus 3.5S of Moon
14 13 Jupiter 3.8N of Moon	25 0	Neptune 3.4S of Moon
15 1 NEW MOON	28 22	Venus 0.7S of Uranus
15 15 Mercury 4.9N of Moon	30 13	FULL MOON
May	d h	d h
5 1 Moon furthest South (-23.1)	18 5	Moon furthest North (23.2)
5 14 Mercury greatest elong E(21)	19 5	Regulus 3.2N of Moon
7 14 LAST QUARTER	19 22	Saturn 1.6S of Moon
8 13 Moon at perigee	21 19	Moon at apogee
10 15 Uranus 4.3N of Moon	21 21	Venus 0.8S of Jupiter
11 15 Venus 3.3N of Moon	22 7	Regulus 3.7S of Moon
11 23 Neptune stationary	22 8	Neptune 3.5S of Moon
12 8 Jupiter 3.8N of Moon	22 9	FIRST QUARTER
14 12 NEW MOON	22 15	Mercury 5.3N of Aldebaran
15 5 Mars 3.3N of Moon	24 14	Mercury 1.1S of Mars
15 18 Aldebaran 3.1S of Moon	25 16	Mars 5.9N of Aldebaran
15 20 Mercury 3.8N of Moon	28 21	Mercury inferior conjunction
17 19 Mercury stationary	30 0	FULL MOON
June	d h	d h
1 8 Moon furthest South (-23.2)	16 11	Saturn 1.8S of Moon
2 22 Moon at perigee	17 5	Mars at conjunction
5 19 LAST QUARTER	18 13	Moon at apogee
6 22 Uranus 4.5N of Moon	18 15	Regulus 3.7S of Moon
9 1 Jupiter 3.7N of Moon	18 16	Neptune 3.6S of Moon
9 23 Mercury stationary	20 18	Solstice
10 12 Venus 2.1N of Moon	21 2	FIRST QUARTER
11 13 Mercury 1.8S of Moon	23 3	Mercury greatest elong W(23)
12 2 Aldebaran 3.1S of Moon	24 7	Mercury 2.2N of Aldebaran
13 0 NEW MOON	27 15	Venus 4.3N of Aldebaran
13 2 Mars 1.9N of Moon	28 9	FULL MOON Eclipse
14 13 Moon furthest North (23.3)	28 17	Moon furthest South (-23.3)
14 14 Pollux 5.2N of Moon	30 11	Moon at perigee
July	d h	d h
4 4 Uranus 4.5N of Moon	15 14	Mercury 0.1S of Mars
5 12 LAST QUARTER	15 22	Regulus 3.1N of Moon
6 13 Uranus stationary	16 1	Neptune 3.7S of Moon
6 15 Jupiter 3.4N of Moon	16 3	Moon at apogee
7 9 Earth at aphelion	19 19	Mercury 5.3S of Pollux
9 8 Aldebaran 3.2S of Moon	20 17	FIRST QUARTER
10 14 Venus 0.3N of Moon	22 11	Mercury superior conjunction
11 10 Mercury 0.1N of Moon	26 3	Moon furthest South (-23.4)
11 20 Moon furthest North (23.3)	27 9	Mercury 1.1N of Saturn
11 22 Mars 0.3N of Moon	27 17	FULL MOON
12 13 NEW MOON	28 16	Moon at perigee
12 21 Pollux 5.1N of Moon	29 4	Mars 5.7S of Pollux
14 1 Saturn 2.1S of Moon	31 11	Uranus 4.3N of Moon
August	d h	d h
3 1 Saturn at conjunction	12 5	Regulus 3.7S of Moon
3 9 Jupiter 3.1N of Moon	13 2	Neptune 3.6S of Moon
3 8 LAST QUARTER	13 14	Moon at apogee
4 14 Pluto stationary	14 0	Mercury 3.9S of Moon
5 14 Aldebaran 3.2S of Moon	17 14	Venus 0.2N of Saturn
7 5 Venus 0.5S of Mars	19 6	FIRST QUARTER
7 7 Mercury 0.8N of Regulus	22 13	Moon furthest South (-23.5)
8 2 Moon furthest North (23.4)	23 0	FULL MOON
8 12 Mercury 0.6N of Neptune	26 1	Moon at perigee
9 3 Pollux 5.1N of Moon	26 13	Neptune at conjunction
9 18 Mars 1.2S of Moon	27 19	Uranus 4.2N of Moon
9 21 Venus 1.7S of Moon	29 7	Mars 0.4N of Saturn
10 14 Saturn 2.3S of Moon	29 15	Jupiter stationary
11 4 NEW MOON	30 12	Jupiter 2.8N of Moon
September	d h	d h
1 4 Venus 0.8N of Regulus	16 0	Mercury stationary
1 18 LAST QUARTER	17 1	FIRST QUARTER
1 20 Aldebaran 3.4S of Moon	18 22	Moon furthest South (-23.7)
2 18 Mercury greatest elong E(27)	22 5	Uranus at opposition
3 14 Venus 0.7N of Neptune	22 11	Equinox
4 7 Moon furthest North (23.6)	23 12	Moon at perigee
5 9 Pollux 4.9N of Moon	25 5	Uranus 4.2N of Moon
7 3 Saturn 2.6S of Moon	24 8	FULL MOON
7 13 Mars 2.4S of Moon	24 10	Mars 0.8N of Regulus
8 11 Regulus 3.7S of Moon	26 20	Jupiter 2.6N of Moon
8 17 Moon at apogee	29 4	Aldebaran 3.6S of Moon
8 17 Neptune 3.7S of Moon	29 4	Mercury inferior conjunction
9 7 Mercury 3.6S of Uranus	29 9	Mercury 3.6S of Uranus
9 20 NEW MOON	30 18	Mars 0.6N of Neptune
October	d h	d h
1 8 LAST QUARTER	14 23	Mercury greatest elong W(16)
1 10 Venus superior conjunction	16 4	Moon furthest South (-23.9)
1 14 Moon furthest North (23.8)	17 2	FIRST QUARTER
2 15 Pollux 4.7N of Moon	17 7	Pluto at opposition
4 15 Saturn 2.9S of Moon	21 13	Uranus 4.2N of Moon
5 17 Regulus 3.5S of Moon	21 18	Moon at perigee
6 0 Moon at apogee	23 17	FULL MOON
6 1 Neptune 3.9S of Moon	24 1	Jupiter 2.7N of Moon
6 8 Mars 3.3S of Moon	26 14	Aldebaran 3.8S of Moon
7 12 Mercury stationary	27 22	Jupiter at opposition
8 4 Mercury 4.6S of Moon	28 22	Moon furthest North (23.9)
9 12 NEW MOON	29 5	Mercury 3.7N of Spica
9 17 Venus 3.6S of Moon	29 23	Pollux 4.4N of Moon
14 13 Uranus 3.1N of Spica	31 2	LAST QUARTER
November	d h	d h
1 3 Saturn 3.2S of Moon	21 5	Jupiter 2.9N of Moon
2 0 Regulus 4.1S of Moon	20 5	Venus 4.3N of Antares
2 10 Neptune 4.1S of Moon	22 5	FULL MOON
2 15 Moon at apogee	23 0	Aldebaran 3.9S of Moon
4 3 Mars 3.7S of Moon	25 8	Moon furthest North (24.1)
7 18 Mercury 3.1S of Moon	26 8	Pollux 4.4N of Moon
8 4 NEW MOON	25 18	Mercury 3.8N of Antares
9 0 Venus 2.6S of Moon	28 13	Saturn 3.2S of Moon
10 10 Moon furthest South (-24.0)	29 8	Regulus 4.2S of Moon
10 10 FIRST QUARTER	29 18	Neptune 4.2S of Moon
15 19 Mercury superior conjunction	29 22	LAST QUARTER
17 9 Uranus 4.4N of Moon	30 11	Moon at apogee
18 11 Moon at perigee		
December	d h	d h
2 16 Saturn stationary	21 9	Solstice
2 21 Mars 3.6S of Moon	21 19	FULL MOON Eclipse
6 23 Uranus stationary	20 17	Moon furthest North (24.1)
7 19 NEW MOON	22 21	Mars 3.5S of Spica
8 11 Neptune stationary	23 17	Pollux 4.4N of Moon
8 19 Mercury 2.0S of Moon	25 9	Jupiter stationary
9 4 Venus 0.4S of Moon	25 20	Saturn 3.2S of Moon Occn
9 16 Moon furthest South (-24.1)	26 16	Regulus 4.2S of Moon
13 11 Moon at perigee	27 3	Neptune 4.2S of Moon
14 18 FIRST QUARTER	27 7	Mercury greatest elong E(20)
15 2 Uranus 4.5N of Moon	28 8	Moon at apogee
17 9 Jupiter 3.1N of Moon	29 20	LAST QUARTER
20 8 Aldebaran 3.9S of Moon	31 15	Mars 3.0S of Moon

Краткий астрономический календарь на 2025 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Астрономические явления 2025		
January	d h	d h
8 18 Mercury stationary	16 23	Pluto stationary
4 9 Earth at perihelion	19 0	Moon furthest North (24.2)
6 1 Moon furthest South (-24.2)	20 0	Pollux 4.3N of Moon
6 9 NEW MOON	20 12	FULL MOON
7 7 Mercury 4.0N of Moon	22 1	Saturn 3.0S of Moon
8 8 Venus 2.0N of Moon	23 2	Regulus 4.1S of Moon
9 2 Moon at perigee	23 9	Neptune 4.1S of Moon
11 8 Uranus 4.5N of Moon	24 12	Mercury stationary
13 2 FIRST QUARTER	25 3	Moon at apogee
13 5 Mercury inferior conjunction	28 17	LAST QUARTER
13 15 Jupiter 3.2N of Moon	29 5	Mars 2.0S of Moon
16 15 Aldebaran 4.0S of Moon	31 6	Antares 6.0S of Moon
February	d h	d h
1 11 Moon furthest South (-24.3)	15 15	Venus 0.2S of Uranus
2 3 Mercury 3.2N of Moon	16 7	Pollux 4.2N of Moon
4 21 NEW MOON	18 3	Saturn 2.8S of Moon
5 17 Mercury greatest elong W(25)	19 6	FULL MOON
6 5 Moon at perigee	19 7	Regulus 4.1S of Moon
6 16 Saturn at opposition	19 15	Neptune 4.0S of Moon
7 2 Venus 3.8N of Moon	21 16	Moon at apogee
7 18 Uranus 4.4N of Moon	23 8	Neptune at opposition
12 2 Jupiter 3.1N of Moon	26 15	Mars 1.0S of Moon Occn
11 12 FIRST QUARTER	27 10	LAST QUARTER
12 20 Aldebaran 4.1S of Moon	27 14	Antares 5.8S of Moon
15 5 Moon furthest North (24.3)		
March	d h	d h
1 21 Moon furthest South (-24.4)	18 19	Neptune 4.0S of Moon
5 6 Mercury 2.4N of Moon	20 8	Equinox
6 7 NEW MOON	20 17	Moon at apogee
6 15 Moon at perigee	21 1	FULL MOON
7 6 Uranus 4.2N of Moon	21 21	Venus 1.8N of Jupiter
8 22 Venus 4.4N of Moon	22 1	Uranus at conjunction
9 19 Jupiter 2.7N of Moon	22 17	Mercury 0.7S of Uranus
12 3 Aldebaran 4.3S of Moon	23 9	Mercury superior conjunction
13 0 FIRST QUARTER	26 16	Mars 0.3S of Moon Occn
14 11 Moon furthest North (24.5)	26 21	Antares 5.6S of Moon
15 12 Pollux 4.1N of Moon	29 0	LAST QUARTER
17 6 Saturn 2.8S of Moon	29 5	Moon furthest South (-24.6)
18 13 Regulus 4.2S of Moon		
April	d h	d h
3 20 Uranus 4.2N of Moon	15 0	Neptune 4.2S of Moon
4 3 Moon at perigee	15 17	Saturn stationary
4 16 NEW MOON	16 23	Moon at apogee
5 15 Mercury 4.9N of Moon	17 0	Mercury 3.5N of Jupiter
6 15 Jupiter 2.2N of Moon	18 0	Mercury greatest elong E(20)
6 15 Mars 5.2N of Antares	18 15	Pluto at conjunction
7 17 Venus 3.8N of Moon	19 18	FULL MOON
8 12 Aldebaran 4.5S of Moon	21 3	Mars stationary
10 18 Moon furthest North (24.7)	23 2	Antares 5.4S of Moon
11 14 FIRST QUARTER	23 5	Mars 0.6S of Moon Occn
11 15 Pollux 3.9N of Moon	25 11	Moon furthest South (-24.8)
13 10 Saturn 3.0S of Moon	27 10	LAST QUARTER
14 19 Regulus 4.3S of Moon	28 11	Mercury stationary
May	d h	d h
1 8 Uranus 4.2N of Moon	13 8	Jupiter at conjunction
2 11 Moon at perigee	14 7	Venus greatest elong E(45)
4 1 NEW MOON	14 10	Neptune stationary
4 12 Jupiter 1.7N of Moon	14 13	Moon at apogee
4 12 Mercury 3.7N of Moon	19 9	FULL MOON
4 19 Mercury 2.0N of Jupiter	20 8	Mars 2.2S of Moon
5 16 Mars 4.2N of Antares	20 8	Antares 5.3S of Moon
5 22 Aldebaran 4.7S of Moon	21 3	Mercury stationary
7 11 Venus 2.0N of Moon	22 17	Moon furthest South (-24.9)
8 3 Moon furthest North (24.8)	26 6	Mars at opposition
8 20 Mercury inferior conjunction	26 17	LAST QUARTER
9 3 Pollux 3.7N of Moon	28 18	Uranus 4.3N of Moon
10 19 Saturn 3.2S of Moon	30 8	Moon at perigee
11 6 FIRST QUARTER	31 14	Venus 3.9S of Pollux
12 2 Regulus 4.5S of Moon	31 15	Mercury 1.0S of Moon Occn
12 7 Neptune 4.3S of Moon		
June	d h	d h
1 9 Jupiter 1.1N of Moon	Occn	12 23 Mercury 1.9S of Jupiter
2 8 Aldebaran 4.7S of Moon	15 17	Mars 4.1S of Moon
4 16 NEW MOON	Eclipse	16 16 NEW MOON
3 16 Mars nearest to Earth	17 22	FULL MOON Eclipse
4 12 Moon furthest North (24.9)	18 23	Moon furthest South (-24.9)
4 18 Mercury greatest elong W(24)	20 1	Mercury 4.0N of Aldebaran
5 12 Pollux 3.7N of Moon	21 0	Solstice
5 20 Mercury 1.8S of Moon	Occn	24 21 LAST QUARTER
5 23 Saturn 3.3S of Moon	25 1	Uranus 4.3N of Moon
8 10 Regulus 4.5S of Moon	25 17	Moon at perigee
8 15 Neptune 4.4S of Moon	29 3	Jupiter 0.6N of Moon Occn
9 22 FIRST QUARTER	29 16	Aldebaran 4.8S of Moon
11 7 Moon at apogee	30 13	Venus stationary
July	d h	d h
7 7 Mercury 0.7S of Moon	Occn	12 22 Mars 4.8S of Moon
1 19 NEW MOON	16 11	Antares 5.2S of Moon
1 21 Moon furthest North (24.9)	16 27	Moon furthest South (-25.0)
2 21 Pollux 3.7N of Moon	17 8	FULL MOON
3 20 Mars stationary	21 5	Moon at perigee
4 0 Venus 5.6S of Moon	22 6	Uranus 4.1N of Moon
4 21 Saturn 3.4S of Moon	23 12	Venus inferior conjunction
5 14 Earth at aphelion	23 2	LAST QUARTER
5 19 Regulus 4.5S of Moon	25 20	Mercury 0.2N of Saturn
6 1 Neptune 4.4S of Moon	26 19	Jupiter 0.0N of Moon Occn
6 19 Mercury superior conjunction	26 22	Aldebaran 4.9S of Moon
9 0 Moon at apogee	29 4	Moon furthest North (25.0)
9 16 FIRST QUARTER	30 9	Pollux 3.6N of Moon
10 20 Uranus stationary	31 7	NEW MOON
11 6 Mercury 5.0S of Pollux	31 10	Mercury 0.2N of Regulus
August	d h	d h
1 11 Saturn 3.5S of Moon	17 16	Saturn at conjunction
2 3 Regulus 4.4S of Moon	17 18	Moon at perigee
2 8 Mercury 4.5S of Moon	18 13	Uranus 4.0N of Moon
2 10 Neptune 4.3S of Moon	22 8	LAST QUARTER
3 3 Mercury 4.4S of Neptune	23 3	Mars 1.7N of Antares
5 15 Pluto stationary	23 4	Aldebaran 5.0S of Moon
5 18 Moon at apogee	23 8	Jupiter 0.6S of Moon Occn
7 12 Jupiter 4.7N of Aldebaran	25 9	Moon furthest North (25.1)
9 6 FIRST QUARTER	26 11	Pollux 3.9N of Moon
10 4 Antares 4.0S of Saturn	29 9	Saturn 3.6S of Moon
10 10 Antares 5.1S of Moon	29 1	Neptune at conjunction
12 16 Moon furthest South (-25.1)	29 9	Regulus 4.4S of Moon
13 22 Venus stationary	29 10	Mercury stationary
15 17 FULL MOON	29 19	Neptune 4.2S of Moon
16 5 Mercury greatest elong E(27)	29 21	NEW MOON
September	d h	d h
2 10 Moon at apogee	20 22	Mercury stationary
2 10 Spica 5.9S of Moon	21 15	Moon furthest North (25.3)
6 18 Antares 4.8S of Moon	22 17	

Краткий астрономический календарь на 2098 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

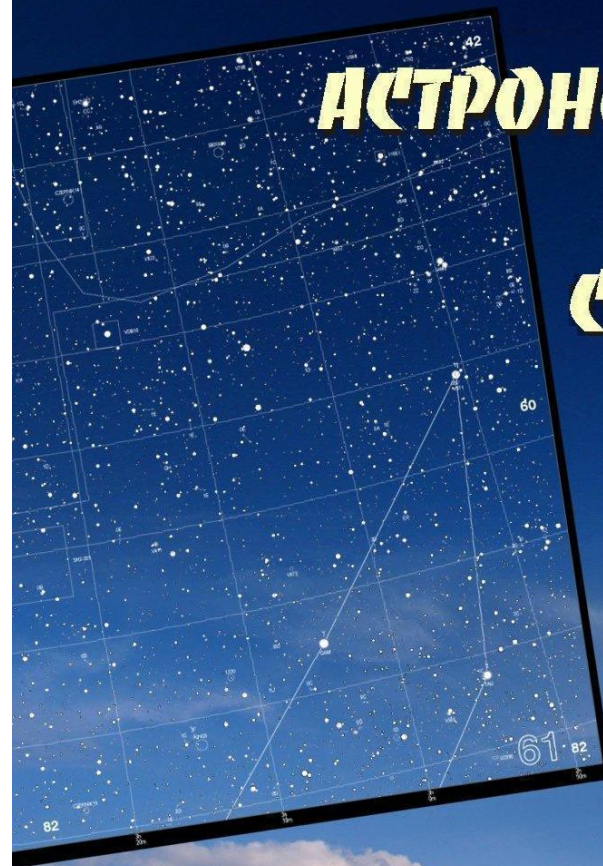
Краткий астрономический календарь на 2099 год (конфигурации Луны и планет, покрытия, затмения - по Occult v4.0, UT)

Table with columns for month (January to June), day (d), hour (h), and astronomical events (e.g., Mercury 4.1N of Moon, Moon furthest South, etc.).

Table with columns for month (January to December), day (d), hour (h), and astronomical events (e.g., Earth at perihelion, Moon furthest North, etc.).



АСТРОНОМИЧЕСКИЙ КАЛЕНДАРЬ - СПРАВОЧНИК



Пояснения к ежемесячному астрономическому календарю: моменты явлений даются по всемирному времени, opposition – противостояние, conjunction – соединение, stationary – стояние, superior верхнее (соединение), inferior - нижнее (соединение), perigee – перигей, apogee – апогей, greatest elong – максимальная элонгация, furthest South – максимальное склонение к югу от небесного экватора, furthest North - максимальное склонению к северу от небесного экватора, Occp – покрытие Луной звезды или планеты для Земли, Eclipse – затмение, NEW MOON – новолуние, FIRST QUARTER – первая четверть Луны, FULL MOON – полнолуние, LAST QUARTER – последняя четверть Луны, 1.9N – градусы к северу от объекта, 1.9S – градусы к югу от объекта, Solstice – солнцестояние (летнее и зимнее), Equinox – равноденствие весеннее и осеннее), Earth at perihelion – Земля в перигелии, Earth at aphelion - Земля в афелии.

Инструкция по распечатке Астрономического календаря - справочника

Книга создана и отформатирована в программе «Microsoft Office Word 2003». Страницы альбомного формата с делением на две колонки. Один стандартный лист бумаги формата А4 содержит 4 страницы формата А5. **При складывании пополам получается 4 страницы АК.**

АКС_1901_2100 распечатывается следующим образом:

1. Посредством кнопок «Файл» - «Печать» в окошке **«Вывести на печать»** нужно проставить галочку в графе **«Нечетные страницы»** и запустить печать - **ОК.**
2. После распечатки нечетных страниц, вышедшие в приемный лоток листы нужно положить обратно в подающий лоток чистой стороной вверх или согласно свойств Вашего принтера для печати на обратной стороне листа.
3. Посредством кнопок «Файл» - «Печать» в окошке **«Диапазон»** проставить **«Четные страницы»**, а по кнопке **«Параметры...»** проставить галочку **«Обратный порядок»** или **«В обратном порядке»** - **ОК.** При распечатке обратной стороны необходимо следить, чтобы захватный механизм **не захватил сразу два листа** (что нередко бывает), иначе нумерация страниц будет неправильной.
4. После окончания распечатки у Вас сверху будет лежать первая страница Астрономического календаря. Для того, чтобы собрать распечатанные листы в книгу, **необходимо каждый лист сложить вдвое.** Каждый сложенный лист будет содержать 4 страницы книги и иметь нумерацию 1-2-3-4; 5-6-7-8 и т.д.
5. Далее сложенные листы **накладываются друг на друга** согласно нумерации, выравниваются, проклеиваются с торца (пробиваются степлером или прошиваются нитками) и обкладываются обложкой. Астрономический календарь - справочник готов к использованию.

Ясного неба и успешных наблюдений!

Приложение-вкладыш

Данные о Солнце

Параллакс Солнца при среднем расстоянии Земли от Солнца $\pi_c = 8.7940976'' + 0.0000147''$
Параллакс Солнца меняется в пределах от 8.94" до 8.65"
Среднее расстояние от Земли до Солнца = 149 597 870 км. = 1 а.е. = 107.5 Dc = $4.85 \cdot 10^6$ пк
Диаметр Солнца Dc = 1 390 600 км = 109.12 Dз = $14 \cdot 10^{10}$ см
Поверхность Солнца в 11 930 раз больше поверхности Земли = $6087 \cdot 10^{22}$ см² = $608.7 \cdot 10^{10}$ км²
Объем Солнца Vc = 1 303 800 Vз = $1.412 \cdot 10^{33}$ см³ = $1.4 \cdot 10^{18}$ км³
Наибольший видимый угловой диаметр Солнца = 32'31.4" = 1951.4" (Земля в перигелии)
Наименьший видимый угловой диаметр Солнца = 27.2" = 1887.2" (Земля в афелии)
Видимый угловой диаметр на расстоянии 1 а.е. (средний угловой диаметр) = 1919.26" = 31'59.26"
Одна секунда дуги (1") на поверхности Солнца - 725.3 км, одна минута (1') - 43518 км.
Масса Солнца Mc = $1.989 \cdot 10^{33}$ г = 333 434 Mз = 328 912 (Mз + Mл)
Средняя плотность $\rho_c = 1.409$ г/см³ = 0.256 рз
Плотность в центре Солнца = 160 г/см³
Ускорение силы тяжести на поверхности Солнца = $2.7398 \cdot 10^4$ см/с², т.е. в 27.9 раза больше, чем на поверхности Земли
Критическая скорость (скорость освобождения) на поверхности Солнца = 617.7 км/с
Линейная скорость точки солнечного экватора 2 км/с
Синодический период вращения точки экватора 27.35 суток (13.199° в сутки)
Сидерический период вращения точки экватора 25.380 суток (14.184° в сутки)
Наклон экватора Солнца к эклиптике 7° 15' 00"
Долгота восходящего узла солнечного экватора 75° 04' (Эпоха - 1950.0)
Северный конец оси вращения Солнца пересекает небесную сферу в точке с координатами $\alpha = 194$ 4м, $\delta = +64^\circ$ (между Полярной и Вегой)
Среднее значение солнечной постоянной на высоте 65 км = 1.9 кал/(см²*мин) = $1.3 \cdot 10^6$ эрг/(см²*с)
Колеблется не более чем на 1.5% в течение длительных периодов времени и на $\pm 0,4$ % с короткими периодами
Мощность солнечного излучения на высоте 65 км (практически на границе темной атмосферы) соответствует 1.3 кВт/м² = $1.3 \cdot 10^6$ эрг/(см²*с)
Светимость Солнца, принимаемая за единицу, или общая радиация, излучаемая Солнцем = $3.88 \cdot 10^{33}$ эрг/с = $1.19 \cdot 10^{41}$ эрг/год
Излучение одного см² поверхности Солнца $6.41 \cdot 10^{10}$ эрг/с
Мощность общего излучения Солнца $51 \cdot 10^{22}$ л.с. = $374 \cdot 10^{21}$ кВт
Сила света Солнца $302 \cdot 10^{25}$ кандел
Освещенность от Солнца (вне атмосферы) 127 000 люксов (лк) = 548 000 полных лун в зените
Видимая звездная величина Солнца в системе V = -26.78m вне атмосферы и -26.58m в зените
Видимая звездная величина Солнца в системе B = -26.3m в системе U = -25.96m
Видимая фотографическая звездная величина Солнца = -26.17m
Видимая болометрическая звездная величина Солнца = -26.77m
Спектральный класс Солнца G 2 V
Эффективная температура поверхности Солнца = 5770 \pm 29 К
Модуль расстояния Солнца m - M = -31.57m
Абсолютная фотовизуальная звездная величина = +4.96m
Абсолютная фотографическая звездная величина = +5.59m
Абсолютная болометрическая звездная величина = +4.79m
Скорость движения Солнца относительно окружающих его звезд до 6m = 19.5 км/с (по направлению к созвездию Геркулеса) = 4,2 а.е. в год = $6 \cdot 10^8$ км/год
Апекс движения Солнца: $\alpha = 270^\circ = 184$ 0м, $\delta = +30^\circ$ (стандартный апекс)
Расстояние Солнца от центра Галактики = 10 000 пк, = 30 000 световых лет
Расстояние Солнца от галактической плоскости 15 пк к северу
Средняя продолжительность полного цикла солнечной активности = 22.11 \pm 0.6 года

Данные о Луне

Средний суточный параллакс Луны = 57' 2.61" = 1° (параллакс меняется в среднем от 53' 54.6" до 61' 31.4")
Среднее расстояние Луны от Земли = 384 400 км = 0.00257 а.е. = 60.2682 радиуса Земли (расстояние меняется от 356 410 до 406 740 км). По радиолокационным данным 384 402 \pm 2 км.
Наибольший видимый угловой диаметр Луны = 32' 53.5"
Наименьший видимый угловой диаметр Луны = 29' 28,1"
Видимый угловой диаметр Луны на среднем расстоянии от Земли 31' 5.16" = 1865.2"
Диаметр Луны = 3476.0 км = 0.27256 экв. диаметра Земли
Объем Луны = $2185.3 \cdot 10^7$ км³ = $2.2 \cdot 10^{25}$ см³ = 0.020266 объема Земли
Поверхность Луны = $3.796 \cdot 10^7$ км² = 0.0743 земной
Масса Луны = 1/81,301 массы Земли = 0,012300 массы Земли = 1/27070500 массы Солнца = $7,35 \cdot 10^{25}$ г = 73,5 триллиона тонн
Средняя плотность Луны = 3.347 г/см³ = 0.607 средней плотности Земли Ускорение силы тяжести на поверхности Луны = 1.623 м/с² = 0.165 земного = 1/6 земного
Критическая скорость (скорость освобождения) 2.375 км/с
Средний эксцентриситет лунной орбиты 0,05490 = 1/18 (линейный эксцентриситет = 21 000 км)
Наклон лунной орбиты к эклиптике = 5° 8' 43.4" (меняется от 4° 59' до 5° 17')
Средний наклон лунного экватора к орбите = 6° 40.7' (меняется от 6° 51' до 6° 31')
Наклон лунного экватора к эклиптике = 1° 32' 47" \pm 24"
Наклон лунной орбиты к земному экватору меняется от 18° 18' до 28° 36'
Либрация по долготе = $\pm 7^\circ 54'$
Либрация по широте = $\pm 6^\circ 50'$
Параллактическая либрация около 1 %
Невидимая с Земли часть поверхности Луны составляет 0.410 всей поверхности Луны (в первый раз сфотографирована первой советской автоматической межпланетной станцией в октябре 1959 г.); 0.180 всей поверхности то видимы, то невидимы
Средняя видимая угловая скорость движения Луны = 13° 10' 35" в сутки или около 0.51° в час = поперечник лунного диска в час
Средняя скорость движения Луны по орбите = 1.023 км/с = 3681 км/ч Ускорение Луны в ее движении вокруг Земли 0.272 см/с²
Сидерический месяц, равный периоду обращения Луны вокруг Земли = 27д 7ч 43м 11.47с = 27.321661 средних суток = 655ч 43м
Синодический месяц = 29д 12ч 44м 2.78с = 29.5305882 средних суток = 708ч 41м (отклоняется от среднего значения на 13ч, вследствие эллиптичности лунной орбиты)
Период вращения линии узлов = 6798д = 18,61 тропического года
Период вращения линии апсид = 3232.6д = 8.849 тропического года Сферическое альbedo Луны в полнолуние = 0.0748
Видимая визуальная звездная величина в полнолуние = -12,55m \pm 0.05m (полная Луна светит в 465 000 ($\pm 10\%$) раз слабее Солнца)
Показатель цвета Луны B - V = +1,2m
Средняя яркость полной Луны = 0.251 сб
Освещенность, создаваемая полной Луной в зените на Земле на поверхности, перпендикулярной к направлению падающих лучей, 0.25 люкса
Температура в подсолнечной точке = +130°С
Температура ночной стороны поверхности Луны = -150 (± 10)°С

Данные по Солнцу и Луне - из книги «Солнечное затмение 29 марта 2006 года и его наблюдение»

Элементы орбит планет Солнечной системы

Гелиоцентрические оскулирующие (моментальные) элементы орбит планет для начала 2001 г. (JD = 2451920,5) по отношению к средней эклиптике и точке равноденствия эпохи J 2000.0

Планета	Среднее расстояние от Солнца a		Сидерический период обращения P		Синодический период, S , сут.	Среднее угловое движение n , град./сут.
	а. е.	млн. км	троп, лет*	сут.		
Меркурий	0,38710	57,9	0,24085	87,969	115,85	4,092356
Венера	0,72333	108,2	0,61521	224,70	583,93	1,602136
Земля**	1,00000	149,6	1,00004	365,26	-	0,985593
Марс	1,52363	227,9	1,88078	686,94	779,91	0,524062
Юпитер	5,20441	778,6	11,8677	4 334,6	398,87	0,0830528
Сатурн	9,58378	1 433,7	29,6661	10835,3	378,09	0,0332247
Уран	19,18722	2 870,4	84,048	30697,8	369,66	0,0117272
Нептун	30,02090	4491,1	164,491	60079,0	367,49	0,00599211
Плутон	39,23107	5 868,9	245,73	89751,9	366,72	0,00401106

* Тропический год = 365,242190 сут. по 86400 с СИ.

** Данные для Земли относятся к барическому центру системы Земля—Луна.

Планета	Наклонение орбитальной плоскости i , °	Эксцентриситет орбиты e	Долгота восходящего узла ϖ , °	Долгота перигелия ϖ , °	Средняя долгота в начальную эпоху L_0 , °	Средняя скорость орбитального движения, км/с
Меркурий	7,005	0,20564	48,330	77,460	348,9226	47,9
Венера	3,395	0,00676	76,678	131,709	63,5825	35,0
Земля	0,0002	0,01672	173,7	102,834	110,5560	29,8
Марс	1,850	0,09344	49,561	335,997	192,2291	24,1
Юпитер	1,304	0,04890	100,508	15,389	65,5419	13,1
Сатурн	2,486	0,05689	113,630	91,097	62,6852	9,6
Уран	0,772	0,04634	73,924	169,016	317,8806	6,8
Нептун	1,769	0,01129	131,791	51,589	307,4124	5,4
Плутон	17,165	0,24448	110,249	223,654	240,4311	4,8