

ASTRONOMICAL INFORMATION SHEET No. 98



Prepared by

HM Nautical Almanac Office

THE UNITED KINGDOM HYDROGRAPHIC OFFICE

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ASTRONOMICAL AND CALENDARIAL DATA SHEET FOR 2014

PHASES OF THE MOON

New Moon			First Quarter			Full Moon			Last Quarter		
	d	h m		d	h m		d	h m		d	h m
Jan.	1	11 14	Jan.	8	03 39	Jan.	16	04 52	Jan.	24	05 19
Jan.	30	21 39	Feb.	6	19 22	Feb.	14	23 53	Feb.	22	17 15
Mar.	1	08 00	Mar.	8	13 27	Mar.	16	17 08	Mar.	24	01 46
Mar.	30	18 45	Apr.	7	08 31	Apr.	15	07 42	Apr.	22	07 52
Apr.	29	06 14	May	7	03 15	May	14	19 16	May	21	12 59
May	28	18 40	June	5	20 39	June	13	04 11	June	19	18 39
June	27	08 08	July	5	11 59	July	12	11 25	July	19	02 08
July	26	22 42	Aug.	4	00 50	Aug.	10	18 09	Aug.	17	12 26
Aug.	25	14 13	Sept.	2	11 11	Sept.	9	01 38	Sept.	16	02 05
Sept.	24	06 14	Oct.	1	19 33	Oct.	8	10 51	Oct.	15	19 12
Oct.	23	21 57	Oct.	31	02 48	Nov.	6	22 23	Nov.	14	15 16
Nov.	22	12 32	Nov.	29	10 06	Dec.	6	12 27	Dec.	14	12 51
Dec.	22	01 36	Dec.	28	18 31						

SEASONS

			d	h	m
Vernal Equinox	—	Spring begins	Mar.	20	16 57
Summer Solstice	—	Summer begins	June	21	10 51
Autumnal Equinox	—	Autumn begins	Sept.	23	02 29
Winter Solstice	—	Winter begins	Dec.	21	23 03

SUMMER TIME*

In the United Kingdom BST, one hour in advance of GMT, will be kept from March 30^d 01^h to October 26^d 01^h GMT.*

ECLIPSES

1. A total eclipse of the Moon on April 15 is visible from the Americas, the eastern and central Pacific Ocean region, New Zealand, eastern Australia and the eastern tip of Russia. The umbral eclipse begins at 05^h 58^m and ends at 09^h 33^m. Totality lasts from 07^h 06^m to 08^h 25^m.
2. An annular eclipse of the Sun on April 29. The path of annularity crosses a small fraction of Antarctica at around latitude 70° south and longitude 130° east. The partial phase is visible from Wilkes Land in Antarctica, the southern Indian Ocean and Australia. The eclipse begins at 03^h 53^m and ends at 08^h 14^m; the annular phase begins at 05^h 58^m and ends at 06^h 09^m. This is a rare non-central eclipse generating a short duration of annularity at sunset.
3. A total eclipse of the Moon on October 8 is visible from North America and westernmost parts of South America, the Pacific Ocean, Australasia and the eastern half of Asia. The umbral eclipse begins at 09^h 14^m and ends at 12^h 35^m. Totality lasts from 10^h 25^m to 11^h 25^m.
4. A partial eclipse of the Sun on October 23 is visible from most of North America except eastern Canada, the north-east Pacific Ocean and the easternmost part of Russia. The eclipse begins at 19^h 38^m and ends at 23^h 52^m. The time of greatest eclipse is 21^h 45^m, when 0.81 of the Sun's diameter is obscured.

All times are in GMT (UT)

* www.berr.gov.uk/employment/bank-public-holidays/bst/page12528.html

CYH/SAB

2008 December

At the time this sheet was produced, HMNAO believes the information to be accurate.

CALENDAR 2014

CHRONOLOGICAL CYCLES AND ERAS

Dominical Letter	E	Julian Period (year of)	6727
Epact	29	Roman Indiction	7
Golden Number (Lunar Cycle)	I	Solar Cycle	7

Era	Year	Begins	Era	Year	Begins
Byzantine	7523	Sept. 14	Grecian (Seleucidæ)	2326	Sept. 14
Roman (AUC)	2767	Jan. 14			(or Oct. 14)
Nabonassar	2763	Apr. 20	Indian (Saka)	1936	Mar. 22
Japanese	2674	Jan. 1	Diocletian	1731	Sept. 11

RELIGIOUS CALENDARS

Epiphany	Jan. 6	Low Sunday	Apr. 27
Septuagesima Sunday	Feb. 16	Rogation Sunday	May 25
Quinquagesima Sunday	Mar. 2	Ascension Day—Holy Thursday	May 29
Ash Wednesday	Mar. 5	Whit Sunday—Pentecost	June 8
Quadragesima Sunday	Mar. 9	Trinity Sunday	June 15
Fourth Sunday in Lent—Mothering Sunday	Mar. 30	Corpus Christi	June 19
Palm Sunday	Apr. 13	First Sunday in Advent	Nov. 30
Good Friday	Apr. 18	Christmas Day (Thursday)	Dec. 25
Easter Day	Apr. 20		
First Day of Passover (Pesach)	Apr. 15	Day of Atonement (Yom Kippur)	Oct. 4
Feast of Weeks (Shavuot)	June 4	First day of Tabernacles (Succoth)	Oct. 9
Jewish New Year (Rosh Hashanah)	5775 Sept. 25		
First day of Ramadân	June 29	Islamic New Year	1436 Oct. 25

All Jewish and Islamic dates above are tabular dates, which begin at sunset on the previous evening and end at sunset on the date tabulated. In practice, the dates of Islamic fasts and festivals are determined by an actual sighting of the appropriate new Moon.

CIVIL CALENDAR—UNITED KINGDOM

Accession of Queen Elizabeth II	Feb. 6	Coronation Day	June 2
St David (Wales)	Mar. 1	Birthday of Prince Philip, Duke of Edinburgh	June 10
Commonwealth Day	Mar. 10	The Queen's Official Birthday*	June 14
St Patrick (Ireland)	Mar. 17	Remembrance Sunday	Nov. 9
Birthday of Queen Elizabeth II	Apr. 21	Birthday of the Prince of Wales	Nov. 14
St George (England)	Apr. 23	St Andrew (Scotland)	Nov. 30

*Date subject to confirmation

HOLIDAYS IN THE UNITED KINGDOM

The following list contains bank holidays, (compiled from the *Banking and Financial Dealings Act 1971*), common law holidays and days to be given in lieu for holidays which fall on a weekend. Dates given in *italic* are those which are subject to Royal proclamation or for Northern Ireland proclamation by the Secretary of State. There is no statutory requirement for a day to be given in lieu if one of the days falls at the weekend and is not covered by the act. In such cases probable dates are given in *italic* when they have not yet been authorised. Consult the Department for Business, Enterprise & Regulatory Reform, www.berr.gov.uk/employment/bank-public-holidays, or the Scottish Executive, www.scotland.gov.uk/Publications/2005/01/bankholidays, for the latest details.

	England and Wales	Northern Ireland	Scotland
New Year	Jan. 1	Jan. 1	Jan. 1 Jan. 2
St Patrick	—	Mar. 17	—
Good Friday	Apr. 18 ‡	Apr. 18 ‡	Apr. 18
Easter Monday	Apr. 21	Apr. 21	—
Early Spring	May 5	May 5	May 5
Spring	May 26	May 26	May 26
Battle of the Boyne	—	July 12# July 14	—
Summer	Aug. 25	Aug. 25	Aug. 4
Christmas	Dec. 25 ‡	Dec. 25 ‡	Dec. 25 ‡
Boxing Day	Dec. 26	Dec. 26	Dec. 26

‡ Common Law Holiday

Holiday falls on a Saturday

† Holiday falls on a Sunday

Warning: Clauses in the *Banking and Financial Dealings Act* allow the Government to alter dates at short notice.