

ASTRONOMICAL INFORMATION SHEET No. 86



Prepared by

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ASTRONOMICAL AND CALENDARIAL DATA SHEET FOR 2005

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.	10	12 03	Jan.	17	06 57	Jan.	25	10 32	Jan.	3	17 46
Feb.	8	22 28	Feb.	16	00 16	Feb.	24	04 54	Feb.	2	07 27
Mar.	10	09 10	Mar.	17	19 19	Mar.	25	20 58	Mar.	3	17 36
Apr.	8	20 32	Apr.	16	14 37	Apr.	24	10 06	Apr.	2	00 50
May	8	08 45	May	16	08 57	May	23	20 18	May	1	06 24
June	6	21 55	June	15	01 22	June	22	04 14	May	30	11 47
July	6	12 02	July	14	15 20	July	21	11 00	June	28	18 23
Aug.	5	03 05	Aug.	13	02 38	Aug.	19	17 53	July	28	03 19
Sept.	3	18 45	Sept.	11	11 37	Sept.	18	02 01	Aug.	26	15 18
Oct.	3	10 28	Oct.	10	19 01	Oct.	17	12 14	Sept.	25	06 41
Nov.	2	01 25	Nov.	9	01 57	Nov.	16	00 57	Oct.	25	01 17
Dec.	1	15 01	Dec.	8	09 36	Dec.	15	16 15	Nov.	23	22 11
Dec.	31	03 12							Dec.	23	19 36

SEASONS

			d	h	m
Vernal Equinox	—	Spring begins	Mar.	20	12 33
Summer Solstice	—	Summer begins	June	21	06 46
Autumnal Equinox	—	Autumn begins	Sept.	22	22 23
Winter Solstice	—	Winter begins	Dec.	21	18 35

SUMMER TIME

In the United Kingdom BST, one hour in advance of GMT, will be kept from March 27^d 01^h to October 30^d 01^h GMT.

ECLIPSES

1. An annular-total eclipse of the Sun on April 8. The path of annularity begins south east of New Zealand and crosses the Pacific Ocean where the eclipse becomes total. The path becomes annular once more before crossing the southern part of Central America and Columbia and ends in Venezuela. The partial phase is visible from New Zealand, part of Antarctica, the southern United States, Central America, the Caribbean and South America except the eastern and southern parts. The eclipse begins at 17^h 51^m and ends at 23^h 20^m; the annular-total phase begins at 18^h 54^m and ends at 22^h 18^m. The maximum duration of totality is 0^m 47^s.
2. An annular eclipse of the Sun on October 3. The path of annularity begins north of the Azores and crosses Iberia, northern and eastern Africa and ends in the Indian Ocean. The partial phase is visible from eastern Greenland, Iceland, Europe including the British Isles, Africa except the Southern tip, western Asia including India. The eclipse begins at 07^h 36^m and ends at 13^h 28^m; the annular phase begins at 08^h 42^m and ends at 12^h 21^m. The maximum duration of annularity is 4^m 26^s.
3. A partial eclipse of the Moon on October 17 is visible from parts of Antarctica, Australasia, central and eastern Asia, North America except the eastern part and Central America. The umbral eclipse begins at 11^h 34^m and ends at 12^h 32^m. The time of maximum eclipse is 12^h 03^m, when 0.07 of the Moon's diameter is obscured.

All times are in GMT

CYH/SAB

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CALENDAR 2005

CHRONOLOGICAL CYCLES AND ERAS

Dominical Letter	B	Julian Period (year of)	6718
Epact	19	Roman Indiction	13
Golden Number (Lunar Cycle)	XI	Solar Cycle	26

Era	Year	Begins	Era	Year	Begins
Byzantine	7514	Sept. 14	Grecian (Seleucidæ)	2317	Sept. 14
Roman (AUC)	2758	Jan. 14			(or Oct. 14)
Nabonassar	2754	Apr. 22	Indian (Saka)	1927	Mar. 22
Japanese	2665	Jan. 1	Diocletian	1722	Sept. 11

RELIGIOUS CALENDARS

Epiphany	Jan. 6	Low Sunday	Apr. 3
Septuagesima Sunday	Jan. 23	Rogation Sunday	May 1
Quinquagesima Sunday	Feb. 6	Ascension Day—Holy Thursday	May 5
Ash Wednesday	Feb. 9	Whit Sunday—Pentecost	May 15
Quadragesima Sunday	Feb. 13	Trinity Sunday	May 22
Fourth Sunday in Lent—Mothering Sunday	Mar. 6	Corpus Christi	May 26
Palm Sunday	Mar. 20	First Sunday in Advent	Nov. 27
Good Friday	Mar. 25	Christmas Day (Sunday)	Dec. 25
Easter Day	Mar. 27		

First Day of Passover (Pesach)	Apr. 24	Day of Atonement (Yom Kippur)	Oct. 13
Feast of Weeks (Shavuot)	June 13	First day of Tabernacles (Succoth)	Oct. 18
Jewish New Year (Rosh Hashanah)	5766 Oct. 4		
Islamic New Year	1426 Feb. 10	First day of Ramadân	Oct. 4

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. 14	The Queen's Official Birthday*	June 11
St Patrick (Ireland)	Mar. 17	Remembrance Sunday	Nov. 13
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 of Trade and Industry (www.dti.gov.uk/er/bankhol.htm) or the Scottish Executive (telephone 0131 244 2180) or www.scotland.gov.uk/faq/bankhol.asp) for the latest details.

	England and Wales	Northern Ireland	Scotland
New Year	Jan. 1# <i>Jan. 3</i>	Jan. 1# <i>Jan. 3</i>	Jan. 1# <i>Jan. 2† Jan. 3 Jan. 4</i>
St Patrick	—	Mar. 17	—
Good Friday	Mar. 25‡	Mar. 25‡	Mar. 25
Easter Monday	Mar. 28	Mar. 28	—
Early May	<i>May 2</i>	<i>May 2</i>	May 2
Spring	May 30	May 30	<i>May 30</i>
Battle of the Boyne	—	<i>July 12</i>	—
Summer	Aug. 29	Aug. 29	Aug. 1
Christmas	Dec. 25‡† <i>Dec. 27</i>	Dec. 25‡† <i>Dec. 27</i>	Dec. 25† Dec. 26
Boxing Day	Dec. 26	Dec. 26	<i>Dec. 27</i>

‡ 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.