ASTRONOMICAL INFORMATION SHEET No. 77



Prepared by

HM Nautical Almanac Office



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ASTRONOMICAL AND CALENDARIAL DATA SHEET FOR 2000 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.	6	18	14		Jan.	14	13	34	Jan.	21	04	40		Jan.	28	07	57
Feb.	5	13	03		Feb.	12	23	21	Feb.	19	16	27		Feb.	27	03	53
Mar.	6	05	17		Mar.	13	06	59	Mar.	20	04	44		Mar.	28	00	21
Apr.	4	18	12		Apr.	11	13	30	Apr.	18	17	41		Apr.	26	19	30
May	4	04	12		May	10	20	00	May	18	07	34		May	26	11	55
June	2	12	14		June	9	03	29	June	16	22	27		June	25	01	00
July	1	19	20		July	8	12	53	July	16	13	55		July	24	11	02
July	31	02	25		Aug.	7	01	02	Aug.	15	05	13		Aug.	22	18	51
Aug.	29	10	19		Sept.	5	16	27	Sept	13	19	37		Sept.	21	01	28
Sept.	27	19	53		Oct.	5	10	59	Oct.	13	08	53		Oct.	20	07	59
Oct.	27	07	58		Nov.	4	07	27	Nov.	11	21	15		Nov.	18	15	24
Nov.	25	23	11		Dec.	4	03	55	Dec.	11	09	03		Dec.	18	00	41
Dec.	25	17	22														
								SE	ASONS								
				1.5								d	h	m			

				u	11	111
Vernal Equinox	_	Spring begins	Mar.	20	07	35
Summer Solstice	—	Summer begins	June	21	01	48
Autumnal Equinox	—	Autumn begins	Sept.	22	17	27
Winter Solstice	_	Winter begins	Dec.	21	13	37

SUMMER TIME

In the United Kingdom BST, one hour in advance of GMT, will be kept from March 26^d 01^h to October 29^d 01^h GMT.

ECLIPSES

- 1. A total eclipse of the Moon on January 21 is visible from the northern part of Russia, Europe including the British Isles, north and west Africa, Atlantic Ocean, Greenland, Arctic regions, north, central and South America, western Antarctica and the east Pacific Ocean. The eclipse begins at 03^h 03^m and ends at 06^h 25^m . Totality lasts from 04^h 06^m to 05^h 22^m .
- 2. A partial eclipse of the Sun on February 5 is visible from Antarctica and central southern Indian Ocean. The eclipse begins at 10^h 56^m and ends at 14^h 43^m . The time of maximum eclipse is 12^h 49^m , when 0.58 of the Sun's diameter is obscured.
- 3. A partial eclipse of the Sun on July 1 is visible from central southern Pacific Ocean and the southern part of Chile and Argentina. The eclipse begins at 18^h 07^m and ends at 20^h 58^m . The time of maximum eclipse is 19^h 33^m , when 0.48 of the Sun's diameter is obscured.
- 4. A total eclipse of the Moon on July 16 is visible from Australasia, eastern Russia, Japan, China, south-east Asia, India, Indian Ocean, Antarctica, Hawaiian Islands and east Pacific Ocean. The eclipse begins at 11^h 58^m and ends at 15^h 54^m . Totality lasts from 13^h 03^m to 14^h 49^m .
- 5. A partial eclipse of the Sun on July 31 is visible from west Russia, northern parts of Scandinavia and Greenland, north Russia, Arctic Ocean and north-west North America. The eclipse begins at 00^h 38^m and ends at 03^h 49^m. The time of maximum eclipse is 02^h 13^m, when 0.60 of the Sun's diameter is obscured.
- 6. A partial eclipse of the Sun on December 25 is visible from Mexico, West Indies, North America except Alaska and the extreme north of Canada, west Atlantic Ocean and the southern part of Greenland. The eclipse begins at 15^h 27^m and ends at 19^h 43^m . The time of maximum eclipse is 17^h 35^m , when 0.72 of the Sun's diameter is obscured.

All times are in GMT CYH/SAB

1996 January Updated 1999 June 29

CALENDAR 2000

CHRONOLOGICAL CYCLES AND ERAS

Dominical Letter Epact Golden Number (Lunar Cycle)				Julian Period (year of) Roman Indiction Solar Cycle	6713 8 21		
Golden Trumber (Editar Cycle)		VI		Solar Cycle		21	
Era	Year	Begi	ins	Era	Year	Begi	ins
Byzantine	Byzantine 7509			Grecian (Seleucidæ)	2312	Sept.	14
Roman (AUC)	2753	Sept. Jan.	14		(0	or Oct.	
Nabonassar	2749	Apr.	23	Indian (Saka)	1922	Mar.	21
Japanese	2660	Jan.	1	Diocletian	1717	Sept.	11
		REL	IGIOUS C	ALENDARS			
Epiphany		Jan.	6	Low Sunday			30
Septuagesima Sunday		Feb.	20	Rogation Sunday		May	28
Quinquagesima Sunday		Mar.	5	Ascension Day—Holy Thursday		June	1
Ash Wednesday		Mar.	8	Whit Sunday—Pentecost		June	11
Quadragesima Sunday		Mar.	12	Trinity Sunday		June	18
Fourth Sunday in Lent—Mothering Sunday			2	Corpus Christi		June	22
Palm Sunday			16	First Sunday in Advent		Dec.	3
Good Friday			21	Christmas Day (Monday)		Dec.	25
Easter Day		Apr.	23				
First Day of Passover (Pesach)		Apr.	20	Day of Atonement (Yom Kippur)		Oct.	9
Feast of Weeks (Shavuot)			9	First day of Tabernacles (Succoth)		Oct.	14
Jewish New Year (Rosh Hashanah) 5761			30	•			
Islamic New Year 1421			6	First day of Ramadân		Nov.	28

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	The Queen's Official Birthday*	June	10
Commonwealth Day	Mar.	13	Birthday of Prince Philip, Duke of Edinburgh	June	10
St Patrick (Ireland)	Mar.	17	Remembrance Sunday	Nov.	12
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. 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 by Royal proclamation.

	England and Wales	Northern Ireland	Scotland
New Year	Jan. 1# Jan. 3	Jan. 1# Jan. 3	Jan. 1# Jan. 2† Jan. 4 Jan. 3
St Patrick		Mar. 17	_
Good Friday	Apr. 21‡	Apr. 21‡	Apr. 21
Easter Monday	Apr. 24	Apr. 24	_
May Day	May 1	May 1	May 29
Spring	May 29	May 29	May 1
Battle of the Boyne	_	July 12	_
Summer	Aug. 28	Aug. 28	Aug. 7
Christmas	Dec. 25‡	Dec. 25‡	Dec. 25‡
Boxing Day	Dec. 26	Dec. 26	Dec. 26

[‡] Common Law Holiday

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

[#] Holiday falls on a Saturday

[†] Holiday falls on a Sunday