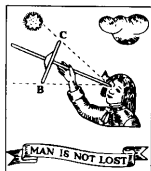


ASTRONOMICAL INFORMATION SHEET No. 92



Prepared by

HM Nautical Almanac Office

THE UNITED KINGDOM HYDROGRAPHIC OFFICE

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ASTRONOMICAL AND CALENDARIAL DATA SHEET FOR 2011

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.	4	09 03	Jan.	12	11 31	Jan.	19	21 21	Jan.	26	12 57
Feb.	3	02 31	Feb.	11	07 18	Feb.	18	08 36	Feb.	24	23 26
Mar.	4	20 46	Mar.	12	23 45	Mar.	19	18 10	Mar.	26	12 07
Apr.	3	14 32	Apr.	11	12 05	Apr.	18	02 44	Apr.	25	02 47
May	3	06 51	May	10	20 33	May	17	11 09	May	24	18 52
June	1	21 03	June	9	02 11	June	15	20 14	June	23	11 48
July	1	08 54	July	8	06 29	July	15	06 40	July	23	05 02
July	30	18 40	Aug.	6	11 08	Aug.	13	18 57	Aug.	21	21 54
Aug.	29	03 04	Sept.	4	17 39	Sept.	12	09 27	Sept.	20	13 39
Sept.	27	11 09	Oct.	4	03 15	Oct.	12	02 06	Oct.	20	03 30
Oct.	26	19 56	Nov.	2	16 38	Nov.	10	20 16	Nov.	18	15 09
Nov.	25	06 10	Dec.	2	09 52	Dec.	10	14 36	Dec.	18	00 48
Dec.	24	18 06									

SEASONS

			d	h	m
Vernal Equinox	—	Spring begins	Mar.	20	23 21
Summer Solstice	—	Summer begins	June	21	17 16
Autumnal Equinox	—	Autumn begins	Sept.	23	09 05
Winter Solstice	—	Winter begins	Dec.	22	05 30

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. A partial eclipse of the Sun on January 4 is visible from most of Europe including the British Isles, the northern half of Africa, the Middle East, western Asia, north-west China, western Mongolia and the north-west part of India. The eclipse begins at 06^h 40^m and ends at 11^h 01^m. The time of greatest eclipse is 08^h 51^m, when 0.86 of the Sun's diameter is obscured.
2. A partial eclipse of the Sun on June 1 is visible from eastern Asia except southern Japan, northern Alaska, northern Canada, the northern tip of Scandinavia, Greenland and Iceland. The eclipse begins at 19^h 25^m and ends at 23^h 07^m. The time of greatest eclipse is 21^h 16^m, when 0.60 of the Sun's diameter is obscured.
3. A total eclipse of the Moon on June 15 is visible from Australasia, southern Japan, Asia except the northern part, India, Africa, Europe including the British Isles and the eastern part of South America. The umbral eclipse begins at 18^h 23^m and ends at 22^h 03^m. Totality lasts from 19^h 22^m to 21^h 03^m.
4. A partial eclipse of the Sun on July 1 is visible from the Southern Ocean (south of Africa). The eclipse begins at 07^h 54^m and ends at 09^h 23^m. The time of greatest eclipse is 08^h 38^m, when 0.10 of the Sun's diameter is obscured.
5. A partial eclipse of the Sun on November 25 is visible from the southern tip of South Africa, Antarctica, Tasmania and New Zealand. The eclipse begins at 04^h 23^m and ends at 08^h 17^m. The time of greatest eclipse is 06^h 20^m, when 0.90 of the Sun's diameter is obscured.
6. A total eclipse of the Moon on December 10 is visible from North America except the eastern part, the Hawaiian Islands, Oceania, Australasia, Asia, eastern Africa, eastern Europe and Iceland. The umbral eclipse begins at 12^h 45^m and ends at 16^h 18^m. Totality lasts from 14^h 06^m to 14^h 58^m.

All times are in GMT (UT)

CYH/SAB

2006 January
Updated 2010 November

CALENDAR 2011

CHRONOLOGICAL CYCLES AND ERAS

Dominical Letter	B	Julian Period (year of)	6724
Epact	25'	Roman Indiction	4
Golden Number (Lunar Cycle)	XVII	Solar Cycle	4

Second Epact 25' to be used as if it were 26.

Era	Year	Begins	Era	Year	Begins
Byzantine	7520	Sept. 14	Grecian (Seleucidæ)	2323	Sept. 14
Roman (AUC)	2764	Jan. 14			(or Oct. 14)
Nabonassar	2760	Apr. 21	Indian (Saka)	1933	Mar. 22
Japanese	2671	Jan. 1	Diocletian	1728	Sept. 12

RELIGIOUS CALENDARS

Epiphany	Jan. 6	Low Sunday	May 1
Septuagesima Sunday	Feb. 20	Rogation Sunday	May 29
Quinquagesima Sunday	Mar. 6	Ascension Day—Holy Thursday	June 2
Ash Wednesday	Mar. 9	Whit Sunday—Pentecost	June 12
Quadragesima Sunday	Mar. 13	Trinity Sunday	June 19
Fourth Sunday in Lent—Mothering Sunday	Apr. 3	Corpus Christi	June 23
Palm Sunday	Apr. 17	First Sunday in Advent	Nov. 27
Good Friday	Apr. 22	Christmas Day (Sunday)	Dec. 25
Easter Day	Apr. 24		
First Day of Passover (Pesach)	Apr. 19	Day of Atonement (Yom Kippur)	Oct. 8
Feast of Weeks (Shavuot)	June 8	First day of Tabernacles (Succoth)	Oct. 13
Jewish New Year (Rosh Hashanah)	5772 Sept. 29		
First day of Ramadân	Aug. 1	Islamic New Year	1433 Nov. 27

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 our web site at www.hmnao.com/nao/online/index.html#calendar for various UK Government links which should give the latest details.

	England and Wales		Northern Ireland		Scotland	
New Year	Jan. 1#	Jan. 3	Jan. 1#	Jan. 3	Jan. 1#	Jan. 4 Jan. 2† Jan. 3
St Patrick	—		Mar. 17		—	
Good Friday	Apr. 22‡		Apr. 22‡		Apr. 22	
Easter Monday	Apr. 25		Apr. 25		—	
Royal Wedding	Apr. 29		Apr. 29		Apr. 29	
Early Spring	May 2		May 2		May 2	
Spring	May 30		May 30		May 30	
Battle of the Boyne	—		July 12		—	
Summer	Aug. 29		Aug. 29		Aug. 1	
Christmas	Dec. 25‡†	Dec. 27	Dec. 25‡†	Dec. 27	Dec. 25†	Dec. 27
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.