

ASTRONOMICAL INFORMATION SHEET No. 104



Prepared by

HM Nautical Almanac Office

THE UNITED KINGDOM HYDROGRAPHIC OFFICE

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ASTRONOMICAL AND CALENDARIAL DATA SHEET FOR 2017

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.	28	00 07	Jan.	5	19 47	Jan.	12	11 34	Jan.	19	22 13
Feb.	26	14 58	Feb.	4	04 19	Feb.	11	00 33	Feb.	18	19 33
Mar.	28	02 57	Mar.	5	11 32	Mar.	12	14 54	Mar.	20	15 58
Apr.	26	12 16	Apr.	3	18 39	Apr.	11	06 08	Apr.	19	09 57
May	25	19 44	May	3	02 47	May	10	21 42	May	19	00 33
June	24	02 31	June	1	12 42	June	9	13 10	June	17	11 33
July	23	09 46	July	1	00 51	July	9	04 07	July	16	19 26
Aug.	21	18 30	July	30	15 23	Aug.	7	18 11	Aug.	15	01 15
Sept.	20	05 30	Aug.	29	08 13	Sept.	6	07 03	Sept.	13	06 25
Oct.	19	19 12	Sept.	28	02 54	Oct.	5	18 40	Oct.	12	12 25
Nov.	18	11 42	Oct.	27	22 22	Nov.	4	05 23	Nov.	10	20 36
Dec.	18	06 30	Nov.	26	17 03	Dec.	3	15 47	Dec.	10	07 51
			Dec.	26	09 20						

SEASONS

			d	h	m
Vernal Equinox	—	Spring begins	Mar.	20	10 29
Summer Solstice	—	Summer begins	June	21	04 24
Autumnal Equinox	—	Autumn begins	Sept.	22	20 02
Winter Solstice	—	Winter begins	Dec.	21	16 28

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

Eclipses Online Portal—<http://astro.ukho.gov.uk/eclbin/query.cgi?year=2017>

1. An annular eclipse of the Sun on February 26. The path of annularity begins over the south-eastern part of the Pacific Ocean and crosses southern parts of Peru and Argentina, the South Atlantic Ocean, central Angola, the north-western tip of Zambia and ends over the southernmost part of the Democratic Republic of Congo. The partial phase is visible from the south-east Pacific Ocean, the southern half of South America, the South Atlantic Ocean, most of Antarctica and most of Africa except the northern and easternmost parts. The eclipse begins at 12^h 11^m and ends at 17^h 36^m; the annular phase begins at 13^h 16^m and ends at 16^h 31^m. The maximum duration of annularity is 1^m 17^s.
2. A partial eclipse of the Moon on August 7 is visible from the western Pacific Ocean, Australasia, Asia, Antarctica, Africa and most of Europe excluding the British Isles. The umbral eclipse begins at 17^h 22^m and ends at 19^h 19^m. The time of maximum eclipse is 18^h 20^m when 0.25 of the Moon's diameter is obscured.
3. A total eclipse of the Sun on August 21. The path of totality begins over the northern Pacific Ocean south of the Aleutian Islands and crosses the United States of America (Oregon, Idaho, Wyoming, Nebraska, north-eastern Kansas, Missouri, southern Illinois, western Kentucky, Tennessee, north-eastern Georgia, western North Carolina and South Carolina) and ends over the North Atlantic Ocean south of the Cape Verde Islands. The partial phase is visible from the Americas except the southern half of South America, Greenland and parts of the United Kingdom. The eclipse begins at 15^h 47^m and ends at 21^h 04^m; the total phase begins at 16^h 49^m and ends at 20^h 02^m. The maximum duration of totality is 2^m 45^s.

All times are in GMT (UT)

*www.direct.gov.uk/en/Employment/Employees/Timeoffandholidays/DG_073741

CYH/JMW/SAB

2011 December

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

CALENDAR 2017

CHRONOLOGICAL CYCLES AND ERAS

Dominical Letter	A	Julian Period (year of)	6730		
Epact	2	Roman Indiction	10		
Golden Number (Lunar Cycle)	IV	Solar Cycle	10		
Era	Year	Begins	Era	Year	Begins
Byzantine	7526	Sept. 14	Grecian (Seleucidæ)	2329	Sept. 14
Roman (AUC)	2770	Jan. 14			(or Oct. 14)
Nabonassar	2766	Apr. 19	Indian (Saka)	1939	Mar. 22
Japanese	2677	Jan. 1	Diocletian (Coptic)	1734	Sept. 11

RELIGIOUS CALENDARS

Epiphany	Jan. 6	Low Sunday	Apr. 23
Septuagesima Sunday	Feb. 12	Rogation Sunday	May 21
Quinquagesima Sunday	Feb. 26	Ascension Day—Holy Thursday	May 25
Ash Wednesday	Mar. 1	Whit Sunday—Pentecost	June 4
Quadragesima Sunday	Mar. 5	Trinity Sunday	June 11
Fourth Sunday in Lent—Mothering Sunday	Mar. 26	Corpus Christi	June 15
Palm Sunday	Apr. 9	First Sunday in Advent	Dec. 3
Good Friday	Apr. 14	Christmas Day (Monday)	Dec. 25
Easter Day	Apr. 16		
First Day of Passover (Pesach)	Apr. 11	Day of Atonement (Yom Kippur)	Sept. 30
Feast of Weeks (Shavuot)	May 31	First day of Tabernacles (Succoth)	Oct. 5
Jewish New Year (Rosh Hashanah)	5778 Sept. 21		
First day of Ramadân	May 27	Islamic New Year	1439 Sept. 22

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 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 <http://astro.ukho.gov.uk/nao/online/index.html#calendar> for various UK Government links which will give the latest details.

	England and Wales	Northern Ireland	Scotland
New Year	Jan. 1 † Jan. 2	Jan. 1 † Jan. 2	Jan. 1 † Jan. 3 Jan. 2
St Patrick	—	Mar. 17	—
Good Friday	Apr. 14 ‡	Apr. 14 ‡	Apr. 14
Easter Monday	Apr. 17	Apr. 17	—
Early Spring	May 1	May 1	May 1
Spring	May 29	May 29	May 29
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 # 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.