

ASTRONOMICAL INFORMATION SHEET No. 108



Prepared by

HM Nautical Almanac Office

THE UNITED KINGDOM HYDROGRAPHIC OFFICE

Admiralty Way, Taunton, Somerset, TA1 2DN



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ASTRONOMICAL AND CALENDARIAL DATA SHEET FOR 2021

PHASES OF THE MOON

New Moon			First Quarter			Full Moon			Last Quarter		
	d	h	m		d	h	m		d	h	m
Jan.	13	05	00	Jan.	20	21	02	Jan.	28	19	16
Feb.	11	19	06	Feb.	19	18	47	Feb.	27	08	17
Mar.	13	10	21	Mar.	21	14	40	Mar.	28	18	48
Apr.	12	02	31	Apr.	20	06	59	Apr.	27	03	32
May	11	19	00	May	19	19	13	May	26	11	14
June	10	10	53	June	18	03	54	June	24	18	40
July	10	01	17	July	17	10	11	July	24	02	37
Aug.	8	13	50	Aug.	15	15	20	Aug.	22	12	02
Sept.	7	00	52	Sept.	13	20	39	Sept.	20	23	55
Oct.	6	11	05	Oct.	13	03	25	Oct.	20	14	57
Nov.	4	21	15	Nov.	11	12	46	Nov.	19	08	57
Dec.	4	07	43	Dec.	11	01	36	Dec.	19	04	36

SEASONS

			d	h	m
Vernal Equinox	—	Spring begins	Mar.	20	09 37
Summer Solstice	—	Summer begins	June	21	03 32
Autumnal Equinox	—	Autumn begins	Sept.	22	19 21
Winter Solstice	—	Winter begins	Dec.	21	15 59

SUMMER TIME*

In the United Kingdom BST, one hour in advance of GMT, will be kept from March 28^d 01^h to October 31^d 01^h GMT.*

ECLIPSES

Eclipses Online Portal—<http://astro.ukho.gov.uk/eclbin/query.cgi?year=2021>

1. A total eclipse of the Moon on May 26 is visible from the southern part of South America, Mexico, western parts of the United States and Canada, Alaska, the Pacific Ocean region, north-easternmost Russia, Japan, south-eastern China, Indonesia, the Philippines, and Australasia. The umbral phase begins at 09^h 45^m and ends at 12^h 53^m. Totality lasts from 11^h 09^m to 11^h 28^m.
2. An annular eclipse of the Sun on June 10. The path of annularity begins over the eastern part of Canada and crosses the north-western tip of Greenland, the North Pole and ends over the north-eastern part of Siberia. The partial phase is visible from eastern Canada, north-eastern parts of the United States, most of Europe (including the British Isles), Scandinavia, most of Russia and western parts of Mongolia and China. The eclipse begins at 08^h 12^m and ends at 13^h 11^m; the annular phase begins at 09^h 50^m and ends at 11^h 33^m. The maximum duration of annularity is 3^m 48^s.
3. A partial eclipse of the Moon on November 19 is visible from the British Isles, the Americas, the Pacific Ocean region, most of Russia and China, south-east Asia and Australasia. The umbral eclipse begins at 07^h 18^m and ends at 10^h 47^m. The time of maximum eclipse is 09^h 03^m when 0.98 of the Moon's diameter is obscured.
4. A total eclipse of the Sun on December 04. The path of totality begins to the east of the Falkland Islands and passes over western Antarctica and ends over the Amundsen Sea. The partial phase is visible from the South Atlantic Ocean, the south-western part of Africa, Antarctica, the Southern Ocean and the southern tip of South Australia. The eclipse begins at 05^h 29^m and ends at 09^h 37^m; the total phase begins at 07^h 00^m and ends at 08^h 06^m. The maximum duration of totality is 1^m 57^s.

All times are in GMT (UT, i.e. UT1)
CYH/SAB/PSP

*www.gov.uk/when-do-the-clocks-change
2017 April

CALENDAR 2021

CHRONOLOGICAL CYCLES AND ERAS

Dominical Letter	C	Julian Period (year of)	6734		
Epact	16	Roman Indiction	14		
Golden Number (Lunar Cycle)	VIII	Solar Cycle	14		
Era	Year	Begins	Era	Year	Begins
Byzantine	7530	Sept. 14	Grecian (Seleucidæ)	2333	Sept. 14
Roman (AUC)	2774	Jan. 14			(or Oct. 14)
Nabonassar	2770	Apr. 18	Saka (Indian)	1943	Mar. 22
Japanese	2681	Jan. 1	Diocletian (Coptic)	1738	Sept. 11

RELIGIOUS CALENDARS

Epiphany	Jan. 6	Low Sunday	Apr. 11
Septuagesima Sunday	Jan. 31	Rogation Sunday	May 9
Quinquagesima Sunday	Feb. 14	Ascension Day—Holy Thursday	May 13
Ash Wednesday	Feb. 17	Whit Sunday—Pentecost	May 23
Quadragesima Sunday	Feb. 21	Trinity Sunday	May 30
Fourth Sunday in Lent—Mothering Sunday	Mar. 14	Corpus Christi	June 3
Palm Sunday	Mar. 28	First Sunday in Advent	Nov. 28
Good Friday	Apr. 2	Christmas Day (Saturday)	Dec. 25
Easter Day	Apr. 4		
First Day of Passover (Pesach)	Mar. 28	Day of Atonement (Yom Kippur)	Sept. 16
Feast of Weeks (Shavuot)	May 17	First day of Tabernacles (Succoth)	Sept. 21
Jewish New Year (Rosh Hashanah)	5782 Sept. 7		
First day of Ramadân	Apr. 13	Islamic New Year	1443 Aug. 10

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. 8	The Queen's Official Birthday*	June 12
St Patrick (Ireland)	Mar. 17	Remembrance Sunday	Nov. 14
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. 1	Jan. 1 Jan. 2# Jan. 4
St Patrick	—	Mar. 17	—
Good Friday	Apr. 2‡	Apr. 2‡	Apr. 2
Easter Monday	Apr. 5	Apr. 5	—
Early (Spring) May	May 3	May 3	May 3
Spring	May 31	May 31	May 31
Battle of the Boyne	—	July 12	—
Summer	Aug. 30	Aug. 30	Aug. 2
Christmas	Dec. 25‡# Dec. 27	Dec. 25‡# Dec. 27	Dec. 25# Dec. 27
Boxing Day	Dec. 26† Dec. 28	Dec. 26† Dec. 28	Dec. 26† Dec. 28

‡ 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.