

# ASTRONOMICAL INFORMATION SHEET No. 109



Prepared by

HM Nautical Almanac Office

**THE UNITED KINGDOM HYDROGRAPHIC OFFICE**

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## ASTRONOMICAL AND CALENDARIAL DATA SHEET FOR 2022

### 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.	2	18	33	Jan.	9	18	11	Jan.	17	23	48	Jan.	25	13	41
Feb.	1	05	46	Feb.	8	13	50	Feb.	16	16	57	Feb.	23	22	32
Mar.	2	17	35	Mar.	10	10	45	Mar.	18	07	18	Mar.	25	05	37
Apr.	1	06	24	Apr.	9	06	48	Apr.	16	18	55	Apr.	23	11	56
Apr.	30	20	28	May	9	00	21	May	16	04	14	May	22	18	43
May	30	11	30	June	7	14	49	June	14	11	52	June	21	03	11
June	29	02	52	July	7	02	14	July	13	18	38	July	20	14	19
July	28	17	55	Aug.	5	11	07	Aug.	12	01	36	Aug.	19	04	36
Aug.	27	08	17	Sept.	3	18	08	Sept.	10	09	59	Sept.	17	21	52
Sept.	25	21	55	Oct.	3	00	14	Oct.	9	20	55	Oct.	17	17	15
Oct.	25	10	49	Nov.	1	06	37	Nov.	8	11	02	Nov.	16	13	27
Nov.	23	22	57	Nov.	30	14	37	Dec.	8	04	08	Dec.	16	08	56
Dec.	23	10	17	Dec.	30	01	21								

### SEASONS

			d	h	m
Vernal Equinox	—	Spring begins	Mar.	20	15 33
Summer Solstice	—	Summer begins	June	21	09 14
Autumnal Equinox	—	Autumn begins	Sept.	23	01 04
Winter Solstice	—	Winter begins	Dec.	21	21 48

### SUMMER TIME\*

In the United Kingdom BST, one hour in advance of GMT, will be kept from March 27<sup>d</sup> 01<sup>h</sup> to October 30<sup>d</sup> 01<sup>h</sup> GMT.\*

### ECLIPSES

Eclipses Online Portal—<http://astro.ukho.gov.uk/eclbin/query.cgi?year=2022>

1. A partial eclipse of the Sun on April 30 is visible from the south-eastern part of the Pacific Ocean, the Antarctic Peninsula, Ellsworth Land in western Antarctica and most of the southern half of South America. The eclipse begins at 18<sup>h</sup> 45<sup>m</sup> and ends at 22<sup>h</sup> 38<sup>m</sup>. The time of greatest eclipse is 20<sup>h</sup> 41<sup>m</sup>, when 0.64 of the Sun's diameter is obscured.
2. A total eclipse of the Moon on May 16 is visible from most of Africa except the north-eastern part, western Europe (including the British Isles), Iceland, the southern tip of Greenland, the Americas except north-western Canada and Alaska and most of Polynesia except the westernmost parts. The umbral phase begins at 02<sup>h</sup> 28<sup>m</sup> and ends at 05<sup>h</sup> 55<sup>m</sup>. Totality lasts from 03<sup>h</sup> 29<sup>m</sup> to 04<sup>h</sup> 54<sup>m</sup>.
3. A partial eclipse of the Sun on October 25 is visible from Iceland, Europe (including the British Isles), north-eastern Africa, the Middle East, western Asia, India and western China. The eclipse begins at 08<sup>h</sup> 58<sup>m</sup> and ends at 13<sup>h</sup> 02<sup>m</sup>. The time of greatest eclipse is 11<sup>h</sup> 00<sup>m</sup>, when 0.86 of the Sun's diameter is obscured.
4. A total eclipse of the Moon on November 08 is visible from the north-western part of South America, North and Central America, the Pacific Ocean region, Australasia, south-east Asia, Japan, China and eastern and central Russia. The umbral phase begins at 09<sup>h</sup> 09<sup>m</sup> and ends at 12<sup>h</sup> 49<sup>m</sup>. Totality lasts from 10<sup>h</sup> 16<sup>m</sup> to 11<sup>h</sup> 42<sup>m</sup>.

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

\*[www.gov.uk/when-do-the-clocks-change](http://www.gov.uk/when-do-the-clocks-change)  
2017 May  
Updated 2020 November

CALENDAR 2022

CHRONOLOGICAL CYCLES AND ERAS

Dominical Letter	B	Julian Period (year of)	6735
Epact	27	Roman Indiction	15
Golden Number (Lunar Cycle)	IX	Solar Cycle	15

  

Era	Year	Begins	Era	Year	Begins
Byzantine	7531	Sept. 14	Grecian (Seleucidæ)	2334	Sept. 14
Roman (AUC)	2775	Jan. 14			(or Oct. 14)
Nabonassar	2771	Apr. 18	Saka (Indian)	1944	Mar. 22
Japanese	2682	Jan. 1	Diocletian (Coptic)	1739	Sept. 11

RELIGIOUS CALENDARS

Epiphany	Jan. 6	Low Sunday	Apr. 24
Septuagesima Sunday	Feb. 13	Rogation Sunday	May 22
Quinquagesima Sunday	Feb. 27	Ascension Day—Holy Thursday	May 26
Ash Wednesday	Mar. 2	Whit Sunday—Pentecost	June 5
Quadragesima Sunday	Mar. 6	Trinity Sunday	June 12
Fourth Sunday in Lent—Mothering Sunday	Mar. 27	Corpus Christi	June 16
Palm Sunday	Apr. 10	First Sunday in Advent	Nov. 27
Good Friday	Apr. 15	Christmas Day (Sunday)	Dec. 25
Easter Day	Apr. 17		
First Day of Passover (Pesach)	Apr. 16	Day of Atonement (Yom Kippur)	Oct. 5
Feast of Weeks (Shavuot)	June 5	First day of Tabernacles (Succoth)	Oct. 10
Jewish New Year (Rosh Hashanah)	5783 Sept. 26		
First day of Ramadân	Apr. 3	Islamic New Year	1444 July 30

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 <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	<i>Jan. 1#</i>	<i>Jan. 3</i>	<i>Jan. 1#</i>	<i>Jan. 3</i>	<i>Jan. 1#</i>	<i>Jan. 4</i>	<i>Jan. 2†</i>	<i>Jan. 3</i>
St Patrick	—		Mar. 17		—			
Good Friday	Apr. 15‡		Apr. 15‡		Apr. 15			
Easter Monday	Apr. 18		Apr. 18		—			
Early (Spring) May	<i>May 2</i>		<i>May 2</i>		May 2			
Spring	June 2		June 2		June 2			
Queen's Platinum Jubilee	June 3		June 3		June 3			
Battle of the Boyne	—		<i>July 12</i>		—			
Summer	Aug. 29		Aug. 29		Aug. 1			
Christmas	Dec. 25‡†	Dec. 27	Dec. 25‡†	Dec. 27	Dec. 25†	Dec. 26		
Boxing Day	Dec. 26		Dec. 26		Dec. 26	Dec. 27		

‡ 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.