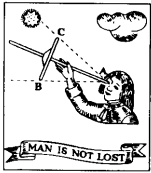


# RGO ASTRONOMICAL INFORMATION SHEET No. 61



Prepared by

HM Nautical Almanac Office, Royal Greenwich Observatory,  
Madingley Road, Cambridge, CB3 0EZ



for the Particle Physics and Astronomy Research Council

## ASTRONOMICAL AND CALENDARIAL DATA SHEET FOR 1995

### 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.     | 1  | 10 | 56 | Jan.          | 8  | 15 | 46 | Jan.      | 16 | 20 | 26 | Jan.         | 24 | 04 | 58 |
| Jan.     | 30 | 22 | 48 | Feb.          | 7  | 12 | 54 | Feb.      | 15 | 12 | 15 | Feb.         | 22 | 13 | 04 |
| Mar.     | 1  | 11 | 48 | Mar.          | 9  | 10 | 14 | Mar.      | 17 | 01 | 26 | Mar.         | 23 | 20 | 10 |
| Mar.     | 31 | 02 | 09 | Apr.          | 8  | 05 | 35 | Apr.      | 15 | 12 | 08 | Apr.         | 22 | 03 | 18 |
| Apr.     | 29 | 17 | 36 | May           | 7  | 21 | 44 | May       | 14 | 20 | 48 | May          | 21 | 11 | 36 |
| May      | 29 | 09 | 27 | June          | 6  | 10 | 26 | June      | 13 | 04 | 03 | June         | 19 | 22 | 01 |
| June     | 28 | 00 | 50 | July          | 5  | 20 | 02 | July      | 12 | 10 | 49 | July         | 19 | 11 | 10 |
| July     | 27 | 15 | 13 | Aug.          | 4  | 03 | 16 | Aug.      | 10 | 18 | 15 | Aug.         | 18 | 03 | 04 |
| Aug.     | 26 | 04 | 31 | Sept.         | 2  | 09 | 03 | Sept.     | 9  | 03 | 37 | Sept.        | 16 | 21 | 09 |
| Sept.    | 24 | 16 | 55 | Oct.          | 1  | 14 | 36 | Oct.      | 8  | 15 | 52 | Oct.         | 16 | 16 | 26 |
| Oct.     | 24 | 04 | 36 | Oct.          | 30 | 21 | 17 | Nov.      | 7  | 07 | 20 | Nov.         | 15 | 11 | 40 |
| Nov.     | 22 | 15 | 43 | Nov.          | 29 | 06 | 28 | Dec.      | 7  | 01 | 27 | Dec.         | 15 | 05 | 31 |
| Dec.     | 22 | 02 | 22 | Dec.          | 28 | 19 | 06 |           |    |    |    |              |    |    |    |

### SEASONS

|                  |   |               | d     | h  | m     |
|------------------|---|---------------|-------|----|-------|
| Vernal Equinox   | — | Spring begins | Mar.  | 21 | 02 14 |
| Summer Solstice  | — | Summer begins | June  | 21 | 20 34 |
| Autumnal Equinox | — | Autumn begins | Sept. | 23 | 12 13 |
| Winter Solstice  | — | Winter begins | Dec.  | 22 | 08 17 |

### SUMMER TIME

In the United Kingdom BST, one hour in advance of GMT, will be kept from March 26<sup>d</sup> 01<sup>h</sup> to October 22<sup>d</sup> 01<sup>h</sup> GMT.

### ECLIPSES

1. A partial eclipse of the Moon on April 15 is visible from part of Antarctica, Mexico, western half of North America, Pacific Ocean, Australasia and eastern part of Asia. The eclipse begins at 11<sup>h</sup> 42<sup>m</sup> and ends at 12<sup>h</sup> 54<sup>m</sup>. The time of maximum eclipse is 12<sup>h</sup> 18<sup>m</sup>, when 0.11 of the Moon's diameter is obscured.
2. An annular eclipse of the Sun on April 29 is visible as a partial eclipse from the Pacific Ocean, Central America, South America except extreme southern tip, Atlantic Ocean and West Africa. The eclipse begins at 14<sup>h</sup> 33<sup>m</sup> and ends at 20<sup>h</sup> 32<sup>m</sup>. The annular phase begins in the Central Pacific Ocean at 15<sup>h</sup> 42<sup>m</sup>, crosses central Peru and Brazil and ends at 19<sup>h</sup> 23<sup>m</sup> in the mid South Atlantic Ocean. The maximum duration of the annular phase is 6<sup>m</sup> 31<sup>s</sup>.
3. A total eclipse of the Sun on October 24. The path of totality begins in Iran, crosses Pakistan, northern India, south east Asia, passes south of the Philippines then north of New Guinea and ends in the Central Pacific Ocean. The partial phase is visible from extreme north-east Africa, central and eastern Asia except extreme north-eastern part, northern part of the Indian Ocean, northern half of Australia and western Pacific Ocean. The eclipse begins at 01<sup>h</sup> 52<sup>m</sup> and ends at 07<sup>h</sup> 13<sup>m</sup>, the total phase begins at 02<sup>h</sup> 53<sup>m</sup> and ends at 06<sup>h</sup> 12<sup>m</sup>. The maximum duration of totality is 2<sup>m</sup> 15<sup>s</sup>.

All times are in GMT

JPH/CYH

1990 July  
Updated 1994 November

Copyright is reserved on this material. Permission must be granted to reproduce this material. The following acknowledgement should be given in any publication in which it is reproduced: "... reproduced, with permission, from data supplied by HM Nautical Almanac Office © Copyright Particle Physics and Astronomy Research Council". The PPA Research Council does not accept any responsibility for loss or damage arising from the use of information contained in any of its reports or in any communication about its tests or investigations.

CALENDAR 1995

CHRONOLOGICAL CYCLES AND ERAS

|                             |    |                         |      |
|-----------------------------|----|-------------------------|------|
| Dominical Letter            | A  | Julian Period (year of) | 6708 |
| Epact                       | 29 | Roman Indiction         | 3    |
| Golden Number (Lunar Cycle) | I  | Solar Cycle             | 16   |

| Era         | Year | Begins   | Era                 | Year | Begins       |
|-------------|------|----------|---------------------|------|--------------|
| Byzantine   | 7504 | Sept. 14 | Grecian (Seleucidæ) | 2307 | Sept. 14     |
| Roman (AUC) | 2748 | Jan. 14  |                     |      | (or Oct. 14) |
| Nabonassar  | 2744 | Apr. 25  | Indian (Saka)       | 1917 | Mar. 22      |
| Japanese    | 2655 | Jan. 1   | Diocletian          | 1712 | Sept. 12     |

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. 15       | Day of Atonement (Yom Kippur)      | Oct. 4      |
| Feast of Weeks (Shavuot)               | June 4        | First day of Tabernacles (Succoth) | Oct. 9      |
| Jewish New Year (Rosh Hashanah)        | 5756 Sept. 25 |                                    |             |
| First day of Ramadân                   | Feb. 1        | Islamic New Year                   | 1416 May 31 |

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. 13 | The Queen's Official Birthday                | June 17 |
| 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 |

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. 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          | —                       |
| May Day, VE Anniversary | May 8             | May 8            | May 29, May 8           |
| 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

# 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.