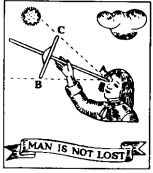


# RG0 ASTRONOMICAL INFORMATION SHEET No. 68



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for the Particle Physics and Astronomy Research Council

## ASTRONOMICAL AND CALENDARIAL DATA SHEET FOR 1998

### 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	06	01	Jan.	5	14	18	Jan.	12	17	24	Jan.	20	19	40
Feb.	26	17	26	Feb.	3	22	53	Feb.	11	10	23	Feb.	19	15	27
Mar.	28	03	14	Mar.	5	08	41	Mar.	13	04	34	Mar.	21	07	38
Apr.	26	11	41	Apr.	3	20	18	Apr.	11	22	23	Apr.	19	19	53
May	25	19	32	May	3	10	04	May	11	14	29	May	19	04	35
June	24	03	50	June	2	01	45	June	10	04	18	June	17	10	38
July	23	13	44	July	1	18	43	July	9	16	01	July	16	15	13
Aug.	22	02	03	July	31	12	05	Aug.	8	02	10	Aug.	14	19	48
Sept.	20	17	01	Aug.	30	05	06	Sept.	6	11	21	Sept.	13	01	58
Oct.	20	10	09	Sept.	28	21	11	Oct.	5	20	12	Oct.	12	11	11
Nov.	19	04	27	Oct.	28	11	46	Nov.	4	05	18	Nov.	11	00	28
Dec.	18	22	42	Nov.	27	00	23	Dec.	3	15	19	Dec.	10	17	53
				Dec.	26	10	46								

### SEASONS

			d	h	m	
Vernal Equinox	—	Spring begins	Mar.	20	19	55
Summer Solstice	—	Summer begins	June	21	14	03
Autumnal Equinox	—	Autumn begins	Sept.	23	05	37
Winter Solstice	—	Winter begins	Dec.	22	01	56

### SUMMER TIME

In the United Kingdom BST, one hour in advance of GMT, will be kept from March 29<sup>d</sup> 01<sup>h</sup> to October 25<sup>d</sup> 01<sup>h</sup> GMT.\*

### ECLIPSES

1. A total eclipse of the Sun on February 26. The path of totality begins in the Central Pacific Ocean, touches the northern tip of South America, passes into the North Atlantic Ocean and ends west of the Canary Islands. The partial phase is visible from the Pacific Ocean, extreme south-west and eastern parts of the United States of America, south-east Canada, Mexico, Central America, the northern half of South America, the West Indies, the Atlantic Ocean, the southern tip of Greenland, the extreme western part of Iceland, Portugal and West Africa. The eclipse begins at 14<sup>h</sup> 50<sup>m</sup> and ends at 20<sup>h</sup> 06<sup>m</sup>; the total phase begins at 15<sup>h</sup> 48<sup>m</sup> and ends at 19<sup>h</sup> 09<sup>m</sup>. The maximum duration of totality is 4<sup>m</sup> 13<sup>s</sup>.

2. An annular eclipse of the Sun on August 21–22. It is visible as a partial eclipse from the North Indian Ocean, India, South East Asia, southern China, Indonesia, Malaysia, the Philippine Republic, southern Japan, Australasia and the South Pacific Ocean. The eclipse begins on August 21 at 23<sup>h</sup> 10<sup>m</sup> and ends on August 22 at 05<sup>h</sup> 02<sup>m</sup>. The annular phase begins in the north-east Indian Ocean on August 22 at 00<sup>h</sup> 16<sup>m</sup>, crosses central Sumatra, southern Malaya, Sarawak, northern Borneo, passes north of New Guinea and ends on August 22 at 03<sup>h</sup> 57<sup>m</sup> in the South Pacific Ocean. The maximum duration of the annular phase is 3<sup>m</sup> 08<sup>s</sup>.

All times are in GMT

\*Subject to confirmation

CYH/SAB

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