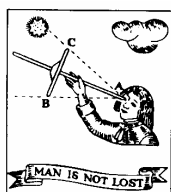


# ASTRONOMICAL INFORMATION SHEET No. 65



Prepared by

HM Nautical Almanac Office

## THE UNITED KINGDOM HYDROGRAPHIC OFFICE

Admiralty Way, Taunton, Somerset, TA1 2DN



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### List of Astronomical Information Sheets Prepared by HM Nautical Almanac Office

This is a list of all information sheets produced by HM Nautical Almanac Office. There is a charge for some sheets, eg the calendrical sheets, (prices available on request), while some sheets are now out of date. Those with **bold** number are the more useful and upto-date sheets. Details of our publications and services may be found on Internet, on the World Wide Web (WWW) at <http://www.ukho.gov.uk/hmnao>.

No.	Author(s)	Title	Date	Last Updated
1	FMS	Solar Eclipse of 1972 July 10	1972 June	
2		Total Eclipse of 1973 June 30	1973 April	
3	GAE	Book List for Amateur Astronomers	1982 March	1986 February
4	BE/GAW	Data on the Rotation and Revolution of the Sun and Planets	1973 August	
5	GAW	The Basis of the Calendar for the Year 2000	1974 September	1990 July
6	BDY/CYH/SAB	A note on the Prediction of the Dates of First Visibility of the New Crescent Moon	1974 November	2006 January
7	GAW/BDY/CYH	A Note on Sunrise, Sunset and Twilight Times and on the Illumination Conditions during Twilight	1974 November	1996 March
8	GAW/GRB/GAG /JPH/CYH/BDY/ SAB	Time-scales used in the United Kingdom from 1880 onwards	1984 June	1999 May
9	BE	B-magnitudes of the 4 Principal Minor Planets 1974-1980	1975 May	
10	GET	Planetary Alignments	1975 October	
11	FGW/GAG	Sunrise and Sunset times near the date of the Equinoxes and Solstices	1976 May	1986 February
12	GMA	Lunar Occultations of Minor Planets 1977	1976 November	
13	AM	Astronomical and Calendrical Data Sheet for 1978	1976 December	
14	AM	Astronomical and Calendrical Data Sheet for 1979	1976 December	
15	AM/GRB	Holidays in the United Kingdom 1977-79	1977 February	
16	LVM/BE/ATS	Approximate Formulae for the Geocentric Ecliptic Coordinates of the Sun and Moon	1977 February	1988 August
17	AM/ALP	Astronomical and Calendrical Data Sheet for 1980	1977 March	
18	GET	Planetary Occultations, 1978	1977 March	
19	ATS	Polynomial Coefficients for Sun and Planets 1977	1977 July	
20	ATS	Polynomial Coefficients for Sun and Planets 1978	1977 July	
21	AM/GR-B	Holidays in the United Kingdom 1978-80	1977 March	1977 October
22	AM/ALP	Astronomical and Calendrical Data Sheet for 1980	1977 March	1977 October
23	AM/ALJ	Astronomical and Calendrical Data Sheet for 1981	1977 December	1980 August
24	CYH/ALJ/BH	Astronomical and Calendrical Data Sheet for 1982	1978 April	1980 August
25	CYH/ALJ/BH	Astronomical and Calendrical Data Sheet for 1983	1978 April	1982 March
26	CYH/GRB/BH	Holidays in the United Kingdom 1981-1983 updated to read 1982-1983	1978 April 1982 January	1982 March
27	GET	Planetary Occultations 1979	1978 October	
28	BE	Transits of the Moon, 1980-1984	1978 July	
29	BDY/CYH/GAE	Polynomial Coefficients for Astro-navigation, 1979	1978 November	
30	BDY/CYH/VAE	Publications on Astronomy, Navigation and Mathematics Prepared by HM Nautical Almanac Office	1978 November	1999 April
31	CYH	Notes on the Purchase of Current Publications on Astronomy, Navigation & Mathematics by HM Nautical Almanac Office	1978 November	2001 February
32	BDY/CYH/GAE	Polynomial Coefficients for Astro-navigation 1980	1979 October	

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No.	Author(s)	Title	Date	Last Updated
33	BDY/CYH	The Solar Butterfly Diagram 1874-1976	1979 November	
34	BDY	Zurich Sunspot Numbers	1979 November	2005 January
35	CYH/GAE	Astronomical and Calendarial Data Sheet for 1984	1980 February	1983 September
36	CYH/GAE	Astronomical and Calendarial Data Sheet for 1985	1980 February	1983 September
37	CYH/GAE/GRB	Holidays in the United Kingdom 1984-1986	1980 June	1983 October
38	CYH/GAE/GRB	Holidays in the United Kingdom 1987-1989	1980 June	1982 February
39	CYH	Geocentric Rectangular Coordinates of the Sun, 1981	1981 April	
40	CYH/GAE	Astronomical and Calendarial Data Sheet for 1986	1982 January	1984 December
41	GAG	Eclipses visible in the United Kingdom 1983-2000	1983 January	
42	GAG	Astronomical and Calendarial Data Sheet for 1987	1984 January	1985 March
43	GAG/CYH	Astronomical and Calendarial Data Sheet for 1988	1984 January	1985 March
44	GAG/CYH	Astronomical and Calendarial Data Sheet for 1989	1984 October	1984 December
45	AFS/CYH	Astronomical and Calendarial Data Sheet for 1990	1985 April	1989 May
46	GAG/GRB	Holidays in the United Kingdom 1990-1992	1985 January	
47	JDHP	Broadcast Time Signals and GMT	1985 April	1990 July
48	BDY/CYH	Closest approach of <i>Polaris</i> to the North Celestial Pole in AD2100	1985 December	
49	GAG/AFS/CYH	Astronomical and Calendarial Data Sheet for 1991	1986 April	1989 May
50	BDY	Earliest Sighting of the New Moon in 1987	1987 January	
51	AFS/CYH	Astronomical and Calendarial Data Sheet for 1992	1987 May	1989 May
52	BDY	First Sighting of New Moon in 1988	1987 August	
53	AFS/CYH	Holidays in the United Kingdom 1993-1995	1988 January	
54	AFS/CYH	Astronomical and Calendarial Data Sheet for 1993	1988 May	1993 March
55	BDY	First Sighting of the New Moon in 1989	1988 June	
56	BDY	First Sighting of the New Moon in 1990 and 1991	1989 June	
57	AFS/CYH	Astronomical & Calendarial Data Sheet for 1994	1989 May	1994 February
58	BDY/CYH	Solar Location Diagram	1989 August	
59	BDY/JPH	Eclipses visible in the United Kingdom 1990-2010	1990 July	
60	BDY	The 21 <sup>st</sup> Century and the Third Millennium	1993 January	
61	JPH/CYH	Astronomical & Calendarial Data Sheet for 1995	1990 July	1994 November
62	BDY	First sighting of the New Moon in 1992 and 1993	1991 March	
63	JPH/CYH	Astronomical & Calendarial Data Sheet for 1996	1991 November	1995 October
64	JPH/CYH	Astronomical & Calendarial Data Sheet for 1997	1992 September	1996 October
65	CYH	List of Astronomical Information Sheets Prepared by HM Nautical Almanac Office	1993 March	2011 December
66	CYH	List of NAO Technical Notes	1993 May	2011 July
67	BDY	Earliest Sighting of New Moon between 1994 January and 1996 April	1993 June	
68	CYH/SAB	Astronomical & Calendarial Data Sheet for 1998	1994 January	1998 January
69	CYH/BDY	Summary of the Bank Holiday Rules		
70	BDY	The Dates of Easter, 1990 - 2049	1994 January	
71	BDY	Earliest Visibility of the New Crescent Moon, 1994 - 1998 for London, Leeds and Glasgow	1994 February	1994 May 26
72	BDY	Earliest Visibility of the New Crescent Moon, 1994 - 1998 for Cities around the World	1994 May	1994 June 7
73	BDY	Earliest Sighting of New Moon between 1996 and 2000	1994 June	1998 June
74	CYH/SAB	Astronomical & Calendarial Data Sheet for 1999	1995 January	1999 June 29
75	BDY	Earliest Visibility of the New Crescent Moon, 1996 - 2000 for Cities around the World	1995 December	1998 April
76	BDY	Earliest Visibility of the New Crescent Moon, 1996 - 2000 for London, Leeds and Glasgow	1995 November	1998 April
77	CYH/SAB	Astronomical & Calendarial Data Sheet for 2000	1996 February	1999 June 29
78	CYH/SAB	Astronomical & Calendarial Data Sheet for 2001	1996 December	1998 January
79	CYH/SAB	Astronomical & Calendarial Data Sheet for 2002	1998 January	
80	BDY/CYH/ADH	Earliest Sighting of New Moon between 2001 and 2005	1997 December	1998 June
81	BDY	Earliest Visibility of the New Crescent Moon, 2001 - 2005 for Cities around the World	1998 March	1998 April
82	BDT	Earliest Visibility of the New Crescent Moon, 2001 - 2005 for London, Leeds and Glasgow	1998 March	1998 April
83	SAB	The Visibility of the 1999 August 11 <sup>th</sup> Total Eclipse of the Sun from the British Isles	1999 April	

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<b>No.</b>	<b>Author(s)</b>	<b>Title</b>	<b>Date</b>	<b>Last Updated</b>
84	CYH/SAB	Astronomical & Calendarial Data Sheet for 2003	2000 January	2002 March
85	CYH/SAB	Astronomical & Calendarial Data Sheet for 2004	2000 January	2002 March
86	CYH/SAB	Astronomical & Calendarial Data Sheet for 2005	2001 February	2002 March
87	CYH/SAB	Astronomical & Calendarial Data Sheet for 2006	2002 February	2005 March
88	CYH/SAB	Astronomical & Calendarial Data Sheet for 2007	2003 October	2005 January
89	CYH/SAB	Astronomical & Calendarial Data Sheet for 2008	2003 October	2008 May
90	CYH/SAB	Astronomical & Calendarial Data Sheet for 2009	2005 March	2008 May
91	CYH/SAB	Astronomical & Calendarial Data Sheet for 2010	2005 March	2008 May
92	CYH/SAB	Astronomical & Calendarial Data Sheet for 2011	2006 January	2010 November
93	CYH/SAB	Earliest Visibility of the New Crescent Moon, 2006 - 2010 for Cities around the World	2006 January	
94	CYH/SAB	Earliest Visibility of the New Crescent Moon, 2006 - 2010 for London, Leeds and Glasgow	2006 January	
95	SAB/CYH	Earliest Sighting of the New Crescent Moon between 2006 - 2010	2006 January	
96	SAB/CYH/JMW	Astronomical & Calendarial Data Sheet for 2012	2006 December	2011 June
97	SAB/CYH	Astronomical & Calendarial Data Sheet for 2013	2008 May	2011 December
98	SAB/CYH	Astronomical & Calendarial Data Sheet for 2014	2008 December	
99	SAB/CYH/JMW	Astronomical & Calendarial Data Sheet for 2015	2009 December	
100	SAB/CYH/JMW	Astronomical & Calendarial Data Sheet for 2016	2010 July	
101	CYH/SAB	Earliest Visibility of the New Crescent Moon, 2011 - 2015 for Cities around the World	2011 March	
102	CYH/SAB	Earliest Visibility of the New Crescent Moon, 2011 - 2015 for London, Leeds and Glasgow	2011 March	
103	CYH/SAB	Earliest Sighting of the New Crescent Moon between 2011 - 2015	2011 March	
104	SAB/CYH/JMW	Astronomical & Calendarial Data Sheet for 2017	2011 December	