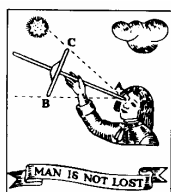


ASTRONOMICAL INFORMATION SHEET No. 65



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There is a charge for some sheets, eg the calendrical sheets, (prices available on request), while some sheets are now out of date.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 st 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 th Total Eclipse of the Sun from the British Isles | 1999 April | |

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| No. | Author(s) | Title | Date | Last Updated |
|------------|------------------|--|---------------|---------------------|
| 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 | |