

ALMANAC

All times U.T for B.S.T. Add one hour

Rise and set times are for Worthing

December / January

LUNAR

December	Date	Time	Rise	Set
<i>Perigee</i>	18th	20.26	370,265 km	
Last quarter	19th	04.58	23.35	12.43
New Moon	26th	05.14	08.15	16.15

January

<i>Apogee</i>	2nd	01.30	404,580 km	
First quarter	3rd	04.45	12.11	23.38
Full Moon	10th	19.21	16.10	07.35
<i>Perigee</i>	13th	20.21	365,958 km	
Last quarter	17th	12.58	23.59	11.37

EARTH

December	Sunrise	Sunset
19th	07.58	15.55
26th	08.02	15.59

January

3rd	08.03	16.07
10th	08.01	16.16
17th	07.56	16.26

PLANETS

(As at December 19th)

	Rises	Sets	Mag
Mercury	06.58	15.04	-0.6
Morning object in the south-east before dawn, observable in late December			
Venus	10.09	18.16	-4.0
Very bright evening object, setting more than 2 hours after the Sun			
Mars	04.43	13.54	+1.6
Morning object in Libra and later Scorpius, and easily observable			
Jupiter	08.27	16.22	-1.8
Approaching conjunction and not observable in this period			
Saturn	09.28	17.41	+0.6
Evening object in Sagittarius, but becoming lost in the twilight			
Uranus	13.07	03.19	+5.7
Difficult evening object in Aries, visible until the early hours			
Neptune	11.47	22.50	+7.9
Difficult evening object in Aquarius, observable until late evening			

PHENOMENA

December

Day	Hour	
22nd	04	Winter solstice
23rd	02	Mars 4° S of Moon
25th	11	Mercury 2° S of Moon
26th	05	Annular solar eclipse (not visible here)
27th	12	Saturn 1° N of Moon
27th	18	Jupiter at solar conjunction
29th	02	Venus 1° N of Moon

January

4th	09	Quadrantid meteor shower peak
5th	08	Earth at perihelion
5th	17	Vesta 2° S of Moon
10th	15	Mercury at superior conjunction
10th	19	Penumbral lunar eclipse
12th	07	Pluto 1° N of Mercury
13th	14	Saturn at solar conjunction
18th	19	Mars < 0.5° S of Uranus

Minima of Algol

December	25th 06.00	28th 02.48	30th 23.36
January	2nd 20.24	5th 17.12	14th 07.42
	17th 04.30		

Lunar Occultations Times as at Greenwich U.T.

Date	Z.C. No	Mag	Phase	U.T.
December				
15th	1224	5.3	Reapp	04.12
18th	1702	4.0	Reapp	23.38

January

I don't currently have this information. Can anyone help? I think there are no stars above about 3rd magnitude occulted in January anyway.

Richard Godley