

# ALMANAC

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

Rise and set times are for Worthing

## October / November

### LUNAR

October		Rise	Set
First quarter	16th	18.02	13.43 22.13
Apogee	17th	19.16	404,227 km
Full Moon	24th	16.45	17.17 05.38
Last quarter	31st	16.40	22.57 13.30
Perigee	31st	20.23	370,204 km

  

November		Rise	Set
New Moon	7th	16.02	06.26 16.53
Apogee	14th	15.56	404,339 km
First quarter	15th	14.54	12.56 21.55
Full Moon	23rd	05.39	16.48 06.57

### EARTH

October	Sunrise	Sunset
16th	06.23	17.06
24th	06.37	16.50
31st	06.49	16.37

  

November	Sunrise	Sunset
7th	07.01	16.25
14th	07.12	16.14
23rd	07.27	16.04

### PLANETS

(As at October 18th)

	Rises	Sets	Mag
<b>Mercury</b>	08.11	17.27	-0.3
Very difficult evening object, may be just possible in early-mid November			
<b>Venus</b>	08.12	16.37	-4.3
It should be possible to find Venus pre-dawn in November			
<b>Mars</b>	14.59	23.39	-0.9
Bright evening object in Capricornus, visible until late evening			
<b>Jupiter</b>	09.17	18.13	-1.8
Sinking into the sunset in late October, although still bright			
<b>Saturn</b>	12.28	20.29	+0.5
Bright evening object in Sagittarius, visible until early to mid evening			
<b>Uranus</b>	17.06	07.09	+5.7
Visible all night in Aries, an evening object once past opposition			
<b>Neptune</b>	15.46	02.45	+7.8
Evening object in Aquarius, difficult, but possible until the early hours			

## PHENOMENA

### October

Day	Hour	
15th	03	Saturn 2° S of Moon
16th	03	Mercury 6° N of Venus
18th	13	Mars 2° S of Moon
20th	22	Neptune 3° N of Moon
24th	01	Uranus at opposition
24th	13	Uranus 5° N of Moon
26th	14	Venus at inferior conjunction
30th	04	Jupiter 3° N of Mercury

### November

6th	16	Mercury at eastern elongation 23.3°
8th	18	Jupiter 4° S of Moon
9th	06	Antares 2° S of Mercury
11th	16	Saturn 1.5° S of Moon
14th	23	Venus 0.2° S of Spica
16th	04	Mars 1° N of Moon
17th	06	Neptune 3° N of Moon
20th	20	Uranus 5° N of Moon

### Minima of Algol

<b>October</b>	18th 06.36	21st 03.24	24th 00.18
	26th 21.06	29th 17.54	
<b>November</b>	7th 08.18	10th 05.12	13th 02.00
	15th 22.48	18th 19.36	21st 16.24

### Lunar Occultations Times as at Greenwich U.T.

Date	Z.C. No	Mag	Phase	U.T.
<b>October</b>				
28th	895	5.9	Reapp	20.59
29th	915	4.6	Reapp	01.01
30th	1077	4.0	Reapp	00.59
<b>November</b>				
21st	405	4.3	Diss	20.49

Richard Godley