

ALMANAC

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

Rise and set times are for Worthing

October / November

LUNAR

October

New Moon	19th	19.12	05.52	17.22
Apogee	25th	02.16	405,154 km	
First quarter	27th	22.22	13.22	22.22

November

Full Moon	4th	05.23	17.18	06.28
Perigee	6th	00.10	361,438 km	
Last quarter	10th	20.36	23.07	13.06
New Moon	18th	11.42	06.56	16.44

EARTH

October Sunrise Sunset

19th	06.30	17.00
27th	06.43	16.45

November

4th	06.57	16.30
10th	07.07	16.21
18th	07.21	16.10

PLANETS

(As at October 19th)

	Rises	Sets	Mag
Mercury	07.08	17.11	-1.6

Now an evening object which may be observable in mid-November

Venus	04.31	16.31	-4.0
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Very bright in the pre-dawn sky, elongation decreasing, more difficult now

Mars	03.47	16.15	+1.6
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Now a morning object in Virgo, and becoming more observable

Jupiter	06.59	17.16	-1.7
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At solar conjunction on the 26th and not observable this month

Saturn	11.35	19.43	+1.2
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Evening object in Ophiuchus, visible until only until early evening

Uranus	16.53	06.41	+5.7
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At opposition and thereafter an evening object in Pisces

Neptune	15.37	02.28	+7.8
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Difficult evening object in Aquarius, but visible until the early hours

PHENOMENA

October

Day	Hour	
17th	10	Mars 2° S of Moon
18th	00	Venus 2° S of Moon
18th	15	Jupiter 1° N of Mercury
19th	17	Uranus at opposition
20th	03	Jupiter 4° S of Moon
24th	12	Saturn 3° S of Moon
26th	18	Jupiter at solar conjunction
28th	24	Pallas at opposition

November

3rd	01	Uranus 4° N of Moon
13th	06	Jupiter 0.3° S of Venus
15th	01	Mars 3° S of Moon
16th	21	Jupiter 4° S of Moon
17th	06	Venus 4° S of Moon

Minima of Algol

October	16th	06.06	19th	02.54	21st	23.42
	24th	20.30	27th	17.24		
November	8th	04.36	11th	01.24	13th	22.18
	16th	19.06	19th	15.54		

Lunar Occultations Times as at Greenwich U.T.

Date Z.C. No Mag Phase U.T.

October

14th	1337	5.7	Reapp	03.53
15th	1466	5.3	Reapp	06.35

November

5th	635	3.7	Reapp	19.47
5th	667	5.0	Reapp	23.48
6th	677	4.8	Reapp	00.32
6th	Aldebaran	0.9	Diss	02.39
6th	Aldebaran	0.9	Reapp	03.24
7th	832	4.3	Reapp	00.23
7th	836	5.7	Reapp	01.03
9th	1175	4.9	Reapp	05.01
13th	1644	4.1	Reapp	01.35

Richard Godley