## **ALMANAC**

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

## Rise and set times are for Worthing

			_	November							
	ember /	Decemb	oer								
					Day	Hour					
	.UNAR			20th	20	Uranus 5° N of Moon					
					24th	02	Antares 4° S of Mercury				
					26th	06	Jupiter at solar conjunction				
November			Rise	Set	27th	09	Mercury at inferior solar conjunction				
					28th	00	Jupiter 0.5° S of Mercury				
Full Moon	23rd	05.39	16.48	06.57	30th	14	Venus at greatest brilliancy -4.7				
Perigee	26th	12.12	366,62								
Last quarter	30th	00.19	23.20	12.51							
					December						
December											
					3rd	19	Venus 4° S of Moon				
New Moon	7th	07.20	07.39		5th	21	Mercury 2° S of Moon				
Apogee	12th	12.25	405,17		6th	13	Jupiter 3° S of Moon				
First quarter	15th	11.49	12.40		7th	15	Neptune 0.04° S of Mars				
Full Moon	22nd	17.49	16.13	07.03	9th	05	Saturn 1° S of Moon				
EARTH					14th	06	Geminid meteor shower peak				
	1			14th	14	Neptune 3° N of Moon					
Massamahan			0		14th	23	Mars 4° N of Moon				
November	November Sunrise		Sunset	į.	15th	11	Mercury at western elongation 21.3°				
00rd	07.27		16.04		18th 21st	04 15	Uranus 5° N of Moon Jupiter 1° S of Mercury				
23rd 30th	07.27		15.59		21st	22	Winter solstice				
30111	07.30		15.59		2181	22	willer solstice				
December			Minima of Algol								
7th	07.47		15.55								
15th	07.47 07.56		15.54		Novom	hor	21st 16.24 30th 06.54				
22nd	08.00		15.57		November		2131 10.24 3011 00.34				
ZZIIG	00.00		10.07		Decem	her	3rd 03.42 6th 00.30 8th 21.18				
					Decen	ibei	11th 18.06 20th 08.36				
PLANETS							15.55 2541 55.55				
(As at November 22nd)							Lunar Occultations				

`			,	Times as at Greenwich U.T					
	Rises	Sets	Mag		• • • • • • • • • • • • • • • • • • • •	oo ao at c	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
<u>Mercury</u>	08.34	16.32	+2.0	Date	Z.C. No	Mag	Phase	U.T.	
Becoming a morr	ing object v	isible in th	ne south-east pre-dawn in December			9		• • • • • • • • • • • • • • • • • • • •	
<u>Venus</u>	04.17	14.44	-4.6						
Now a very bright	t morning of	bject in the	e south-east pre-dawn	Marra					
<u>Mars</u>	13.13	23.24	-0.2	November					
Bright evening ob	ject in Aqua	arius, visib	le until late evening						
Jupiter	07.41	16.16	-1.7	21st	405	4.3	Diss	20.49	
Possible to find a	s a morning	object in	mid-December low in the south-east	25th	894	4.4	Diss	06.17	
Saturn	10.23	18.25	+0.6	30th	1576	5.3	Reapp	03.25	
Evening object in	Sagittarius	, but sinkir	ng into the sunset in mid-December				• • •		
Uranus	14.46	04.44	+5.7	Decer	mber				
Evening object in	Aries, visib	le until the	early hours	<b>D</b> 000.	11501				
<b>Neptune</b>	13.28	00.26	+7.9	19th	364	4.3	Diss	00.44	
Evening object in	Aquarius, \	isible unti	after midnight			_			
<b>5</b> ,			ŭ	19th	462	6.0	Diss	18.21	
				21st	650	5.6	Diss	03.29	
				21st	764	4.9	Diss	19.23	

**Richard Godley** 

**PHENOMENA**