

SKYTRACK

Diary of Astronomical Events 2011

(All times listed are UT); Singapore Standard (Local) Time = UT + 8 h

January

d h

02	15	Mercury 4° N of Moon	
04	09	NEW MOON	(Partial Solar Eclipse not visible from Singapore)
08	16	Venus greatest elongation W (47°)	
09	15	Mercury greatest elongation W (23°)	
10	17	Jupiter 7° S of Moon	
12	12	FIRST QUARTER	
15	22	Venus 8° N of Antares	
19	21	FULL MOON	
25	10	Saturn 8° N of Moon	
26	13	LAST QUARTER	
27	08	Saturn stationary	
30	04	Venus 3° N of Moon	

February

d h

01	18	Mercury 4° S of Moon	
03	03	NEW MOON	
04	17	Mars in conjunction with Sun	
07	10	Jupiter 7° S of Moon	
11	07	FIRST QUARTER	
18	09	FULL MOON	
21	17	Saturn 8° N of Moon	
24	23	LAST QUARTER	
25	09	Mercury in superior conjunction	

March

d h

01	04	Venus 1.6° S of Moon	
04	21	NEW MOON	
07	05	Jupiter 7° S of Moon	
13	00	FIRST QUARTER	
16	17	Mercury 2° N of Jupiter	

19 18 FULL MOON
20 23 Equinox
21 00 Saturn 8° N of Moon
23 01 Mercury greatest elongation E (19°)
26 12 LAST QUARTER
27 01 Venus 0.2° S of Neptune
30 17 Mercury stationary
31 13 Venus 6° S of Moon

April

d h

03 15 NEW MOON
04 00 Saturn at opposition
06 15 Jupiter at conjunction with Sun
09 20 Mercury in inferior conjunction
11 12 FIRST QUARTER
17 08 Saturn 8° N of Moon
18 03 FULL MOON
19 08 Mercury 0.8° N of Mars
22 05 Mercury stationary
25 03 LAST QUARTER
30 23 Venus 7° S of Moon

May

d h

01 07 Mercury 8° S of Moon
01 11 Mars 0.4° N of Jupiter
01 19 Jupiter 6° S of Moon
01 20 Mars 6° S of Moon
03 07 NEW MOON
07 19 Mercury greatest elongation W (27°)
10 21 FIRST QUARTER
10 23 Mercury 2° S of Jupiter
11 09 Venus 0.6° S of Jupiter
14 15 Saturn 8° N of Moon
17 11 FULL MOON
20 01 Mercury 2° S of Mars
22 15 Venus 1.1° S of Mars
24 19 LAST QUARTER
29 15 Jupiter 6° S of Moon
30 20 Mars 4° S of Moon
31 04 Venus 4° S of Moon

June

d h

01	21	NEW MOON	(Partial Solar Eclipse not visible from Singapore)
09	02	FIRST QUARTER	
10	21	Saturn 8° N of Moon	
13	00	Mercury in superior conjunction	
14	05	Saturn stationary	
15	20	FULL MOON	(Total Lunar Eclipse visible from Singapore)†
18	08	Venus 5° N of Aldebaran	
21	17	Solstice	
23	12	LAST QUARTER	
26	09	Jupiter 5° S of Moon	
28	19	Mars 1.7° S of Moon	
28	22	Mercury 5° S of Pollux	

†*The total lunar eclipse is visible in the early morning of Jun16 . The Moon enters the Earth's umbra at 02 23 h Singapore Standard (Local) Time. Mid-eclipse is at 04 13 h. The Moon leaves the Earth's umbra at 06 02 h. The umbral magnitude (defined as the fraction on the Moon's diameter immersed in the Earth's umbra at maximum lunar eclipse) is 1.70.*

July

d h

01	09	NEW MOON	(Partial Solar Eclipse not visible from Singapore)
03	02	Mercury 5° N of Moon	
06	07	Mars 5° N of Aldebaran	
08	04	Saturn 8° N of Moon	
08	06	FIRST QUARTER	
15	07	FULL MOON	
20	05	Mercury greatest elongation E (27°)	
23	05	LAST QUARTER	
24	01	Jupiter 5° S of Moon	
27	17	Mars 0.5° N of Moon	
30	19	NEW MOON	

August

d h

01	11	Mercury 1.5° N of Moon	
02	07	Mercury stationary	
04	12	Saturn 8° N of Moon	

06 11 FIRST QUARTER
 13 19 FULL MOON
 16 12 Venus in superior conjunction
 17 01 Mercury in inferior conjunction
 20 12 Jupiter 5° S of Moon
 21 22 LAST QUARTER
 25 14 Mars 3° N of Moon
 26 04 Mercury stationary
 28 01 Mercury 3° N of Moon
 29 03 NEW MOON
 30 17 Jupiter stationary
 31 23 Saturn 7° N of Moon

September

d h

03 06 Mercury greatest elongation W (18°)
 04 18 FIRST QUARTER
 09 02 Mercury 0.7° N of Regulus
 10 02 Mars 6° S of Pollux
 12 09 FULL MOON
 16 18 Jupiter 5° S of Moon
 20 14 LAST QUARTER
 23 08 Mars 5° N of Moon
 23 09 Equinox
 27 11 NEW MOON
 28 20 Mercury in superior conjunction

October

d h

03 12 Venus 3° N of Spica
 04 03 FIRST QUARTER
 12 02 FULL MOON
 13 20 Jupiter 5° S of Moon
 13 21 Saturn in conjunction with Sun
 20 04 LAST QUARTER
 22 00 Mars 6° N of Moon
 26 20 NEW MOON
 28 02 Mercury 0.2° N of Moon
 28 05 Venus 1.8° N of Moon
 29 02 Jupiter at opposition
 31 05 Saturn 5° N of Spica

November

d h

02	17	FIRST QUARTER	
09	19	Jupiter 5° S of Moon	
09	21	Venus 4° N of Antares	
10	05	Mars 1.4° N of Regulus	
10	05	Mercury 1.9° N of Antares	
10	20	FULL MOON	
14	09	Mercury greatest elongation E (23°)	
18	15	LAST QUARTER	
19	10	Mars 8° N of Moon	
22	22	Saturn 7° N of Moon	
24	10	Mercury stationary	
25	06	NEW MOON	(Partial Solar Eclipse not visible from Singapore)
26	10	Mercury 1.7° S of Moon	
27	04	Venus 3° S of Moon	

December

d h

02	10	FIRST QUARTER	
04	09	Mercury in inferior conjunction	
06	20	Jupiter 5° S of Moon	
10	15	FULL MOON	(Total Lunar Eclipse visible from Singapore)‡
14	02	Mercury stationary	
17	13	Mars 8° N of Moon	
18	01	LAST QUARTER	
20	10	Saturn 7° N of Moon	
22	06	Solstice	
22	20	Mercury 7° N of Antares	
23	03	Mercury greatest elongation W (22°)	
23	04	Mercury 3° N of Moon	
24	18	NEW MOON	
26	11	Jupiter stationary	
27	11	Venus 6° S of Moon	

‡*The total lunar eclipse is visible in the evening of Dec 10. The Moon enters the Earth's umbra at 20 45 h Singapore Standard (Local) Time. Mid-eclipse is at 22 32 h. The Moon leaves the Earth's umbra at 00 18 h of Dec 11. The umbral magnitude (defined as the fraction on the Moon's diameter immersed in the Earth's umbra at maximum lunar eclipse) is 1.106.*