


































The Calendar-Sky

Thursday 7 October 2010

Time	Object (Link)	Event
	Observer Site	Lostock NSW Australia, Australia WGS84: Lon: +151d25m30.3s Lat: -32d18m53.4s Alt: 204m All times in UTC+11
18h28.1m		Set Azimuth=261.2°, W (in constellation Virgo)
19h00.2m		Set Azimuth=263.0°, W
19.0h	♀ Venus	Magnitude=-4.5mag Best seen from 19.0h -21.4h (h _{max} =29° at 19.0h) (in constellation Libra) RA=14h33m12s Dec=-22°29.7' (J2000) Distance=0.338AU Elongation= 30° Phase k=13% Diameter=49.3"
19.2h	♃ Jupiter	Magnitude=-2.9mag Best seen from 19.2h - 5.8h (h _{max} =61° at 23.7h) (in constellation Pisces) RA=23h48m30s Dec= -2°58.6' (J2000) Distance=3.995AU Elongation=162° Diameter=49.3"
19h25m		End civil twilight
19.4h	♂ Mars	Magnitude= 1.5mag Best seen from 19.4h -21.4h (h _{max} =25° at 19.4h) (in constellation Libra) RA=14h50m07s Dec=-16°40.8' (J2000) Distance=2.275AU Elongation= 31° Phase k=96% Diameter=4.1" planetographic latitude of the Earth=16.5°
19h39m		Sun 9° below horizon
19h54m		Dusk
20h09m		Sun 15° below horizon
20.1h	♅ Uranus	Magnitude= 5.7mag Best seen from 20.1h - 4.6h (h _{max} =59° at 23.7h) (in constellation Pisces) RA=23h53m17s Dec= -1°35.0' (J2000) Distance=19.129AU Elongation=164° Diameter=3.7"
20.1h	 Deep-Sky Observing	Best time interval for observing dim objects: 20h09m- 5h15m Prior to midnight
20h24m		End astronomical twilight
21h28.1m	♂ Mars	Set Azimuth=249.7°, WSW (in constellation Libra)
21h28.2m	♀ Venus	Set Azimuth=242.6°, WSW (in constellation Libra)
23h39.1m	♃ Jupiter	Transit Altitude=+60.6° (in constellation Pisces) Elongation=162.1° East, Magnitude=-2.9mag
23h43.9m	♅ Uranus	Transit Altitude=+59.2° (in constellation Pisces) Elongation=163.8° East, Magnitude=5.7mag

Friday 8 October 2010

Time	Object (Link)	Event
5h00m		Begin astronomical twilight
5h15m		Sun 15° below horizon
5h30m		Dawn
5h44m		Sun 9° below horizon
5h44.5m		New Moon
5h48.1m	 Jupiter	Set Azimuth=266.2°, W (in constellation Pisces)
5h59m		Begin civil twilight
6h09.5m		Rise Azimuth=102.2°, ESE (in constellation Virgo)
6h23.6m		Rise Azimuth= 97.3°, E
12h42.0m		Transit Altitude=+63.5° (in constellation Virgo)
12h49.8m		Transit Altitude=+69.2° (in constellation Virgo) Phase k=0.3%
14h21.5m	 Venus	Transit Altitude=+80.3° (in constellation Libra) Elongation=29.3° East, Magnitude=-4.5mag
19h00.9m		Set Azimuth=262.5°, W
19.0h	 Venus	Magnitude=-4.5mag Best seen from 19.0h -21.4h (h _{max} =28° at 19.0h) (in constellation Libra) RA=14h33m11s Dec=-22°33.3' (J2000) Distance=0.333AU Elongation= 29° Phase k=12% Diameter=50.1"
19.2h	 Jupiter	Magnitude=-2.9mag Best seen from 19.2h - 5.7h (h _{max} =61° at 23.6h) (in constellation Pisces) RA=23h48m03s Dec= -3°01.4' (J2000) Distance=4.000AU Elongation=161° Diameter=49.2"
19.3h		Lunar Crescent probably visible with optical aid, only 13.3 hours after new moon 0.6% illuminated, Moon lower limb relative to sunset point at sunset: dalt=6.6° daz=-3.5°
19h26m		End civil twilight
19.4h	 Mars	Magnitude= 1.5mag Best seen from 19.4h -21.4h (h _{max} =24° at 19.4h) (in constellation Libra) RA=14h52m53s Dec=-16°53.5' (J2000) Distance=2.278AU Elongation= 31° Phase k=97% Diameter=4.1" planetographic latitude of the Earth=16.3°
19h38.8m		Set Azimuth=254.2°, WSW (in constellation Virgo)
19h40m		Sun 9° below horizon
19h55m		Dusk
20h10m		Sun 15° below horizon
20.2h	 Uranus	Magnitude= 5.7mag Best seen from 20.2h - 4.5h (h _{max} =59° at 23.7h) (in constellation Pisces) RA=23h53m08s Dec= -1°35.9' (J2000) Distance=19.134AU Elongation=163° Diameter=3.7"
20.2h	 Deep-Sky Observing	Best time interval for observing dim objects: 20h10m- 5h14m Prior to midnight
20h25m		End astronomical twilight






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









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

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21h27.5m	 Mars	Set Azimuth=249.4°, WSW (in constellation Libra)
22h16m	 Mercury	Close to Saturn: only 31.8' separated from center of Saturn
22h35m	 Mercury	Conjunction with Saturn: only 31.9' separated from center of Saturn. Distance to earth: 1.350 AU
23h34.7m	 Jupiter	Transit Altitude=+60.7° (in constellation Pisces) Elongation=161.0° East, Magnitude=-2.9mag
23h39.8m	 Uranus	Transit Altitude=+59.2° (in constellation Pisces) Elongation=162.8° East, Magnitude=5.7mag

Saturday 9 October 2010


Time	Object (Link)	Event
1h57m	 Mercury	Conjunction in Right Ascension with Saturn: only 35.3' separated from center of Saturn
4h59m		Begin astronomical twilight
5h14m		Sun 15° below horizon
5h28m		Dawn
5h43m		Sun 9° below horizon
5h43.8m	 Jupiter	Set Azimuth=266.1°, W (in constellation Pisces)
5h58m		Begin civil twilight
6h22.4m		Rise Azimuth= 97.7°, E
6h49.5m		Rise Azimuth=108.6°, ESE (in constellation Virgo)
12h41.7m		Transit Altitude=+63.9° (in constellation Virgo)
13h45.4m		Transit Altitude=+74.5° (in constellation Virgo) Phase k=2.7%
14h17.4m	 Venus	Transit Altitude=+80.3° (in constellation Libra) Elongation=28.3° East, Magnitude=-4.5mag
19h01.6m		Set Azimuth=262.0°, W
19.0h	 Venus	Magnitude=-4.5mag Best seen from 19.0h -21.3h (h_{max}=27° at 19.0h) (in constellation Libra) RA=14h33m02s Dec=-22°35.8' (J2000) Distance=0.328AU Elongation= 28° Phase k=11% Diameter=50.8"
19.2h	 Jupiter	Magnitude=-2.9mag Best seen from 19.2h - 5.6h (h_{max}=61° at 23.5h) (in constellation Pisces) RA=23h47m37s Dec= -3°04.2' (J2000) Distance=4.005AU Elongation=160° Diameter=49.2"
19.3h		Lunar Crescent visible, 37.3 hours after new moon 3.6% illuminated
19h26m		End civil twilight
19.4h	 Mars	Magnitude= 1.5mag Best seen from 19.4h -21.4h (h_{max}=24° at 19.4h) (in constellation Libra) RA=14h55m39s Dec=-17°06.1' (J2000) Distance=2.281AU Elongation= 31° Phase k=97% Diameter=4.1" planetographic latitude of the Earth=16.0°
19h41m		Sun 9° below horizon
19h56m		Dusk
20h10m		Sun 15° below horizon

20.2h	 Uranus	Magnitude= 5.7mag Best seen from 20.2h - 4.5h ($h_{\max}=59^\circ$ at 23.6h) (in constellation Pisces) RA=23h53m00s Dec= $-1^\circ 36.8'$ (J2000) Distance=19.140AU Elongation= 162° Diameter=3.7"
20.2h	 Deep-Sky Observing	Best time interval for observing dim objects: 20h10m- 5h12m Prior to midnight
20h25m		End astronomical twilight
20h49.1m		Set Azimuth=248.2°, WSW (in constellation Virgo)
21h20.5m	 Venus	Set Azimuth=242.5°, WSW (in constellation Libra)
21h27.0m	 Mars	Set Azimuth=249.2°, WSW (in constellation Libra)
23h30.3m	 Jupiter	Transit Altitude=$+60.7^\circ$ (in constellation Pisces) Elongation=159.9° East, Magnitude=-2.9mag
23h35.8m	 Uranus	Transit Altitude=$+59.2^\circ$ (in constellation Pisces) Elongation=161.8° East, Magnitude=5.7mag

Sunday 10 October 2010

Time	Object (Link)	Event
4h57m		Begin astronomical twilight
5h12m		Sun 15° below horizon
5h27m		Dawn
5h39.6m	 Jupiter	Set Azimuth=266.1°, W (in constellation Pisces)
5h42m		Sun 9° below horizon
5h56m		Begin civil twilight
6h21.1m		Rise Azimuth= 98.2°, E
7h33.4m		Rise Azimuth=113.9°, ESE (in constellation Libra)
12h41.4m		Transit Altitude=$+64.2^\circ$ (in constellation Virgo)
14h13.2m	 Venus	Transit Altitude=$+80.4^\circ$ (in constellation Libra) Elongation=27.3° East, Magnitude=-4.5mag
14h42.5m		Transit Altitude=$+78.6^\circ$ (in constellation Libra) Phase $k=7.9\%$

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