

MARCH POUTŪ-TE-RANGI HIGHLIGHTS

Brightest Stars

At this time of the year, we can see the three brightest stars in the night sky. The brightness of a star, as seen from Earth, is measured as its apparent magnitude. Pictured on the cover is Sirius, the brightest star in our night sky, which is 8.6 light-years away.

With an apparent magnitude of -1.46 , this star can be found in the constellation Canis Major, high in the northern sky. Sirius is actually a binary star system, consisting of Sirius A which is twice the size of the Sun, and a faint white dwarf companion named Sirius B.

Sirius is almost twice as bright as the second brightest star in the night sky, Canopus, from the constellation Carina. Visible all year round, Canopus can be found high in the southern sky this month, with an apparent magnitude of -0.74 .

Despite appearing dimmer than Sirius, Canopus has around eight times the mass of the Sun, with its light taking almost 310 years to reach our planet.

The third brightest star, Alpha Centauri, is also the closest star system to our solar system at 4.37 light-years away. Also known as Rigil Kentaurus, this star has an apparent magnitude of -0.27 , and can be seen at all times of the year in the constellation Centaurus, currently just above the southern horizon.

Conjunction of Saturn and the Moon

A conjunction is when two astronomical objects appear close in the sky as seen from Earth. The planets, along with the Sun and the Moon, appear to travel across our sky roughly following a path called the ecliptic. Each body travels at its own speed, sometimes entering 'retrograde' where they seem to move backwards for a period of time (though the backwards motion is only from our vantage point, and in fact the planets are still orbiting the Sun normally).

Sometimes these celestial bodies will cross paths along the ecliptic line and occupy the same space in our sky, though they are still millions of kilometres away from each other.

On March 19, the Moon and Saturn will be in conjunction. While the unaided eye will only see Saturn as a bright star-like object (Saturn is the eighth brightest object in our night sky), a telescope can offer a spectacular view of the ringed planet close to our Moon. The Moon will be at a 21% illuminated waning crescent and Saturn will be visible to its east.

This conjunction will be best viewed from 2am, when the Moon and Saturn rise, until sunrise.



Image © Ian Griffin

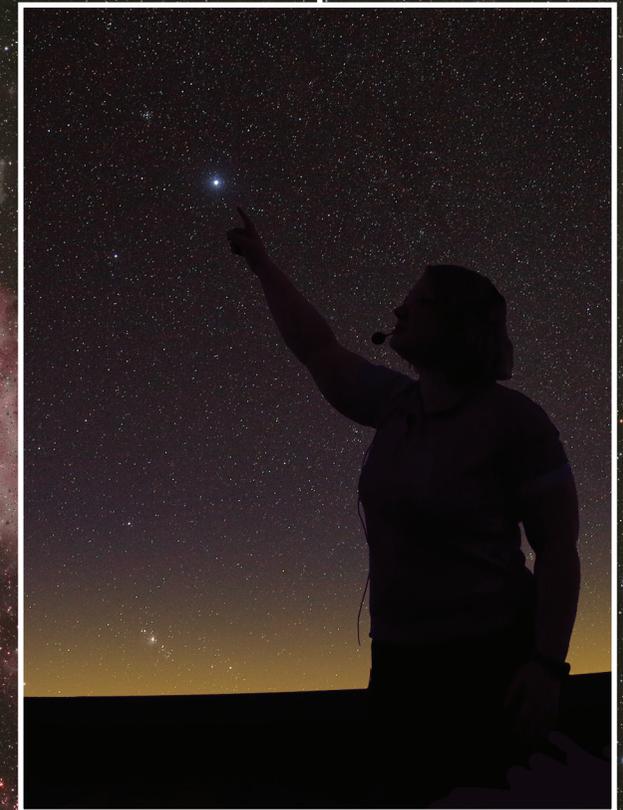
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THE SKY TONIGHT TE ĀHUA O TE RAKI I TĒNEI PŌ



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