FEBRUARY HUI-TANGURU HIGHLIGHTS

Lepus

High in the north-eastern sky this month is the constellation Lepus, whose name is Latin for hare. Unlike many of the 48 constellations named by the second century astronomer Ptolemy, the Lepus is not a figure from Greek mythology. It is sometimes thought to be a hare being chased by the huntsman Orion, a neighbouring constellation, or by his hunting dogs Canis Major and Canis Minor.

Lepus contains only one deep space object, M79, a globular cluster of stars located 42 000 light-years from Earth. This cluster is visible as a fuzzy spot through a pair of binoculars.

To find Lepus, look to the north-east to first find Sirius, the brightest star in the night sky and part of the constellation Canis Major. To the left of Sirius is Lepus, right above the constellation Orion, which will stand out with three bright stars in a row (representing his belt). The brightest star in Lepus is Alpha Leporis, or Arneb, a white supergiant located around 1300 light-years from Earth that marks the shoulder of the hare.



Sunsets

With Valentine's Day taking place this month, many of us may be heading out to enjoy a sunset on the 14th. Sunset occurs when the Sun disappears below the horizon due to the Earth's rotation. The beautiful colours that we see at sunset are a result of the Sun scattering light. When a beam of light hits a molecule in our atmosphere, the light is scattered, sending different wavelengths of light in different directions.

The two main molecules in air are oxygen and nitrogen. As these molecules are very small compared to the wavelengths of sunlight, they preferentially scatter the shortest wavelengths, the blues and purples, giving us blue skies during the day.

However at sunset, the light has to take a longer path through the atmosphere than during the day. This means that most of the blue light has scattered out long before it reaches our eyes, leaving a more reds and oranges for us to see.

Once the Sun has set, it will still be a while before it's dark enough for stargazing. Light from the Sun will still be illuminating the sky until we reach astronomical twilight, which happens around two hours after sunset, when the Sun is 12 to 18 degrees below the horizon. After this point, it will be dark enough to see the stars.

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THE SKY TONIGHT TE ÄHUA O TE RAKI I TĒNEI PŌ



FEBRUARY HUI-TANGURU SKY GUIDE

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