DECEMBER HAKIHEA Highlights

Bright Stars

For anyone new to the joys of star gazing, December heralds a beginner's dream. Some of the night sky's brightest stars will illuminate your experience. Orion, very much a summer constellation in Dunedin, will rise high in our northern night sky accompanied by his hunting dogs – the constellations of Canis Major and Canis Minor. Sirius, the 'dog star' impresses with its luminosity; the brightest star in our night skies, it can be found at the head of Canis Major (greater dog).

For Harry Potter fans out there, you can probably surmise where some of J K Rowling's inspiration came from! Orion itself boasts several highly luminous stars, not least of all the blue supergiant Rigel and the red supergiant Betelgeuse.

Not to be out done, our central and southern skies also contain some of the night sky's brightest stars. The second brightest star – Canopus – proudly rides the bow of the constellation of Carina, while the third brightest – Rigel Kentaurus, ever present in our southern skies – reigns supreme in the constellation of Centaurus.



Image: Orion as depicted in Urania's Mirror, engraved by Sidney Hall.

Sailing in an Ocean of Stars

The constellation of Carina is home to the second brightest star in the night sky, Canopus. This brilliant beacon of light makes finding the constellation a breeze. Canopus has appeared in the mythology of many ancient cultures.

This bright giant gets its modern name from the mythological navigator of King Menelaus of Sparta's ship – some versions of the tale suggest that Canopus was the helmsman or pilot of the ship.

Carina was once part of a much larger constellation known as Argo Navis (the ship Argo) – three modern constellations formed this great ship in the sky, Carina the keel, Puppis the stern, and Vela the sails. In Greek mythology Argo was the ship sailed by Jason and the Argonauts in search of the Golden Fleece. The origins of Argo Navis stem from ancient Greek, in the 1760s Nicolas Louis de Lacaille split the constellation into its modern components.

Carina is home to a diverse variety of deep sky objects, most notably the Carina Nebula (NGC 3372). This vast stellar nursery was discovered in the 1750s by Nicolas Louis de Lacaille, since then this active star-forming region has been well-studied, having had the cameras of the Hubble Space Telescope pointed at it on many occasions. Hubble took images of the nebula in 2010, its 20th anniversary – pictured on the front cover. The constellation lies between Canis Major and Crux (the Southern Cross) in Dunedin's southeastern skies.

Remember a moment in time with a personalised star chart from Otago Museum!

Each chart shows the position of stars, constellations, planets, and the Sun, and the phase of the Moon for the exact time, date, and location of your special event.

Save 10% on your chart by enjoying a show in the Perpetual Guardian Planetarium while you wait!

Place your order at the Museum Shop.

THE SKY TONIGHT TE ĀHUA O TE RAKI I TĒNEI PŌ



DECEMBER HAKIHEA SKY GUIDE



PERPETUAL GUARDIAN PLANETARIUM

