## THE SOUTHERN HEMISPHERE

 With Glenn DawesBright Venus and Jupiter hang out together all month, and we visit two galaxies in Dorado

## When to use this chart

 1 Feb at 00:00 AEDT (13:00 UT) 15 Feb at 23:00 AEDT (12:00 UT) 28 Feb at 22:00 AEDT (11:00 UT)FEBRUARY HIGHLIGHTS
(0) This month, a spectacular naked-ey sight: a conjunction between Venus and Jupiter. Briliant Venus is low in the upper right their distance closing They both outshine any star with the crescent Moon chiming in on the 22 nd just $1^{\circ}$ from Venus - a pretty sight! The following evening they are $12^{\circ}$ apart, forming a line evening they are $12^{\circ}$ apart, forming a line
with Jupiter in the centre. The month concludes with the planets separated by $2^{\circ}$, closing to only $0.5^{\circ}$ on 2 March.

The chart accurately matches the sky on the The sky is different at other times as the stars crossing it set four minutes earlier each night.

STARS AND CONSTELLATIONS (O) Alpha Canis Majoris (Sirius) forms a two other bright alpha stars, Procyon (in These make up the 'Winter Triangle'. The two 'Canis' constellations represent Orion the Hunter's dogs. Although Sirius looks the brightest, that is only because it is 8.5 lightyears away. Red supergiant Betelgeuse is 500 lightyears distant. If matched Sirius's distance, it would glow as bright as a first quarter Moon!

## THE PLANETS

(0) The beacon of Venus can't be missed as it slowly crawls out of the western twilight sky. It is passed by Neptune midmonth ( $0.2^{\circ}$ apart on 15 th) and Jupiter at month's end, as both are swallowed by the twilight glow, heading for conjunction.

## DEEP-SKY OBJECTS



Mars is now well-placed in the early, northern evening sky. With the Red Planet departing around midnight, there is a dearth of planets until Mercury appears in the eastern pre-dawn sky. Its favourable morning apparition ends as February ends.

## Dancer'. There is a prominent 8th

 magnitude star 6 arcminutes northwest.Move a further $2.5^{\circ}$ west to discover . the edge on spiral NGC 1515 (RA 4 h 04.Om, dec. - $54^{4}$ O6 ${ }^{\prime}$ ). In contrast to NGC
1566 , this 1th magnitude galaxy is highly elongated in shape ( $3.5 \times 0.5$ arcminutes) with an even illumination. Very large nstruments (around 254 cm ) show some brightening in the centre.


