## THE SOUTHERN HEMISPHERE

gWith Glenn Dawes
This month, enjoy the crescent Moon meeting a string of planets and explore sights around Vela

## When to use this chart

 1 Feb at 00:00 AEDT (13:00 UT) 15 Feb at 23:00 AEDT (12:00 UT) 29 Feb at 22:00 AEDT (11:00 UT)The chart accurately matches the sky on the
dates and times shown for Sydney Australia. dates and times shown for Sydney, Austrantar
The sky is different at other times as the stars crossing it set four minutes earlier each night.

## STARS AND CONSTELLATIONS

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(0) Look at the northern Milky Way. Many of the bright stars and nebulae are nearby, but some far further away. This
includes the stars of Orion and Taurus, and the Hyades and Pleiades. So why do we the Hyades and Pleiades. So why do we
see a jump for some objects in the same area to over 4,000 lightyears, such as M36 area to over 4, O00 lightyears, such as M36,
M37 and M38 in Auriga? It relates to the spiral structure of our Galaxy. The Sun and spiral structure of our Galaxy. The Sun and
the closer objects belong to the Orion Arm, which share the night sky with these distant members of the Perseus Arm.

## THE PLANETS

(0) Saturn and Neptune are immersed in end. The highlight of the evening is Jupiter, but is soon gone, departing around 23:00 (mid-month). Uranus now sets around 30 minutes after Jupiter. There is then an

## DEEP-SKY OBJECTS

This month, we visit the constellation evening sky is the False Cross asterism. One of its stars, Delta ( $\delta$ ) Velorum, forms a
 cluster IC 2391 (RA 8 hh 40.5 m , dec.- $53^{\circ}{ }^{\circ} 2^{\prime}$ ),,
$2^{2}$ northward. The cluster, named after its dominant (third -magnitude) Luminary, Omicron (o) Velorum, consists of around a dozen bright, hot, blue stars scattered
across a 1 ' circle, sitting on an impres
absence of planets until Venus, Mars and Mercury arrive in the predawn. February begins with Mars and Mercury close. As Mercury drops towards its solar conjunctio at month's end, Mars draws close to Venus, being separated by only $0.6^{\circ}$ on the 23rd.

Milky Way field. Just 6 arcminutes south
of Omicron lies the wide binocular doub of HR3448 and NZ Velorum, mag. +5.5 and 5.2 respectively, 4 arcminutes apart. Only
19 arcminutes east is another impresive 19 arcminutes east is another impressive double star, HY and KT Velorum bein
mag. +4.8 and +5.5 , separated by 1.3 mag. $\cdot 4.8$ and 5.5 .5 separated by 1.3
arcminutes. Small telescopes reveal bo HY and KT are wide doubles and that NZ has a ninth magnitude companion 17
arcseconds to the northeast.

Chart key


