

SKYNOTES

Hermanus

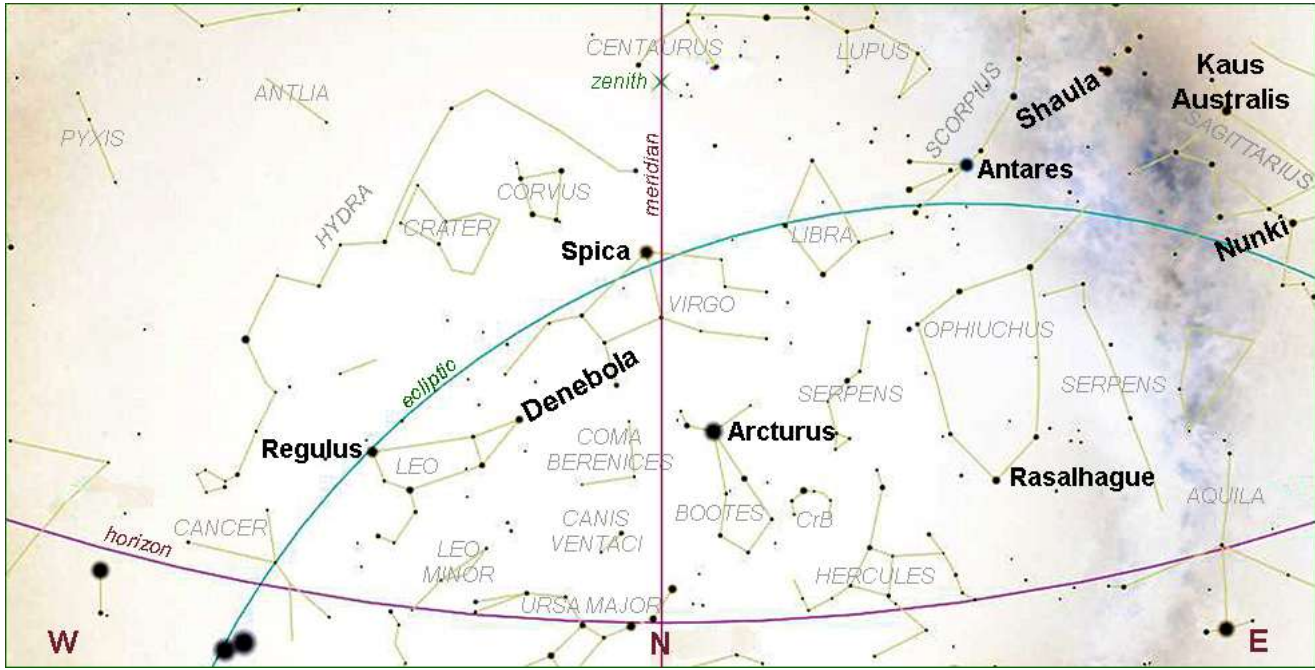
JUNE

2026

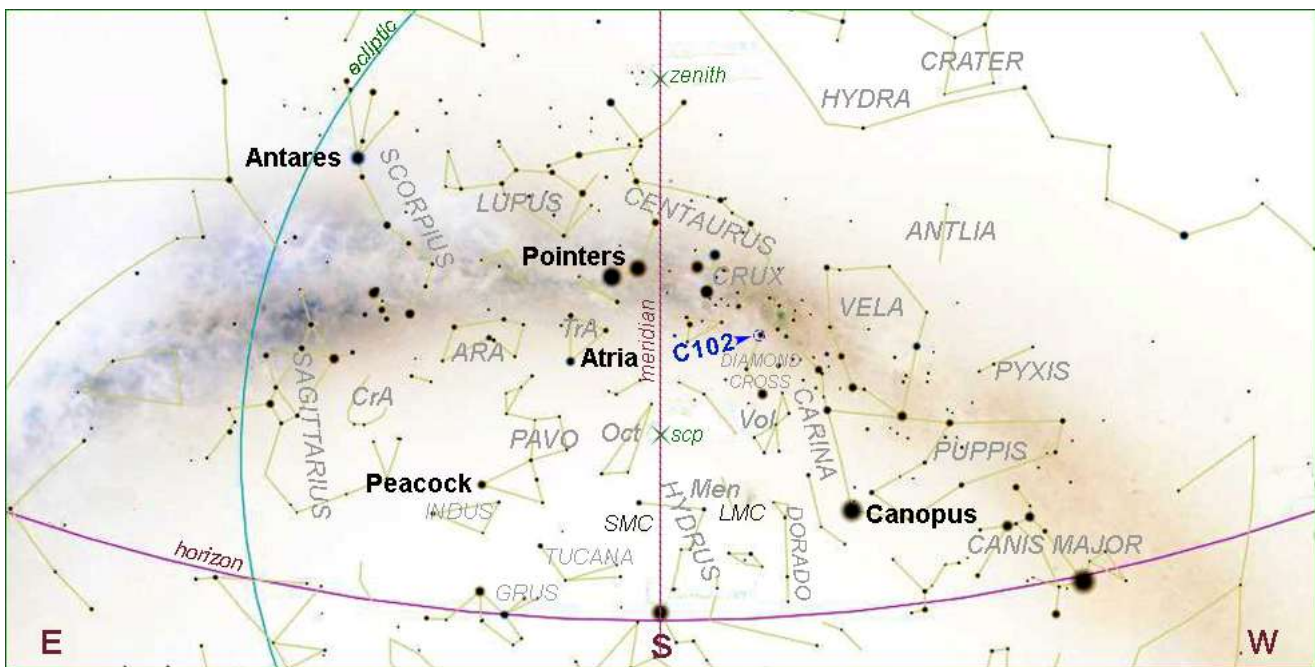
SKY CHARTS



EVENING SKY – JUNE 11th at 21h00 (NORTH DOWN)



EVENING SKY – JUNE 11th at 21h00 (SOUTH DOWN)



SUGGESTED EVENING OBSERVATION WINDOW

(Lunar observations notwithstanding)

<i>Date</i>	<i>Moon</i>	<i>Dusk end</i>
June5 to	Rise 22h08 (78%)	19h09
June18	Set 21h35 (13%)	18h10

THE SOLAR SYSTEM

JUNE HIGHLIGHTS based on the 2026 SKY GUIDE

(PLEASE NOTE: all events are as observed from **HERMANUS**, Western Cape, South Africa)

ALMANAC

<i>Day</i>	<i>Time</i>	<i>Item</i>	<i>Day</i>	<i>Time</i>	<i>Item</i>
2		Moon occults phi Sgr	17-19		Moon near Venus at noon
		Moon occults Nunki (σ Sgr)	18		Moon near the Beehive (M 44)
5		Callisto 7.3' from Jupiter	19		Moon occults Regulus
7		Venus near Pollux			Moon near Venus (occultation)
		Titan 2.7' from Saturn	20		Mercury near NGC 2420
8	12h00	Last Quarter Moon			Venus near the Beehive (M44)
9	18h05	Moon near Neptune	21	23h55	First Quarter Moon
	21h59	Venus near Jupiter	22		Callisto 7.1' from Jupiter
10	09h30	Moon near Saturn	23		Moon near Spica
11-16		<i>12TH FREE STATE STAR PARTY</i>			Titan 2.7' from Saturn
12	20h38	Moon near Mars	25		Mercury near Jupiter
13		Moon near the Pleiades (M 45)	27		Moon occults Antares
	19h31	Moon near Uranus	28		Mars near the Pleiades
14		Callisto 7.1' from Jupiter	30	01h57	Full Moon
		Titan 2.7' from Saturn			Callisto 6.9' from Jupiter
15	04h54	New Moon			Titan 3.2' from Saturn
16	22h12	Moon near Mercury	30		<i>INTERNATIONAL ASTEROID DAY</i>
17	09h41	Moon near Jupiter			
		Moon near Pollux			

THE GALILEAN MOONS – see page 26 of the **Sky Guide 2026** for full details of Galilean moon events.

EPHEMERIS

<i>Day</i>	<i>Time</i>	<i>Item</i>	<i>Day</i>	<i>Time</i>	<i>Item</i>
1	06h32	Moon at apogee (406369 km)	15		Mercury at eastern elongation (24.5°)
	16h59	Moon southernmost ($-27^{\circ}59'$)	19	19h57	Moon at descending node
7	08h19	Moon at ascending node	21	10h25	<i>JUNE SOLSTICE</i>
9		Mercury at dichotomy	28	09h11	Moon at apogee (406 267 km)
15	014h18	Moon at perigee (357 196 km)		22h06	Moon southernmost ($-27^{\circ}59'$)
	05h29	Moon northernmost ($+27^{\circ}59'$)	29	03h58	Mercury stationary

SOLAR SYSTEM VISIBILITY

2026 JUNE 11

Sun	Taurus	Rise:	07h46	Never look at the sun without SUITABLE EYE PROTECTION!
Length of day	09 hours 53 minutes	Transit:	12h43	
		Set:	17h39	
Mercury	Gemini	Rise:	09h36	Low in the west after sunset
Magnitude	+2.0	Transit:	14h28	
Phase	47%	Set:	19h19	
Diameter	7"			
Venus	Gemini	Rise:	10h28	Evening
Magnitude	-4.0	Transit:	15h25	
Phase	76%	Set:	20h22	
Diameter	14"			
Mars	Aries	Rise:	05h09	Morning
Magnitude	+1.3	Transit:	10h25	
Phase	96%	Set:	15h40	
Diameter	4"			
Jupiter	Gemini	Rise:	10h16	Evening
Magnitude	-1.8	Transit:	15h16	
Diameter	32"	Set:	20h17	
Saturn	Pisces	Rise:	02h23	Morning
Magnitude	+0.8	Transit:	08h16	
Diameter	17"	Set:	14h10	
Uranus	Taurus	Rises:	06h24	Low in the east before sunrise
Magnitude	+5.8	Transit:	11h27	
Diameter	3"	Set:	16h29	
Neptune	Pisces	Rise:	01h42	Morning
Magnitude	+7.9	Transit:	07h42	
Diameter	2"	Set:	13h43	
Pluto	Capricornus	Rise:	20h47	All night
Magnitude	+14.5	Transit:	04h00	
		Set:	11h10	

Phases: In a telescope, the inner planets (Mercury, Venus and Mars) appear to us in phases depending on the angle of the Sun's illumination, as does the **Moon**. The observed **angular diameter** is given in arc seconds.

Transit: When an object crosses the **local meridian**, it is said to 'transit'. The local meridian is an imaginary line from the horizon directly north passing overhead through *zenith* to the horizon directly south.

Magnitudes: We are accustomed to hearing the brightness of stars described in terms of 'magnitude'. But, for example, the star Sirius, at magnitude -1.4, is considerably brighter than the star Antares (in Scorpius) at +1.05. The scale is 'inverse'; the brighter the object, the lower the value. A 'good' human eye on a clear night can see a star down to a magnitude of about +6.

THE MOON

Crater ALPHONSUS

the image to right is north down

Location: eastern Mare Nubium, west of the Imbrian Highlands and slightly overlapping the crater Ptolemaeus to the north.

Best seen: **Last quarter** (7th) or at **First quarter** (21st).

Type: ancient impact crater, dating from the pre-Nectarian era*. It is 118 km in diameter with steep decayed walls and a 1.5 km tall pyramidal central mountain. Features on its floor include several craterlets, hills and Rimae Alphonsus. A low ridge system of deposited ejecta bisects the crater floor and includes the steep central peak designated Alphonsus Alpha (α). It is not volcanic in origin but is made of anorthosite like the lunar highlands. The floor is fractured by an elaborate system of rilles and contains four or five smaller craters surrounded by a symmetric darker halo. These dark-halo craters are cinder cone-shaped and are believed by some to be volcanic in origin, although others think they were caused by impacts that excavated darker mare material from underneath the lighter lunar regolith.



Transient lunar phenomena: Alphonsus is one of the sites noted for transient lunar phenomena, as glowing red-hued clouds have been reported emanating from the crater. On October 26, 1956, the lunar astronomer Dinsmore Alter noted some blurring of the rilles on the floor of Alphonsus in the photographs he took in violet light. The same blurring did not occur in the infrared photographs he took at the same time. However, few professional astronomers found this evidence of volcanic activity on the Moon very convincing. One astronomer who was intrigued by Alter's observations was Nikolai Kozyrev from the Soviet Union. In 1958 while Kozyrev was looking for volcanic phenomena on the moon, he observed the formation of a mist-like cloud within Alphonsus. The spectrum of the area had been measured at this time and displayed indications of carbon matter, possibly C₂ gas. He believed this to be the result of volcanic or related activity. However, no evidence for this phenomenon has been found from lunar missions and the emission results have never been confirmed.

Notes: in March 1965, the Ranger 9 probe impacted the crater at 2 670 m/s. With Ptolemaeus and Arzachel, it forms a magnificent trio of craters visible with binoculars.

Naming: Alphonsus is named after King Alfonso X of Castile (known as "Alfonso the Wise") who had an interest in astronomy. Like many of the craters on the Moon's near side, it was given its name by Giovanni Riccioli whose 1651 nomenclature system has become standardized. Riccioli originally named it "Alphonsus Rex" (King Alfonso), but the "Rex" was later dropped. Earlier lunar cartographers had given the feature different names. Michael van Langren's 1645 map calls it "Ludovici XIV, Reg. Fran.", after Louis XIV of France. Johannes Hevelius called it "Mons Masicytus" after a range of mountains in Lycia.

* pre-Nectarian era <https://www.lpi.usra.edu/meetings/lpsc2008/pdf/1019.pdf>

No eclipses, lunar or solar, will be visible from southern Africa this month

COMETS, ASTEROIDS AND METEORS

The link to the latest Comet, Asteroid and Meteor Section from **Tim Cooper**:

<https://assa.sao.ac.za/wp-content/uploads/sites/23/2026/03/ASSA-CAMnotes-2026-Number-2.pdf>

The latest Deep and Shallow Sky Bulletin by the Director, **Colin Steyn**, is now available to download from the webpage

<https://assa.sao.ac.za/publications/deep-sky/>

MEMBERS' IMAGES



DEREK DUCKITT'S SOUTHERN PLEIADES

Imaging telescope / lens Sky-Watcher Apochromatic 120/600 mm

Imaging camera Fujifilm X-T30 (CMOS)

Mount Alt-azimuth tripod Other HEQ5 Pro

Guiding telescope / lens William Optics Refractor 32/120 mm Uniguide Scope

Guiding camera ZWOptical ASI 553 MC PRO (CMOS)

Processed with Fujifilm XT-30, Android App, DeNoise (Topaz Labs), Photoshop 2025PHD

Guiding (Stark Labs) 2

The SOUTHERN PLEIADES Caldwell 102, IC 2602

<i>Description</i>	Open star cluster	Visibility on 2026 June 11		
<i>Constellation</i>	Carina	<i>Rises</i>	<i>Transits</i>	<i>Sets</i>
<i>Distance</i>	479 ly, 147 pc	Does not rise	16h09	Does not set
<i>Magnitude</i>	+1.90			
<i>Apparent size</i>	100 arcmin	<i>Naked Eye</i>	Yes	
<i>Diameter</i>	15.3 ly, 4.7pc	<i>Binoculars</i>	Yes	
<i>J2000 Dec/RA</i>	-64°24'19" / 10h42m58s	<i>Telescope</i>	Yes (wide-field eyepiece)	
<i>Alt/Az (Hermanus)</i>	+37°56'11" / 211°23'23"			

DISCOVERY AND HISTORY

The prominent open cluster **IC 2602** was discovered by abbot Louis de Lacaille in March of 1752, observing from South Africa. This cluster in Carina is often compared with the Pleiades and is commonly known as the "Southern Pleiades". It is also known as the Theta Carinae cluster.

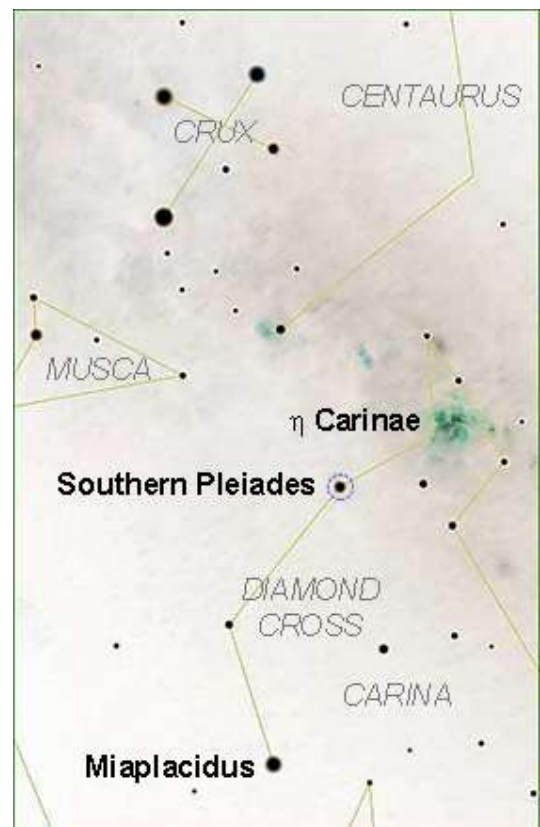
PROPERTIES

The distance of IC 2602 has recently been adjusted using data from the Hipparchos star catalog. The cluster is at a distance of 479 light years (the older value was 489 light years). The cluster is thought to have an age of 50 million years.

OBSERVATION

IC 2602 has an overall magnitude of +1.9 and contains about 75 stars. **θ Carinae** (mag. +2.74) is a third-magnitude star and the brightest within the cluster. The other stars in the cluster are of fifth magnitude and fainter.

Like its northern counterpart in Taurus, the Southern Pleiades spans a sizeable area of sky, approximately 50 arc minutes. It is best viewed with large binoculars or a telescope with a wide-angle eyepiece.



NOTE for those confused by the designations C102 and IC2602:

“C” denotes the **Caldwell catalogue** –

An astronomical catalogue of 109 star clusters, nebulae and galaxies for observation by amateur astronomers. The list was compiled by [Patrick Moore](#) as a complement to the [Messier catalogue](#)

https://en.wikipedia.org/wiki/Caldwell_catalogue

“IC” is the **Index Catalogue** –

Two supplements to John Dreyer’s **New General Catalogue**, published in 1888, include a further 5 386 objects.

https://en.wikipedia.org/wiki/New_General_Catalogue

Jan Ridpath's
STAR TALES

Carina	Genitive:	Carinae
	Abbreviation:	Car
The keel	Size ranking:	34th
	Origin:	Part of the original Greek constellation Argo Navis

The smallest but most prominent of the three parts into which the ancient Greek constellation of [Argo Navis](#), the ship of the Argonauts, was divided by the French astronomer Nicolas Louis de Lacaille in his first catalogue of the southern stars, published in 1756. In that catalogue he gave it the French name Corps du Navire. His final catalogue, *Coelum australe stelliferum*, appeared in 1763 containing the same three subdivisions but with Latin instead of French names. Although usually described as the keel, Carina represents the main body or hull of the ship. The other two parts are [Puppis](#), the poop or stern, and [Vela](#), the sails.

Carina inherited the two brightest stars of the dismantled Argo; they are now labelled **Alpha Carinae** (better known as Canopus) and **Beta Carinae** (Miaplacidus). Canopus, a creamy white giant just over 300 light years away, is in fact the second-brightest star in the entire sky; it marks the blade of one of the ship's two steering oars. Eratosthenes and Ptolemy both spelled the star's name Κάνωβος (Kanobos); Canopus is the Latinized version.

Canopus and other stars

Canopus was not mentioned by Aratus in the *Phaenomena* (c.275 BC), because the star was below the horizon from Greece in his day. The name first appears with his somewhat younger contemporary Eratosthenes who was based further south at Alexandria in northern Egypt. From there he could see Canopus low in the south, as could Ptolemy who worked at Alexandria four centuries later. It was the most southerly star that Ptolemy catalogued in his *Almagest*, and by some way: the next most southerly was the present-day Tau Puppis, over 3° to the north.

Greek writers such as Conon (c.280–c.220 BC) and Strabo (64/63 BC–c.AD 24) tell us that Canopus is named after the helmsman of the Greek King Menelaus. On Menelaus's return from Troy with Helen, his fleet was driven off-course by a storm and landed in Egypt. There Canopus died of a snake bite. Helen killed the snake and she and Menelaus buried Canopus with full honours. On that site grew the city of Canopus (the modern Abu Qir in Alexandria) at the mouth of the Nile. Fittingly, modern space probes now use Canopus as a navigation star. Eratosthenes also knew this star by the name Περίγειος (i.e. Perigeios, or Perigee), in reference to the fact that it remained close to the horizon; this name appeared in Eratosthenes's entry on Eridanus, not Argo.

The Arabs called Canopus Suhail, a name of uncertain meaning. In one story Suhail was said to be the brother of Sirius and Procyon, who were his sisters. Sirius crossed the Milky Way into the southern sky to be with him, while Procyon was left behind on the northern side of the Milky Way, crying and hence dimmer than her southern siblings.

Beta Carinae is called Miaplacidus, but the origin of the name is unknown. The second-magnitude stars Epsilon and Iota Carinae, along with Delta and Kappa Velorum to the north in Vela, form a cruciform shape known as the False Cross, sometimes mistaken for the true Southern Cross. Epsilon Carinae is called Avior, a name [given in or around 1937](#) by the UK's Nautical Almanac Office for use in *The Air Almanac*, a navigation guide produced for the Royal Air Force. The RAF specified that all navigation stars should have proper names so this name was coined for the otherwise unnamed Epsilon Carinae.

Eta Carinae and the Keyhole

The constellation contains a unique star, [Eta Carinae](#), that flared up to become brighter than Canopus in 1843, but has since faded to the edge of naked-eye visibility. Astronomers now think that Eta Carinae is a close pair of hot, very massive stars. They cannot be seen directly because they are embedded in a cloud of gas called

the Homunculus Nebula that was ejected during the great eruption. One or both of the stars will one day explode as a supernova.

Eta Carinae lies in front of a much larger area of glowing gas known as the Eta Carinae nebula or simply the Carina nebula, catalogued as NGC 3372. Silhouetted against the bright background next to Eta Carinae is a bulbous mass of dark gas and dust known as the Keyhole nebula from its distinctive shape. This was from his observations made at the Cape of Good Hope in 1834–38.

Chinese associations

In ancient China, Canopus was known as Laoren, ‘old man’, or sometimes Nanji Laoren, ‘[old man of the south pole](#)’. He was equated with Shouxing, the god of longevity.

Carina also once contained part of a large Chinese constellation called Qifu, a storehouse for musical instruments, the rest of which was in [Centaurus](#) and Vela. However, as the effect of precession gradually carried Qifu below the southern horizon the constellation was repositioned to the north on later star maps, farther into Centaurus and out of Carina entirely.

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Please keep in touch...

Have a look at our excellent website, edited by Derek Duckitt–<https://www.hermanusastronomy.co.za/>

Contact ASSA - Get in touch with officers of the Society - we're real people with a passion for astronomy,so [contact us and let's talk!](#)

<https://www.mnassa.org.za/>

Acknowledgements to the following

2026Sky Guide SouthernAfrica

Colin Steyn

Ian Ridpath

Sky Safari

Stellarium

Tim Cooper

Wikipedia

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