

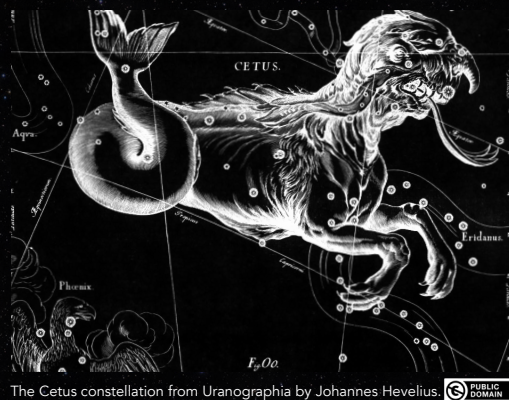
NOVEMBER NOEMA HIGHLIGHTS

Cetus

In Greek mythology, the Cetus constellation represents a terrifying sea monster sent by the sea god Poseidon to attack Ethiopia. Poseidon was angry because Cassiopeia, the queen of Ethiopia, had boasted that her daughter Andromeda was more beautiful than all the sea nymphs.

To placate Poseidon, Cassiopeia and her husband chained their daughter to a rock as a sacrifice to the monster. Just as Andromeda was about to be devoured, the great hero Perseus stumbled upon the scene. Perseus saved Andromeda – some say by using the head of Medusa to turn the monster to stone – and married her.

Cetus was often depicted by the Greeks as a hybrid creature with a scaly body and forefeet, and huge jaws. To find Cetus (highlighted in **green** on the star chart), first look for Aldebaran, the brightest star in Taurus. Travel west from Aldebaran to find the head of Cetus.



The Cetus constellation from Uranographia by Johannes Hevelius. PUBLIC DOMAIN

Aries and Pisces

The Aries constellation represents a flying, golden-fleeced ram. Retrieving the ram's shining fleece was the goal of the Greek hero, Jason, and his companions the Argonauts.

Pisces is said to represent Aphrodite, the goddess of love, and Eros, the god of attraction, who is known as Cupid in Roman mythology. The couple transformed themselves into fish to escape another terrible monster, Typhon, tying themselves together with rope to ensure they would not lose each other.

To find Aries, look for its brightest star Hamal which is one of the more dazzling stars in the night sky. Travel south-west from Hamal to the ecliptic line to find Pisces (Aries and Pisces are highlighted in **light blue** on the star chart). Pisces is part of "the sea" where many water-themed constellations, such as Cetus, Eridanus and Aquarius, can be found.

What's On in November?

Capturing the Cosmos Planetarium show.
12.30pm weekdays, 10.30am weekends

The Sky Tonight Planetarium show.
2.30pm daily, 12.30pm weekends

We Are Aliens! 3D Planetarium show.
1.30pm and 3.30pm daily, 11.30am weekends

THE SKY TONIGHT



NOVEMBER NOEMA SKY GUIDE

PERPETUAL
GUARDIAN
PLANETARIUM

OTAGOmuseum

MOON MARAMA PHASES

Phase

Date

3rd quarter

Thursday 1 November

New moon

Thursday 8 November

1st quarter

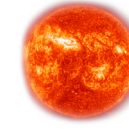
Friday 16 November

Full moon

Friday 23 November



NOVEMBER NOEMA 2018



SUN RĀ RISE / SUNSET

Date

Rise

Set

Thursday 1

6.15AM

8.28PM

Thursday 15

5.57AM

8.48PM

Friday 30

5.44AM

9.08PM

ERIDANUS AND SCP

The Eridanus constellation is known as "the river" and is linked to the story of Phaethon. One day, Phaethon asked his father, the sun god Helios, if he could drive his chariot across the sky. Unable to maintain control of the horses he plunged close to Earth, scorching the plains of Africa. Zeus was so angry with the destruction that he struck Phaethon with a thunderbolt, sending him crashing into the Eridanus River.

Eridanus is most easily found by locating the star Achernar, known as "the mouth of the river". This bright star is the least known spherical star in the Milky Way galaxy. Called a "pumpkin star" it spins so quickly that it bulges out at the equators, giving it an oblate shape.

Achernar can also be used to find the south celestial pole (SCP). This is the point in the southern hemisphere that stars appear to rotate around during the night, and also acts as a good reference point to find south.

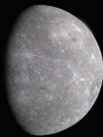
To locate the SCP, first find the Southern Cross by lining up the two southern pointer stars (look for Rigel Kentaurus on the star chart), then place your right hand on the star Gacrux. Next, put your left hand on Achernar and clap your hands together. Where they meet in the middle is the SCP. (All constellations in this section are highlighted in **dark blue** on the star chart)

PLANETS WHETŪ AO

Mercury

Whiro

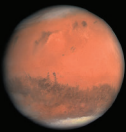
Early November before 10.38pm
Mid November before 10.43am
Late November not visible
On Scorpius-Ophiuchus border



Mars

Matawhero

Early November before 3.47am
Mid November before 3.08am
Late November before 2.27am
In Aquarius



Jupiter

Hine-i-tiweka

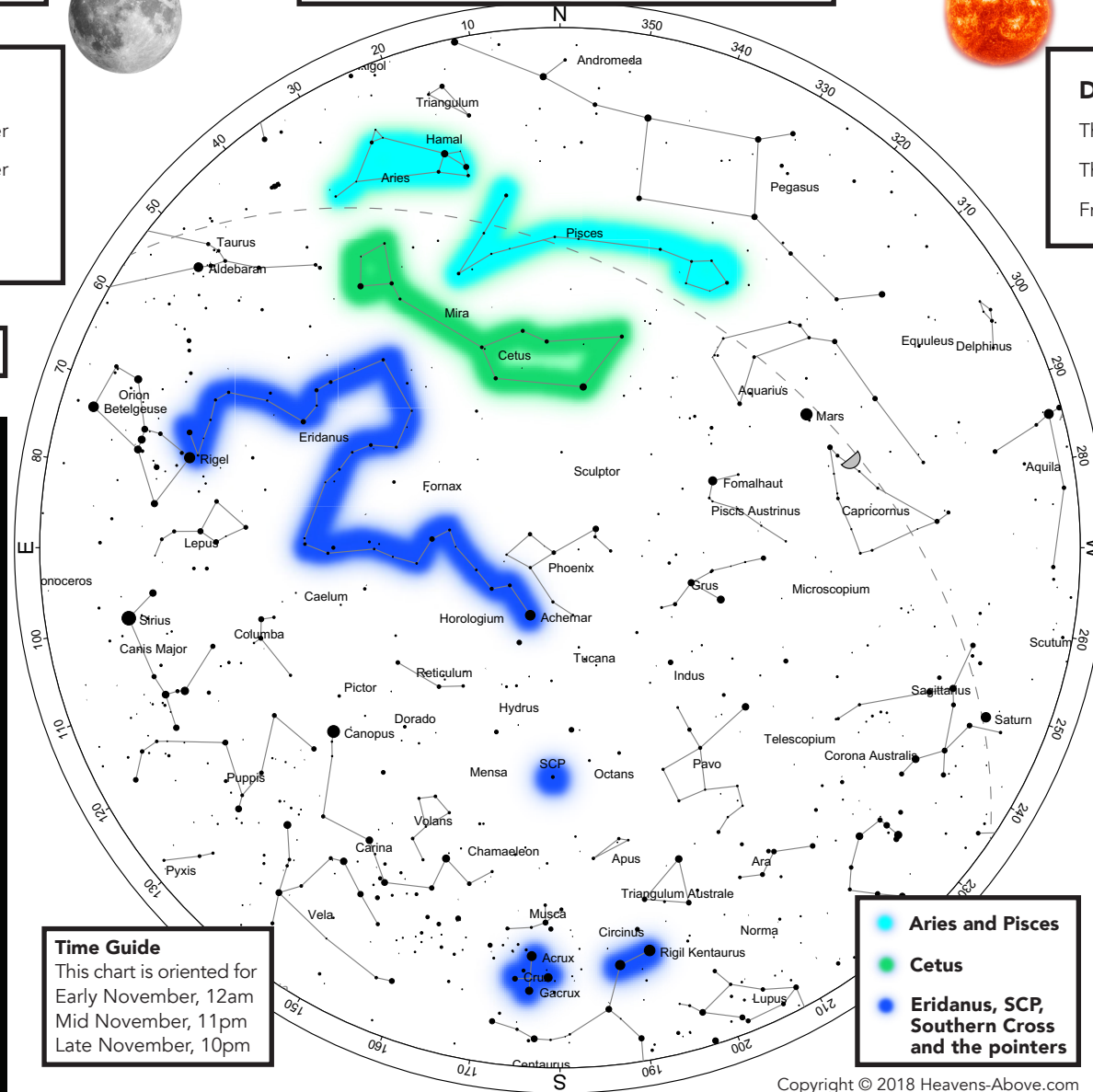
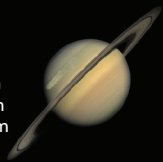
Early November before 10.08pm
Mid November before 10.08pm
Late November not visible
On Libra-Scorpius border



Saturn

Pareārau

Early November before 1.03am
Mid November before 12.13am
Late November before 11.20pm
In Sagittarius



Time Guide

This chart is oriented for
Early November, 12am
Mid November, 11pm
Late November, 10pm

How to use this chart: Hold the chart up to the sky and rotate it, so the direction you are looking matches the direction printed on the bottom. For example, if you are looking south, place "S" at the lower edge. Stars rise in the east and set in the west like the sun. As the Earth turns, the sky appears to rotate clockwise around the south celestial pole. The sky makes a small shift to the west every night, as the Earth rotates around the sun.

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