CHARLOTTESVILLE, SUNDAY, MAY 5 2024 VDL I... No 1. ONE DOLLAR



## **Greek Mythos:** Orion v. Scorpius

In Greek mythology, Orion was recognized as a skilled and gigantic huntsman who desired to kill all animals on the planet. The goddess of Earth, Gaia, heard this and became upset at the hunter. With this, the goddess ordered a scorpion to go after Orion. The hunter was severed by the scorpion. Their rivalry never ended, even as they were put in the sky as constellations. While Orion rises in the winter, Scorpius becomes more prominent in the summer. These two constellations never meet in the night sky.

#### WORD SEARCH

BASFNUTZH UPSSNVEMS VEPOTNXNFT DRSEREITAA EESTRIRHOR ADHNMGOIIE NPNZGHINSM NFFCECRARM WMCWUOKRNZ ZUGBRIGHTT

> SUPERGIANT, ASTERISM, ORION, WEST BRIGHT, TENTH, STAR, RED

## **Betelgeuse Fan Mail**

#### from: Betelgeuse Fan 3000

Her brightness beams throughout the night sky Attracting naked eyes to her beauty

She is a ray of sunshine that shines brighter than the sun She is red, but noy any type of red

The bright red that mimics the color of freshly picked cherries She says her name is Beteloeuse

I have never heard of such a name

Something is distinct about her

Maybe it's her large demeanor

Or her old age

Betelgeuse oh Betelgeuse you are such a sight to see Oh Betelgeuse oh Betelgeuse

Send further fan mail to Betelgeusefanclub@gmail.com or send it to the "right shoulder" in the constellation Orion

#### **BRAND NEW TELESCOPE FOR SALE**



Per the seller: Selling a brand new UltraHubble extramacro SP17 deep

astrophotograpy telescope. This telescope is perfect for viewing and photographing deep space objects with short exposure times. Ideal objects to view include M83, Bode's Galaxy, and Andromeda. Other great objects to view with this telescope include extra bright stars such as Sirius, Rigel, and Betelgeuse.

Selling for: \$12,000 USD.

Inquiries: +9990728391287 or StarMan@gmail.com

# SUPERNOVA FALSE ALARM?

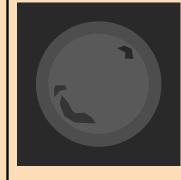
The famous bright red star we all know and love, Betelgeuse, in December of 2019, out of nowhere suddenly dimmed to about a third of what was happening to Betelgeuse. its usual brightness. This was completely appreciated. Betelgeuse is currently at about 36% of its normal brightness, a change noticeable them to see the details on its sureven to the naked eye, The European Southern Observatory (ESO) has 2020, as the star returned to its noted. Their fans, scientists, started normal brightness. to call this the great dimming, that's why we have seen the hashtag #greatdimming blowing up on "Astronomy Twitter." Some sources have begun to speculate that the dimming was a potential sign that the star was beginning to die, collapsing and losing energy—a process that would eventually end in a giant supernova explosion.

Within just a matter of months, Betelgeuse quietly returned to its nor- Even though Betelgeuse is not going mal brightness, leaving its fans, and supernova, its dimming still offered astronomers, completely perplexed. an important display of a critical Now, almost two years after the ini- cosmic process. tial dimming, numerous studies have been recently published in Nature proposing a theory for Betelgeuse's Great Dimming.

As it would turn out, the dimming of the star was just a veil of dust shrouding the star. To figure out its fans, scientists and researchers, monitored the star's dimming with telescopes on Earth, which allowed face. They kept at it through April

At the end of their observations, the scientists concluded that the star had simply belched out a large bubble of gas. Shortly afterwards, a patch of its surface cooled down enough to condense some of that gas into dust. The cloud of dust lingered for months, blocking Betelgeuse's light and making it appear darker and darker from Farth

## LATEST PAPPARAZI PHOTOS







Reports have come out stating that Betelgeuse will only be allowing paparazzi photos from photographers in the northern hemisphere for the Winter, specifically in the east after the sunset during the early days in January. Insiders have told us that's when Betelgeuse is most bright and luxurious to view. During the months on either side of this period, namely mid-September through mid-March, Betelgeuse is visible to virtually everyone, all around the glove. Betelgeuse accepts photos from everyone at this time. This request is very important to Betelgeuse as to not tarnish their reputation by being photographed in sub-optimal conditions.

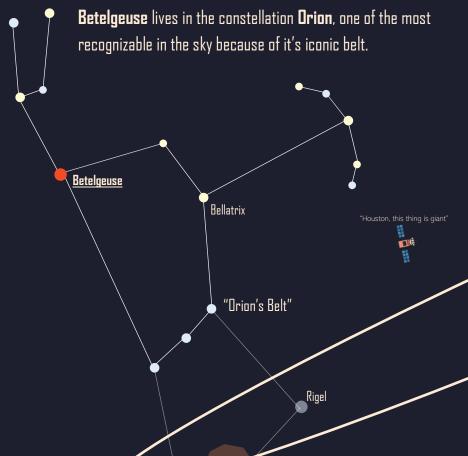
BETELGEUSE

Betelgeuse's Numbers (Nerdy Stuff)

Mass: ~18 Ms Luminosity: ~65,000 Ls Surf. Temp: ~3,700 K Abs. Magnitude: -5.85 My Spectral Class: **M2lab** 

R.A: **0.5<sup>h</sup>55<sup>m</sup>10.3<sup>s</sup>** Declination: +07°24'24.4303'

THE STAR 700 TIMES THE SIZE OF OURS



Betelgeuse has no planets :-



Betelgeuse is about **650 light-years** from us. This is so far away, that if Betelgeuse were to disappear, we wouldn't stop seeing it's light until around 650 years from now!

Speaking of disappearing, Betelgeuse is a red supergiant nearing the end of it's life. This means that Betelgeuse will actually disappear "soon" in a violent explosion called a Supernova. ("soon" still means several thousand years)

As a red supergiant, Betelgeuse has exhausted its main-sequence **hydrogen** supply and is now burning helium in its core. A helium-burning core causes Betelgeuse's core to be much hotter and produce more energy, causing it to expand into the giant that we see in the night sky. Just because Betelgeuse is so giant doesn't mean its hotter nor heavier than a normal (main-sequence) star like our sun. Betelgeuse is so big, that you could fit roughly 700 million suns inside of it, but it only weighs at most around **20 suns**. Betelgeuse's surface is also **colder** than our sun's by about 2000° Kelvin!



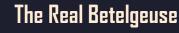




Betelgeuse has a diameter roughly equal to that of

The name "Betelgeuse" sounds silly, but it was actually a misspelling of the Arab name for the star: *Yad al-Jauza* meaning

"hand of al-Jauza" (Orion). Europeans misspelled it as Bat al-Jauza, which translates to "armpit of al-Jauza." The name stuck and eventually began being spelled and said the way we do it today.



This real photo of Betelgeuse was taken and colorized using the RRRT observatory operated out of UNC in Chapel Hill.



