SKYWATCHER NEWSLETTER



LATEST NEWS

The countdown is on to Totality in the Americas! This eclipse in particular has distracted my attention for the past 2 years with planning. The question of which cameras to bring, lenses, how to operate the cameras without intervention and capture the scene... reading books, watching tutorial videos and asking advice from veteran eclipse chasers has been fun and enlightening! The online tools now available for simulators, weather statistics and probabilities as well as scouting locations with google maps and The Photographers Ephemeris has been invaluable.

The bottom line is that the weather will be what it will be, we can only prepare and wait with optimism. Hopefully by the next newsletter I'll be able to share images of success but if not, I can guarantee that there will be millions more people in the world who have looked up at the wonders of our solar system. Perhaps for the first time on the 8 April 2024!

Until next month... SLK

Left: Predicted coronal image for my selected viewing location. Fingers crossed!



Constant Companions: Circumpolar Constellations, Part II

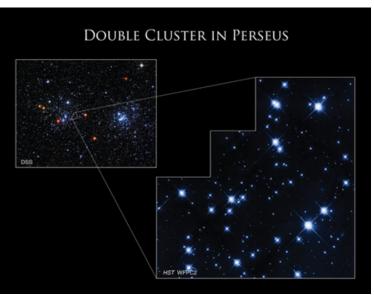
By: Kat Troche

As the seasons shift from Winter to Spring, heralding in the promise of warmer weather here in the northern hemisphere, our circumpolar constellations remain the same. Depending on your latitude, you will be able to see up to nine circumpolar constellations. This month, we'll focus on: Lynx, Camelopardalis, and Perseus. The objects within these constellations can all be spotted with a pair of binoculars or a small to medium-sized telescope. depending on your Bortle scale - the darkness of your night skies.

Double Stars: The area that comprises the constellation Lynx is famous for its multiple star systems, all of which can be separated with a telescope under dark skies. Some of the notable stars in Lynx are the following:

- o 12 Lyncis a triple star that can be resolved with a medium-sized telescope.
- o 10 Ursae Majoris a double star that was once a part of Ursa Major.
- o 38 Lyncis a double star that is described as blue-white and lilac.

·Kemble's Cascade: This <u>asterism</u> located in Camelopardalis, has over 20 stars, ranging in visible magnitude (brightness) and temperature. The stars give the appearance of flowing in a straight line leading to the Jolly Roger Cluster (NGC 1502). On the opposite side of this constellation, you find the asterism Kemble's Kite. All three objects can be spotted with a pair of binoculars or a telescope and require moderate dark skies.



A ground-based image from the Digitized Sky Survey (DSS) in the upper left shows Caldwell 14, the Double Cluster in Perseus, with an outline of the region imaged by Hubble's Wide Field and Planetary Camera 2 (WFPC2). Ground-based image: Digitized Sky Survey (DSS); Hubble image: NASA, ESA, and S. Casertano (Space Telescope Science Institute); Processing: Gladys Kober (NASA/Catholic University of America)

.A ground-based image from the Digitized Sky Survey (DSS) in the upper left shows Caldwell 14, the Double Cluster in Perseus, with an outline of the region imaged by Hubble's Wide Field and Planetary Camera 2 (WFPC2).

·Double Cluster: The constellation Perseus contains the beautiful Double Cluster, two open star clusters (NGC 869 and 884) approximately 7,500 light-years from Earth. This object can be spotted with a small telescope or binoculars and is photographed by amateur and professional photographers alike. It can even be seen with the naked eye in very dark skies. Also in Perseus lies Algol, the Demon Star. Algol is a triple-star system that contains an eclipsing binary, meaning two of its three stars constantly orbit each other. Because of this orbit, you can watch the brightness dim every two days, 20 hours, 49 minutes – for 10-hour periods at a time. For a visual representation of this, revisit NASA's What's Up: November 2019.

LOCAL EVENTS

April 2 - WAS - Professor Dame Jocelyn Bell Burnell – "What is that?!" The Discovery of Pulsars: A Grad Student's Story

April 17 - FA Regular Meeting April 17 - CADAS - TBC

May 7 - WAS - Bud Martin – The Life and Times of Galileo

May 15 - FA - Regular Meeting May 15 - CADAS - Ask the Panel

June 4 - WAS - Kate Earl – The 88 Constellations June 17 - CADAS - Terry Evans The Mexico Eclipse 2024

July 2 - WAS -

Robert Harvey – Stumbling Around in the Dark – 2 hour Astrophoto Session

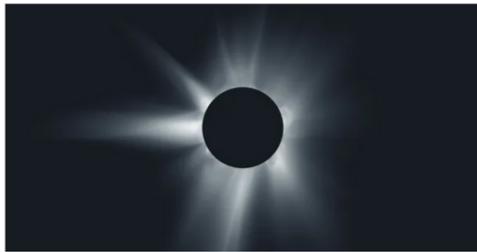
VISIT OUR WEBSITE FOR THE LATEST CLUB INFORMATION

WEYMOUTH ASTRONOMY

SKYWATCHER NEWSLETTER



8 April 2024 - The countdown to the 'Great American Eclipse' is underway with only 12 days to go as I write this.... A lot of planning and practicing with cameras in the background to try and get at least a decent eclipse image, weather permitting. There are some superb resources online to find out more about this eclipse as well as simulation tools and many sources allowing observers to watch from the comfort of their own home if they can't travel to the event or get clouded out. Several of the resources I have found very useful are included here for your perusal. Hope to have more stories to tell about the eclipse soon! Until then....SLK



PSI | Total Solar Eclipse | 2024

predsci.com



Total Solar Eclipse 2024 US

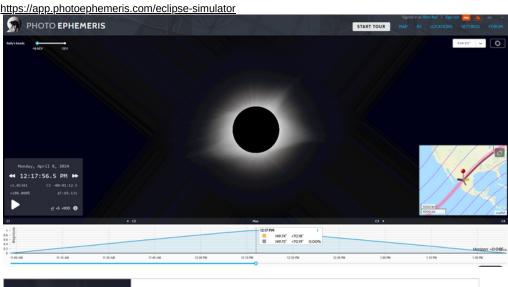
The April 8 2024 total solar eclipse spanning Mexico, the United States, and Canada. Total solar eclipse in the US. See the 2024 eclipse path, eclipse times,...

Great American Eclipse



Welcome! You are invited to join a webinar: The 2024 Great American Solar Eclipse!....

Zoor

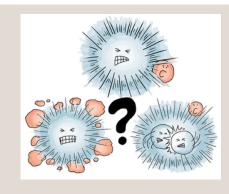




Total Solar Eclipse April 8, 2024

Eclipsophile.com presents climate studies of cloud cover and weather along the tracks of upcoming...

Eclipsophile /



WAC Upcoming Events

APRIL 12 -KEVIN QUINN: TBA (IN-PERSON ONLY)

MAY 10 - AGM FOLLOWED BY MARK RADICE: TBA (IN-PERSON ONLY)

JUNE 14 - STEVE TONKIN: ASTRONOMY THE BEGINNINGS: CHARLATANS AND FRAUDS (IN-PERSON AND ZOOM)



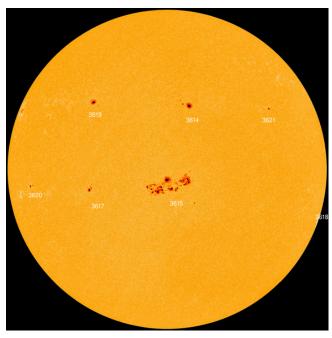
Continued from page 1:

In the appearance of left to right: constellations Perseus, Camelopardalis, and Lynx in the night sky. Also featured: Cassiopeia as a guide constellation, and various guide stars.

Credit: Stellarium Web







Member Images

A super sunspot photo taken by Ennio on 24 March. The image shows the amazing structure visible in whit light of Active Region 3615.

Above: Taken by Ennio with a 70mm refractor and planetary camera. This is a single from a 10s video.

Left: SDO image from 24 March showing the sunspots visible in the photosphere.

WEYMOUTH ASTRONOMY

Skymaps.com—Feel free to download the full article directly each month.

