

June 2021 Newsletter Editor — John Wingard — jwin1048@gmail.com

Moon Phases

June 17 — First Quarter June 24 — Full Moon July 1 — Last Quarter July 9 — New Moon July 17 — First Quarter July 23 — Full Moon July 31 — Last Quarter August 8 — New Moon

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News and events

We hope that everyone is doing well and hopefully getting back to normal in most of your daily activities. We have some good news to report this month. After over a year of no real club activities, we are excited to announce our first stargaze of 2021. We have planned an event at the Central Alabama Community College (CACC) in Alexander City, AL for Friday, July 16, 2021. This is being held as part of the International "On the Moon Again" weekend to mark the 52nd anniversary of the Apollo 11 mission to the moon. The plans are to set up our telescopes in the infield of the school's track. Details regarding the event are still being worked out, but here is what we know so far. We are also working on some possible activities in addition to the observing. Since this event will take place before our next newsletter, further details will be sent in an e-mail distribution to the members. We hope to have a good showing of AAS members for the event.

CACC-AAS Stargazing Program for the Public

- Location: CACC, 1875 Cherokee Road, Alexander City, AL
- Date & Time: Friday, July 16, 2021 (8:00—10:00 PM CT (Time is approximate)
- The program will be held in conjunction with the international "On the Moon Again" weekend to mark the Apollo 11 anniversary.
- Observing location: Track on Jr. College Circle on hill behind the college.
 Photos of the track and general location are on the following page.
- Club members with telescopes will be able to park in the lot adjacent to the track for easier unloading of equipment.
- Club members can contact Mike Lewis with any questions at his e-mail lewis327@verizon.net or (703-314-9566).









This article is distributed by NASA Night Sky Network

The Night Sky Network program supports astronomy clubs across the USA dedicated to astronomy outreach. Visit nightsky.jpl.nasa.gov to find local clubs, events, and more!

Observe the Milky Way and Great Rift

David Prosper

Summer skies bring glorious views of our own Milky Way galaxy to observers blessed with dark skies. For many city dwellers, their first sight of the Milky Way comes during trips to rural areas - so if you are traveling away from city lights, do yourself a favor and look up!

To observe the Milky Way, you need clear, dark skies, and enough time to adapt your eyes to the dark. Photos of the Milky Way are breathtaking, but they usually show far more detail and color than the human eye can see – that's the beauty and quietly deceptive nature of long exposure photography. For Northern Hemisphere observers, the most prominent portion of the Milky Way rises in the southeast as marked by the constellations Scorpius and Sagittarius. Take note that, even in dark skies, the Milky Way isn't easily visible until it rises a bit above the horizon and the thick, turbulent air which obscures the view. The Milky Way is huge, but is also rather faint, and our eyes need time to truly adjust to the dark and see it in any detail. Try not to check your phone while you wait, as its light will reset your night vision. It's best to attempt to view the Milky Way when the Moon is at a new or crescent phase; you don't want the Moon's brilliant light washing out any potential views, especially since a full Moon is up all night.

Keeping your eyes dark adapted is especially important if you want to not only see the haze of the Milky Way, but also the dark lane cutting into that haze, stretching from the Summer Triangle to Sagittarius. This dark detail is known as the Great Rift, and is seen more readily in very dark skies, especially dark, dry skies found in high desert regions. What exactly is the Great Rift? You are looking at massive clouds of galactic dust lying between Earth and the interior of the Milky Way. Other "dark nebulae" of cosmic clouds pepper the Milky Way, including the famed Coalsack, found in the Southern Hemisphere constellation of Crux. Many cultures celebrate these dark clouds in their traditional stories along with the constellations and Milky Way.

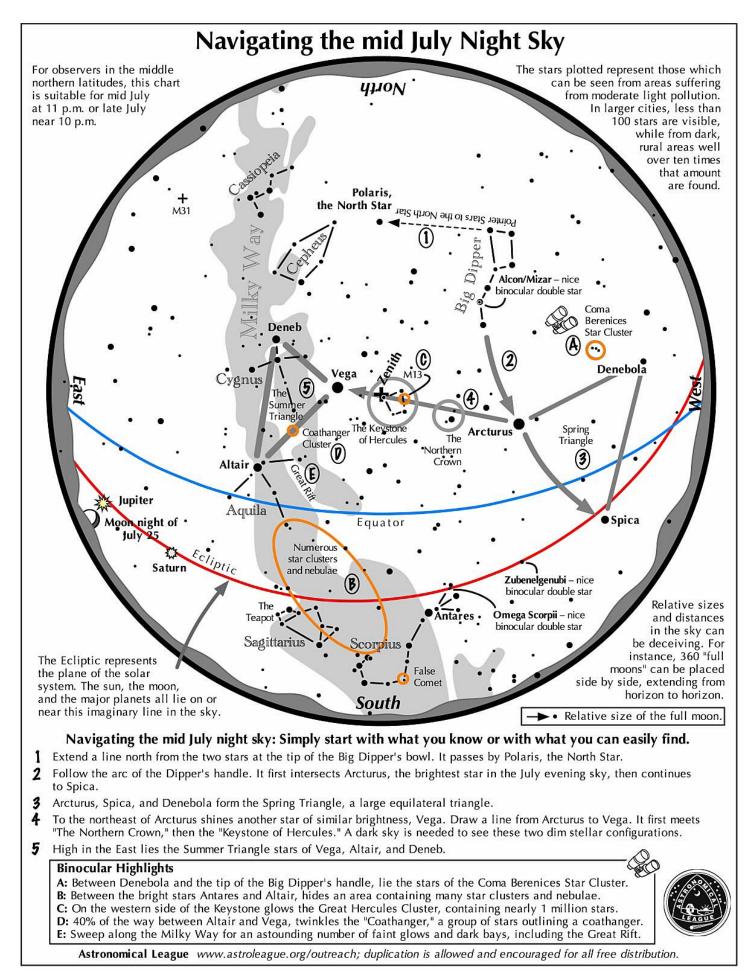
Where exactly is our solar system within the Milky Way? Is there a way to get a sense of scale? The "Our Place in Our Galaxy" activity can help you do just that, with only birdseed, a coin, and your imagination: bit.ly/ galaxyplace. You can also discover the amazing science NASA is doing to understand our galaxy – and our place in it - at <u>nasa.gov</u>.



The Great Rift is shown in more detail in this photo of a portion of the Milky Way along with the bright stars of the Summer Triangle. You can see why it is also called the "Dark Rift." Credit: NASA / A.Fujii



If the Milky Way was shrunk down to the size of North America, our entire Solar System would be about the size of a quarter. At that scale, the North Star, Polaris - which is about 433 light years distant from us - would be 11 miles away! Find more ways to visualize these immense sizes with the Our Place in Our Galaxy activity: bit.ly/galaxyplace





Auburn Astronomical Society Membership Application Form

Name:	
Address:	
City:	State: Zip:
Phone:	Date of Application*//
E-mail:	
Telescope(s):	
Area(s) of special interest:	5

Enclose: \$20.00 for regular membership, payable in January. *Full-Time* student membership is half the Regular rate.

If you are a NEW member joining after the first of the year, refer to the prorated table below

Jan Feb			Mar	Apr		May	Jun
\$20.00 \$18.33			\$16.66	\$14.99		\$13.33	\$11.66
Jul \$10.00	Aug	\$8.33	Sep \$6.66	Oct	\$4.99	Nov \$2.33	Dec \$1.66

Make checks payable to: Auburn Astronomical Society and return this application to:

Auburn Astronomical Society c/o John Wingard, Secretary/Treasurer #5 Wexton Court Columbus, GA 31907

For questions about your dues or membership status, contact: jwin1048@gmail.com

Thank you for supporting the Auburn Astronomical Society!