



Monthly Notices of the Everglades Astronomical Society



Naples, FL
June 2019

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President's Message

Dr. Buzasi from the Florida Gulf Coast University, once again, did not disappoint. His update on TESS was extremely interesting. I suggest whether you were there or not that you follow the progress of this project.

Dennis Albright will be presenting at the June meeting. I'm sure Dennis will bring his sense of whimsy to the talk. The topic is "Life Elsewhere".

By the time you get this newsletter, the Collier County Library Summer Reading Program will have started. Most of the dates have been booked, but there are still a few left. If you are around this summer and would like to give a presentation, let me know and I'll see if their schedule and your schedule coincide.

This is just a reminder that the Astronomical League annual conference is coming up in Florida (and the cruise). You can get more information at the web site. I think it should be a lot of fun mixed in with some League business.

Our July and August meeting place, The Second Cup, has closed. Mike and Susan Usher graciously agreed to host the July and August meetings at their home. If you would like to attend either meeting, please email Mike and he will provide the address.

Denise

Dates for Observing

Usually the best times to observe are moonless nights. Below is a list of upcoming Saturday nights that you will likely find fellow club members out there enjoying the skies with you (weather permitting). We will let you know the new location.

Date	Moonrise	Moonset
June 29	3:56 a.m.	5:24 p.m.
July 6	9:53 a.m.	6:41 p.m.

Sky Events

- June 3 - New Moon
- June 4 - Jupiter Transit (Ganymede)
- June 9 - First Quarter
- June 11 - Jupiter Transit (Ganymede & Io)
- June 14 - Jupiter Transit (Europa)
- June 17 - Full Moon
- June 25 - Last Quarter

Next Meeting

June 11, 2019: Time 7:00 – 9:00 pm
Norris Center, Naples

The Fak By Jackie Richards

As you already know from Mike Usher's emails, due to the installation of street lights on Exit 80 off I75 right near the Fak, we are looking for a new dark site location. This beautiful image of the summer Milky Way by Maryanne Simmons may be the last photo taken at that location. We will keep you posted as to where we will observe from in the future.



The summer Milky Way by Maryanne Simmons at the Fak on 5/25/19.

PHOTOS BY EAS MEMBERS



The Fak 5/25/19: Left to right: Victor Farris, Maryanne Simmons, Ed Jaekle, Robyn Prichard, Suzie Lehman, Mike Usher, Ed Lehman, Andrew Lewis, Glen Kowack and Andy Gustafson.



The Fak 5/25/19: Left to right: Victor Farris, , Robyn Prichard, Maryanne Simmons, Ed Jaekle, Jackie Richards, Suzie Lehman, Mike Usher, Ed Lehman, Andrew Lewis and Andy Gustafson.



Lagoon Nebula by Rick and Lori Piper in Rodeo, NM.



Trifid Nebula by Rick Piper in Rodeo, NM. May 2019.



M106 (and other galaxies) by Chuck Pavlick in Rodeo, NM.



Solar prominence by Chuck Pavlick in Cape Coral.



Andromeda Galaxy by Rick and Lori Piper in Rodeo, NM on 6/5/19.



Jupiter by Chuck Pavlick on 6/3/19 in Cape Coral.



The summer Milky Way in by Rick and Lori Piper in Rodeo, NM.

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NASA Night Sky Notes

Jupiter Shines in June
By David Prosper

Jupiter stakes its claim as the king of the planets in June, shining bright all night. **Saturn** trails behind Jupiter, and the **Moon** passes by both planets mid-month. **Mercury** puts on its best evening appearance in 2019 late in the month, outshining nearby **Mars** at sunset.

Jupiter is visible almost the entire evening this month. Earth will be between Jupiter and the Sun on June 10, meaning Jupiter is at **opposition**. On that date, Jupiter rises in the east as the Sun sets in the west, remaining visible the entire night. Jupiter will be one of the brightest objects in the night sky, shining at magnitude -2.6. Its four largest moons and cloud bands are easily spotted with even a small telescope.

What if your sky is cloudy or you don't have a telescope? See far more of Jupiter than we can observe from Earth with NASA's **Juno** mission! Juno has been orbiting Jupiter since 2016, swooping mere thousands of miles above its cloud tops in its extremely elliptical polar orbits, which take the probe over 5 million miles away at its furthest point! These extreme orbits minimize Juno's exposure to Jupiter's powerful radiation as it studies the gas giant's internal structure, especially its intense magnetic fields. Juno's hardy JunoCam instrument takes incredible photos of Jupiter's raging storms during its flybys. All of the images are available to the public, and citizen scientists are doing amazing things with them. You can too! Find out more at bit.ly/JunoCam

Saturn rises about two hours after Jupiter and is visible before midnight. The ringed planet rises earlier each evening as its own opposition approaches in July. The **Moon** appears near both gas giants mid-month. The Moon's tour begins on June 16 as it approaches Jupiter, and its visit ends on June 19 after swinging past Saturn.

Mercury is back in evening skies and will be highest after sunset on June 23, just two days after the summer solstice! Spot it low in the western horizon, close to the much dimmer and redder **Mars**. This is your best chance this year to spot Mercury in the evening, and nearly your last chance to see Mars, too! The two smallest planets of our solar system pass close to each other the evenings of June 17-18, coming within just ¼ degree, or half the width of a full Moon, making for a potentially great landscape photo at twilight.

Discover more about NASA's current and future missions at nasa.gov

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

EAS 2019 DUES

For the bargain price of only \$20.00 per family, all this can be yours this year:

- Meet with your fellow astronomy enthusiasts at least 10 times a year;
- Learn about astronomy and telescopes. Check out our club scope;
- Many opportunities to view planets, nebulae and other celestial objects (even if you don't have your own telescope); and
- Enjoy the many astronomy programs at our regular monthly meetings.

Don't miss out! Fill out this form (please print clearly) and send it with your \$20 check to the Everglades Astronomical Society, P. O. Box 1451, Marco Island, Florida, 34146.

Name: _____

Address: _____

Phone: _____

Email: _____

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