

The Objective Lens

University Lowbrow Astronomers Monthly Newsletter Supplement

November 2022

Long-duration astronomical, artsy, and “misfit” photos, etc.



From **MARCUS CLARKE**. Moon in Crosshairs.



From **DOUG SCOBEL**: I captured this image while photographing the Perseid meteor shower in 2021. "Great meteor!" you might say. Wrong! It's an artificial satellite. It's really too bright to be a meteor, but more importantly there's a sharp cutoff where it starts and stops. Which means it was there when the camera's shutter opened and it was still there when it closed. It was a fifteen second exposure, so that would make it the slowest meteor ever! There's a second, much fainter streak near the top of the image, but I believe that to be from a satellite as well. There are a couple other even fainter streaks (also not Perseids) in the image elsewhere, but I'm not sure they're visible in this version of the image.



From **NATHAN MURPHY**. From the OTSP.



NGC 7479 exposure with Chinese space junk (booster) and Starlink - a 2 for 1!



NGC185 exposure with Airplane.



C 12 - Collision! (prior to adding pier extension to the mount. No harm done).



From **JEFF KOPMANIS**.
Solar prominence that
looks a bit like an eagle
emblem



From **JEFF KOPMANIS**. McMATH Telescope in relief, July 29, 2022.



From **AMY CANTU**. A star trail photo ... photobombed by airplanes, a telephone wire, the path of a firefly lower right, and headlights. I was on the side of a highway, so I used the passing cars to light up the foreground and the window in the cabin.



From **NATHAN MURPHY**. Star Trail from Okie-Tex



From **MATTHEW WEST**. Moon Shots.



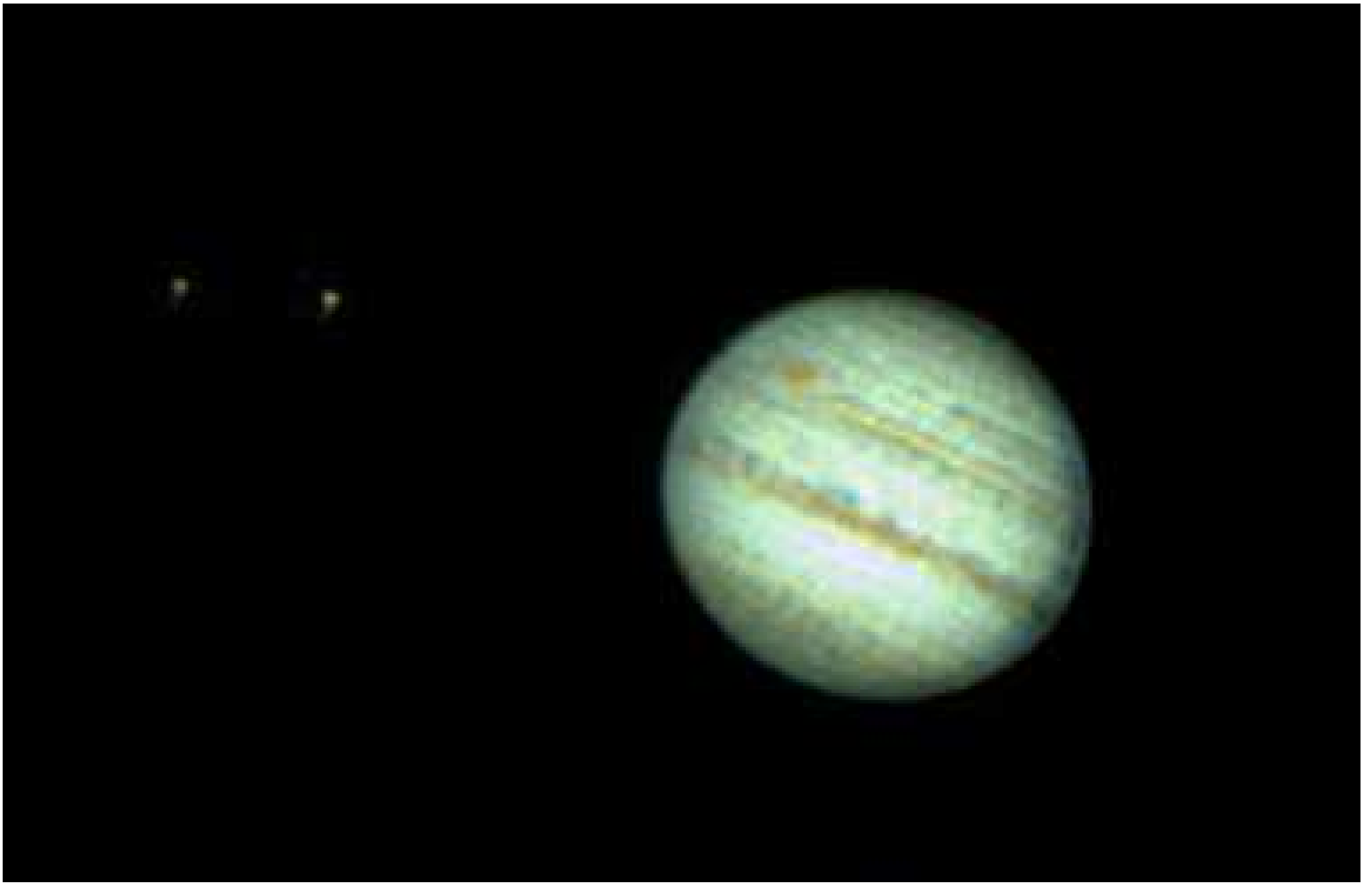
From **MATTHEW WEST**. Stars



From **MATTHEW WEST**. Moon Shot.



From **ADRIAN BRADLEY**. From the OTSP



From **MARCUS CLARKE**. Jupiter and moons. Using 8-inch Celestron.



From **JEFF KOPMANIS**. After several passes of the 12:43pm (EDT) file, I first tried going much more subtly with the Registax wavelets, and then another pass with Astrosurface, a suggestion from Awni, and I think it did a little better job of showing me surface details without eliminating prominences at the edges, especially in the lower right quadrant, which Registax obliterated. This'll be my final post with this image, I think.



From **JACK SPRAGUE**. M33. Mosaic.

I have 15 hours of integration in this beastie from the first week of October, 10/1 - 10/6 2022.

ES 127mm fcd-100 refractor reduced to 666mm and f/5.25

ZWO 183mc camera cooled to 32F.

4 panel mosaic totaling 15+ hours.

Post processing in AstroPixelProcessor (APP).



FROM **KEN LEITCH**. Jupiter October 10, 2022 - 10:30 PM EDT

Hardware:

Meade 8" LX90 w/ Wedge
Home Brew Stepper Motor Focuser and Controller
ZWO ADC (Atmospheric Dispersion Corrector)
Celestron 2x Barlow
ZWO ASI185MC: Exposure=30ms, Gain=284

Software:

SkySafari Pro 7.0.2
SharpCap Pro 4.0
PIPP 2.5.9
AutoStakkert 3.1.4
WinJUPOS 12.1.2
RegiStax 6.1.0.8
Topaz DeNoise AI 3.0.3
GIMP 2.10.28

Processing:

Best 8% from each of 21 total 120 second AVI videos captured from 01:51 to 03:07 UTC (October 11, 2022)
Derotated in WinJUPOS, stacked, and "overprocessed" in Registax, Topaz DeNoise AI, and GIMP.



From **DMITRI TSAHELNIK**. M13.

6in F/6

Unguided

30 second exposures x 13



From **DONOVAN DREW**. MGC 1333.



From **JACK SPRAGUE**. C5 is heavily shielded by dust from the Milky Way, lies 13Mly distant, and is a debated member of the local group depending on when a list/article is published! In my efforts to shoot the "local group" for the Astronomical League observing program, I have discovered that there is far from consensus on what is and is not a member.

My image shows the effect of too few integration frames. These sort of scant objects need 4 - 6 hours even at f/5.25 which I used here.



From **ADRIAN BRADLEY**. From the OTSP



From **ADRIAN BRADLEY**. From the OTSP



From **NATHAN MURPHY**. From the OTSP



From **ADRIAN BRADLEY**. From the OTSP



From **ADRIAN BRADLEY**. From the OTSP



From **ADRIAN BRADLEY**. California Nebula and the Pleiades. Taken at the OTSP.