

Howard Astronomical League



September 20th, 2018

Introductions

HAL Business Bylaws Amendments

1. A dissolution clause is required to continue HAL's non-profit tax exempt status
2. Adopt "Lifetime Membership" as a new class of membership to recognize exceptional support to HAL

Bylaw amendments must be adopted by members at a general meeting

- A quorum (ten members) must be present
- 2/3 majority passes the resolution

Dissolution Clause

Upon termination or dissolution of the Howard Astronomical League, any assets lawfully available for distribution shall be distributed to one (1) or more qualifying organizations described in Section 501(c)(3) of the Internal Revenue Code of 1986 (or described in any corresponding provision of any successor statute) which organization or organizations have a charitable purpose which, at least generally, includes a purpose similar to the terminating or dissolving corporation.

New Membership Class

Lifetime Membership – These memberships are approved by the board as an expression of the organization's gratitude for exemplary service and support. They are not subject to annual dues and they have full voting privileges. This type of membership may be applied as a lifetime individual membership or as a lifetime family membership on a case-by-case basis.

Lifetime Membership Award

Leona and David Illig

For significant donations of equipment, time, and expertise that materially improved the suitability of the Howard Astronomical League Observatory for public outreach and for member use of the observatory

Thank you very much!!



Observatory Report

Director: Joel Goodman

Progress:

Updated HALO Policies and Procedures

Pointing issue resolved

Ready to continue conversion of existing CTOs

Present:

Resolving residual dome/scope synch issues

Updating training materials

Beginning to recruit/train new CTOs

Plan:

Make observatory available to members via a CTO training track

Public Star Party
September 15, 2018
HALO/Ililig Scope

Mike Krauss
David Stein
Phil Whitebloom
Eddie Crawford









Exoplanet Exploration Committee

Chair: Chuck Cynamon

Establish an Exoplanetary Exploratory Committee with Chuck Cynamon as Chair for the purpose of coordinating HAL activities related to assessing member interest, generating member interest, and developing possible technical solutions for establishing a photometry capability in the HAL Observatory. There will be no implementation authority vested in the committee, and the committee will be charged with periodically reporting progress and providing recommendations to the HAL Board.

Regional Star Party Reports

Almost Heaven

JoAnn and Stan Shapiro
James Stack (AHSP staff)
Alan Solomon
Doug Biernacki
Jim Johnson



Black Forest

Paul and Amy Montanaro

Upcoming Events

HAL Events – Alpha Ridge Park

October 6th at 6:45 – Members Star Party

October 20th at 6:30 – Public Star Party

Other Events

October 8th to 14th – Chaos Fall Star Party
Staunton River State Park, Scottsburg, VA

Comet 46P/Wirtanen

2018 Apparition

Closest Approach: Dec 16th

- 10th closest in modern times
- Visible most of the night
- Passing through Taurus between Hyades and Pleiades
- 0.0775 AU (30 Lunar distances)

Comet 46P/Wirtanen

2018 Apparition

Historically active comet

Predicted magnitude varies by model:

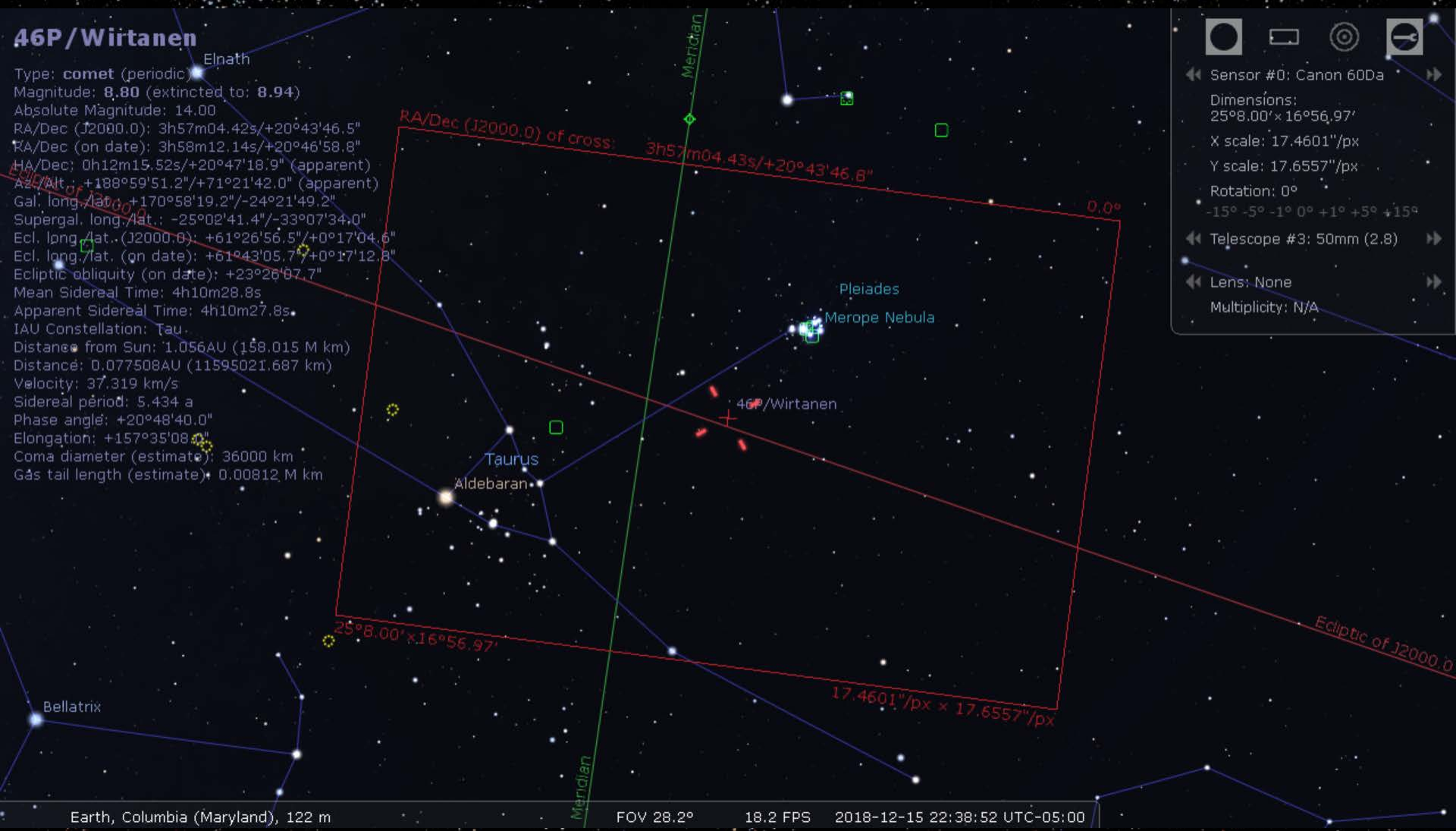
Yoshida – 3

JPL Horizons – 8

Minor Planet Center – 9 to 10

Current observations track with MPC

Comet 46P/Wirtanen 2018 Apparition



46P/Wirtanen

Type: comet (periodic)
 Magnitude: 8.80 (extincted to: 8.94)
 Absolute Magnitude: 14.00
 RA/Dec (J2000.0): 3h57m04.42s/+20°43'46.5"
 RA/Dec (on date): 3h58m12.14s/+20°46'58.8"
 HA/Dec: 0h12m15.52s/+20°47'18.9" (apparent)
 Az/Alt: +188°59'51.2"/+71°21'42.0" (apparent)
 Gal. long./lat.: +170°58'19.2"/-24°21'49.2"
 Supergal. long./lat.: -25°02'41.4"/-33°07'34.0"
 Ecl. long./lat. (J2000.0): +61°26'56.5"/+0°17'04.6"
 Ecl. long./lat. (on date): +61°43'05.7"/+0°17'12.8"
 Ecliptic obliquity (on date): +23°26'07.7"
 Mean Sidereal Time: 4h10m28.8s
 Apparent Sidereal Time: 4h10m27.8s
 IAU Constellation: Taur
 Distance from Sun: 1.056AU (158.015 M km)
 Distance: 0.077508AU (11595021.687 km)
 Velocity: 37.319 km/s
 Sidereal period: 5.434 a
 Phase angle: +20°48'40.0"
 Elongation: +157°35'08.0"
 Coma diameter (estimate): 36000 km
 Gas tail length (estimate): 0.00812 M km

Sensor #0: Canon 60Da
 Dimensions: 25°8.00' x 16°56.97'
 X scale: 17.4601"/px
 Y scale: 17.6557"/px
 Rotation: 0°
 -15° -5° -1° 0° +1° +5° +15°
 Telescope #3: 50mm (2.8)
 Lens: None
 Multiplicity: N/A



This Evening's Speaker

John Stansberry

Solar System Lead, Space Telescope Science Center

Kuiper Belt Objects

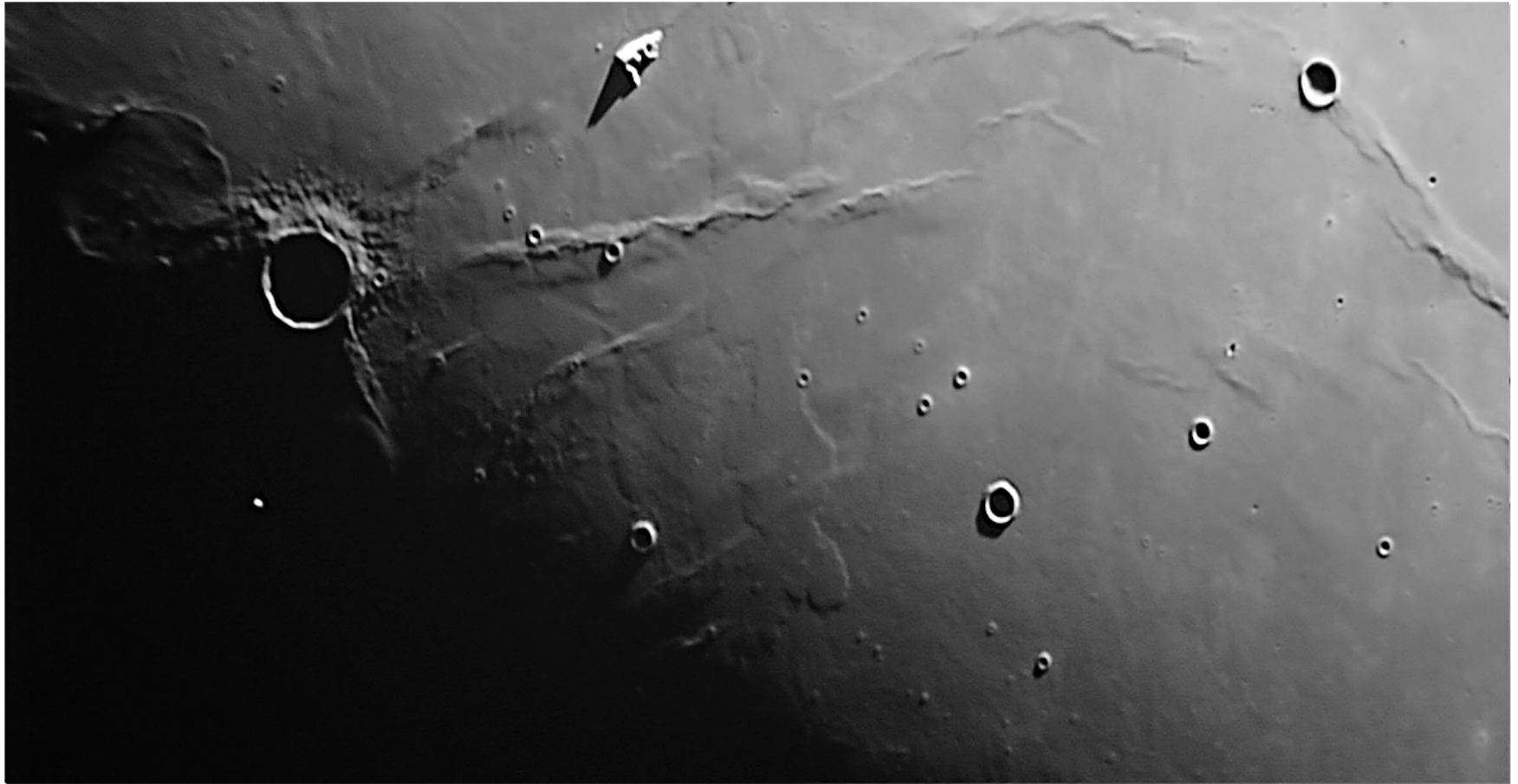


Member
Astrophotos and Sketches



Chris Miskiewicz
AstroPhotography

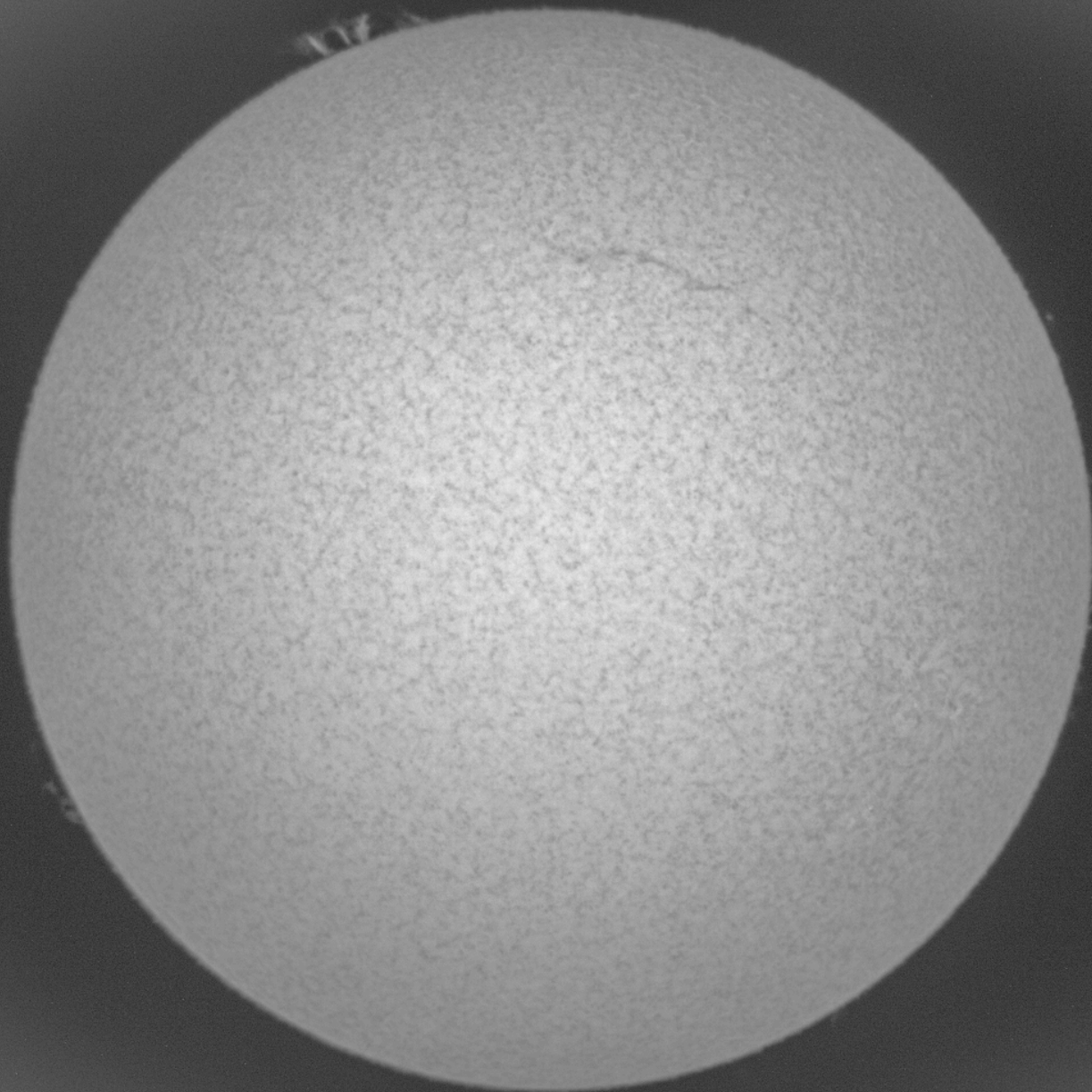




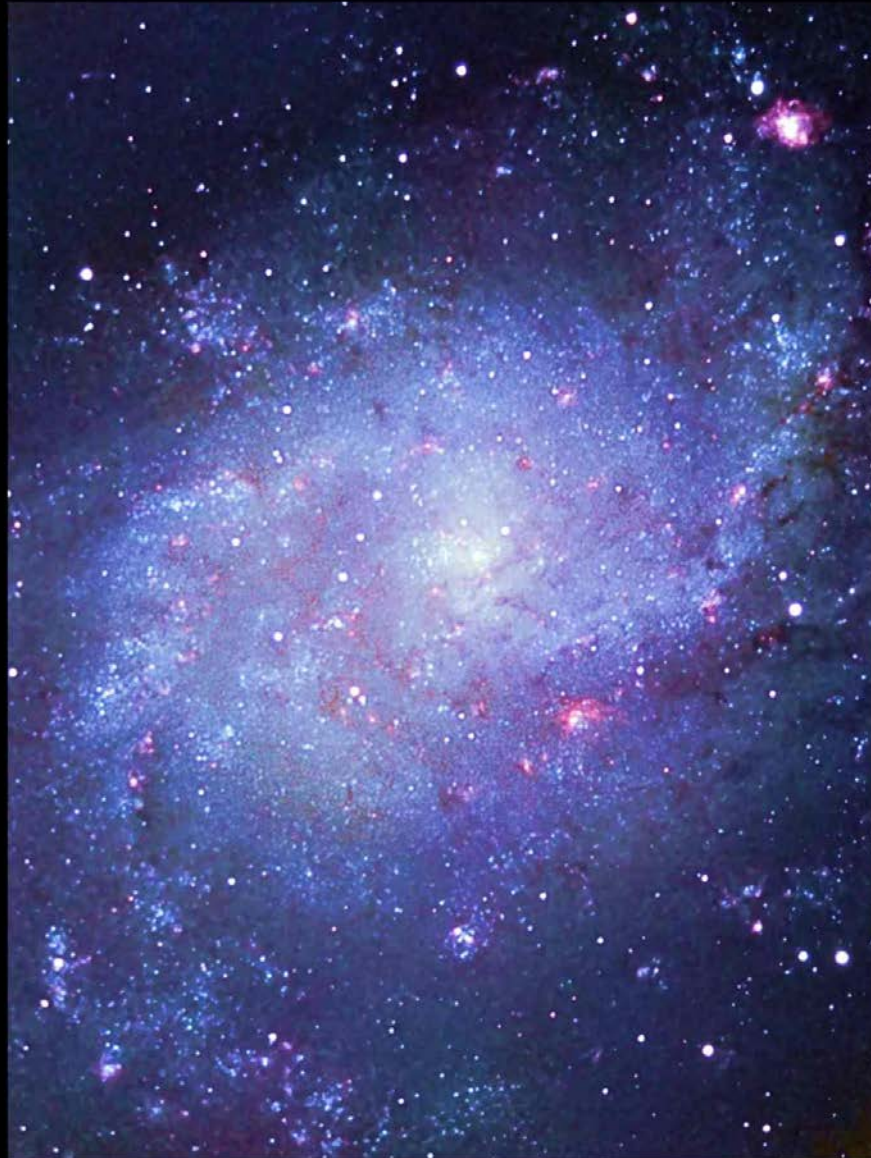
Gary Frishkorn

Mare Imbrium lava flow, Lambert, Mons La Hire
September 4, 2018, 8:31 UT
248 mm f/10 Off-Axis Newtonian
(Herschelian focus)

9,100 mm EFL, (5x Powermate, group #1)
Olympus E-M10II, digital zoom: off
HDMJPEG ~ISO 6400, 1/30 sec
1000 stacked frames, Registax 6.1.0.8



Our Sun
Wakes Up
August 26, 2018
3:19 PM EDT
Image by:
Phil Whitebloom



Messier 33, Triangulum Galaxy

Peter Nerbun





Ken Everhart



Moon

Ken Everhart

August 26, 2018
00h 28m UTC

Hanover, Maryland

Telescope:
Meade LX-850 14"

Camera:
ZWO ASI1600MM

L-H-Alpha -G-UV Stack

Lum:	5 X	6 ms
H-Alph	5 X	16 ms
Green:	5 X	3 ms
UV:	5 X	151 ms

Stacked with Registax 6

RGB Combination
with Pixinsight

Post Processing
with Registax 6.0
and Photoshop.



Helix Nebula

Ken Everhart

September 5, 2018
04h 28m UTC

McDonald Observatory
Texas

Telescope:
Meade LX-850 14"

Camera:
ZWO ASI1600MM

LRGB Stack

Lum: 4 X 180 Secs.
Red: 4 X 180 Secs.
Green: 3 X 180 Secs.
Blue: 6 X 180 Secs.

Stacked with Pixinsight

RGB Combination
with PixInsight

Post Processing
with Pixinsight
and Photoshop.



Thank You!

Next month's meeting is on Thursday,
October 18th 2018 at 7 PM

Surprise Guest

A Lifelong Journey in Astronomy