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GUIDESTAR

July 2021

**Fostering the Science and Art of Astronomy
Through Programs that Serve our Membership
and the Community**

Flaming Star and Tadpoles

Image by HAS Member

Chris Ober

IC-405, IC-410 & IC-417

Imaged with a RedCat 51 and STF-8300

Total Exposure - 9hrs & 20min - LRGB + Ha



July Novice Presentation Via Zoom

"Navigating the Summer Night Sky"

with Debbie Moran

Novice Chairperson Debbie Moran will lead us on a tour of the Summer night sky. She will show us how to find our way around the beauty of the Summer Milky Way and introduce us to some of the **Not to be Missed** celestial objects we should have on our observing lists!

July 8th 2021 at 7:00PM

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[Register for Presentation](#)



HAS Main Speaker Presentation

Via Zoom

by: Natalia Guerrero

A Treasure Map in the Stars: Discovering Exoplanets with NASA's TESS Mission

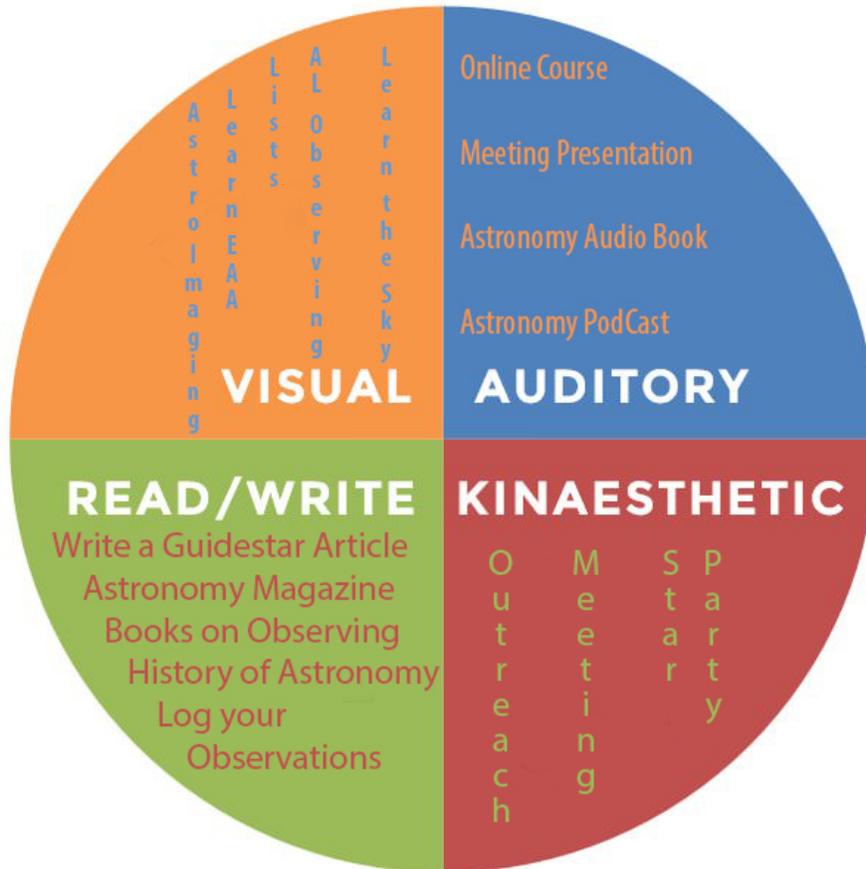
TESS, the Transiting Exoplanet Survey Satellite, has identified over 4,000 exoplanet candidates since it launched in 2018. This survey spanning the entire night sky has added over 4,000 "X-marks-the-spots" to our map of the solar neighborhood.

Observatories across the globe and orbiting the Earth are racing to study and confirm these exoplanet candidates as bona-fide TESS exoplanets. Fueled by the wealth of open-access TESS data, community-driven projects find additional candidates in the data. As TESS stares and steps across the night sky in 27-day chunks, it also witnesses supernovae, flaring stars, and passing asteroids.

As the TESS mission embarks on its fourth year of operation, its treasure trove of discoveries fills in the bigger picture of planetary possibilities, and where within it our Earth, and our Solar system, belongs.

July 9th 2021 at 7:00PM

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Field of View

Astronomy and Learning

by Don Selle - Guidestar Editor

When you take up astronomy as a hobby, it is almost inevitable that you will start out on a path that will keep you learning for as long as you wish to follow it. When you think about it, this is a very reasonable thing. Astronomy is, after all, the oldest of the sciences, maybe as old as humanity itself.

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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

[This article is distributed by NASA Night Sky Network](#)

Observe the Milky Way and Great Rift

By 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!

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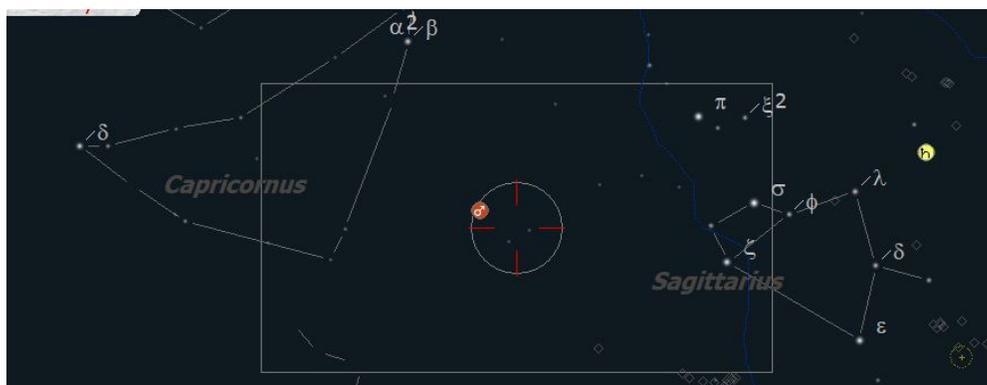
A Mid-summer Swim Up the Milky Way

by: [William Sager](#)

I look forward to mid-summer observing each year. Is it the epic dews of humid summer nights? The sweat dripping on my eyepieces? The hordes of mosquitos buzzing around my head? No. No. And (unprintable) no!

Summer observing brings the pleasures of surfing through the center of the galaxy. It is a delight for novices and old salts (remember the sweating) alike. In this article, I will take a brief look at some of the main attractions of this region, focused on what a novice can see with binoculars or a small scope.

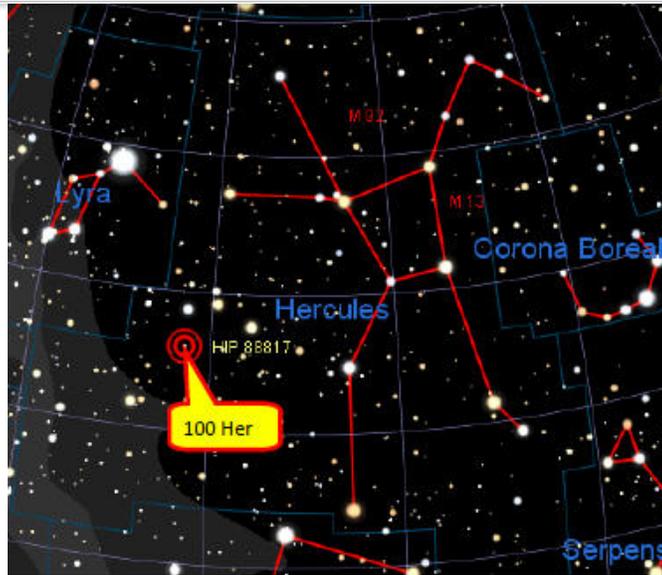
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Asterisms - Herman's Cross

by [Steve Goldberg](#)

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Shallow Sky Object of the Month

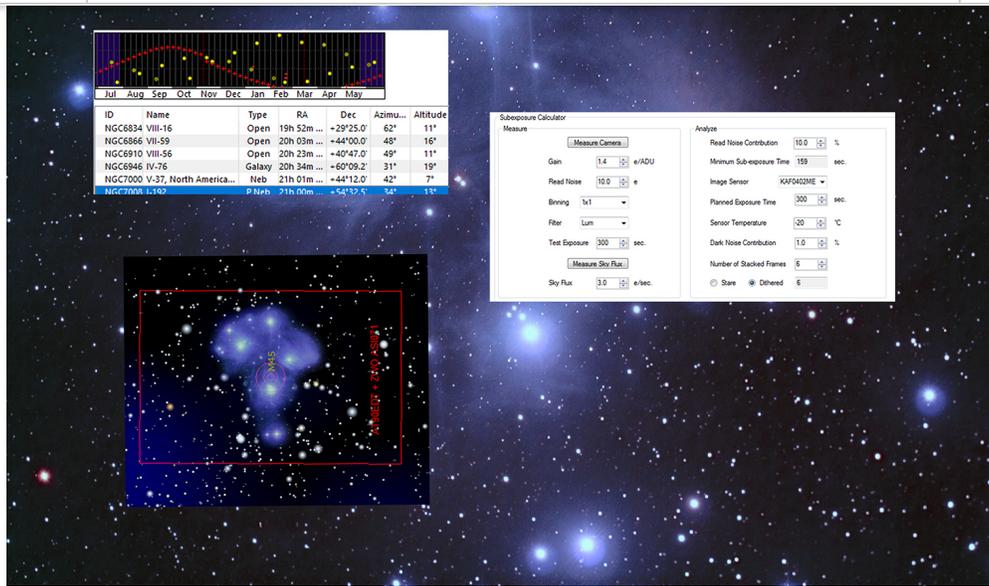
July 2021

100 Her—A Matching Double Star

by Bill Pellerin

One of the challenges of double stars is figuring out what catalog they're in, what their catalog number is, and what catalog numbers are represented on my map (paper or computer). SkyTools lists eleven catalog designations for this star. TheSky recognizes 100 Her by at least three designations. You should be able to find it by one of the designations given here, and if that fails, you can find it by its RA and DEC.

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AP Corner - July 2021

Plan Your Imaging

by Don Selle

“Fail to plan, plan to fail” is an old adage that applies very well to most activities but especially well to astrophotography. Dark time in the field is a precious commodity and it can be very easily wasted. When you finally get all the equipment working together, and learn to avoid the operator errors, you will find having a plan and working it will help you make the most of your time under the stars.

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