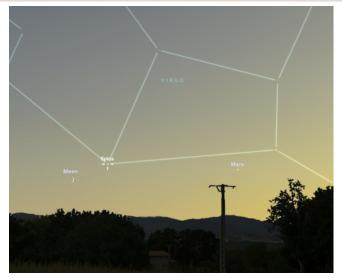


SKYWATCHER NEWSLETTER



LATEST NEWS

Tonight just after sunset you should be able to spot Mars just to the west of the crescent moon. Spica sits near to the moon. A great binocular treat!

The sun has been quite active this summer as well with many observations of sunspot activity as well as magnetic disturbance in other wavelengths visible to solar observers. In case the compact smartscope fever is tempting you, here are some results with the Seestar S50 and a Baader astrofilm filter.

Hope you have a nice summer and looking forward to the nights drawing in and more astronomical treats to come!

Until next month and hopefully 20 years more of the WAC... SLK



July's Night Sky Notes: Spy the Scorpion

By: Kat Troche

observer's delight during the warmer structure. months. Here are some items to spy in July:

If you have good skies, try to split this binary is a double star with a white main-sequence companion that comes in at a 5.4 magnitude.

clusters to find, M4 is the closest of these a glittering sea of stars. star clusters to Earth at 5,500 light years. With a magnitude of about 5.6, you can spot Measure Your Darkness this with a small or medium-sized telescope While you can use smartphone apps or bright core. Use Antares as a guide star for this short trip across the sky.

can be spotted with binoculars and the Astronomy Toolkit. naked eye under good sky conditions.

As summer deepens in the Northern Lastly, if you have an astrophotography set Hemisphere, a familiar constellation rises up, capture the Cat's Paw Nebula near the with the galactic core of the Milky Way each stinger of Scorpius. You can also capture the evening: Scorpius the Scorpion. One of the Rho Ophiuchi cloud complex in the nearby twelve zodiacal constellations, Scorpius constellation Ophiuchus. Brilliant Antares contains many notable objects, making it an can be found at the center of this wondrous

Manaiakalani

Antares: referred to as "the heart of the While many cultures tell tales of a 'scorpion' scorpion," this supergiant has a distinct in the sky, several Polynesian cultures see the reddish hue and is visible to the naked eye. same stars as the demigod Māui's fishhook, Manaiakalani. It is said that Māui didn't just star with a medium-sized telescope. Antares use his hook for giant fish in the sea, but to pull new islands from the bottom of the ocean. There are many references to the Way representing a fish. As Manaiakalani rises from the southeast, it ·Mess<u>ier 4:</u> one of the easiest globular appears to pull the great celestial fish across

in average skies. Darker skies will reveal the dedicated devices like a Sky Quality Meter, Scorpius is a great constellation to measure your sky darkness with! On a clear night, can you trail the curve of the tail? Can you see ·Caldwell 76: If you prefer open star clusters, the scorpion's heart? Use our free printable locate C76, also known as the Baby Scorpion Dark Sky Wheel, featuring the stars of Cluster, right where the 'stinger' of Scorpius Scorpius on one side and Orion on the other starts to curve. At a magnitude of 2.6, it is for measurements during cooler months. You slightly brighter than M4, albeit smaller, and can find this resource and more in the <u>Big</u>



LOCAL EVENTS

2 Sept - WAS - Dr. Lilian Hobbs - Messier Objects (In Person)

2 Sept = BNSS - Joan Freeman: A Passion for Physics - 7.30pm (zoom only) Speaker: Ceri Edwards

17 Sept - FA - Dark Matter - Why we think 95% of the Universe is Missing - Elizabeth Cunningham

7 Oct - WAS - The Bob Mizon Memorial Lecture - Prof. Martin Hendry - An astronomer's guide to the periodic table Via Zoom

■ 15 Oct - FA - Bok Globules - Dark Nebulae -Club Speaker Ross Gould

4 Nov - WAS - Steve Plant UK Space Agency In Person

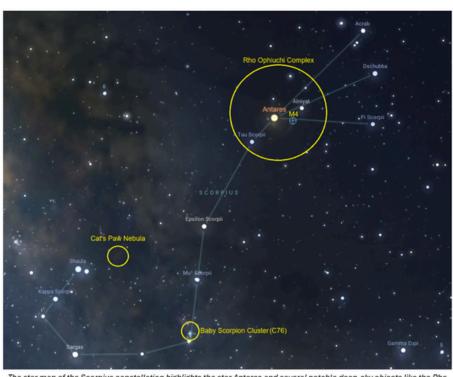
MORE TO COME IN 2025!

VISIT OUR WEBSITE FOR THE LATEST CLUB INFORMATION



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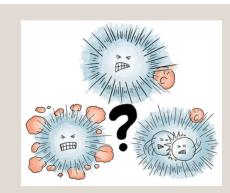
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The star map of the Scorpius constellation highlights the star Antares and several notable deep-sky objects like the Rho Ophiuchi Complex, Messier 4, the Cat's Paw Nebula, and Caldwell 76, the Baby Scorpion Cluster. Credit: Stellarium Web



A digital map of the Rho Ophiuchi Complex. Credit: Stellarium Web



WAC Upcoming Events

SEPT 12 - DAVID WHITEHOUSE -SEARCHING FOR LIFE (IN-PERSON AND ZOOM)

OCT 10 - SHERI KARL - ORBITING SOLAR OBSERVATORIES (ZOOM)

1NOV 14 - JO RICHARDSON FRAS -THE JWST - A MIRRORED MARVEL (IN-PERSON AND ZOOM)





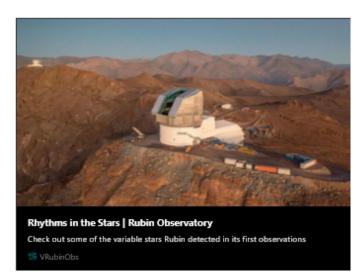




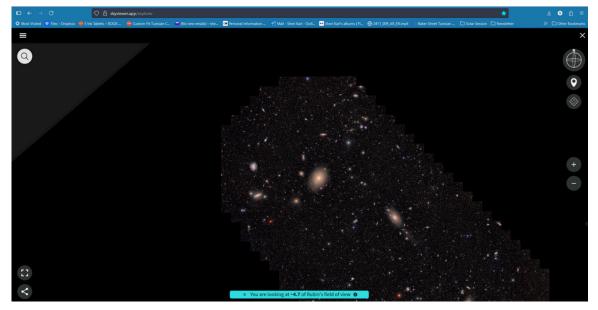


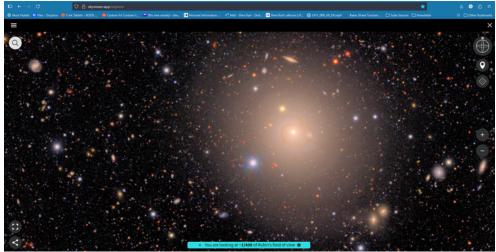
Made from over 1100 images captured by NSF–DOE Vera C. Rubin Observatory, the video begins with a close-up of two galaxies then zooms out to reveal about 10 million galaxies. Those 10 million galaxies are roughly 0.05% of the approximately 20 billion galaxies Rubin Observatory will capture during its 10-year Legacy Survey of Space and Time. Credit: NSF–DOE Vera C. Rubin Observatory

https://rubinobservatory.org/news/first-imagery-rubin



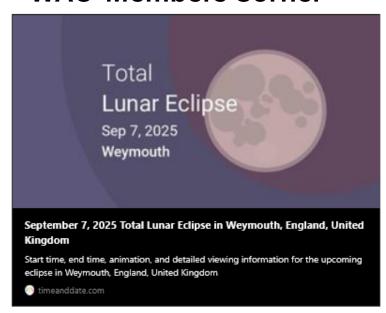
https://rubinobservatory.org/news/rubin-first-look/rhythm-stars





https://skyviewer.app/explorer

WAC Members Corner



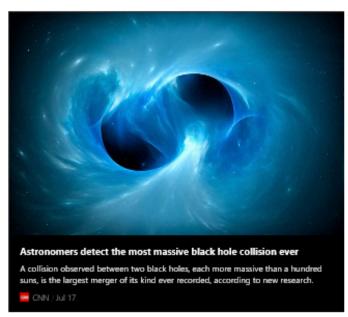
https://www.timeanddate.com/eclipse/in/uk/weymouth?iso=20250907



Time	Phase	Event	Direction	Altitude
16:28 Sun, 7 Sep	Not directly visible	Penumbral Eclipse begins Below horizon	∕ 62°	-29.8°
17:27 Sun, 7 Sep	Not directly visible	Partial Eclipse begins Below horizon	→ 74°	-21.3°
18:30 Sun, 7 Sep	Not directly visible	Total Eclipse begins Below horizon	→ 86°	-11.5°
19:11 Sun, 7 Sep	Not directly visible	Maximum Eclipse Below horizon	→ 94°	-5.1°
19:38 Sun, 7 Sep	Rising	Moonrise Rising, but the combination of a very low moon and the total eclipse phase will make the moon so drin that it will be extremely difficult to view until moon gets higher in the sky or the total phase endoughes.	→ 99°	-0.2°
19:46 Sun, 7 Sep		Maximum in Weymouth This is the moment when the eclipse reaches its greatest magnitude while the entire Moon is above the horizon in Weymouth. The true maximum point of this eclipse cannot be seen in Weymouth because the Moon is believe the horizon at that time. Moon close to horizon, recommend going to a high point.	100°	0.8°
19:52 Sun, 7 Sep		Total Eclipse ends. Total moon eclipse ends. Moon close to horizon, so make sure you have free sight to East-southeast. Additionally, the eclipsed moon combined with dimming near horizon might make the Moon very hard or impossible to see.	102°	1.7°
20:56 Sun, 7 Sep		Partial Eclipse ends Partial moon eclipse ends.	114°	10.9°
21:55 Sun, 7 Sep		Penumbral Eclipse ends The Earth's penumbra ends.	126°	18.9°



John went up to Poundbury the morning of 12 Aug to photograph the conjunction. He used a camera hand-held to achieve this lovely image.



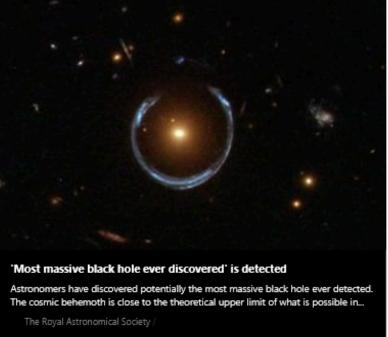
https://edition.cnn.com/2025/07/16/science/massive-black-hole-collision-gravitational-waves



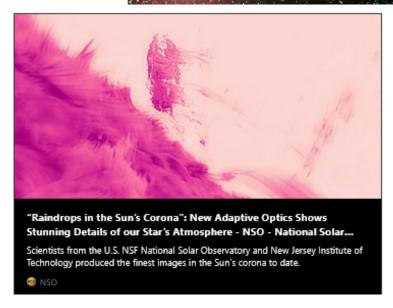
https://eos.org/research-spotlights/first-complete-picture-of-nighttime-clouds-on-mars?mkt_tok=OTg3LUIHVC01NzIAAAGcTCmtDV3Em_weOXPpmHGcO5K-UyHSoi_DFsF6CulxsleRfArWpz8np5tmRCgV52XCWon2bTGo3TZnJ-jgdMHNzIsh7Ff5o5FMjgZZRRWRaQ



https://ras.ac.uk/news-and-press/news/michele-dougherty-becomes-first-female-astronomer-royal



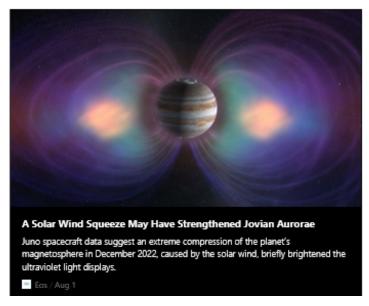
https://ras.ac.uk/news-and-press/research-highlights/most-massive-black-hole-ever-discovered-detected



 $\frac{https://nso.edu/press-release/new-adaptive-optics-shows-stunning-details-of-our-stars-atmosphere/$



https://www.bbc.co.uk/news/articles/cx23g5jpj9go



https://eos.org/research-spotlights/a-solar-wind-squeeze-may-have-strengthened-jovian-aurorae?

<u>mkt_tok=OTg3LUIHVC01NzIAAAGcKB0KhpeoENuiFVtXz9giqF8ZI7t8joRbsHEPUs03eQdJ6guy2igFv0sIAUONz_fdEA5ja6IHJajlqd9hQuZ2kr8UAeJM</u>B6e3_Eap60cLeO



https://eos.org/articles/exoplanet-triggers-stellar-flares-and-hastens-its-demise?mkt_tok=OTg3LUIHVC01NzIAAAGcKB0Khp1mVYL3WTxRfV-cX-WH6NbILEyJbMIG6e3SajhvfsxAs9BHZFSOinRXOtuHWnFAyDxPwnjuSNXnPEVMBUP1s3nnuF-57wup6ak96w





https://www.telegraph.co.uk/gift/a34272b4600f99f5

HOT OFF THE PRESS 27 AUG 2025.

STARSHIP 10 LAUNCH SUCCESS: First, Starship 10 didn't explode. Then, it accomplished almost all of its mission objectives. SpaceX's massive Starship, combined with its Super Heavy booster, lifted off from Starbase, Texas on Aug. 26th at 6:30 PM CDT. For the first time, Starship successfully deployed eight extralarge Starlink satellite simulators into orbit, paving the way for future expansion of the megaconstellation. Then it landed (a soft splashdown) in the Indian Ocean.

Skymaps.com—Feel free to download the full article directly each month.

