

Winslow Homolovi Observatory



Guest Presenter: Bryan Bates CCC

August 16, 2025 7:00 PM (AZ-MST)

Bryan Bates, Science Professor Bryan Bates received emeritus status at Coconino Community College. He taught biology, archeoastronomy and helped in developing curricula for Environmental Biology and Colorado Plateau Studies. Bryan is probably best known for his research in the development of astronomy and science in Native cultures. Co-editor of Archaeoastronomy: The Journal of Astronomy in Culture Volume XXIII, 2010 . Bryan serves on the Board of Directors for the Flagstaff Festival of Science, the SEDI Educational Sustainability committee, and the Conference on Archaeoastronomy of the American Southwest (CAASW, a founding member.) His presentation - Hopi Astronomy starts at 7:00 pm at the Homolovi State Park Visitor Center – Museum and following the program the Winslow Homolovi Observatory will be open for evening viewing until 9:30 PM (AZ-MST)

 Little Colorado River Valley Astronomy Club 

ARIZONA

STATE PARKS & TRAILS



NATIONAL ENDOWMENT FOR THE ARTS
and BLUE STAR FAMILIES present
arts.gov/bluestarmuseums

BLUE STAR MUSEUMS

Telescope Viewing after Guest Speaker 7:00 PM AZ-MST www.azstateparks.com/stars
Homolovi State Park State Route 87 N. Mile post 347. (928) 289-4106

Astronomical Information

Homolovi State Park Time UTC-7 Saturday August 16, 2025

<u>Luminous</u>	<u>Begin</u>	<u>End</u>	<u>Planet</u>	<u>Rise</u>	<u>Set</u>	<u>Meridian</u>	<u>Comment</u>
Morning Astronomical Twilight	4:11 AM	4:45 AM	Mercury	Sat 6:06 am	Sat 6:10 pm	Sat 12:09 pm	Extremely difficult to see
Morning Nautical Twilight	4:45 AM	5:17 AM	Venus	Sat 8:45 am	Sat 7:31 pm	Sat 2:08 pm	Fairly good visibility
Morning Civil Twilight	5:17 AM	5:43 AM	Mars	Sat 11:36 pm	Sun 2:01 pm	Sun 6:48 am	Average visibility
Sunrise & Sunset	5:43 AM	7:09 PM	Jupiter	Sat 10:00 pm	Sun 12:18 pm	Sun 5:09 am	Perfect visibility
Solar Noon/Transit		94.117 Mil.	Saturn	Sat 5:16 pm	Sun 4:33 am	Sat 10:55 pm	Perfect visibility
Evening Civil Twilight	7:09 PM	7:36 PM	Uranus	Sat 8:28 pm	Sun 10:25 am	Sun 3:26 am	Average visibility
Evening Nautical Twilight	7:36 PM	8:08 PM	Neptune	Sat 5:48 pm	Sun 5:40 am	Sat 11:44 pm	Slightly difficult to see
Evening Astronomical Twilight	8:08 PM	8:41 PM	Winslow Homolovi Observatory and Visitor Center: The grounds surrounding the observatory and visitor center is home to many desert creatures. Venomous reptiles and insects inhabit the area. Be aware of your surroundings. Watch children and pets to prevent injury. Report all snake sightings to Ranger on Duty. Help us to keep the park clean and safe for our visitors and wildlife. Use of red colored lights encouraged.				
Moon Set & Moon Rise	11:50 PM	2:03 PM					
	57° ENE	302°WNW					
Moon Phase	Waning Crescent	Illum: 46.2					
Star Party Begin & End	7:00 PM	9:30 PM					
Temperature Forecast °F.°C H/L	91°F/32.7°C	62°F/16.67°C					

Partners and Information: The Winslow Homolovi Observatory is a community partnership with the Arizona State Parks and Trails: Homolovi State Park, City of Winslow, Little Colorado River Valley Astronomy Club, NASA Jet Propulsion Laboratory (www.nightsky.jpl.nasa.gov/clubs-and-events.cfm), Winslow Chamber of Commerce, Hopi Tribe, local Navajo County Businesses and private individuals who have a love and passion for science and astronomy. Donations are accepted, see a park ranger for more information.

Observatory Viewing Engineers: Randall Sahmie & Bill Wood

Park Manager: Chad Meunier Contact: (928) 289-4106 **Program Coordinator:** Kenn Evans, Park Ranger, Contact: (928) 289-4106 email: homolovi@azstateparks.gov Web: www.azstateparks.com/stars

Little Colorado River Valley Astronomy Club: Bill Wood email: billdwood@hotmail.com

Next Event: SATURDAY September 27, 2025 6:00 PM (AZ-MST) Guest Speaker: Dr. Haley Sapers is an assistant professor of planetary geobiology at Northern Arizona University.



Tonight's Viewing Targets:

- [Summer Milky Way](#) arcs from the SW to overhead & down to the NE, DSLR-widefield lens-tripod
- astro photo ops
- [M57](#), Ring Nebula (Planetary Nebula-Low Stellar Mass Nova), 1,400 Light Years Distance
- [M92](#), Globular Cluster, 150,000 stars, 26,000 Light Years Distance, Brighter than M13
- [Albireo](#), Double Star, 380 Light Years Distance, Colorful Indigo & Gold colored stars, side-by-side
- [M27](#), Dumbbell Nebula (Planetary Nebula-Low Stellar Mass Nova), 1,700 Light Years Distance
- [M16](#), Eagle Nebula (Pillars of Creation), 7,000 Light Years Distance
- [T Coronae Borealis](#), Blaze Star (Recurrent Nova), 2,700 Light Years Distance, Outburst Pending



Images from: NASA, EarthSky, and Bill Wood

<https://images.nasa.gov/>

<https://earthsky.org/>

<https://Lcrvac.org/>

Little Colorado River Valley



Astronomy Club



What is Light Pollution?

Most of us are familiar with air, water, and land pollution, but did you know that light can also be a pollutant? The inappropriate or excessive use of artificial light known as light pollution can have serious environmental consequences for humans, wildlife, and our climate. By joining IDA you can make a difference in protecting our Planet, saving billions of dollars in wasted energy, and connecting future generations with our legacy of starry skies. www.darksky.org



Star Party Etiquette: Don't use white lights. Use red lights (put red tape over your flashlight) if you must use a light. ✳ If you come to a star party without a telescope please park away from the observing site to save room for those with heavy equipment to carry. ✳ Please ask permission to touch equipment. ✳ Never touch any glass optical surface. ✳ Don't litter. ✳ Drive very slowly so as to avoid people (especially children) ✳ Watch your step; be especially careful of wires on the ground. Some scopes require power and the use of a battery. ✳ Children — please keep an eye on them and instruct them not to run around or to touch the equipment. ✳ Smoking — no smoking allowed in observation area, please if you smoke, go down wind of telescopes. Homolovi does not offer ashtrays, please do not litter, dispose of extinguished smoking materials properly. ✳ No-aerosol sprays to be used near the telescopes. (Aerosol repellents may drift and leave a film damaging optics). Roll-on repellents recommended. ✳ Green lasers are great tools for pointing out stars, asterisms, and constellations to beginning amateur astronomers. Lasers can ruin long-exposure astrophotos. We ask that green lasers (and any other color of bright laser) be used only for informal sky tours **in the early evening**. Use it sparingly and be prepared to put it away if someone asks. Please stop all laser use after astronomical twilight. ✳ Pets are welcome, but must be supervised and under control. Clean up after your pet. ✳ Homolovi State Park is home to venomous reptiles and insects. Please use caution and be aware of your surroundings. Rattlesnakes and scorpions are found in and around the observatory.

Nocturnal Critters: **CAUTION**

Homolovi State Park is home to many nocturnal creatures. These include venomous snakes and insects. Please use caution while walking on paths and accessing buildings. If bit call 9-1-1

RATTLESNAKES



BARK SCORPIONS (*Centruroides exilicauda*)



https://telemedicine.arizona.edu/sites/default/files/webinar_files/Scorp.pdf

Photo by Jillian Cowles

This week in History: August 7, 2025 Capt. Jim Lovell passed away Aug. 7, in Lake Forest, Illinois. He was 97 years old.

The following is a statement from acting NASA Administrator Sean Duffy on the passing of famed Apollo astronaut Jim Lovell. He passed away Aug. 7, in Lake Forest, Illinois. He was 97 years old.

“NASA sends its condolences to the family of Capt. Jim Lovell, whose life and work inspired millions of people across the decades. Jim’s character and steadfast courage helped our nation reach the Moon and turned a potential tragedy into a success from which we learned an enormous amount. We mourn his passing even as we celebrate his achievements.

“From a pair of pioneering Gemini missions to the successes of Apollo, Jim helped our nation forge a historic path in space that carries us forward to upcoming Artemis missions to the Moon and beyond.

“As the Command Module Pilot for Apollo 8, Jim and his crewmates became the first to lift off on a Saturn V rocket and orbit the Moon, proving that the lunar landing was within our reach. As commander of the Apollo 13 mission, his calm strength under pressure helped return the crew safely to Earth and demonstrated the quick thinking and innovation that informed future NASA missions.


“Known for his wit, this unforgettable astronaut was nicknamed ‘Smilin’ Jim’ by his fellow astronauts because he was quick with a grin when he had a particularly funny comeback.

“Jim also served our country in the military, and the Navy has lost a proud academy graduate and test pilot. Jim Lovell embodied the bold resolve and optimism of both past and future explorers, and we will remember him always.”

For more information about Lovell’s NASA career, and his agency biography, visit:

<https://www.nasa.gov/former-astronaut-james-a-lovell>





"We are saddened by the news of
Astronomer Steve Moore's passing. His
passion for unraveling the universe's
mysteries inspired us all. May his spirit
shine brightly like the stars he loved to
explore."

The Winslow Homolovi Observatory
Little Colorado River Valley
Astronomy Club

2025

Notes: