



The Observer

SAN BERNARDINO VALLEY AMATEUR ASTRONOMERS

Member of The Astronomical League

<http://sbvaa.org/>



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Since 1958

July, 2017

Meeting:

July 8, 2017

Location:

The Sizzler

1800 S. Waterman

(S. Waterman at
Vanderbilt Way in San
Bernardino)

from 5:00 to 7:00

Program Annual (sizzling) Summer Social

The program this month will consist of dinner and socializing at The Sizzler. This is a great time for food and fellowship. It is also a great time for sharing tales of averted imagination and recounting memorable nights under the stars.

Come and join the fun!



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Calendar of Upcoming Events

July 22, Star Party, Oak Glen

August 5, Annual Club BBQ

August 19, Star Party, loc. TBD

August 12/13, Perseid Meteor Shower

August 21, Solar Eclipse

Sept. 9, Club Meeting

Sept. 22 24, *Star Party, Grand View*

Oct. 7, Club Meeting

Oct. 8, Draconid Meteor Shower

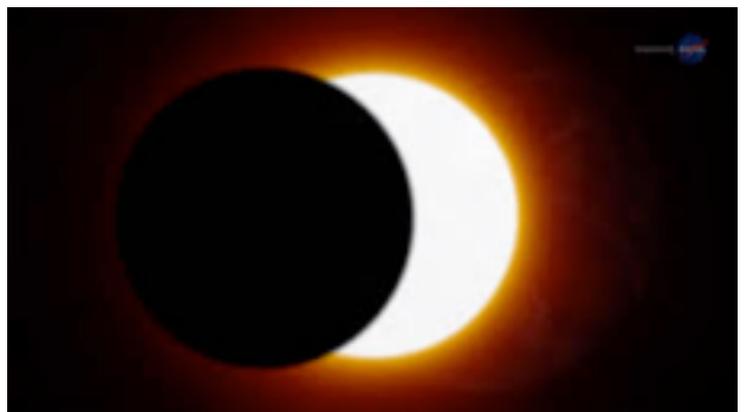
Oct. 21, Star Party, loc. TBA

Solar Eclipse Info

I'm sure all of you are aware of the "Great American Solar Eclipse" coming on August 21. It's time to dust off the solar filters, Herschel wedges, and other assorted gear for viewing our nearest star. If you are one of those lucky enough to have reservation for a spot under the umbra, excellent! For those of us who are going to be staying close to home, all is not lost. Our SoCal area should experience about a 60% eclipse. The only problem is that the event will begin and end on a work-day, Monday. If you can get the time off or are retired, you will have a wonderful opportunity for viewing and/or photographing a great partial eclipse.

For the greater L.A. Basin and the San Bernardino Valley areas, the show should begin about 9:05 a.m. and max out at about 10:21 a.m. About 11:44 a.m. the show will be over.

Be sure to see this event if you can. There are three partial solar eclipses in 2018, but they will not be visible from No. America. The next total solar eclipse visible from the U.S. will not be until 2024.



The Perseids Are Coming (we hope!)

After midnight on August 12, will be the best time to catch the peak of the Perseid meteor activity, Up to sixty meteors per hour is expected but we all know that it can be much better (or worse) than that. Light from a waning gibbous moon may obscure some of the fainter meteors this year but there is always a chance of a big bolide putting on a show.



NASA's Cassini spacecraft peers toward a sliver of Saturn's sunlit atmosphere while the icy rings stretch across the foreground as a dark band.

This view looks toward the un-illuminated side of the rings from about 7 degrees below the ring plane. The image was taken in green light with the Cassini spacecraft wide-angle camera on March 31, 2017.

The view was obtained at a distance of approximately 620,000 m

(Credit: JPL/NASA)



This image of the Type 1a supernova remnant 0509-67.5 was made using data from NASA's Hubble Space Telescope and Chandra X-ray Observatory. Analyses of Type 1a supernovae's motion through space has led astronomers to conclude that the universe's expansion is accelerating, driven by a mysterious force called dark energy.

For more on Type 1a supernovas and dark matter, go to *Space.com*.

(Credit: NASA, ESA, and B. Schaefer and A. Pagnotta (Louisiana State University, Baton Rouge); NASA, ESA, CXC, SAO, the Hubble Heritage Team (STScI/AURA), J. Hughes, Rutgers University)