



# The Observer

SAN BERNARDINO VALLEY AMATEUR ASTRONOMERS  
Member of The Astronomical League  
<http://sbvaa.org/>



Volume #62, Issue 3

Since 1958

March, 2020

Meeting:

March 7, 2020

Location:

**First Christian Church**  
**2102 E. Foothill Dr.**  
**San Bernardino, CA**

**7:00 p.m.**

Pre-meeting Dinner,  
5:00 to 6:30 p.m.,

***Jenny's Family***  
***Resturant***  
***7750 Palm Ave.***  
***Highland, CA***

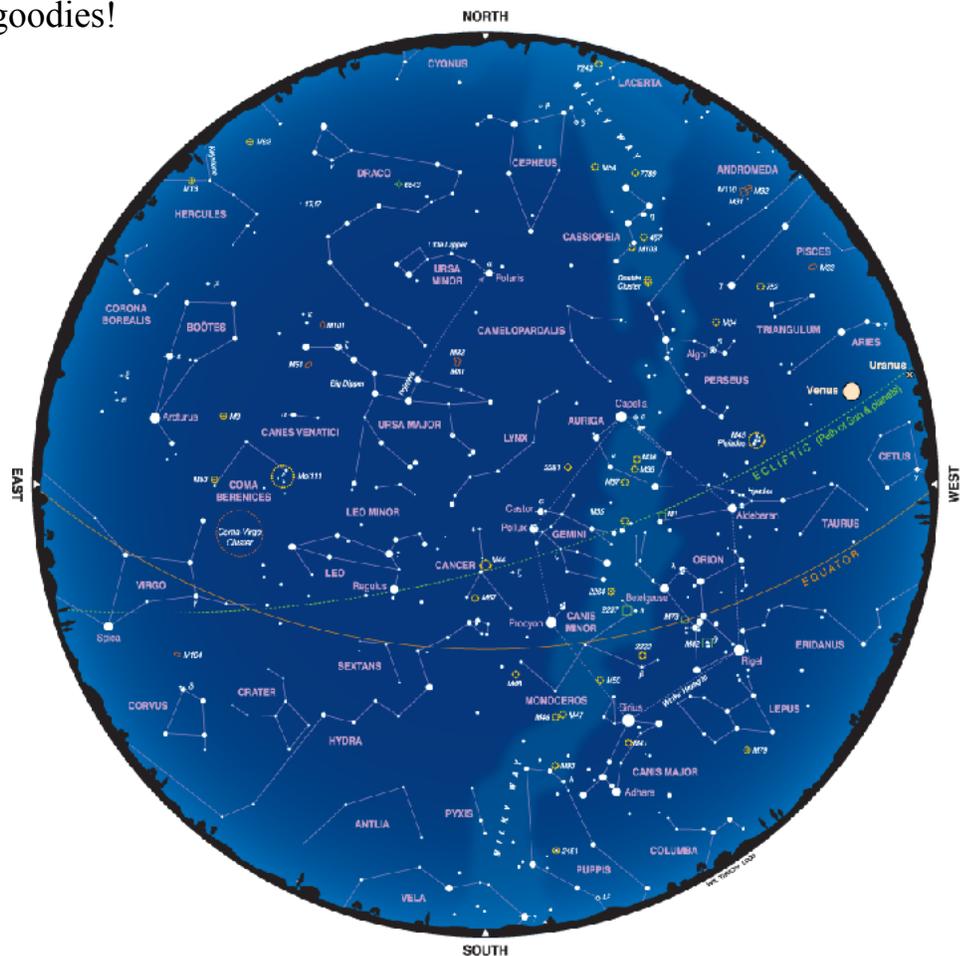
After the meeting telescopes will be set up for viewing and members will be available to answer questions. Bring your telescope to observe with us.

*No telescope is too humble,  
and beginners are always  
made welcome!*

## Program What's Up

### Observing the Winter & Early Spring Skies

Martin and Chris will give us a power-point presentation featuring the constellations of winter and early spring along with some well-known and lesser-known deep sky objects, describing various star clusters, nebulae and galaxies--literally a potpourri of celestial goodies!



## SBVAA Officers

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## Calendar of Upcoming Events

Mar. 7, Club Meeting

Mar. 28, Outreach, Whitewater

Apr. 3, Outreach, Grand Terrace  
Elementary School

Apr. 4, Club Meeting

Apr. 25, Star Party/Outreach, Oak Glen

May 2, Club Meeting

June 6, Club Meeting

June 17 -21, Grandview

June 26, Outreach, S.B. Cty. Museum

## Dues Are Due

Yes, it's that time again when club dues are due.

The dues for 2020 are \$40, for either individual or family.

Make check payable to SBVAA and send to:

Fidel Hernandez  
27799 21st street  
Highland, CA 92346

Tom has sent the membership a pdf file with the renewal form. If you have had any changes please use it note them and help us keep our files current.



## Grandview Is Coming

June 17, to June 21, are the dates Megan has reserved for us in one of the darkest observing areas in California. The campground is at about a 7,500 ft. elevation with dark transparent skies. As you may have noticed, Megan has reserved five days to allow extra time for astrophotography and general observing. This is the place to bag those deep space objects to complete your observing log for a Messier or other certificate from the Astronomical League

SBVAA  
Members  
hard at work  
at Grandview



# NASA's Iconic 'Pale Blue Dot' Photo of Earth Gets a 21st-century Digital Makeover

By: Meghan Bartels  
[space.com](https://www.space.com)

On Feb. 14, 1990, NASA's [Voyager 1](#) spacecraft captured one of the most iconic photographs of the space age; to commemorate the moment's 30th anniversary, NASA has digitally dusted off the image.

The original image showed Earth as a tiny speck within a band of brightness caused by sunlight striking the spacecraft's instrument. The photograph was the result of a campaign led by scientist Carl Sagan to convince NASA to turn Voyager 1 around and take a photo of the planet where its story began.

For the anniversary, Kevin Gill, an engineer at NASA's [Jet Propulsion Laboratory](#) in California and an imaging processor, gave the photo a new look. "This updated version uses modern image-processing software and techniques to revisit the well-known Voyager view while attempting to respect the original data and intent of those who planned the images," [according to a NASA statement](#).

*(For the complete story, go to [space.com](https://www.space.com))*

Our "Pale Blue Dot."



## Never Say Die!

A couple of months ago, members Martin and Scott got cabin fever and decided that a photon fix was needed. The intrepid duo went up to the Pioneer Town site little knowing what they would be getting themselves into. Never let it be said that SBVAA observers are not a hearty lot!

