

ASN has the opportunity to witness two major solar events in the next 13 months; an annular solar eclipse in eastern Nevada in October 2023 and then in April 2024 a total solar eclipse will cross 13 states from Texas to Maine. Michael Spangler has compiled a list of links with eclipse information and maps which is posted on the ASN web site here: https://www.astronomynv.org/content/article_details.cfm?entry_ID=D9EFCFFE-0605-DC68-3BC819DE450DA7BD. Also, there is good information for safely viewing solar eclipses here: . ([Safety | 2023 Annular Eclipse – NASA Solar System Exploration](#)). Thank you, Michael, for compiling this information.

It's time for those planning to travel to totality for these two solar eclipses to plan and prepare. Our first objective is to gain knowledge and test equipment for these events. The first ASN event providing an opportunity for this is with the Girl Scouts of the Sierra Nevada (GSNN), who have invited ASN to participate with our telescopes for solar viewing. Girl Scouts of all ages will participate in this event, "Space Odyssey 2023", with many hands-on activities. Details for this are:

- What: Space Odyssey 2023
- When: Saturday, April 15, 2023; 10:00 AM – 12:00 PM (Vendors set up at 9:15 AM)
- Where: National Automobile Museum, 1 Museum Drive, Reno, NV 89501
- Who: Girls K-12 and their families
- ASN Member volunteers

This is an ideal time to start testing your solar equipment with a practice setup. If you are having questions or difficulty, ASN members will be there to help. Those who do not have solar equipment will learn tips and techniques to safely observe the sun and protect your eyes, be it with appropriate eye protection or telescopes. ASN will have two solar telescopes at this event, a Hydrogen Alpha telescope and a white filter telescope. A few solar eye viewers will also be available, which can be used to test your smartphone for taking solar pictures.

ASN has solar safe viewing filters on hand for club members. These cardboard glasses with solar film will be available at the September 12th and October 10th ASN meetings. ASN will not sell any safe solar viewing devices to public. (Currently, solar filters can be purchased on Amazon, 10 for \$15, or 25 for \$35.)

ANNULAR ECLIPSE – OCTOBER 2023

Safety | 2023 Annular Eclipse – NASA Solar System Exploration. The Sun is never completely blocked by the Moon during an **annular solar eclipse**. Therefore, *during an annular eclipse, it is never safe to look directly at the Sun without specialized eye protection* designed for safe, direct solar viewing. Viewing any part of the Sun through a camera lens, binoculars, or a telescope without a special-purpose solar filter secured over the front of the optics will instantly cause severe eye injury. ([Safety | 2023 Annular Eclipse – NASA Solar System Exploration](#))

This eclipse, on October 14, 2023, will be the first of two solar eclipses visible in the USA. [USA - Mexico - 2023 October 14 Annular Solar Eclipse - Interactive Google Map - Xavier Jubier \(free.fr\)](#) This is an interactive map with path and times. Here are some ASN researched observations sites.

1. Lakeview/Adel Oregon, start time 7:05 AM: finish 9:44 AM. Least likely to have clouds. Lodging, viewing, food, and restrooms.
2. Highway 140/95 truck stop/Winnemucca, start time, 7:06 AM: finish 9:47AM. Rooms are still cheap for October 13, lodging at Winnemucca. Winnemucca will be an ASN lodging and party area. ASN has permission to use the truck stop near 140/95 intersection. Food and bathrooms available!
3. Primeaux/Carlin, start time, 7:07AM; finish 9:49 AM. Viewing, lodging, restrooms, and food.

There are other places to go if you want to be independent or weather is poor. Use the interactive map for planning purposes: [USA - Mexico - 2023 October 14 Annular Solar Eclipse - Interactive Google Map - Xavier Jubier \(free.fr\)](#).

Do you want to see FOREVER?
Jim Fahey