

Eugene Astronomical Society



Io

May, 2022



PO Box 591 Lowell, OR 97452

www.eugeneastro.org



Solar Sunday: At precisely 1:00:00 we added a mark to our developing analemma.

Mary Jane Walker

May Meeting

Thursday - May 19, 2022 7PM

To be announced

April Meeting

For our April meeting Jerry Olton gave a talk on eyepieces and filters. This was our first gathering in a long time, but if you missed it or were unable to attend, Jerry recorded a Zoom version of the talk that you can see here:

<https://youtu.be/qJ0WDK9wjCw>

In addition, Dan Beacham and Jerry Olton were interviewed by KXCR in Florence, talking about dark sky, observing and astronomy:

<https://soundcloud.com/user-772733150/guide-to-dark-skies-and-stargazing-on-the-oregon-coast?in=user-772733150/sets/beyond-your-front-door>

(I know they are long links, but they should work to click in PDF viewers)

President: Andrew Edelen 618-457-3331

Secretary: Randy Beiderwell 541-342-4686

Board: Andrew Edelen, Randy Beiderwell, Ken Martin, Jerry Olton, Dan Beacham



Happy observers at our Solar Sunday event

Diane Martin

April Star Party Report

By Jerry Oltion

The EAS has gotten back into the swing of things with two star parties this month, our First Quarter Friday on April 8th and a Solar Sunday on April 24th. These were the first public star parties in over two years, and they were both highly anticipated and well attended.

The First Quarter Friday saw half a dozen telescopes and about two dozen visitors over the course of the evening. The weather cooperated reasonably well, with some clouds at first but clearing up after an hour or so. Even with the clouds we were able to see the Moon and several other objects through the gaps, so all was well.

Elvis, the rock-guitarist surface feature on the Moon, was in top form that night. Several people caught sight of him in his wide stance with upraised guitar neck. The rest of the lunar terminator provided excellent opportunity to view craters and rilles and fault lines in high contrast, too.

The Orion Nebula was of course popular as well, along with globular cluster M3, various double stars, the Eskimo Nebula, and galaxies M81 and M82.

We had a new telescope on the deck that night: an eVscope, brought by a new member whose name I didn't catch. The eVscope is a fully-electronic telescope, with the secondary mirror replaced with a camera that sends an enhanced image to an eyepiece and to the operator's cell phone as well. The eVscope stacks images over time, bringing out more and more detail in nebulae and galaxies and other faint objects, cutting through the skyglow and revealing detail we can't see with a regular telescope from town. Needless to say, the eVscope was a popular addition to the party, one that we hope will make an appearance at future star parties as well.

On April 24th we held our first Solar Sunday in Alton Baker Park. Dan Beacham and I brought our H-alpha solar scopes and Dan also brought a white-light filtered scope. The Sun put on a great performance, with three major sunspot groups, several prominences and filaments, and even a minor flare at the end of the afternoon.

Bob Andersen and I re-drew the analemma on the sidewalk from measurements and photos of the original points made over two years ago, and we added a new mark that fit perfectly within the arc of the previous marks. Yay for science!

I also brought my sundials, and they proved popular as always. Several people took the sundial-on-a-business-card so they could make their own sundials at home.

April Star Party Report (continued)

By Jerry Oltion

Many thanks to Amy Baker and Mike Curtin, who helped show people my sundials and telescope while I was working on the analemma. And thanks to everyone who showed up to enjoy the view through Dan's and my telescopes. This was a great start to what we hope is a great observing season.



Setting up for our first star party in over two years

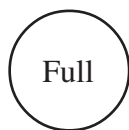
Amy Baker

**Eugene Astronomical Society
PO Box 591
Lowell, OR 97452**

Annual Club Dues \$25

EAS is a proud member of The Astronomical League.

Observing in May 2022



May 8, 5:21 PM	May 15, 9:14 PM	May 22, 11:43 AM	May 30, 4:30 AM
Mercury Set: 9:55 PM	Mercury Set: 9:15 PM	Mercury lost in Sun	Mercury Rise: 5:12 AM
Venus Rise: 4:27 AM	Venus Rise: 4:18 AM	Venus Rise: 4:09 AM	Venus Rise: 3:59 AM
Mars Rise: 3:46 AM	Mars Rise: 3:30 AM	Mars Rise: 3:14 AM	Mars Rise: 2:55 AM
Jupiter Rise: 4:09 AM	Jupiter Rise: 3:44 AM	Jupiter Rise: 3:19 AM	Jupiter Rise: 2:51 AM
Saturn Rise: 2:50 AM	Saturn Rise: 2:24 AM	Saturn Rise: 1:57 AM	Saturn Rise: 1:26 AM
Uranus lost in Sun	Uranus Rise: 5:23 AM	Uranus Rise: 4:57 AM	Uranus Rise: 4:27 AM
Neptune Rise: 3:59 AM	Neptune Rise: 3:23 AM	Neptune Rise: 3:05 AM	Neptune Rise: 2:33 AM
Pluto Rise: 1:43 AM	Pluto Rise: 1:15 AM	Pluto Rise: 00:43 AM	Pluto Rise: 00:12 AM

All times Pacific Daylight Time (March 13 – Nov 5, 2022 = UT -7 hours) or Pacific Standard Time (November 6, 2022 – March 11, 2023 = UT -8 hours)

Date	Moon Rise	Moon Set	Twilight Begin	Sun Rise	Sun Set	Twilight End
5/1/2022	06:33	21:31	03:09	06:04	20:16	22:11
5/2/2022	07:00	22:36	03:07	06:02	20:17	22:13
5/3/2022	07:32	23:39	03:05	06:01	20:18	22:15
5/4/2022	08:11		03:03	05:59	20:20	22:17
5/5/2022	08:58	00:35	03:01	05:58	20:21	22:19
5/6/2022	09:53	01:25	02:59	05:57	20:22	22:20
5/7/2022	10:53	02:07	02:57	05:56	20:23	22:22
5/8/2022	11:58	02:41	02:55	05:54	20:24	22:24
5/9/2022	13:05	03:10	02:53	05:53	20:25	22:26
5/10/2022	14:13	03:34	02:51	05:52	20:27	22:28
5/11/2022	15:22	03:56	02:49	05:51	20:28	22:30
5/12/2022	16:33	04:17	02:47	05:49	20:29	22:32
5/13/2022	17:47	04:38	02:45	05:48	20:30	22:34
5/14/2022	19:05	05:01	02:43	05:47	20:31	22:36
5/15/2022	20:26	05:28	02:41	05:46	20:32	22:38
5/16/2022	21:49	06:01	02:40	05:45	20:33	22:39
5/17/2022	23:08	06:43	02:38	05:44	20:34	22:41
5/18/2022		07:36	02:36	05:43	20:35	22:43
5/19/2022	00:17	08:43	02:34	05:42	20:36	22:45
5/20/2022	01:12	09:58	02:32	05:41	20:38	22:47
5/21/2022	01:54	11:15	02:31	05:40	20:39	22:49
5/22/2022	02:27	12:32	02:29	05:39	20:40	22:50
5/23/2022	02:53	13:45	02:27	05:38	20:41	22:52
5/24/2022	03:15	14:54	02:26	05:38	20:42	22:54
5/25/2022	03:35	16:02	02:24	05:37	20:43	22:56
5/26/2022	03:55	17:08	02:23	05:36	20:43	22:58
5/27/2022	04:15	18:14	02:21	05:35	20:44	22:59
5/28/2022	04:37	19:21	02:20	05:35	20:45	23:01
5/29/2022	05:02	20:26	02:18	05:34	20:46	23:02
5/30/2022	05:33	21:29	02:17	05:33	20:47	23:04
5/31/2022	06:09	22:28	02:16	05:33	20:48	23:06

All times are for Eugene, Oregon Latitude 44° 3' Longitude 123° 06'

Items of Interest This Month

First week of month: Mercury visible in evening after sunset.

Most of month: Comet C/2021 O3 Panstarrs could be nice in evening sky if it survives perihelion in late April.

5/1 Jupiter and Venus very close together before sunrise.

5/6 Peak of Eta Aquariid meteor shower.

5/7 Moon 3° north of Beehive Cluster.

5/15 Total Lunar Eclipse in progress at moonrise. Totality from 8:29 – 9:54 PM. Bonus stellar occultation just minutes after Moonrise. Disappearance ~8:39, reappearance ~9:08. This is a double star; there will be a two-step blink.

5/29 Mars and Jupiter very close together before sunrise.

5/30 New meteor shower possible as Earth enters the 1995 dust trail of Comet 73P/Schwassmann-Wachmann. Peak around 10:00 PM. Radiant near Arcturus.

