Eugene Astronomical Society
www.eugeneastro.org

Io

March, 2022

PO Box 591 Lowell, OR 97452

www.eugeneastro.org

[1] M78/NGC 2068 In Orion

Andy Nowlen

March Meeting

March 17, 2022 7PM

To Be Announced

(All meetings are virtual)

February Meeting

Mel Bartels gave a talk about asteroid impacts! This was a terrific talk, and you can see it at the link here:

https://youtu.be/nSY-CmBN2eA

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Annual Club Dues $25

EAS is a proud member of The Astronomical League.

Reservoir Watch

As a reminder, EAS helps patrol the College Hill Reservoir so that it stays clean and we can use it for our (hopefully soon to return) public star parties.

This is a great chance to take a short walk to help your club and do a little public service. You can see the current calendar in the link below:

https://calendar.google.com/calendar/u/0/embed?src=college.hill.reservoir@gmail.com

Please contact Jerry via email (j.oltion@gmail.com) directly with your chosen day(s) .

For those of you who haven't done it before, it's a very simple job: just walk the surface of the College Hill Reservoir (just the big fenced-in one) at any time during your chosen day and look for anything that shouldn't be there. (EWEB is mostly worried about dog poop washing through the seams, but we clean up bottles and cans and golf balls on occasion, too. Most times there's nothing but minor litter to pick up.) If you find any contaminants, remove them if possible. Likewise litter. If you find something that needs immediate EWEB attention, call EWEB security at 541-685-7911. (That number is on the sign on the gate if you don't have it in your phone.)

When you've finished your patrol, fill out the report form on our website at:

http://www.eugeneastro.org/for-members/

That form will ask for your name, email address, date, time, weather conditions, any contaminants found (report only real potential contaminants here, not just litter), and any other remarks you have (Be brief -- if you picked up litter, just say "removed litter").

The website form will send your report to Barbara Gunther, who keeps our patrol log. If you can't use the web form for some reason, send your report to Wanda directly at: barbaragunther@comcast.net

That's it! Fifteen minutes out of your day, tops, you get a nice walk, and it helps us keep the reservoir open to the public.

If you can't do a patrol on your chosen day, please let Jerry know as soon as possible.

Member astrophotography in this issue

[1] M78/NGC 2068 In Orion by Andy Nowlen

Here I have my first M78 image. It is the result of 5 sessions in January. Some sessions were short because fog rolled in. But I did manage two sessions that were long enough and dark enough to get some decent data. Along the way, I encountered a challenge with my AsiAir pro. The "GOTO" function, went, but to some unknown area of the sky. Then, I almost, maybe, possibly, enjoyed the problem-solving aspect of this hobby. Finally, I got the plate-solving issue resolved and began the captures. I am happy with the result.

Takahashi FSQ106n @ 530mm
AsiAir Pro computer
ZWO EAF
Asi533mc pro camera
Optolong L-enhance filter
loptron CEM40EC mount
Both 180 and 240-second sub-exposures.
9.7 hours integration time
Astropixel processor
Pixinsight
Photoshop

Do you have something for the newsletter?

If you have an article, photo, meeting notes, stories, etc. that you would like to share with the members, please contact me, I'd be happy to add them to the newsletter. If you have photos you would like to submit, I'm trying to include more information about the process and equipment used.

Astrophotographers: I want to offer these pages as a way to not only show off your terrific photos, but to provide us with information on how they are taken and processed. Seeing the amount of work that goes into these amazing images is always fascinating, and makes us appreciate them even more!

Bruce Sackett - bruce@busymind.net

Observing in March 2022

Mar 2, 9:35 AM	Mar 10, 2:45 AM	Mar 18, 00:17 AM	Mar 24, 10:37 AM
Mercury Rise: 6:02 AM	Mercury Rise: 6:03 AM	Mercury lost in Sun	Mercury lost in Sun
Venus Rise: 4:28 AM	Venus Rise: 4:23 AM	Venus Rise: 5:19 AM	Venus Rise: 5:15 AM
Mars Rise: 4:55 AM	Mars Rise: 4:43 AM	Mars Rise: 5:30 AM	Mars Rise: 5:19 AM
Jupiter lost in Sun	Jupiter lost in Sun	Jupiter Rise: 7:04 AM	Jupiter Rise: 6:44 AM
Saturn Rise: 5:59 AM	Saturn Rise: 5:30 AM	Saturn Rise: 6:00 AM	Saturn Rise 5:38 AM
Uranus Set: 11:09 PM	Uranus Set: 10:39 PM	Uranus Set: 11:09 PM	Uranus Set: 10:47 PM
Neptune lost in Sun	Neptune lost in Sun	Neptune lost in Sun	Neptune Rise: 6:53 AM
Pluto Rise: 5:03 AM	Pluto Rise: 4:32 AM	Pluto Rise: 5:01 AM	Pluto Rise: 4:38 AM

All times Pacific Standard Time (November 7, 2021 - March 12, 2022 = UT -8 hours) or Pacific Daylight Time (March 13 - Nov 5, 2022 = UT -7 hours)

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

Begin Daylight Savings Time

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

Items of Interest This Month

First few days of the month: Good for beginning a Messier marathon and getting almost all the objects, but you're not likely to see the last items before sunrise.

3/2 Mercury and Saturn 40 arc-minutes apart before sunrise.

3/3 Algol at minimum brightness 9:17 PM.

3/5 Jupiter in conjunction with Sun.

3/9 Moon passes 0.3° south of Ceres.

3/13: Daylight Saving Time begins 2:00 AM. Astronomers curse the late twilight. Neptune in conjunction with Sun.

3/20 Spring equinox 8:33 AM. Venus at greatest western elongation, 47° west of Sun.

3/25 Mars, Venus, and Saturn in tight triangle before dawn.

3/26 Algol at minimum brightness 8:51 PM.

3/28 Moon joins Mars, Venus, and Saturn in pre-dawn sky.

Last few days of the month: Good for finishing a Messier marathon, but you're unlikely to see the first objects.