

### The President's Corner

So, if the police ask for your alibi for the evening of March 29th, what will you have to say? Well, if you are at the Spring Star Party and Messier Marathon, you should have plenty of people to vouch for you, otherwise, you might be on your own. Just saying!

Really, I am excited about this year's event. If we get good weather we ought to have a great time. The porta-lets will be there Wednesday, I hope, and some of us hope to get out early for extra nights of observing. Come out if you can/want.

We are also providing the opportunity for those who can't make Saturday, but can Friday, to attempt the marathon Friday night and still get counted for their effort. We additionally hope all will attend the swap meet. Bring your gently used astronomy gear you want to barter with. Then the raffle will take place and there should be some nice stuff to try for, feel free to donate items also. Remember, the raffle and meal help defray the cost of the port-a-lets. As I mentioned, we will once again have a tasty and inexpensive meal available for those attending to purchase.

During the day, there might be some noise in the area if the quarry at the turnoff to the site is active, which they have been recently during the day and into the early evening. But I do not expect them to be an issue during our observing. I do want to remind all about the road to the site. With the recent heavy truck traffic and rain (if they got any out there), the road might be rougher than normal and care should be taken during your drive. The road is frequently traveled by people headed to and from Salome, so it is still good enough for pretty much all vehicles, although I would not want to drive my Ferrari on it. (OK, I don't have a Ferrari, but that is just an example.)

And not to be a broken record, but this needs saying, if you have not paid your dues for 2025, please do so. Also, let the newsletter editor, Rick Rotramel, know what you have been up to astronomy-wise, and he might add it in. If you have done something you want to present to the group at a meeting let our VP Lori Prause know and you will be added to the meeting agenda.

The ATM group is meeting again in Paul Lind's garage so look for his email announcements and prepare to grind!

OK, let's get ready to observe. Clear skies all.

Tom Curry, SAC President



Photo by: Susan Trask



SAC on Facebook SAC has a Facebook moderator! Mike Willmoth

#### **Quick Calendar**

At the clubhouse, 3030 Mission Ln, Phoenix, AZ:

Friday, March 14th, SAC General Meeting. 7pm Guest speaker - Patrick Kamieneski,

Speaker topic: " TBA

### **Inside this** issue:

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(Rick Rotramel)

#### Such-A-Deal 3-4

Four old ads, check them out.

#### Bits & Pisces:

SAC Board Meeting Minutes (Michael Poppre) SAC Meeting Minutes (Michael Poppre)

#### 7-13 SAC Observing

The Astronomical Calendar © 2025 by Guy Ottewell SAC Outreach: Mercury Mine Elementary, Feb 4th (Lori Prause)

SAC Sky 14

#### SAC Officers/Chairs 15

(Board Meetings, Meeting Location, etc.) & Occultation Info)

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With PayPal Link (Via the SAC website)

Header image © 2000-2013 Stellarium Developers

\* Scorpius setting in the southwest.

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**March 2025** 

## **Editor Notes**



Hi Folks,

Such-A-Deal has four old ads.

*Bits & Pisces* has the minutes of the Feb. 7th SAC Board and general meetings reported by SAC Secretary Michael Poppre.

*SAC Observing* has info on the upcoming Messier Marathon and sky info for the month.

*SAC Outreach* has a report on the event at the Mercury Mine Elementary School on Tuesday, February 4<sup>th</sup>, by Lori Prause.

*SAC Sky* has info on the stars and planet locations this month for you all.

Enjoy,

Rick Rotramel



< Left: SAC Webmaster, Terry Shay





Right: SAC ATM Leader, Paul Lind >

Photos: Susan Trask

### **SAC-Forum Email Discussion Group**

Join this email discussion group for all SAC business and newsletter release notifications.

Go to Groups.io, search for the group SAC-Forum (or "SAC Forum"). Click on the button down the page to join the group. Your application will be accepted in a day or so by the moderators. Alternatively, send an email to

SAC-forum+subscribe@groups.io.

After your membership is set, go to the Subscription tab on the left. Set your preference as to how you should receive messages.

For help, email SAC-forum+help@groups.io

### Schedule of Events 2025

## SAC General Meetings

Jan. 10	Feb. 7	March 14	April 11
May 9	<del>June</del> No Mtg.	<del>July 11</del> No Mtg.	August 8 No Mtg.
Sept. 5	Oct. 3	Nov. 7	Xmas Prty Dec, TBD

\* Saturday dates are at Thunderbird Park Public Star Parties, Glendale, AZ

Meetings held at the Heritage Heights Clubhouse

3030 E Mission Ln, Phoenix, AZ

(SE of State Route 51 and 32nd Street)

Meeting time: 7:00 PM

View video recordings of the **past** Zoom meetings here:

https://www.youtube.com/channel/UCEKTfl0gwebABZ XwKbhe9oA

### Messier Marathon / Spring Star Party

Dates: Fri. & Sat, March 28 & 29, @ the Hovatter North Site plus:

Saturday Only: Swap Meet, Dinner & Raffle

Spring Thunderbird Park Public Star Party

Date: TBA TBird Park, Glendale, AZ

### Grand Canyon North Rim Star Party

Dates: June 21-28, Steve Rottas, Coordinator

(Email; gcnrspcoordinator@saguaro.org)

(Web: saguaroastro.org click on "Events")

### **SAC Officers**

Photos: Susan Trask(2), Tom Curry(2)



President: Tom Curry >

Vice President: Lori Prause and Treasurer, Mitch Prause



Secretary: Michael Poppre >



Properties Director: Ken Milward >

### Such-A- Deal

Ads placed here are free to SAC members and friends. SAC is not responsible for the quality of the items. If you wish to place an ad here to sell your telescope or an astronomy related items, contact the editor at

mailto:rrotramel601@gmail.com

#### **Telescope Equipment For Sale**

\* Ads on this page were submitted through the SAC Website

#### Meade 8" LS8-8ACF

- ACF (Advance Coma Free) optics with UHTC coatings (Ultra High Transmission Coatings)
- LightSwitch Technology: Once the scope is turned on, it permits the scope to automatically level itself and find north (Meade calls this Level/North Technology), then with the use of its internal ECLIPSE CCD camera and on board GPS, alight itself to the night sky without any user intervention. The steps are simple, flip the switch. Once the scope is turned on, you're greeted by the "Astronomer Inside". The "Astronomer Inside" gives you a brief introduction to the LS 8, and informs you of each and every step of the way during the alignment process.
- Eyepieces: Meade 8.8mm and 24mm UWA Series 5000, 82° apparent field of view
- Tele Vue Qwik Point Finderscope
- Tripod
- 602 736-9221
- I'm near 7th St. and Thunderbird. Buyers pick up.
- \$ Best Offer \$

Email Contact - Click Link Below:

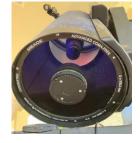
mailto:lorraine.drobny@cox.net

Lorraine Drobny

602 736-9221









#### Orion 80mm ED Refractor with case

- Orion 80mm, f/7. 5, F.L. 600mm Telescope
- With hard case
- \$ Best Offer \$

Lorraine Drobny, 602 736-9221 <a href="mailto:lorraine.drobny@cox.net">lorraine.drobny@cox.net</a>





## Celestron Focus Motor, Meade Imager, Eyepieces & Misc. Attachments

- Focus Motor for SCT and EdgeHD Telescopes Sold!
- Several Eyepieces and Misc. attachments Sold!
- Meade Flip Mirror System, Model 644 Sold!
- Meade Deep Sky Imager, Mono CCD Camera
  - \$ Best Offer \$
- Lorraine Drobny , 602 736-9221

lorraine.drobny@cox.net



### Such-A- Deal

Ads placed here are free to SAC members and friends. SAC is not responsible for the quality of the items. If you wish to place an ad here to sell your telescope or an astronomy related items, contact the editor at

mailto:rrotramel601@gmail.com

#### **Telescope For Sale:**

### Vintage Unitron 60mm f15 Telescope

- OTA with four eyepieces, rotating eyepiece mount, barlow, finderscope and wooden carrying case.
- <u>WITH</u> tripod.
- "I think it is the 114 model from the late 1950's or early 1960's with the original box..."
- Paul Jorgenson KE7HR
- Email Contact: ke7hr@cox.net
- Asking \$250.00





**Correction**: In the January 2025 issue, the "Sold" sign was placed incorrectly here.

### **Bits and Pisces**

# Minutes of the February 7th SAC Board Meeting

### Submitted by club Secretary Michael Poppre

- BOD members present: Tom Curry, Pres, Lori Prause, V. Pres, Mitch Prause, Treas, Michael Poppre, Sec; Others: Terry Shay, Webmaster
- Meeting opened at 6:00 pm by Tom Curry.
- Terry Shay reported the website renewal will be up in May. He was not sure of the renewal cost but reported the renewal three years ago was \$250. The payment is good for three years.
- Discussion then switched to the upcoming Messier Marathon.
- Lori reported plans for the dinner were underway (possibly pulled pork sandwiches). Also she presented a design for T-shirts this year. The design was reviewed and approved. Both items will be pre-ordered on-line by participants.
- The board decided to allow MM participants to try and observe objects on both
   Friday and Saturday nights to maximize opportunity to see all 110. However, only one object list will be accepted and that cannot be a composite list from both nights.
- Tom Curry is arranging for port-a-potties from River Septic.
- Michael Poppre agreed to revise the date on the waiver to 2025.
- Michael Poppre agreed to post a notice about the MM on the <u>Cloudy Nights website</u>.
   (Completed)
- Ken Milward will arrange for raffle prizes.
- BOD meeting was adjourned at 6:47pm.

### **Bits and Pisces**

## Minutes of the February 7th SAC General Meeting

### Submitted by club Secretary Michael Poppre

- President Tom Curry opened the meeting at 7:03 pm.
- There were 22 attendees.
- Tom gave a short recap of plans for the March Messier Marathon including dinner, raffle, and the
  return of T-shirts. He also requested items needed from the membership including tables and
  canopies. Many members indicated they could help with those items.
- Steve Rottas reported a free podcast is available to SAC members from Dean Regas and Keven Schindler. Details were sent out via the SAC-Forum email list.
- Tom reported the recent outreach event at the Mercury Mine School was a great success with six scopes set up and many school children and their families attending. He also stated the district administration was impressed with the event and that this could lead to events at other schools in the district.
- Mitch Prause gave the treasury report and indicated SAC has a total balance of \$3,548 with so far 24 paid members to date.
- Paul Lind reported on activities for the ATM group which was to have a meeting the week following this meeting. He said the main project is the grinding of an 8" mirror blank.
- Lori Prause then introduced the main speaker for the evening, SAC's own Tom Polakis. Tom gave a very informative (and entertaining) talk, "All about Asteroids". This included a history of asteroid discoveries, the naming conventions (yes, there are in fact, two asteroids named Polakis), the orbital and physical characteristics and ways that asteroids are imaged both visually and with radar.
- The meeting was adjourned approximately 9:00 pm.



SAC Observing

### ARIZONA SPRING STAR PARTY & MESSIER MARATHON

The hunt for 110 objects is on!

Friday & Saturday, March 28 & 29th, 2025

All those that would like to camp in the desert and enjoy dark skies are invited to attend.

If you wish to join the Marathon, you can choose Friday or Saturday night.

Location: Approximately 90 miles west of Phoenix. Take the I-10 towards Los Angeles and take the Hovatter Rd. exit.

Go right (north) from there and follow the signs for approximately 3.5 miles.

Porta-potties will be provided.

- Saturday 1:00 4:30 pm Swap Meet- bring your old gear
- Saturday 4:30 pm <u>Raffle</u> for prizes-
- Saturday ~ 5:00 pm <u>Dinner</u> \$8.00 (pre-order by March 24th)
- Messier Marathon <u>T-shirt sales</u> (pre-order by March 10th) <u>See next page for sizes & cost.</u>

## See following pages for details.



## Sponsored by the Saguaro Astronomy Club, Phoenix, AZ

Questions? Email: president@saguaroastro.org

## MESSIER MARATHON T-SHIRT ORDERS



The shirts will be printed on good quality fabric in Sedona dirt color. See the next page for detail.

Price: Sizes S- XL \$18

Size 2XL \$21

Size 3XL \$23

Tax included

#### Order form, click here

#### https://forms.gle/2Do87W3nSJA1scEJA

Please make payment no later than March 10, 2025. You can send money by Zelle to 480-323-8680 Mitch Prause or Venmo @Lori-Prause. If you wish to pay by check we must <u>receive</u> your payment by March 10th

Mail to:

Lori Prause

8441 W Foothill Dr

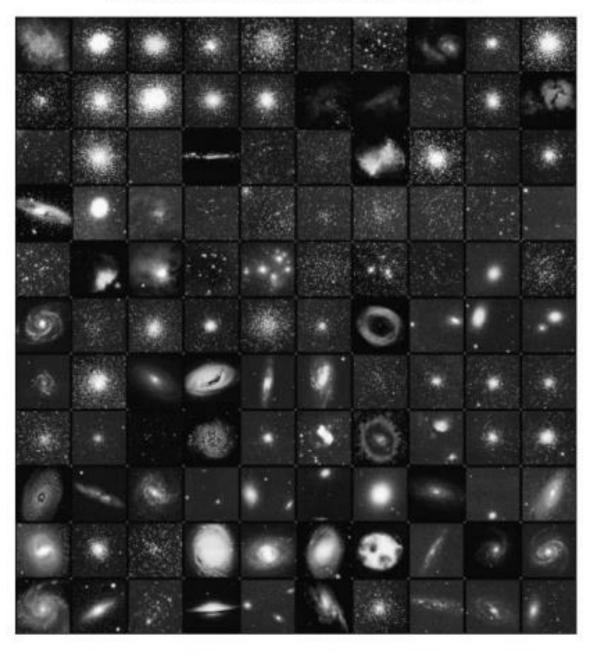
Peoria, AZ 85383

### https://forms.gle/2Do87W3nSJA1scEJA



# Detail on the back of the shirt.

# **Ultimate Hide and Seek**



Arizona Messier Marathon 2025

## **SAC Outreach**

# Mercury Mine Elementary School, Tuesday, Feb.4th, 5:30-9 pm

### Submitted by: Lori Prause, SAC Vice President



Steve Rottas



Rheta Peiser & Mitch Prause



Robert Tong and wife



Terry Shay



**Kids & Parents** 



Orion Nebula, M42



Tom Curry

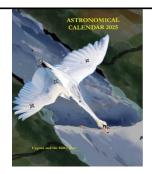


**Kids & Parents** 

**March 2025** 

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### SAC Observing



## ASTRONOMICAL CALENDAR

2025

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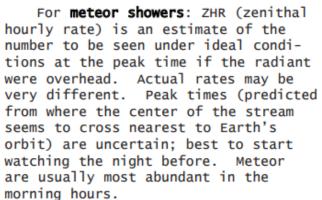
The left column gives Julian Dates (number of days from 4713 B.C. Jan. 1 noon), useful for finding time spans between events by subtraction. The first 3 digits of the Julian date (245) are omitted, to save space.

Hours and minutes, where given, are in Universal Time. (Sometimes the hour appears as "24" or the minute as "60," because the instant was shortly before the end of the day or hour.)

Occasions such as "Moon 1.25° NNE of Venus" are **appulses**: closest apparent approaches. They are slightly different from conjunctions, when one passes north of the other as measured in right ascension or in ecliptic longitude. A quasi-conjunction is an appulse without a conjunction, and typically happens when a planet is near its stationary moment.

Occasions when three bodies are within a circle of small size are

"trios." Like appulses, they are most interesting when the bodies are bright and are not at small elongation from the Sun.



Tell me of errors you notice.
It's hard to check the accuracy of every detail, but errors are more easily corrected here than in the former printed Astronomical Calendars!

universalworkshop.com/contact This calendar may be subject to improvement. Come back to it!

Explanation of terms can be found in our glossary book *Albedo to Zodiac*. There is more about each kind of event in *The Astronomical Companion*. And events in this list can be traced in the large *Zodiac Wavy Chart* for the year.

For all these, see universalworkshop.com



# SAC Observing

					2025 MARCH
0735.5	Mar	1	SAT		1st day of Ramadan (1446 A.H.)
0735.708	Mar	1	SAT	5	Moon 0.47° ESE of Mercury; 16° from Sun in evening sky; magnitudes -5.7 and -1.0
0735.736	Mar	1	SAT	6	Moon at ascending node; longitude 357.4°
0735.842	Mar	- i	SAT	8	Moon, Mercury, and Neptune within circle of diameter 2.59°;
					about 17° from the Sun in the evening sky; magnitudes -6, -1,
0735.854	Mar	1	SAT	9	Moon 1.44° NNW of Neptune; 18° from Sun in evening sky; magnitudes -5.9 and 8.0
0736.389	Mar	1	SAT	21:20	Moon at perigee; distance 56.75 Earth-radii
0736.527	Mar	2	SUN	1	Venus stationary in longitude; starts retrograde motion
0736.688	Mar	2	SUN	5	Moon 5.7° SE of Venus; 30° from Sun in evening sky; magnitudes -6.9 and -4.6
0737.021	Mar	2	SUN	13	Mercury 1.84° NNW of Neptune; 17° from Sun in evening sky; magnitudes -0.9 and 8.0
0737.259	Mar	2	SUN	18	Jupiter at east quadrature, 90° from the Sun
0739.069	Mar		Tue	14	Mercury at perihelion; 0.3075 AU from the Sun
0739.5	Mar		Wed	-	Ash Wednesday
0739.583	Mar	5	Wed	2	Moon 4.6° NNW of Uranus; 69° from Sun in evening sky; mag- nitudes -9.3 and 5.8
0740.063	Mar	5	Wed	14	Moon 0.70° N of Pleiades; 75° from Sun in evening sky
0740.938	Mar	6	Thu	11	Moon 5.5° N of Jupiter; 87° from Sun in evening sky; magni-
0740.550	ividi		ma		tudes -10.1 and -2.3
0741.189	Mar	6	Thu	16:32	First quarter Moon
0742.167	Mar	7	Fri	16	Moon at northernmost declination in year, 28.71°
0742.375	Mar	7	Fri	21	Moon 4.4° N of M35 cluster; 105° from Sun in evening sky; magnitudes -10.7 and 5.3
0742.751	Mar	8	SAT	6	Mercury at easternmost elongation; 18.3° from Sun in evening sky; magnitude -0.3
0743.5	Mar	9	SUN		Clocks forward 1 hour (America)
0743.563	Mar	9	SUN	2	Moon 1.67° NNE of Mars; 119° from Sun in evening sky; mag-
					nitudes -11.1 and -0.1
0743.750	Mar	9	SUN	6	Moon 5.3° S of Castor; 122° and 121° from Sun in evening sky magnitudes -11.2 and 1.5
0743.979	Mar	9	SUN	12	Moon 1.96° S of Pollux; 125° and 124° from Sun in evening
0744.147	Mar	9	SUN	10	sky; magnitudes -11.2 and 1.2  Mars at northernmost latitude from the ecliptic plane, 1.8°
0744.147	Mar	10		14	Moon 2.74° NNE of Beehive Cluster; 138° and 137° from Sun
0745.063	IVIAI	10	MOH	14	in evening sky; magnitudes -11.6 and 3.7
0746.496	Mar	11	Tue	24	Sun enters Pisces, at longitude 351.66° on the ecliptic
0746.496	Mar	12		9	Moon 1.96° NNE of Regulus; 158° from Sun in evening sky;
5140.013	· · · · ·	12	******	9	magnitudes -12.1 and 1.4
0746.938	Mar	12	Wed	11	Saturn at conjunction with the Sun; 10.602 AU from Earth; lati- tude -2.11°
0747.271	Mar	12	Wed	19	Mercury 5.5° SE of Venus; 17° and 18° from Sun in evening sky; magnitudes 0.6 and -4.3
0747.829	Mar	13	Thu	8	Venus at northernmost latitude from the ecliptic plane, 3.4°
0748.788	Mar	-	Fri	6:55	Full Moon; total eclipse of the Moon
0749.075	Mar	14		14	Moon at descending node; longitude 177.4°
0749.276	Mar		Fri	19	Mercury at northernmost latitude from the ecliptic plane, 7.0°

Continued next page...

# SAC Observing

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	0749.358	Mar	14	Fri	21	Mercury stationary in right ascension; starts retrograde motion
	0749.780	Mar	15	SAT	7	Mercury stationary in longitude; starts retrograde motion
	0751.333	Mar	16	SUN	20	Moon 0.37° S of Spica; 152° from Sun in morning sky; magni-
						tudes -11.9 and 1.0
	0751.5	Mar	17	Mon	0:00	Day and night equal, at latitude 40° north
	0751.5	Mar	17	Mon		St. Patrick's Day
	0752.185	Mar	17	Mon	16	Moon at apogee; distance 63.62 Earth-radii
	0752.335	Mar	17	Mon	20	Middle of eclipse season: Sun is at same longitude as Moon's
						ascending node, 357.5°
	0752.583	Mar	18	Tue	2	Mars 7.1° SSW of Castor; 112° from Sun in evening sky; mag-
						nitudes 0.1 and 1.5
	0754.476	Mar	19	Wed	23	Neptune at conjunction with the Sun; 30.888 AU from Earth;
						latitude -1.30°
	0754.874	Mar	20	Thu	8:59	March or vernal (northern spring) equinox
	0754.874	Mar		Thu	8:59	Sun enters the astrological sign Aries, i.e. its longitude is 0°
	0755.208	Mar	20	Thu	17	Moon 0.54° SE of Antares; 110° from Sun in morning sky; mag-
					_	nitudes -10.7 and 1.0
	0756.792	Mar		SAT		Moon at southernmost declination in year, -28.72°
	0756.980	Mar			11:31	
	0757.547	Mar	23	SUN	1	Venus at inferior conjunction with the Sun; 0.281 AU from
	0757.792	Mar	22	SUN	7	Earth; latitude 3.27° Mean shows maximum libration for the year 0.96°
	0757.792	Mar		Mon		Moon shows maximum libration for the year, 9.86°  Mercury at inferior conjunction with the Sun; 0.606 AU from
	0/59.322	Mai	24	MOH	20	Earth; latitude 4.90°
	0762.979	Mar	28	Fri	12	Moon 1.66° NNW of Saturn; 14° from Sun in morning sky; mag-
	0702.070	IVICII	20		12	nitudes -5.5 and 1.2
	0763,186	Mar	28	Fri	16	Moon at ascending node; longitude 357.4°
	0763.354	Mar		Fri	21	Mercury 5.7° SE of Venus; 8° and 12° from Sun in morning sky;
	0.00.00					magnitudes 3.9 and -4.1
	0763.375	Mar	28	Fri	21	Moon 7.6° SE of Venus; 8° and 12° from Sun in morning sky;
						magnitudes -4.9 and -4.1
	0763.375	Mar	28	Fri	21	Moon 1.55° NNW of Neptune; 8° and 9° from Sun in morning
						sky; magnitudes -4.9 and 8.0
	0763.458	Mar	28	Fri	23	Moon 2.09° SE of Mercury; 7° and 8° from Sun in morning sky;
						magnitudes -4.8 and 3.9
	0763.5	Mar	29	SAT	0	Moon, Mercury, and Neptune within circle of diameter 3.74°;
						about 8° from the Sun in the morning sky; magnitudes -5, 4, 8
	0763.958	Mar	29	SAT	10:59	New Moon; beginning of lunation 1265; partial eclipse of the
						Sun
	0764.5	Mar	30	SUN		Clocks forward 1 hour (Britain)
	0764.723	Mar	30	SUN	5:21	Moon at perigee; distance 56.15 Earth-radii; only 18.4 hours
						after new Moon
	0765.417	Mar	30	SUN	22	Mars 4.0° SSW of Pollux; 103° from Sun in evening sky; magni-
	0766 222	Mor	24	Mor	20	tudes 0.4 and 1.2
	0766.333	Mar	31	Mon	20	Mercury 3.2° NW of Neptune; 13° and 11° from Sun in morning sky; magnitudes 2.9 and 8.0; quasi-conjunction
						sky, magnitudes 2.9 and 6.0; quasi-conjunction

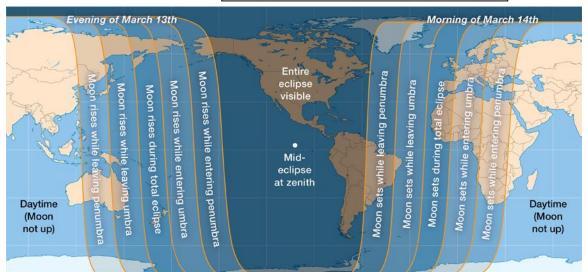
## Page 14

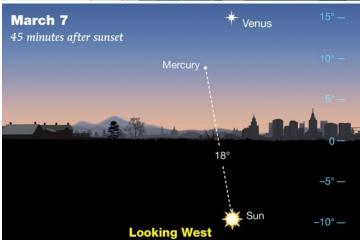
# Saguaro Skies

SAC Sky

"...total lunar eclipse on March 13–14, 2025...on the West Cost, totality starts late on Thursday, the 13th, at 11:26 p.m."

Leah Tiscione / Sky & Telescope







From Sky & Telescope; Copyright © 2025 AAS Sky Publishing LLC. All rights reserved.





### **2025 SAC Officers and Contacts**

#### **Board Members**

President Tom Curry mail to: president@saguaroastro.org)

Vice-President Lori Prause

Treasurer Mitch Prause mailto:treasurer@saguaroastro.org

Secretary Michael Poppre

Properties Ken Milward mailto:properties@saguaroastro.org)

#### **Non-board Positions**

Novice Leader Steve Dodder (mail to:fester00@hotmail.com)

Newsletter Rick Rotramel (mail to:rrotramel601@gmail.com)

Webmaster Terry Shay mail to:webmaster@saguaroastro.org)

Meeting Location: The Clubhouse, 7:00 PM, 3030 E. Mission Lane.

#### Phoenix, AZ



### **Contacting This Issue's Authors**

If you wish to write to an author in this month's issue, contact them by sending your message to the editor of Saguaro Skies, Rick Rotramel, at:  $\frac{1}{100} \frac{1}{100} \frac{1}{100$ 

I will then forward your questions or comments to the author.

### 2025 Board Mtgs:

Board meetings will be called by the SAC President and will contact the board members for the meeting time and date.

### Saguaro Astronomy Club

Saguaro Astronomy Club (SAC), Phoenix, Arizona, was formed in 1977 to promote fellowship and the exchange of scientific information among its members-amateur astronomers. SAC meets monthly for both general meetings and star parties, and regularly conducts and supports public programs on astronomy. Membership is open to anyone with these interests.

Saguaro Skies is posted as a pdf file monthly on the SAC website,

https://www.saguaroastro.org/newsletter/

for browsing or downloading for SAC members and friends of SAC. A email announcement of the monthly newsletter release is included with membership.

Direct all membership inquiries to the SAC Treasurer by using the membership form found in this newsletter. For editorial and SUCH-A-DEAL advertising inquiries, contact the Saguaro Skies Editor.

#### Saguaro Skies Staff

Editor: Rick Rotramel; Photographers: Tom Curry, Sandy Milward, Tom Polakis, Michael Poppre, Rick Rotramel and Susan Trask.

2013-2025 Contributors: Bob Christ, Mike Collins, AJ Crayon, Tom Curry, Paul Dickson, David Dillmore, Steve Dodder, Richard Harshaw, Dean Ketelsen, Kevin Kozel, Joan McGue, Sandy Milward, Andrew Perry, Tom & Jennifer Polakis, Michael Poppre, Jimmy Ray, Rick Rotramel, Steve Rottas, SAC Imagers & Observers

# Saguaro Astronomy Club Membership Services

Membership Memberships are for the calendar Jan - Mar: 100%; Apr - Jun: 75%; Jul - Sep: 50%; ☐ \$32.00 Individual Membership ☐ \$36.00 Family Membership	Oct - Dec 25%.
Note: You can now pay with PayF Website. Click Below: PayPar https://www.saguaroastro.org/jc	
Please print all information legibly  Date: For the year of: 20  Name: Address:  City:	Make check payable to: SAC  Please bring your completed form to a meeting or mail it with payment to:  Mitch Prause
State: Zip Code: Phone: Email: Check here if this is updated information	8441 W. Foothill Dr. Peoria, AZ 85383