



The Newsletter of the Kern Astronomical Society No. 575 August 2023

KAS Open Meeting

***First Friday of
Every Month***

[Round Table Pizza,](#)
4200 Gosford Road,
Suite 101, Bakersfield, CA

Dinner & Social 6:30 pm
Meeting/Program 7:30 pm

Our regular monthly meeting will be held on August 4th at Round Table Pizza at 4200 Gosford Road.

Join us on Facebook: <https://www.facebook.com/groups/syzygy/>

Visit our Web Page at <https://www.kernastro.org>

Contact us at kernastronomicalsociety@gmail.com



Reach for the Stars



Upcoming Programs

August – TBD

August – Nominations open for Club Officers. Election will be held at the Sept meeting.

September – Election of Club Officers

September – TBD

October – TBD

Upcoming Events

August 12 – KAS Perseid meteor shower overnight star party at Chuchupate.

August 19 – New moon star party at Chuchupate.

August 26 – Possible solar viewing at Buena Vista Museum

Look for more information on these events on the club Facebook page and in your e-mail. Also, Darren will be providing details at our August meeting.

Election of Club Officers

Per Article III Section 3 of our Constitution, the annual election of club officers will take place at the September meeting. Nominations will open at the August meeting. It is acceptable to self-nominate. The following positions are filled by election: President, Vice President, Secretary, Treasurer, and Star Party / Events Coordinator. All of these positions are eligible to be co-chaired (duties shared) which is a great way to get involved in the club.

Note: Members at Large are appointed by the President and other non-elected positions including Newsletter Editor and Webmaster are by volunteer.



The Sequoia Dark Sky Festival will be held on September 9. More information is available at <https://www.sequoiaparksconservancy.org/darkskyfestival-547103.html>.



Perseid Meteor Shower Overnight Star Party

We are fortunate this year to have the Perseid Meteor Shower fall on a Saturday night (August 12 / 13). The club is planning for an all night star / meteor party at our regular spot (Chuchupate – Frazier Mountain Trailhead). Get there early as you can expect a full parking lot. Detailed information will be provided at the August meeting.

From the Editor:

August is just about the perfect month for an all night long star party. And for 2023, August is packed with all sorts of fun easy to observe astronomical events. The month starts off with a Supermoon on August 1st with the moon at perigee (closest to Earth) at 11 pm. Then the Perseid Meteor Shower will reach its peak on the night of August 12 / 13 which just happens to be a near moonless Saturday night ! The Perseids are made of tiny space debris from the comet Swift-Tuttle and are named after the constellation Perseus because the direction, or radiant, from which the shower seems to come from in the sky lies in the same direction as the constellation Perseus. At maximum we can expect to see from 60 to 100 meteors an hour. Near midnight the Milky Way will stretch across the sky from the tail of Scorpio in the southwest to Perseus rising in the northeast. Should be a great photo opportunity with the chance to catch a meteor. On August 13th Venus passes through inferior conjunction (between earth and the sun) and quickly moves into the morning sky becoming easily visible by the end of the month. Then on the night of August 24th, the first quarter moon occults the bright star Antares. This is best viewed through a telescope. Unfortunately the occultation (disappearance) begins before sunset for west coast viewers but re-appearance happens near 7:44 P.M. when Antares will re-appear on the bright side of the moon. All month Saturn is visible throughout the night (reaching opposition on the 27th) and Jupiter is well placed for viewing in the east rising around midnight. And as the wee hours after midnight progress all of our favorite winter constellations begin rising including Orion and just before dawn and you might even get a glimpse of the star Sirius. Then on the night of August 30th we have a second full supermoon occurring just after sunset and only 9.6 hrs after perigee. Let's hope for clear skies !

The Evening Sky Map

FREE* EACH MONTH FOR YOU TO EXPLORE, LEARN & ENJOY THE NIGHT SKY

Sky Calendar – August 2023

- 1 Full Moon at 18:32 UT. The first of two Full Moons this month.
- 2 Moon at perigee (closest to Earth) at 5:58 UT (distance 357,311km; angular size 33.4'). Only 11.4 hours after Full Moon.
- 3 Moon near Saturn at 13h UT (morning sky). Mag. 0.6.
- 8 Moon near Jupiter at 9h UT (morning sky). Mag. -2.4.
- 8 Last Quarter Moon at 10:29 UT.
- 9 Moon near the Pleiades at 15h UT (morning sky).
- 10 Mercury at greatest elongation east at 2h UT (27° from Sun, evening sky). Mag. 0.4.
- 13 Perseid meteor shower peaks at 7h UT. Peak lasts about 12 hours. Active from July 14 to September 1. Produces swift, bright meteors (50-75 per hour) with persistent trains. Best viewed after midnight. Excellent viewing conditions in 2023.
- 13 Mercury 4.7° WSW of Mars at 8h UT (31° from Sun, evening sky). Mags. 0.5 and 1.8.
- 13 Venus at inferior conjunction with the Sun at 11h UT. The brightest planet passes into the morning sky.
- 16 New Moon at 9:38 UT. Start of lunation 1245.
- 16 Moon at apogee (farthest from Earth) at 12h UT (distance 406,635km; angular size 29.4').
- 18 Moon near Mercury at 19h UT (evening sky). Mag. 0.8.
- 19 Moon near Mars at 2h UT (evening sky). Mag. 1.8.
- 21 Moon near Spica at 13h UT (evening sky).
- 24 First Quarter Moon at 9:57 UT.
- 25 Moon near Antares at 3h UT (evening sky). Occultation visible from USA and southern Canada.
- 27 Saturn at opposition (opposite the Sun) at 8h UT. The planet is at its closest and brightest at Mag. 0.4. Saturn's rings are visible even in a small telescope.
- 30 Moon at perigee (closest to Earth) at 16:00 UT (distance 357,181km; angular size 33.5'). Only 9.6 hours before Full Moon.
- 30 Moon near Saturn at 21h UT (midnight sky). Mag. 0.4.
- 31 Full Moon at 1:36 UT. A Blue Moon and the closest Supermoon in 2023.

More sky events and links at <http://Skymaps.com/skycalendar/>

All times in Universal Time (UT). (USA Eastern Daylight Time = UT - 4 hours.)



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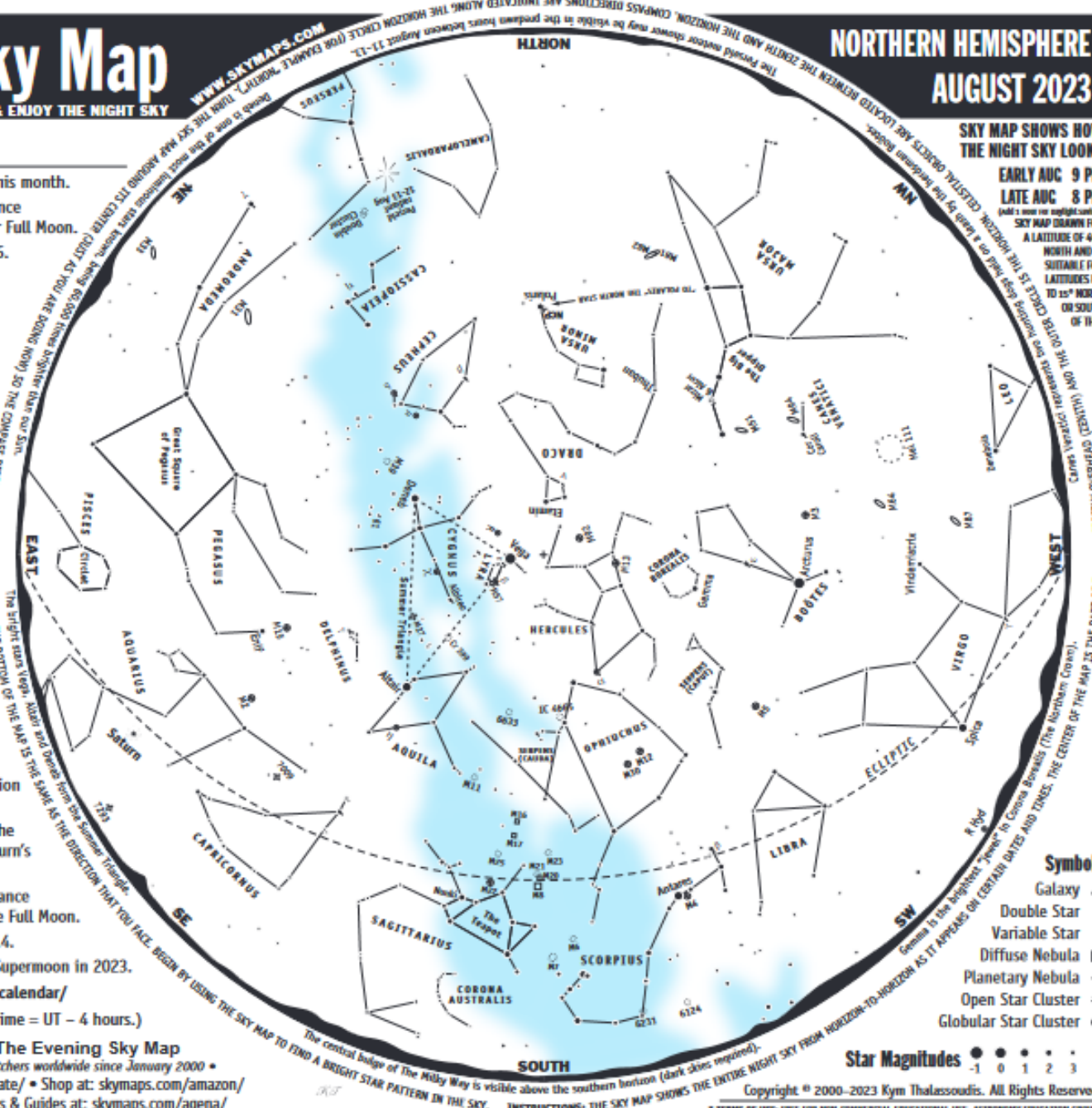
NORTHERN HEMISPHERE AUGUST 2023

SKY MAP SHOWS HOW
THE NIGHT SKY LOOKS

EARLY AUG 9 PM

LATE AUG 8 PM

(Add 1 hour for daylight saving)
 SKY MAP DRAWN FOR
 A LATITUDE OF 40°
 NORTH AND IS
 SUITABLE FOR
 LATITUDES UP
 TO 15° NORTH
 OR SOUTH
 OF THIS



Symbols

- Galaxy
- Double Star
- Variable Star
- Diffuse Nebula
- Planetary Nebula
- Open Star Cluster
- Globular Star Cluster

Star Magnitudes -1 0 1 2 3 4

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Kern Astronomical Society InfoShare

Since 1956, the Kern Astronomical Society has promoted community awareness of current events in astronomy, and provides a forum for sharing of knowledge and experiences among amateur astronomers. Annual membership is \$25.00 which also provides membership in the Amateur Astronomical League, access to their newsletter (Reflector Magazine), and participation in observational programs.

Star Parties and Outreach

The Kern Astronomical Society typically has two Club Star Parties each month depending on the weather. Our Club Parties are held on Saturdays nearest the New Moon. We also host Public Star Parties at various locations around town during April - October. These parties are held on Saturdays nearest the first quarter Moon. In addition, we also host Lunar, Solar, and Planetary viewing for Public Schools. Requests may be directed to our Star Party Coordinator.

Club Equipment

The Kern Astronomical Society has telescopes and accessories (listed below) available for loan to Club Members in good standing. Members are encouraged to borrow the different types of telescopes in stock (especially if you are considering purchasing one). Trying out different sizes and types of telescopes can help you make an informed decision about purchases. If you have a Club telescope in your possession, you will be expected to participate in at least one public star party.

- 6" f/6, 8" f/6, 10" f/5.6, 13" f/4.5 Dobsonian telescopes, Parks Jovian 90, 3 ½" f/13 Maksukov-Cassegrain, 4" f/15 Unitron Refractor
- 8" Solar Filter
- Assorted eyepieces

Privileges and Benefits of Membership in the Kern Astronomical Society

- 1) Hold an elected position as an Officer or Board Member in the Society
- 2) Vote in the election process and on business at meetings
- 3) Go on sponsored field trips to various astronomy related events (i.e. Mt Wilson Observatory, Panamint Springs Dark Sky, etc.)
- 4) Membership in the Astronomical League which includes subscription to Reflector Magazine
- 5) Discount for Sky and Telescope Magazine
- 6) Access/use of club telescopes and related equipment / Help with use of equipment by members
- 7) You are covered under the Society's insurance at related events

KAS Club Officers/Board Members

President:	Gregg Pytlak	gpytlak@yahoo.com
Vice President:	Diane Franco	dianef02@yahoo.com
Secretary	Rod Guice	stargazer10000@gmail.com
Star Party / Event Coordinator	Darren Bly	dcbly@bak.rr.com
Member at Large	John Hester	jh191623@gmail.com
Member at Large	Darrell Miller	dgm2@yahoo.com
Educational Committee Chair		
Educational Youth Ambassador		
Newsletter Editor	Timothy Stoner	desert_enduro@hotmail.com
Webmaster	Ivan Aburto	ivanaburto88@gmail.com

Kern Astronomical Society

New Membership/Renewal 2023

Date: _____

Name: _____

Family Members: _____

Address: _____

City, State, Zip: _____

Phone: _____

Email:** _____

My check # _____ in the amount of \$ _____ is enclosed.

Yearly Membership \$25

Make checks payable to: KAS (or) Kern Astronomical Society

You can also mail this form and check to:

Kern Astronomical Society
5501 Stockdale Hwy #10241
Bakersfield, CA 93389

** Please provide the email address where you wish to receive the KAS newsletter (if different than above)

"SYZYGY": _____