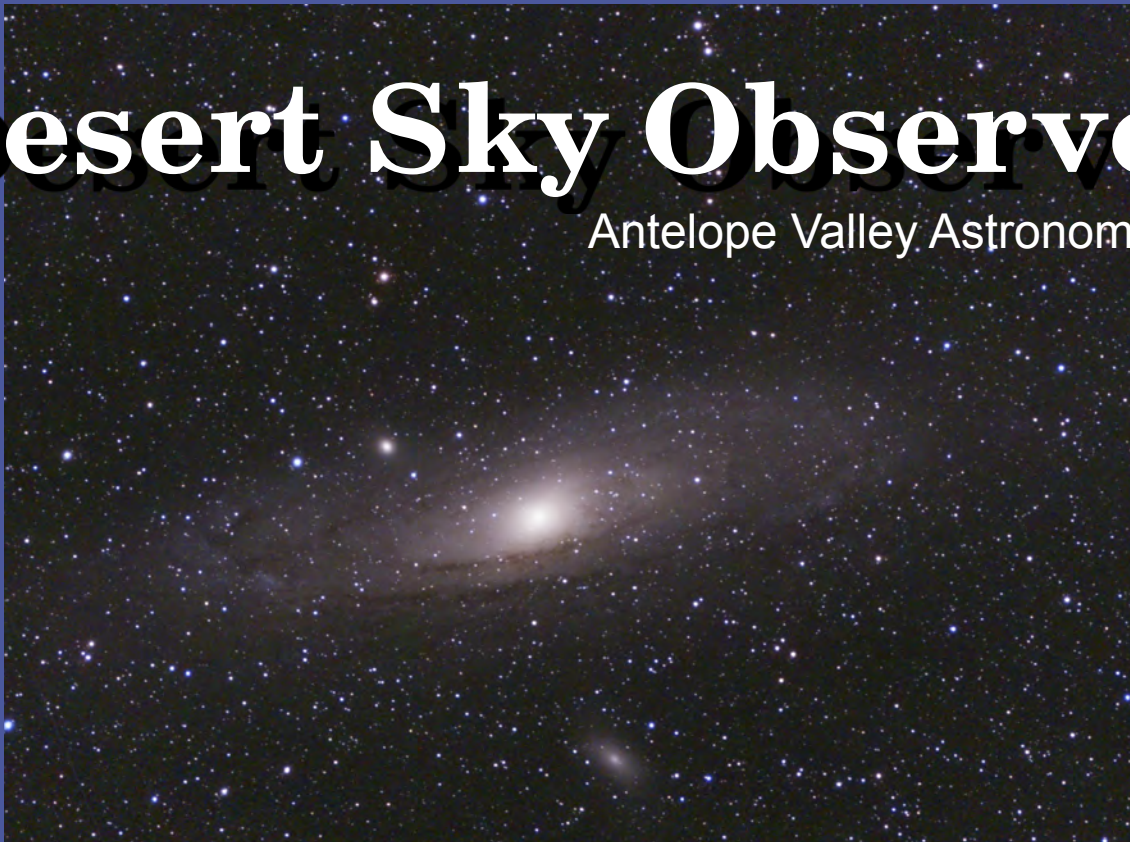


Desert Sky Observer

Antelope Valley Astronomy Club



Desert Sky Observer

www.avastronomyclub.org

September 2026

Upcoming Events

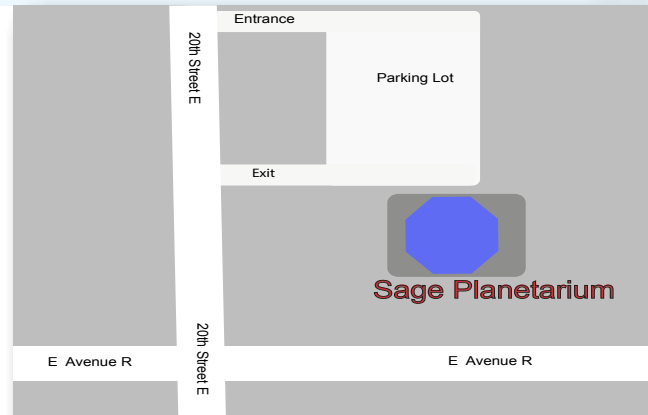
Sept. 5: Moonwalk @ PDW 8:00PM
Sept. 11: Club Meeting
Sept. 12: DSSP @ Chuchupate

Every clear night: Personal Star Party

Oct. 9: Club Meeting (Business Meeting)
Oct. 16: College of the Canyon, Fall
Star Party 6-9:30PM
Oct. 24: Moonwalk @ PDW 6:30PM



AVAC Calendar



Board Members

President: Vacant
president@avastronomyclub.org

Vice-President: Vacant
vice-president@avastronomyclub.org

Secretary: Rose Moore (661) 972-1953
secretary@avastronomyclub.org

Treasurer: Rod Girard (661) 803-7838
treasurer@avastronomyclub.org

Director of Community Development:
Christian Amaya (661) 972-0091
community@avastronomyclub.org

Appointed Positions

Lunar Club:
Matt Leone (661) 713-1894

Equipment & Library: vacant
library@avastronomyclub.org

Club Historian: Vacant
history@avastronomyclub.org

Webmaster: Steve Trotta (661) 269-5428
webmaster@avastronomyclub.org

Night Sky Coordinator:
Rose Moore (661) 972-1953

Newsletter Editor: Rod Girard (661) 803-7838
dso@avastronomyclub.org

Astronomical League Coordinator:
Vacant
al@avastronomyclub.org



Monthly Meetings

Monthly meetings are held at the **S.A.G.E. Planetarium** in Palmdale, the second Friday of each month except December. The meeting location is at the northeast corner of Avenue R and 20th Street East. Meetings start at 7 p.m. and are open to the public. Please note that food and drink are not allowed in the planetarium.

Membership

Membership in the Antelope Valley Astronomy Club is open to any individual or family.

The Club has three categories of membership.

- Family membership at \$30.00 per year.
- Individual membership at \$25.00 per year.
- Junior membership at \$15.00 per year.

Membership entitles you to ...

- The Desert Sky Observer -- monthly newsletter
- The AVAC Membership Manual.
- To borrow club equipment, books, videos, and other items.

AVAC

PO Box 8545

Lancaster, CA 93539-8545

Visit the Antelope Valley Astronomy Club website at www.avastronomyclub.org/
www.instagram.com/av_astronomyclub



www.avastronomyclub.org

The Antelope Valley Astronomy Club, Inc. is a
26 USC §501(c)(3) California Non-Profit Corporation.

The Editor's Message

By Rod Girard

September ushers in the “ber” months, the time when Sunsets become noticeably earlier, days are shorter and the nights are longer. For many amateur astronomers this is the beginning of our favorite time of year.

Astronomy is the one pursuit that is truly out of this world. Riding on a stream of photons our telescopes transport us to distant worlds, sublimely different to our own. This is the catalyst which has ignited the fascination of astronomy in so many of us.

If you are reading this it means that you already have an interest in astronomy but unfortunately for most, this interest may quickly fade. It's simply human nature and a world of endless attractions vying for our attention. But there is an antidote to our attention being hijacked. It isn't some kind of magic spell or secret algorithm, it's simply the conscience decision to participate. Rather than an “all or nothing” decision, it's more organic, a small decision which take root and then grows on it's own.

For myself it was the first time I decided to take my telescope to the Prime Desert Woodlands for the Moonwalk. This decision has led me on a journey of numerous enduring friendships, a wealth of wonderful memories and the discovery of the true satisfaction that has come from public outreach.

If you are looking for more from your Antelope Valley Astronomy Club experience, give participation a try. And one of the easiest ways to participate in the AVAC is to decide to attending the monthly PDW Moonwalks.

At every Moonwalk Jeremy weaves a narrative that combines science, folklore and mythology into a compelling story that informs, while you learn how to navigate the night sky. Because of the ever changing nature of the night sky, no two Moonwalks are ever the same. With the rare exception, there will be telescopes available after your walk to further reveal the wonders of the night sky and explore deep space.

I encourage you to research which objects will be viewable the night of the Moonwalk, and then after the walk we can see what we can find. For the best results the object should be high in the sky.

Once you're ready, the next step is attending a Dark Sky Star Party where you can do some heavy duty observing while meeting other Amateur Astronomers from numerous other clubs.

Clear Skies!

On The Cover

A Tale of Two Andromeda Images

In 1923 Edwin Hubble identified extragalactic Cepheid variable stars for the first time on astronomical photos of Andromeda. These were made using the 100-inch Hooker telescope, on Mt. Wilson and enabled the distance of the Great Andromeda Nebula to be determined. His measurement demonstrated conclusively that this feature was not a cluster of stars and gas within the Milky Way galaxy, but an entirely separate galaxy located 2.5 million light years from the Milky Way. The Andromeda galaxy is approximately 152,000 light years in diameter and could contain as many as a trillion stars.

Top Image: This image of M31, the Andromeda galaxy and its companion, M110 was captured by Tom Koonce with a Seestar S30 Pro in equatorial mode from the balcony of his house in Lancaster. The total imaging time was 150 minutes. The image was taken between 1:00 am and 3:30 am on August 10, 2026.

Bottom Image: This image of M31, the Andromeda galaxy and its companion, M110 was captured by Jerry Bell with a Seestar S30 Pro on July 26, 2026. The total imaging time was 80 minutes. This image was enhanced using the Contrast, Brightness and Saturation adjustments in the Seestar App after Denoise. No external processing was used.

Continued on Page 4

From the Secretary

By Rose Moore

Members:

We start off September by having a Prime Desert Moon Walk on Saturday, September 5th at 8pm. Weather permitting. We will need members with telescopes for this event. Set up time is 30-60 mins prior to the event. Please come out and attend!

At our club meeting on Friday, September 11th at 7pm, we will have a speaker by Zoom. Professor Teresa Ciardi, from College of the Canyons, will be presenting 'The Life of a Star: From Birth to End'. This was the presentation she gave at the College of the Canyons Spring Star Party, which many of us could not attend. Please come out to the meeting and enjoy the presentation and support your club!

Sign ups begin for our annual Christmas Party at the next club meeting on Friday, Sept. 11th. Rod will have an example of the menu for you to look over. Cost will be \$25 per person. Further details coming in an email.

We have a dark sky star party planned for Saturday September 12th at Chuchupate. Weather permitting. Free and open to the public, bring a friend! It will be 2 days past the New Moon, and there will be a waxing crescent of about 2%, setting at 7:48pm. Sunset is at 7:05pm.

Coming up in October is our Annual Business Meeting. We need members to attend so that we can vote on the next Board for 2027. If you are interested in a position, come on out and let the club know! This is a good time to offer suggestions for changes or something new. We recently had an informal meeting the end of July at PDW, and those topics have been sent out in a previous email. We need your participation!

Club events coming up: a DSSP on Saturday Oct. 10th possibly at Red Cliffs; the College of the Canyons Fall Star Party in Santa Clarita on Friday Oct. 16th; and a Prime Desert Woodland Moon Walk, after Jeremy's 'Spooky Science' at 3pm, on Oct. 24th starting at 6:30pm. Come on out and support your club!

Our club Library needs a reorganization and a updated inventory. This will need to be coordinated with Jeremy. We would need to get together at the SAGE to do this, and I'm not sure how long it will take. If anyone is interested in helping me, please let me know!

Here are other events coming up members might be interested in:

California Dark Sky Festival, October 8-11th, Panamint Valley. Almost sold out. Link: <https://www.easternsierraobservatory.com/california-dark-sky-festival>

'Nightfall Star Party' at Borrego Springs on November 6-8th. Link: <https://nightfallstarparty.com/>

Clear skies, Rose

On The Cover. . . Continued

The top image of M31 is an un-enhanced image as it will appear straight out of the Seestar S30 Pro. This is a beautiful image with just a hint of color and very nice detail.

The bottom image of M31 has been enhanced using the Contrast, Brightness and Saturation controls in the Seestar App. This creates a beautiful and dramatic image which is sometimes described as "False Coloring". When you use the Saturation control, you are said to be pushing the color. No color is being added, it's only an amplification of the color data which already exists in the image. In addition to creating a dramatic image you are also bringing out details that otherwise might be difficult to see. An example is the faint blue haze that seems to be connecting M31 with M110. Astrophotography and tidal models have revealed that a faint stellar and dust/gas tidal streams or bridges does connecting M31 and its satellite, M110.

Editor's Note: It was necessary to crop both images to fit the cover format. Every effort was made not to change or alter the primary image of the Andromeda galaxy within the original images.

Astronomy for Beginners:

Sky and Telescope's page with all kinds of links for the beginners. Topics such as 'What's Up in the Sky Tonight?', 'Astronomy Facts', and information for extending your knowledge of 'What to Know Before Buying a Telescope', and 'How to Choose a Telescope', and more.

<https://skyandtelescope.org/astronomy-information>

Will new telescope Roman help reveal long-kept secrets of the universe? Q&A with an expert

Aug. 30, the Nancy Grace Roman Space Telescope is expected to launch from NASA's Kennedy Space Center in Florida. The observatory will join the Hubble Space Telescope, launched in 1990, and the James Webb Space Telescope, launched in 2021 in scanning the vastness of space and potentially finding answers to longstanding mysteries of the universe. Known as Roman, the new telescope will be able to block the starlight that hides distant exoplanets and reveal distant disks of dust and particles that eventually give rise to new planets.

<https://phys.org/news/2026-08-telescope-roman-reveal-secrets-universe.html#>:

How the Sun's galactic journey and superflare-filled youth shaped Earth's climate:

At the center of our solar system, the sun influences every planet that orbits it. In two recent studies, scientists uncovered how ancient events in the sun's history may have helped create Earth's unique climate and driven previously unexplained climatic shifts.

<https://phys.org/news/2026-08-sun-galactic-journey-superflare-youth.html>

A 4-star system caught eclipsing itself in a way never seen before:

Astronomers have found a four-star system doing something that has never been confirmed before. The system, TIC 433545934, has two close pairs of stars orbiting each other. While each pair eclipses its own two stars, as usual, only one pair eclipses the other. When three or more stars are gravitationally bound together, they tend to organize into stable orbits to avoid flying apart or colliding.

<https://phys.org/news/2026-08-star-caught-eclipsing.html>

Nuking an asteroid on short notice could save us:

Readers of a certain age will remember a golden era of asteroid films, capped by two with very different endings. "Deep Impact" drove home the devastating consequences of letting a large piece of rock hit our planet, whereas "Armageddon," though arguably the kitschier of the two films, was an uplifting story about technical ingenuity and sacrifice.

<https://phys.org/news/2026-08-nuking-asteroid-short.html>

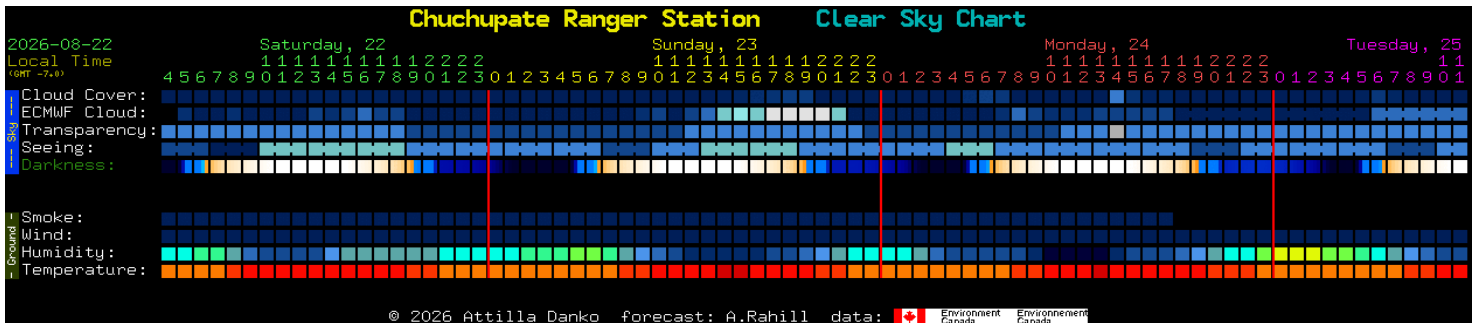
Dry Martian Meteorite Reveals Early Water in Mars's Crust

Now, an international team of scientists might be one step closer to piecing together Mars' watery ancient past, and specifically how much water could have flowed across the Red Planet's surface long ago. In findings recently published in the Geophysical Research Letters, a collaborative team of researchers led by the Technical University of Denmark investigated an intriguing meteorite with an even more intriguing name, "Black Beauty" [https://](https://www.universetoday.com/articles/dry-martian-meteorite-reveals-early-water-in-marss-crust#)

www.universetoday.com/articles/dry-martian-meteorite-reveals-early-water-in-marss-crust#

Astronomical Weather:

If you want the most up to date astronomical weather information, go to <https://www.cleardarksky.com/csk/>. On the same page, below the Clear Dark Sky Chart, there will be a full description and explanation for every category in the chart. The data is up to date and from my experience very reliable. Below is an example of the clear dark sky chart for Chuchupate.



Local Clubs

The following is a list of astronomy clubs or societies which are local to the Antelope Valley Astronomy Club. Please take time to visit their sites. It is interesting to see what other clubs are doing and who knows, you might discover an event that you would like to attend. If there is a club you would like added to this list please let the Editor know. We would prefer clubs local to Southern California, however others may be considered.

Astronomical Society of the Desert, Rancho Mirage
<https://www.astrorx.org>

Big Bear Valley Astronomical Society, Big Bear City
<https://bearvalleyastronomers.org>

China Lake Astronomical Society, Ridgecrest
<https://www.chinalakeastro.org>

Kern County Astronomical Society
<https://www.kernastro.org/>

Local Group of Santa Clarita, Santa Clarita
<https://www.lgscv.org>

Los Angeles Astronomical Society, Los Angeles
<https://www.laas.org>

Mountain Skies Astronomical Society, Lake Arrowhead
<https://www.mountain-skies.org>

Orange County Astronomers
<https://www.ocastronomers.org/>

Riverside Astronomical Society, Riverside
<https://www.rivastro.org>

Santa Monica Astronomy Club, Woodland Hills
<https://samoastronomy.org>

Ventura County Astronomical Society, Simi Valley
<https://www.vcas.org>

Portable Accessories for the Seestar S30 Pro

By Tom Koonce

There are a couple of accessories that make using the ZWO Seestar S30 Pro even better for a night of observing. To ensure that I have power all night, I use a 10,000 W-Hr battery bank. The one in the picture is from Nitecore and happens to fit well in the Seestar carrying bag, but any battery bank will work. Be sure to attach it to the tripod to keep it off of the ground. The battery bank is attached to the USB-C port on the Seestar via a 2 meter USB-C to USB-C cable. One end of the USB-C attaches magnetically to the cable so that if the cord gets wrapped up on the Seestar by accident, the USB-C connection separates from the cable without damaging the port on the Seestar. These are available on Amazon. I use a small Tri-Bahtinov mask made for the S30 Pro to ensure that the focus is as sharp as I can get it. (Check out Buckeyestargazer.net) Lastly, a sturdy stainless steel adapter from 1/4" tripod thread to the Seestar's 3/8" thread from Amazon keeps the Seestar firmly supported on the tripod head.



1/4 inch to 3/8 inch Adapter



Magnetic USB-C Connector



2 meter USB-C to USB-C Cable



10,000 W-Hr Battery Bank



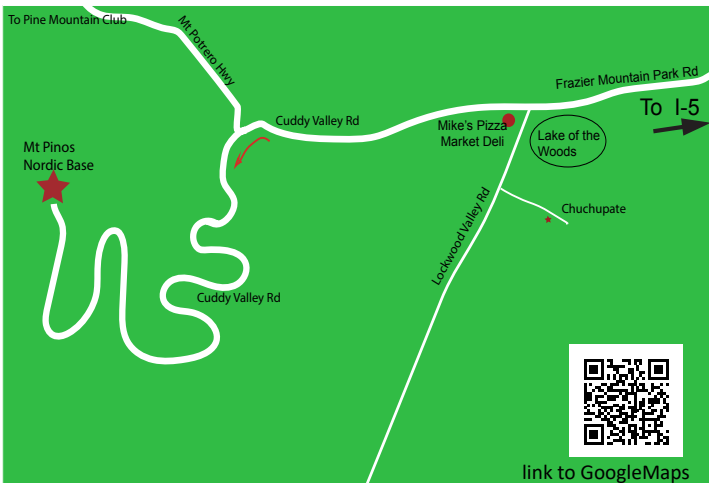
Tri-Bahtinov Focusing Mask

Editor's Note:
Tom Koonce is a long standing member and contributor to the Antelope Valley Astronomy Club, with a wealth of knowledge and experience. Please take time to visit his website:
ASTRO-Tom's.com

Dark Sky Observing Sites

The **Chuchupate** parking lot is a half a mile beyond the Mt Pinos ranger station (on some maps The Chuchupate Ranger Sta.), the parking lot is also called Frazier Mountain trailhead.

To get there, take the Frazier Mountain Park RD east about 7 miles from I-5, to Lake Of The Woods, Turn left on Lockwood Valley Rd. (If you see Mike's Pizza on your left you missed the turn) In less than a mile there is a road to the left, go past the ranger station, the parking lot is on the right. The Club gathers in the upper end of the lot. The Elevation is 5430 feet. There is a vault toilet. (link to GoogleMaps) [RX3R+3F, Frazier Park, CA 93225](#)



Mt Pinos is a parking lot at 8350 feet for the "Mt Pinos Nordic Base." There is a vault toilet 300 yds to the east in the Chula Vista campground.

To get there: From I-5, get off at Frazier Mountain Park Rd and drive west about 7 miles to Mike's Pizza/Market Deli at Lockwood Valley Rd. Keep on the main roadway (don't turn left to go to Chuchupate). Continue past Mike's Pizza on Cuddy Valley Rd (the road's new name) about 5 miles. Continue straight (do not turn right on to Mil Potrero Hwy) for another 8 1/2 miles to the parking area.

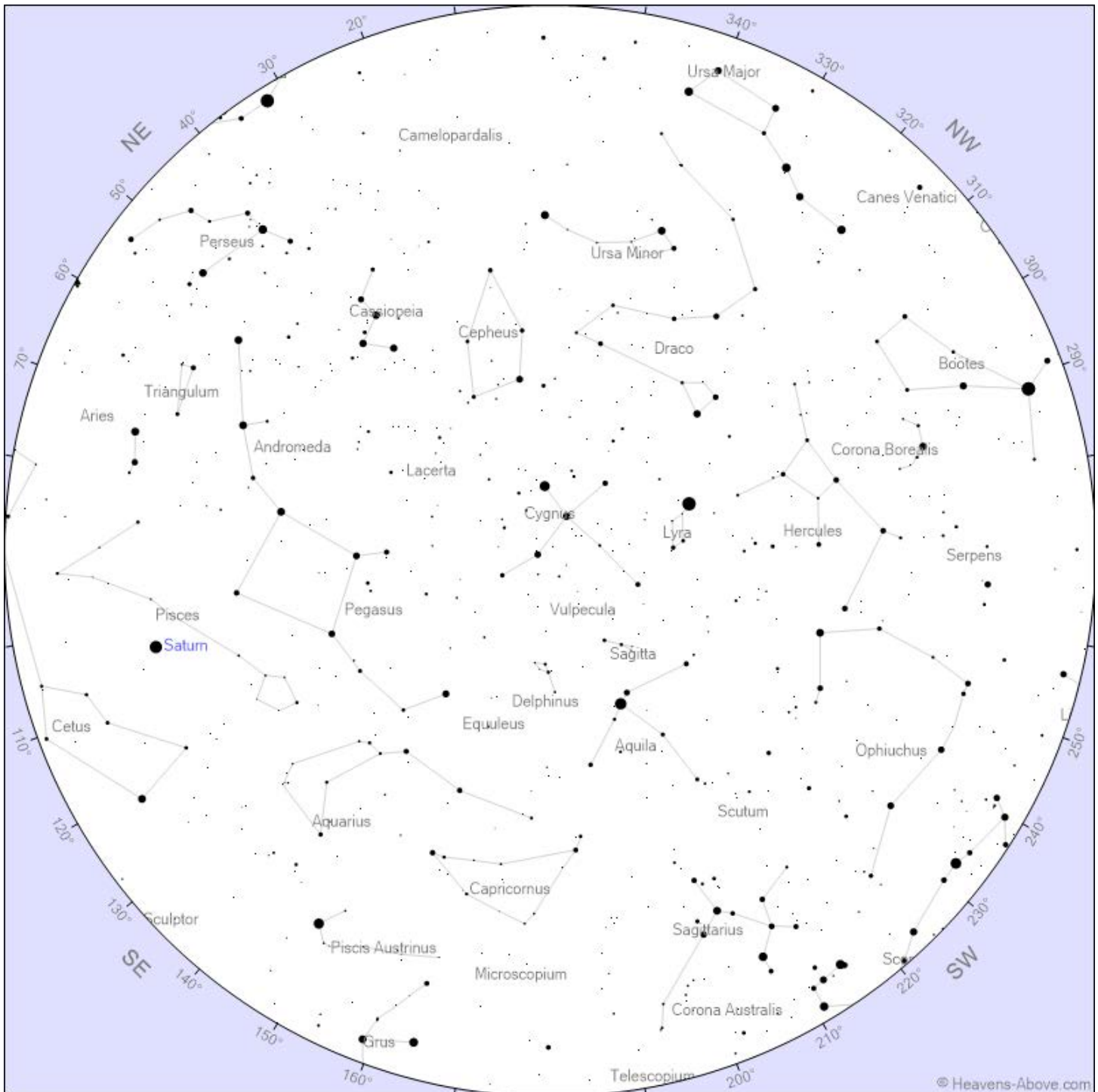
[RV7F+FF Frazier Park, California](#) (link to GoogleMaps)

The **Red Cliffs Natural Area** is part of **Red Rock Canyon State Park** is a day use area and is not for use by the public after dark. The Club gets a special permit for a star party and pays a fee.

To get there: Take the CA-14 north 25 miles past Mojave. You will see giant red cliffs on the right side and a small sign that says "Red Cliffs Natural Area" and a dirt road. (If you see the large sign for the Ricardo campground, you drove a mile too far). Follow the road to the large parking lot (that hasn't been graded in a long time). Elevation is 2410 feet. There is a vault toilet. . . . (link to GoogleMaps). [926F+X5 Ricardo, California](#)



Sky Chart



September 12, 2026 2200Hrs
Southern California

Solar System Summary

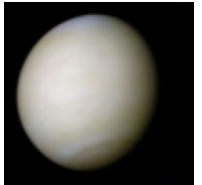


On Sept. 12, the Moon is a 1 day-old waxing crescent, and a recently passed new moon. From Lancaster, it is not observable – it will reach its highest point in the sky during daytime, about 4° above the horizon at dusk.

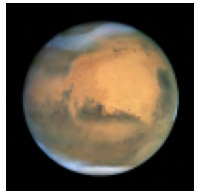
Planets



Mercury recently passed behind the Sun at superior solar conjunction. From Lancaster, it is not observable – it will reach its highest point in the sky during daytime and is no higher than 1° above the horizon at dusk.



Venus is visible as an evening object, having recently passed greatest elongation east. From Lancaster, it will become visible at around 19:18 (PDT), 12° above your south-western horizon, as dusk fades to darkness. It will then sink towards the horizon, setting 1 hour and 25 minutes after the Sun at 20:28.



Mars is currently emerging from behind the Sun. From Lancaster, it is visible in the dawn sky, rising at 01:42 (PDT) and reaching an altitude of 48° above the eastern horizon before fading from view as dawn breaks at around 05:53.



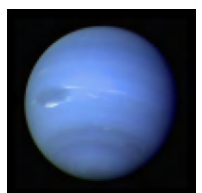
Jupiter recently passed behind the Sun at solar conjunction. From Lancaster, however, it is visible in the dawn sky, rising at 03:47 (PDT) – 2 hours and 43 minutes before the Sun – and reaching an altitude of 28° above the eastern horizon before fading from view as dawn breaks at around 06:15.



Saturn is currently approaching opposition and is visible as a morning object. From Lancaster, it is visible in the morning sky, becoming accessible around 21:02, when it reaches an altitude of 10° above your eastern horizon. It will then reach its highest point in the sky at 02:17, 57° above your southern horizon. It will be lost to dawn twilight around 06:02, 28° above your western horizon.



Uranus is currently emerging from behind the Sun. From Lancaster, it is visible in the dawn sky, rising at 22:35 (PDT) and reaching an altitude of 76° above the southern horizon before fading from view as dawn breaks at around 05:30.



Neptune is currently approaching opposition. From Lancaster, it is visible in the morning sky, becoming accessible around 21:29, when it reaches an altitude of 21° above your eastern horizon. It will then reach its highest point in the sky at 01:40, 55° above your southern horizon. It will be lost to dawn twilight around 05:30, 26° above your western horizon.

Moon Phases



First Qtr
Sept. 18

Full
Sept. 26

Last Qtr
Sept. 04

New
Sept. 10

Sun and Moon Rise and Set*

Date	Moonrise	Moonset	Sunrise	Sunset
9/1/2026	21:42	11:06	06:26	19:18
9/5/2026	24:11	15:36	06:28	19:12
9/10/2026	06:01	18:52	06:32	19:06
9/15/2026	11:17	21:22	06:35	18:58
9/20/2026	15:39	24:35	06:39	18:51
9/25/2026	18:11	05:39	06:42	18:44
9/30/2026	21:09	11:17	06:46	18:37

Planet Data*

9/12/2026	Rise	Culm.	SET
Mercury	07:32	13:34	19:36
Venus	09:56	15:12	20:28
Mars	01:42	08:53	16:03
Jupiter	03:42	10:38	17:29
Saturn	20:07	02:17	08:27
Uranus	22:35	05:40	12:44
Neptune	19:37	01:40	07:42

09 Oct 2026	- Mercury at highest altitude in evening sky
11 Oct 2026	- Mercury at greatest elongation east
20 Nov 2026	- Mercury at highest altitude in morning sky
14 Dec 2026	- Venus at highest altitude in morning sky
03 Jan 2027	- Venus at greatest elongation west
21 Mar 2028	- Venus at greatest elongation east
10 Jan 2027	- Mars enters retrograde motion
19 Feb 2027	- Mars at opposition
19 Feb 2027	- Mars at perigee
12 Dec 2026	- Jupiter ends retrograde motion
10 Feb 2027	- Jupiter ends opposition
12 Apr 2027	- Jupiter ends retrograde motion
04 Oct 2026	- Saturn at opposition
10 Dec 2026	- Saturn ends retrograde motion
09 Aug 2027	- Saturn enters retrograde motion
25 Nov 2026	- Uranus at opposition
08 Feb 2027	- Uranus ends retrograde motion
15 Sept 2027	- Uranus enters retrograde motion
25 Sept 2026	- Neptune at opposition
12 Dec 2026	- Neptune ends retrograde motion
09 Jul 2027	- Neptune enters retrograde motion

Suggested Observing List

The list below contains objects that will be visible on the night of the AVAC Deep Sky Star Party or the Saturday nearest the New Moon, in this case September 12, 2026. The list is sorted by the Rise time of the object.

ID	Name	Type	RA	Dec	Mag	Rise	Transit	Set	Const
NGC 40		Planetary Nebula	00h 13m 08s	+72°31.7'	10.7	Circum	1:44AM	Circum	Cep
NGC 225		Open Cluster	00h 43m 28s	+61°47.1'	7.0	Circum	2:15AM	Circum	Cas
NGC 457	Owl Cluster	Open Cluster	01h 19m 10s	+58°20.0'	6.4	Circum	2:50AM	Circum	Cas
NGC 654		Open Cluster	01h 44m 10s	+61°53.0'	6.5	Circum	3:15AM	Circum	Cas
NGC 659		Open Cluster	01h 44m 16s	+60°42.0'	7.9	Circum	3:15AM	Circum	Cas
NGC 663		Open Cluster	01h 46m 04s	+61°15.0'	7.1	Circum	3:17AM	Circum	Cas
Stock 2	Muscleman Cluster	Open Cluster	02h 15m 04s	+59°16.0'	4.4	Circum	3:46AM	Circum	Cas
NGC 869	Double Cluster	Open Cluster	02h 19m 03s	+57°09.0'	5.3	Circum	3:50AM	Circum	Per
NGC 884	Double Cluster	Open Cluster	02h 22m 27s	+57°06.9'	6.1	Circum	3:54AM	Circum	Per
Kemble's Cascade		Asterism	03h 57m 30s	+63°04.2'		Circum	5:29AM	Circum	Cam
NGC 1502		Open Cluster	04h 07m 45s	+62°19.8'	6.9	Circum	5:39AM	Circum	Cam
NGC 2403		Galaxy	07h 36m 55s	+65°35.7'	8.5	Circum	9:08AM	Circum	Cam
NGC 40		Planetary Nebula	00h 13m 08s	+72°31.7'	10.7	Circum	1:44AM	Circum	Cep
NGC 5907		Galaxy	15h 15m 52s	+56°19.8'	10.3	Circum	4:47PM	Circum	Dra
M40	Winnecke 4	Dbl+Asterism	12h 22m 12s	+58°05.0'	8.7	Circum	1:53PM	Circum	UMa
NGC 6543	Cat's Eye Nebula	Planetary Nebula	17h 58m 36s	+66°38.2'	8.3	Circum	7:30PM	Circum	Dra
NGC 6939		Open Cluster	20h 31m 27s	+60°38.3'	7.8	Circum	10:03PM	Circum	Cep
IC 1396		Bright Nebula	21h 39m 09s	+57°47.0'	3.5	Circum	11:10PM	Circum	Cep
King 10		Open Cluster	22h 54m 58s	+59°10.2'		Circum	12:26AM	Circum	Cep
NGC 7789		Open Cluster	23h 57m 04s	+56°44.1'	6.7	Circum	1:28AM	Circum	Cas
NGC 40		Planetary Nebula	00h 13m 08s	+72°31.7'	10.7	Circum	1:44AM	Circum	Cep
M52	The Scorpion, NGC7654	Open	23h 24m 48s	+61°35.6'	8.0	Circum	12:56AM	Circum	Cas
NGC4036		Galaxy	12h 01m 27s	+61°53.7'	10.6	Circum	1:33PM	Circum	UMa
M81	Bode's Galaxy, NGC3031	Galaxy	09h 55m 33s	+69°03.9'	7.8	Circum	11:27AM	Circum	UMa
M82	Cigar Galaxy, NGC3034	Galaxy	09h 55m 53s	+69°40.8'	9.2	Circum	11:27AM	Circum	UMa
M97	Owl Nebula, NGC3587	P Neb	11h 14m 48s	+55°01.1'	12.0	Circum	12:46PM	Circum	UMa
M102	Spindle Galaxy, NGC5866	Galaxy	15h 06m 30s	+55°45.7'	10.8	Circum	4:38PM	Circum	Dra
M103	NGC581	Open	01h 33m 23s	+60°39.0'	7.0	Circum	3:05AM	Circum	Cas
M108	NGC3556, UGC6225	Galaxy	11h 11m 31s	+55°40.4'	10.6	Circum	12:43PM	Circum	UMa
M45	Pleiades, Seven Sisters, Subaru	Open	03h 47m 30s	+24°07.0'	1.6	10:03PM	5:19AM	12:34PM	Tau
M77	Cetus A, NGC1068, UGC2188	Galaxy	02h 42m 41s	-00°00.8'	9.7	10:11PM	4:14AM	10:17AM	Cet
M38	Starfish Cluster, NGC1912	Open	05h 28m 40s	+35°50.8'	7.0	10:55PM	7:00AM	3:04PM	Aur
NGC 1907		Open Cluster	05h 28m 00s	+35°18.8'	8.2	10:57PM	6:59AM	3:01PM	Aur
Mel 25	Hyades	Open Cluster	04h 27m 02s	+16°00.0'	0.5	11:09PM	5:58AM	12:47PM	Tau
M36	Pinwheel Cluster, NGC1960	Open	05h 36m 18s	+34°08.3'	6.5	11:11PM	7:07AM	3:04PM	Aur
M37	Salt-and-pepper Cluster	Open	05h 52m 18s	+32°33.1'	6.0	11:34PM	7:23AM	3:13PM	Aur
M1	Crab Nebula, NGC1952	SNR	05h 34m 32s	+22°00.8'	8.4	11:57PM	7:06AM	2:14PM	Tau
NGC 1535	Multiple shells	Planetary Nebula	04h 14m 16s	-12°44.2'	10.4	12:19AM	5:45AM	11:12AM	Eri
NGC 2158		Open Cluster	06h 07m 33s	+24°05.9'	8.6	12:23AM	7:39AM	2:54PM	Gem
M35	NGC2168	Open	06h 09m 00s	+24°21.0'	5.5	12:24AM	7:40AM	2:57PM	Gem
NGC 2174		Bright Nebula	06h 10m 01s	+20°34.0'	5.0	12:38AM	7:41AM	2:45PM	Ori
NGC 2841		Galaxy	09h 22m 01s	+50°58.3'	9.2	12:48AM	10:53AM	8:58PM	UMa
NGC 2169	37 Cluster	Open Cluster	06h 08m 27s	+13°57.0'	5.9	12:57AM	7:40AM	2:22PM	Ori
Fornax Gal Cluster		Galactic Cluster	03h 38m 31s	-35°26.6'		1:04AM	5:10AM	9:15AM	For
M78	NGC2068	D Neb	05h 46m 45s	+00°04.7'	8.0	1:15AM	7:18AM	1:21PM	Ori
NGC 1973	Part of Running Man Nebula	Bright Nebula	05h 35m 09s	-04°43.9'		1:17AM	7:06AM	12:56PM	Ori
NGC 1975	Part of Running Man Nebula	Bright Nebula	05h 35m 21s	-04°40.9'		1:17AM	7:07AM	12:56PM	Ori
NGC 1977	Part of Running Man Nebula	Bright Nebula	05h 35m 27s	-04°49.9'		1:17AM	7:07AM	12:56PM	Ori
M43	Nebula, NGC1982	D Neb	05h 35m 31s	-05°16.0'	9.0	1:19AM	7:07AM	12:55PM	Ori

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M42	Great Orion Nebula, NGC1976	Open+D Neb	05h 35m 16s	-05°23.4'	4.0	1:19AM	7:06AM	12:54PM	Ori
IC 418		Planetary Nebula	05h 27m 30s	-12°41.5'	10.7	1:32AM	6:59AM	12:25PM	Lep
NGC 2264	Christmas Tree Cluster	Open Cluster	06h 40m 58s	+09°53.7'	3.9	1:41AM	8:12AM	2:43PM	Mon
NGC 2261	Hubble's Variable Nebula	Bright Nebula	06h 39m 13s	+08°44.0'	11.0	1:43AM	8:10AM	2:38PM	Mon
NGC 2237	Rosette Nebula	Bright Nebula	06h 32m 19s	+04°59.0'	5.5	1:47AM	8:03AM	2:20PM	Mon
NGC 2244		Open Cluster	06h 32m 25s	+04°52.0'	4.8	1:47AM	8:04AM	2:20PM	Mon
NGC 2392	Eskimo Nebula or Clown Face	Planetary Nebula	07h 29m 10s	+20°54.7'	8.6	1:56AM	9:00AM	4:05PM	Gem
M79	NGC1904	Globular	05h 24m 11s	-24°31.4'	8.5	2:06AM	6:55AM	11:45AM	Lep
NGC 2232		Open Cluster	06h 26m 37s	-04°44.8'	3.9	2:08AM	7:58AM	1:47PM	Mon
NGC 2301		Open Cluster	06h 51m 49s	+00°28.0'	6.0	2:19AM	8:23AM	2:27PM	Mon
M109	NGC3992	Galaxy	11h 57m 36s	+53°22.4'	10.6	2:37AM	1:29PM	12:20AM	UMa
M109	NGC3992	Galaxy	11h 57m 36s	+53°22.4'	10.6	2:37AM	1:29PM	12:20AM	UMa
M50	Heart-shaped Cluster, NGC2323	Open	07h 02m 42s	-08°23.0'	7.0	2:55AM	8:34AM	2:13PM	Mon
M44	Beehive Cluster, NGC2632	Open	08h 40m 24s	+19°40.0'	4.0	3:11AM	10:12AM	5:12PM	Cnc
M41	Little Beehive, NGC2287	Open	06h 46m 01s	-20°45.3'	5.0	3:15AM	8:17AM	1:19PM	CMa
NGC 2359	Thor's Helmet or Duck Nebula	Bright Nebula	07h 17m 48s	-13°12.9'		3:24AM	8:49AM	2:14PM	CMa
NGC 2360		Open Cluster	07h 17m 48s	-15°36.8'	7.2	3:31AM	8:49AM	2:07PM	CMa
M67	King Cobra, NGC2682	Open	08h 51m 18s	+11°48.0'	7.5	3:46AM	10:22AM	4:59PM	Cnc
M47	NGC2422	Open	07h 36m 35s	-14°29.0'	4.5	3:46AM	9:08AM	2:29PM	Pup
NGC 2438		Planetary Nebula	07h 41m 51s	-14°44.1'	11.0	3:52AM	9:13AM	2:34PM	Pup
M46	NGC2437	Open	07h 41m 46s	-14°48.6'	6.5	3:52AM	9:13AM	2:33PM	Pup
NGC 3877		Galaxy	11h 46m 07s	+47°29.6'	11.0	3:53AM	1:17PM	10:41PM	UMa
NGC 2903		Galaxy	09h 32m 10s	+21°30.0'	9.0	3:57AM	11:03AM	6:10PM	Leo
M48	NGC2548	Open	08h 13m 43s	-05°45.0'	5.5	3:58AM	9:45AM	3:32PM	Hya
NGC2362	Mexican Jumping Star	Open	07h 18m 41s	-24°57.2'	4.1	4:02AM	8:50AM	1:38PM	CMa
NGC 2362		Open Cluster	07h 18m 48s	-24°56.8'	4.1	4:02AM	8:50AM	1:38PM	CMa
M101	Pinwheel Galaxy, NGC5457	Galaxy	14h 03m 13s	+54°20.9'	8.2	4:06AM	3:34PM	3:02AM	UMa
M93	NGC2447, Butterfly Cluster	Open	07h 44m 30s	-23°51.3'	6.5	4:24AM	9:16AM	2:07PM	Pup
M106	NGC4258, UGC7353	Galaxy	12h 18m 58s	+47°18.2'	9.1	4:28AM	1:50PM	11:12PM	CVn
NGC 2467		Bright Nebula	07h 52m 30s	-26°22.8'	7.1	4:41AM	9:24AM	2:06PM	Pup
NGC 4244		Galaxy	12h 17m 29s	+37°48.4'	10.4	5:34AM	1:49PM	10:03PM	CVn
M95	NGC3351, UGC5850	Galaxy	10h 43m 58s	+11°42.2'	10.6	5:39AM	12:15PM	6:51PM	Leo
NGC5195		Galaxy	13h 29m 59s	+47°16.0'	9.6	5:40AM	3:01PM	12:23AM	CVn
M51	Whirlpool Galaxy, NGC5194	Galaxy	13h 29m 52s	+47°11.7'	8.9	5:40AM	3:01PM	12:22AM	CVn
M105	NGC3379, UGC5902	Galaxy	10h 47m 50s	+12°34.9'	10.5	5:40AM	12:19PM	6:58PM	Leo
M96	NGC3368, UGC5882	Galaxy	10h 46m 46s	+11°49.2'	10.1	5:42AM	12:18PM	6:54PM	Leo
M94	Croc's Eye Galaxy, NGC4736	Galaxy	12h 50m 53s	+41°07.1'	8.9	5:48AM	2:22PM	10:56PM	CVn
NGC 3115	Spindle Gal	Galaxy	10h 05m 14s	-07°43.0'	8.9	5:55AM	11:36AM	5:18PM	Sex
M63	Sunflower Galaxy, NGC5055	Galaxy	13h 15m 49s	+42°01.7'	9.3	6:07AM	2:47PM	11:27PM	CVn
M65	Leo Triplet, NGC3623	Galaxy	11h 18m 56s	+13°05.5'	10.1	6:10AM	12:50PM	7:30PM	Leo
M66	Leo Triplet, NGC3627	Galaxy	11h 20m 15s	+12°59.4'	9.7	6:12AM	12:51PM	7:31PM	Leo
NGC 4631		Galaxy	12h 42m 11s	+32°32.7'	9.2	6:24AM	2:13PM	10:02PM	CVn
NGC 4656		Galaxy	12h 43m 58s	+32°10.3'	10.5	6:28AM	2:15PM	10:03PM	CVn
Mel 111	Coma Berenices Star Cluster	Open Cluster	12h 25m 00s	+26°00.1'	1.8	6:34AM	1:56PM	9:19PM	Com
NGC 4565	Bernice's Hair Clip	Galaxy	12h 36m 20s	+25°59.3'	9.6	6:45AM	2:08PM	9:30PM	Com
NGC 3242	Ghost of Jupiter	Planetary Nebula	10h 24m 48s	-18°38.2'	8.6	6:47AM	11:56AM	5:05PM	Hya
M98	NGC4192, UGC7231	Galaxy	12h 13m 48s	+14°54.0'	10.9	6:59AM	1:45PM	8:31PM	Com
M85	NGC4382, UGC7508	Galaxy	12h 25m 24s	+18°11.4'	10.0	7:01AM	1:57PM	8:52PM	Com
Abell 1656	Coma Gal Cluster	Galactic Cluster	12h 59m 48s	+27°59.0'	11.0	7:01AM	2:31PM	10:01PM	Com
M100	Mirror of M99, NGC4321	Galaxy	12h 22m 55s	+15°49.3'	10.1	7:06AM	1:54PM	8:42PM	Com

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M99	Pinwheel Galaxy, NGC4254	Galaxy	12h 18m 50s	+14°25.0'	10.4	7:06AM	1:50PM	8:34PM	Com
M84	NGC4374, Markarian's Chain	Galaxy	12h 25m 04s	+12°53.2'	10.2	7:17AM	1:56PM	8:36PM	Vir
Markarian's Chain		Galactic Chain	12h 25m 04s	+12°53.2'		7:17AM	1:56PM	8:36PM	Vir
M86	NGC4406, UGC7532	Galaxy	12h 26m 12s	+12°56.7'	9.9	7:18AM	1:57PM	8:37PM	Vir
M88	NGC4501, UGC7675	Galaxy	12h 31m 59s	+14°25.2'	10.2	7:19AM	2:03PM	8:47PM	Com
M64	Black Eye Galaxy, NGC4826	Galaxy	12h 56m 44s	+21°41.0'	9.3	7:21AM	2:28PM	9:35PM	Com
M91	Missing Messier Object, NGC4548	Galaxy	12h 35m 27s	+14°29.7'	10.9	7:22AM	2:07PM	8:51PM	Com
M87	Smoking Gun, Virgo A, NGC4486	Galaxy	12h 30m 49s	+12°23.4'	9.6	7:24AM	2:02PM	8:40PM	Vir
M90	NGC4569, UGC7786	Galaxy	12h 36m 50s	+13°09.7'	10.2	7:28AM	2:08PM	8:48PM	Vir
M89	NGC4552, UGC7760	Galaxy	12h 35m 40s	+12°33.3'	10.9	7:28AM	2:07PM	8:45PM	Vir
M58	NGC4579, UGC7796	Galaxy	12h 37m 44s	+11°49.1'	10.4	7:33AM	2:09PM	8:45PM	Vir
NGC 4567	Siamese Twins	Galaxy	12h 36m 33s	+11°15.5'	11.3	7:33AM	2:08PM	8:42PM	Vir
NGC 4568	Siamese Twins	Galaxy	12h 36m 35s	+11°14.2'	10.8	7:33AM	2:08PM	8:42PM	Vir
M49	NGC4472, UGC7629	Galaxy	12h 29m 47s	+08°00.0'	9.3	7:36AM	2:01PM	8:26PM	Vir
M59	NGC4621, UGC7858	Galaxy	12h 42m 02s	+11°38.7'	10.7	7:37AM	2:13PM	8:49PM	Vir
M61	Swelling Spiral, NGC4303	Galaxy	12h 21m 55s	+04°28.3'	10.1	7:38AM	1:53PM	8:08PM	Vir
M60	NGC4649, UGC7898	Galaxy	12h 43m 40s	+11°33.1'	9.8	7:39AM	2:15PM	8:50PM	Vir
NGC 4526	Lost Galaxy	Galaxy	12h 34m 03s	+07°42.0'	9.7	7:41AM	2:05PM	8:30PM	Vir
M3	NGC5272	Globular	13h 42m 11s	+28°22.5'	7.0	7:42AM	3:13PM	10:45PM	CVn
M3	NGC5272	Globular	13h 42m 11s	+28°22.5'	7.0	7:42AM	3:13PM	10:45PM	CVn
M53	NGC5024	Globular	13h 12m 55s	+18°10.1'	8.5	7:48AM	2:44PM	9:40PM	Com
3C 273		Quasar	12h 29m 06s	+02°03.0'	12.0	7:52AM	2:00PM	8:09PM	Vir
NGC 4038	The Antennae Galaxy	Galaxy	12h 01m 53s	-18°51.9'	10.3	8:25AM	1:33PM	6:41PM	Crv
NGC 4039	The Antennae	Galaxy	12h 01m 54s	-18°53.1'	10.6	8:25AM	1:33PM	6:41PM	Crv
M104	Sombrero Galaxy, NGC4594	Galaxy	12h 39m 59s	-11°37.3'	9.2	8:41AM	2:11PM	7:41PM	Vir
NGC 4361		Planetary Nebula	12h 24m 30s	-18°47.6'	10.3	8:47AM	1:56PM	7:04PM	Crv
M68	NGC4590	Globular	12h 39m 28s	-26°44.5'	9.0	9:29AM	2:11PM	6:52PM	Hya
M92	NGC6341	Globular	17h 17m 07s	+43°08.1'	7.5	10:01AM	6:48PM	3:36AM	Her
M13	Great Hercules Cluster, NGC6205	Globular	16h 41m 41s	+36°27.5'	7.0	10:05AM	6:13PM	2:21AM	Her
NGC 5746		Galaxy	14h 44m 57s	+01°57.3'	10.3	10:08AM	4:16PM	10:24PM	Vir
M83	Southern Pinwheel Galaxy, NGC5236	Galaxy	13h 37m 00s	-29°51.8'	8.0	10:39AM	3:08PM	7:37PM	Hya
M5	NGC5904	Globular	15h 18m 33s	+02°04.9'	7.0	10:41AM	4:50PM	10:58PM	Ser
NGC 6210		Planetary Nebula	16h 44m 30s	+23°48.7'	9.7	11:01AM	6:16PM	1:30AM	Her
NGC6826	Blinking Planetary	P Neb	19h 44m 48s	+50°31.5'	10.0	11:17AM	9:16PM	7:15AM	Cyg
NGC 6826	Blinking Planetary	Planetary Nebula	19h 44m 53s	+50°31.6'	8.8	11:17AM	9:16PM	7:15AM	Cyg
NGC 5128	Centaurus A	Galaxy	13h 25m 29s	-43°01.1'	6.8	11:34AM	2:57PM	6:20PM	Cen
NGC 5139	Omega Centauri	Globular Cluster	13h 26m 46s	-47°28.7'	3.7	12:09PM	2:58PM	5:47PM	Cen
M12	Gumball Globular, NGC6218	Globular	16h 47m 14s	-01°56.8'	8.0	12:21PM	6:18PM	12:16AM	Oph
M57	Ring Nebula, NGC6720	P Neb	18h 53m 35s	+33°01.7'	9.5	12:34PM	8:25PM	4:16AM	Lyr
M10	NGC6254	Globular	16h 57m 09s	-04°05.9'	7.5	12:37PM	6:28PM	12:20AM	Oph
M107	NGC6171	Globular	16h 32m 32s	-13°03.1'	10.0	12:38PM	6:04PM	11:29PM	Oph
NGC 6819		Open Cluster	19h 41m 20s	+40°11.3'	7.3	12:44PM	9:13PM	5:41AM	Cyg
M80	NGC6093	Globular	16h 17m 03s	-22°58.5'	8.5	12:54PM	5:48PM	10:43PM	Sco
IC 4665		Open Cluster	17h 46m 20s	+05°43.1'	4.2	12:59PM	7:18PM	1:36AM	Oph
M56	NGC6779	Globular	19h 16m 36s	+30°11.0'	9.5	1:09PM	8:48PM	4:27AM	Lyr
M4	Cat's Eye, NGC6121	Globular	16h 23m 35s	-26°31.5'	7.5	1:13PM	5:55PM	10:37PM	Sco
M14	NGC6402	Globular	17h 37m 36s	-03°14.7'	9.5	1:15PM	7:09PM	1:03AM	Oph
NGC 6572		Planetary Nebula	18h 12m 09s	+06°51.0'	9.0	1:21PM	7:43PM	2:05AM	Oph
NGC5986		Globular	15h 46m 04s	-37°47.1'	7.1	1:24PM	5:17PM	9:11PM	Lup
NGC 6888	Crescent Nebula	Bright Nebula	20h 12m 14s	+38°20.3'	8.0	1:26PM	9:43PM	6:01AM	Cyg

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M39	NGC7092	Open	21h 31m 42s	+48°25.0'	5.5	1:30PM	11:03PM	8:36AM	Cyg
NGC 7000	North American Nebula	Bright Nebula	20h 58m 32s	+44°33.3'		1:31PM	10:30PM	7:28AM	Cyg
Albireo		Star	19h 30m 45s	+27°57.9'	3.1	1:32PM	9:02PM	4:32AM	Cyg
NGC6871		Open	20h 05m 59s	+35°46.6'	5.2	1:33PM	9:37PM	5:41AM	Cyg
M29	Cooling Tower, NGC6913	Open	20h 23m 57s	+38°30.5'	9.0	1:36PM	9:55PM	6:14AM	Cyg
NGC 6633		Open Cluster	18h 27m 43s	+06°34.2'	4.6	1:38PM	7:59PM	2:20AM	Oph
M9	NGC6333	Globular	17h 19m 12s	-18°31.0'	9.0	1:41PM	6:50PM	11:59PM	Oph
M19	NGC6273	Globular	17h 02m 38s	-26°16.0'	8.5	1:51PM	6:34PM	11:17PM	Oph
Cr 399	Brocchi's Cluster or The Coathanger	Asterism	19h 25m 26s	+20°11.2'	3.6	1:54PM	8:57PM	3:59AM	Vul
NGC7027		P Neb	21h 07m 02s	+42°14.1'	10.0	1:57PM	10:38PM	7:20AM	Cyg
M62	Flickering Globular, NGC6266	Globular	17h 01m 13s	-30°06.7'	8.0	2:04PM	6:32PM	11:01PM	Oph
NGC 6369		Planetary Nebula	17h 29m 22s	-23°45.6'	11.0	2:09PM	7:01PM	11:52PM	Oph
B 59	Pipe Nebula (stem)	Dark Nebula	17h 21m 02s	-27°00.0'		2:12PM	6:52PM	11:32PM	Oph
NGC 6885		Open Cluster	20h 12m 02s	+26°29.3'	8.1	2:19PM	9:43PM	5:08AM	Vul
M27	Dumbbell Nebula, NGC6853	P Neb	19h 59m 36s	+22°43.2'	7.5	2:20PM	9:31PM	4:42AM	Vul
B 78	Pipe Nebula (bowl)	Dark Nebula	17h 33m 02s	-26°00.0'		2:20PM	7:04PM	11:48PM	Oph
M23	NGC6494	Open	17h 57m 04s	-18°59.1'	6.0	2:21PM	7:28PM	12:36AM	Sgr
M16	Eagle Nebula, NGC6611	Open+D Neb	18h 18m 48s	-13°48.3'	6.5	2:26PM	7:50PM	1:13AM	Ser
M71	NGC6838	Globular	19h 53m 46s	+18°46.6'	8.5	2:27PM	9:25PM	4:23AM	Sge
NGC 6781		Planetary Nebula	19h 18m 28s	+06°32.7'	11.8	2:29PM	8:50PM	3:11AM	Aql
M17	Omega Nebula, Swan Nebula, NGC6618	Open+D Neb	18h 20m 47s	-16°10.3'	7.0	2:36PM	7:52PM	1:08AM	Sgr
NGC 6960	Western Veil	Supernova Remnant	20h 45m 38s	+30°43.3'		2:36PM	10:17PM	5:58AM	Cyg
M11	Wild Duck Cluster, NGC6705	Open	18h 51m 05s	-06°16.1'	7.0	2:37PM	8:22PM	2:08AM	Sct
M18	Black Swan, NGC6613	Open	18h 19m 58s	-17°06.1'	8.0	2:38PM	7:51PM	1:05AM	Sgr
M21	NGC6531	Open	18h 04m 13s	-22°29.3'	7.0	2:39PM	7:35PM	12:32AM	Sgr
M20	Trifid Nebula, The Clover, NGC6514	Open+D Neb	18h 02m 42s	-22°58.2'	5.0	2:39PM	7:34PM	12:28AM	Sgr
M26	NGC6694	Open	18h 45m 18s	-09°23.0'	9.5	2:40PM	8:16PM	1:53AM	Sct
M24	Small Sagittarius Star Cloud, NGC6603	Open	18h 18m 26s	-18°24.3'	4.5	2:40PM	7:50PM	12:59AM	Sgr
NGC6281		Open	17h 04m 41s	-37°59.1'	5.4	2:43PM	6:36PM	10:28PM	Sco
NGC 6992	Eastern Veil	Supernova Remnant	20h 56m 14s	+31°04.3'		2:45PM	10:27PM	6:10AM	Cyg
M8	Lagoon Nebula, NGC6523	Open+D Neb	18h 03m 41s	-24°22.7'	5.0	2:45PM	7:35PM	12:25AM	Sgr
NGC6790		P Neb	19h 22m 57s	+01°30.8'	10.0	2:47PM	8:54PM	3:01AM	Aql
M6	Butterfly Cluster, NGC6405	Open	17h 40m 20s	-32°15.2'	4.5	2:52PM	7:12PM	11:31PM	Sco
NGC 6231	Table of Scorpius	Open Cluster	16h 54m 01s	-41°48.1'	2.6	2:54PM	6:25PM	9:56PM	Sco
M25		Open	18h 31m 42s	-19°07.0'	6.5	2:56PM	8:03PM	1:10AM	Sgr
M28	NGC6626	Globular	18h 24m 33s	-24°52.1'	8.5	3:08PM	7:56PM	12:44AM	Sgr
M22	Great Sagittarius Cluster, NGC6656	Globular	18h 36m 24s	-23°54.2'	6.5	3:16PM	8:08PM	12:59AM	Sgr
M7	Scorpion's Tail, NGC6475	Open	17h 53m 51s	-34°47.6'	3.5	3:17PM	7:25PM	11:33PM	Sco
M69	NGC6637	Globular	18h 31m 23s	-32°20.8'	9.0	3:43PM	8:03PM	12:22AM	Sgr
M70	NGC6681	Globular	18h 43m 12s	-32°17.4'	9.0	3:55PM	8:14PM	12:34AM	Sgr
M54	NGC6715	Globular	18h 55m 03s	-30°28.7'	8.5	3:59PM	8:26PM	12:53AM	Sgr
NGC 7331	Little Andromeda Galaxy	Galaxy	22h 37m 08s	+34°25.4'	9.5	4:11PM	12:08AM	8:06AM	Peg
NGC 7662	Blue Snowball Nebula	Planetary Nebula	23h 25m 57s	+42°32.7'	8.6	4:14PM	12:57AM	9:41AM	And
M15	Great Pegasus Cluster, NGC7078	Globular	21h 29m 58s	+12°10.0'	7.5	4:24PM	11:01PM	5:38AM	Peg
NGC6723		Globular	18h 59m 33s	-36°37.9'	7.3	4:31PM	8:31PM	12:30AM	Sgr
M75	NGC6864	Globular	20h 06m 05s	-21°55.3'	9.5	4:39PM	9:37PM	2:35AM	Sgr
M55	NGC6809	Globular	19h 40m 00s	-30°57.7'	7.0	4:46PM	9:11PM	1:36AM	Sgr
M72	NGC6981	Globular	20h 53m 28s	-12°32.2'	10.0	4:57PM	10:25PM	3:52AM	Aqr
M76	Little Dumbbell Nebula, NGC650	P Neb	01h 42m 18s	+51°34.2'	12.0	4:59PM	3:13AM	1:28PM	Per
M73	NGC6994	Open+Asterism	20h 58m 56s	-12°38.1'	9.0	5:03PM	10:30PM	3:57AM	Aqr

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M2	NGC7089	Globular	21h 33m 27s	-00°49.3'	7.5	5:04PM	11:05PM	5:05AM	Aqr
NGC 7009	Saturn Nebula	Planetary Nebula	21h 04m 15s	-11°21.8'	8.3	5:05PM	10:35PM	4:06AM	Aqr
M110	Satellite Of Andromeda Galaxy, NGC205	Galaxy	00h 40m 22s	+41°41.1'	8.9	5:34PM	2:12AM	10:49AM	And
M31	Andromeda Galaxy, NGC224	Galaxy	00h 42m 44s	+41°16.1'	4.3	5:39PM	2:14AM	10:49AM	And
M32	Satellite Of Andromeda Galaxy, NGC221	Galaxy	00h 42m 42s	+40°51.9'	9.1	5:41PM	2:14AM	10:46AM	And
NGC 6397		Globular Cluster	17h 40m 43s	-53°40.5'	5.7	5:43PM	7:12PM	8:41PM	Ara
M30	NGC7099	Globular	21h 40m 22s	-23°10.7'	8.5	6:18PM	11:12PM	4:05AM	Cap
NGC 7293	Helical Nebula	Planetary Nebula	22h 29m 40s	-20°47.3'	6.3	6:59PM	12:01AM	5:03AM	Aqr
NGC 891		Galaxy	02h 22m 36s	+42°20.8'	9.9	7:12PM	3:54AM	12:36PM	And
Mel 20	Alpha Persei Association	Open Cluster	03h 22m 03s	+48°59.9'	1.2	7:14PM	4:53AM	2:33PM	Per
NGC 752		Open Cluster	01h 57m 51s	+37°41.0'	5.7	7:15PM	3:29AM	11:43AM	And
M33	Triangulum Galaxy, NGC598	Galaxy	01h 33m 51s	+30°39.6'	6.2	7:24PM	3:05AM	10:46AM	Tri
M34	Spiral Cluster, NGC1039	Open	02h 42m 05s	+42°45.6'	6.0	7:28PM	4:13AM	12:58PM	Per
NGC 1528		Open Cluster	04h 15m 24s	+51°13.8'	6.4	7:37PM	5:47AM	3:56PM	Per
NGC 1023		Galaxy	02h 40m 27s	+39°03.7'	9.4	7:50PM	4:12AM	12:33PM	Per
M74	The Phantom, NGC628	Galaxy	01h 36m 42s	+15°47.0'	9.8	8:20PM	3:08AM	9:56AM	Psc
NGC7410		Galaxy	22h 55m 01s	-39°39.7'	10.4	8:43PM	12:26AM	4:10AM	Gru
NGC 247		Galaxy	00h 47m 11s	-20°45.3'	9.1	9:16PM	2:18AM	7:20AM	Cet
NGC 253		Galaxy	00h 47m 35s	-25°17.0'	7.2	9:32PM	2:19AM	7:05AM	Scl
NGC1514	Crystal Ball Nebula	P Neb	04h 09m 17s	+30°46.5'	10.0	9:59PM	5:40AM	1:22PM	Tau

And - Andromeda
Ant - Antlia
Aps - Apus
Aql - Aquila
Aqr - Aquarius
Ara - Ara
Ari - Aries
Aur - Auriga
Boo - Bootes
Cae - Caelum
Cam - Camelopardis
Cap - Capricornus
Car - Carina
Cas - Cassiopeia
Cen - Centaurus
Cep - Cepheus
Cet - Cetus
Cha - Chamaeleon

Cir - Circinus
CMa - Canis Major
CMi - Canis Minor
Cnc - Cancer
Col - Columba
Com - Coma Berenices
CrA - Corona Australis
CrB - Corona Borealis
Crt - Crater
Cru - Crux
Crv - Corvus
CVn - Canes Venatici
Cyg - Cygnus
Del - Delphinus
Dor - Dorado
Dra - Draco
Equ - Equuleus
Eri - Eridanus

For - Fornax
Gem - Gemini
Gru - Grus
Her - Hercules
Hor - Horologium
Hya - Hydra
Hyi - Hydrus
Ind - Indus
Lac - Lacerta
Leo - Leo
Lep - Lepus
Lib - Libra
LMi - Leo Minor
Lup - Lupus
Lyn - Lynx
Lyr - Lyra
Men - Mensa
Mic - Microscopium

Mon - Monoceros
Mus - Musca
Nor - Norma
Oct - Octans
Oph - Ophiuchus
Ori - Orion
Pav - Pavo
Peg - Pegasus
Per - Perseus
Phe - Phoenix
Pic - Pictor
PsA - Pisces Austrinus
Psc - Pisces
Pup - Puppis
Pyx - Pyxis
Ret - Reticulum
Scl - Sculptor
Sco - Scorpius

Sct - Scutum
Ser - Serpens
Sex - Sextans
Sge - Sagitta
Sgr - Sagittarius
Tau - Taurus
Tel - Telescopium
TrA - Triangulum
Australis
Tri - Triangulum
Tuc - Tucana
UMa - Ursa Major
UMi - Ursa Minor
Vel - Vela
Vir - Virgo
Vol - Volans
Vul - Vulpecula

Greek Alphabet

α - alpha	ν - nu
β - beta	ξ - xi
γ - gamma	ο - omicron
δ - delta	π - pi
ε - epsilon	ρ - rho
ζ - zeta	σ - sigma
η - eta	τ - tau
θ - theta	υ - upsilon
ι - iota	φ - phi
κ - kappa	χ - chi
λ - lambda	ψ - psi
μ - mu	ω - omega

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