

Volume 46.8

AUGUST 2026

Desert Sky Observer

Antelope Valley Astronomy Club



Desert Sky Observer

www.avastronomyclub.org

August 2026

Upcoming Events

August 14: Club Meeting

August 15: DSSP @ Mt. Pinos

August 22: Moonwalk @ PDW 8:00 PM

August 27: Lunar Eclipse @ 7:17PM

Every clear night: Personal Star Party

Sept. 05: Moonwalk @ PDW 8:00PM

Sept. 11: Club Meeting

Sept. 12: DSSP @ Chuchupate

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: vacant

dso@avastronomyclub.org

Astronomical League Coordinator:

vacant

al@avastronomyclub.org



AVAC Calendar



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.

President's Message

On July 8, 2026 Phil Wriedt, our club's president, suddenly passed away. For those who knew Phil, he was a welcomed friend. A gentle person who was easy to like with a subtle sense of humor. He was my best friend and I will truly miss him.

Phil hadn't been in the best of health for quite awhile, but that didn't deter him from attending every club meeting and every event that he was physically able to. I was told that in his last hours he was working on the July DSO.

I remember the first time Phil came out to a Moonwalk at PDW with his Meade LX ACF telescope. I believe it was a 16 inch, mounted on a wedge. When Phil turned the telescope on to align, it seemed to have a mind of its own and slewed to a limit. Phil quickly turned off the power to the scope saying something to the effect of "WHY"! Phil tried unsuccessfully several more times to power up his scope with the same results. Having experienced similar frustrations with my own telescope I could only feel for him.

Long story short, Phil returned the telescope to the shop where he purchased it and got a new telescope and at the next Moonwalk the telescope worked. This was the start of our friendship, more star parties than I can count and many adventures under the night's sky, dodging clouds, fighting the wind and trying to avoid the weather.

RIP my Friend!

Rod Girard

On The Cover: The Whale and Hockey Stick Galaxies

The Whale galaxy, NGC 4631 and the Hockey Stick galaxy, NGC 4645 are found in the constellation of Canes Venatici and are approximately 25 - 30 million light years from Earth. Discovered by William Herschel, 20 March 1787, both galaxies are uniquely beautifully and distinct in their appearances.

The Hockey Stick galaxy is a highly distorted, irregular barred spiral galaxy viewed edge on. The Whale galaxy is also a barred spiral galaxy viewed edge on, although much less distorted than the Hockey Stick, the Whale is still considered to be an irregular galaxy. The two galaxies are gravitationally bound and in recent galactic history, tens to hundreds of thousands of years, the two galaxies had a close encounter which was less than a merger.

This encounter left the Hockey Stick galaxy twisted and distorted. The much larger Whale galaxy showed little affect from this close encounter, although the tidal forces from the Hockey Stick galaxy may have stimulated massive star formation at the core of the Whale Galaxy. This massive star formation of a large number of Blue-White Giants and in a relative short period of time, their inevitable Super Novae created super solar winds which blew the galaxy apart, producing its distinctive whale like appearance. The two galaxies reside less than 300,000 light years apart... CONTINUED ON PAGE 4

From the Secretary

By Rose Moore

Members:

Our first event for August will be our club meeting on Friday August 14th, starting at 7pm. We will have something planned for the meeting, and will send an email out as we get closer to the date.

We have a dark sky star party planned for Mt. Pinos on Saturday August 15th. Weather permitting. An email will be sent a few days prior to the event,

The Prime Desert Moon Walk is scheduled for Saturday August 22nd at 8pm. We will need members with telescopes for this event. Weather permitting. Free and open to the public. Set up time is approximately 30-60 mins prior to the event.

Jeremy and the AVAC will be hosting the Lunar Eclipse on Thursday August 27th. The eclipse starts at 7:17pm and ends at 12:01am (Friday). This will be at the SAGE Planetarium in the parking area, and Jeremy will let us know when we can arrive and set up. Email to follow. We will need members with telescopes or binoculars for the event!

Coming up in September we will have a PDW on Saturday Sept. 5th, our club meeting on Friday Sept. 11th, and a dark sky star party on Saturday Sept. 12th at Chuchupate. Also, in October is our Annual Club Business Meeting. This is your chance to bring up suggestions or ideas for the club, and to nominate a Board for 2027. Please attend!

Our annual club Christmas Party is scheduled, and booked, for Saturday December 5th, and will be held in the banquet room at the Greenhouse Cafe in Lancaster!

Please come to events and support your club! We need you!

Rose

On The Cover. . . Continued

The Whale galaxy, NGC 4631, is approximately 120 to 140,000 light years in diameter with a bright center bulge, highlighted by numerous star forming regions. The Whale galaxy also has a Dwarf Elliptical companion galaxy, NGC4627, commonly referred to as the Whale's Pup.

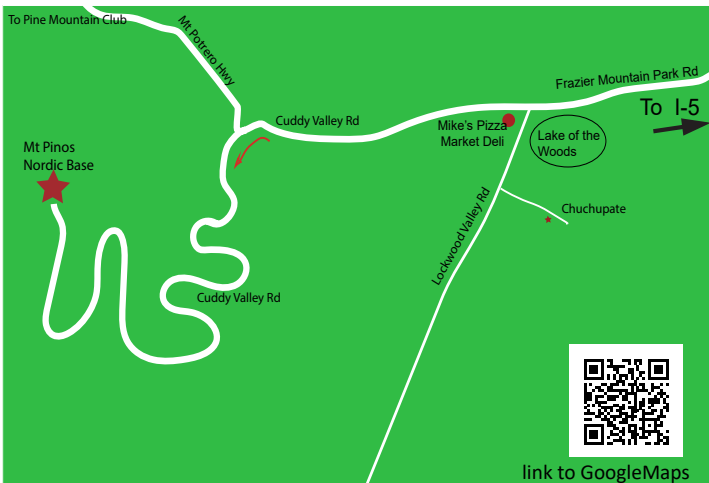
The Hockey Stick galaxy, NGC 4656, is much smaller in diameter with its distinctive bend at one end which creates the blade of the hockey stick. There had been an on going debate that the blade of the Hockey Stick was a nebula separate from NGC 4656 and in 1888, Emil Dreyer gave the blade its own designation, NGC 4657. The blade is now considered to be part of NGC 4656.

Rod Girard
Celestron Origin
June 13, 2026
Chuchupate

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](#)



August 2026

A circular star chart of the Northern Hemisphere, centered on Polaris (the North Star). The chart is divided into four quadrants by the cardinal directions: NE (Northeast), NW (Northwest), SE (Southeast), and SW (Southwest). The chart shows the positions of various constellations and their stars, with lines connecting the stars to form the constellation patterns. The stars are represented by dots of varying sizes, indicating their magnitude. The chart also shows the ecliptic (the path of the Sun) and the zodiac signs. The constellations labeled include Perseus, Camelopardalis, Ursa Major, Ursa Minor, Canes Venatici, Coma Berenices, Boötes, Corona Borealis, Hercules, Virgo, Serpens, Ophiuchus, Libra, Scorpius, Corona Australis, Telescopium, Sagittarius, Microscopium, Piscis Austrinus, Aquarius, Equuleus, Delphinus, Sagitta, Vulpecula, Cygnus, Lacerta, Cepheus, Cassiopeia, Andromeda, Pegasus, Pisces, and Saturn. The chart is a useful tool for identifying stars and constellations in the Northern Hemisphere.

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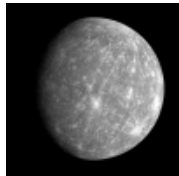
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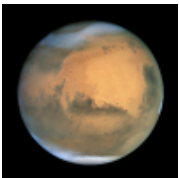
Solar System Summary



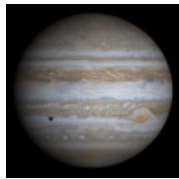
The Moon is a 3 day-old waxing crescent, and is approaching first quarter. From Mt. Pinos, it is visible from soon after it rises, August 15, at 09:26, until soon before it set sat 21:15. Always take extreme caution when trying to make daytime observations of the Moon while the Sun is above the horizon.



Mercury will soon pass behind the Sun. From Mt. Pinos, however, it is visible in the dawn sky, August 15, rising at 05:06 (PDT) – 1 hour and 4 minutes before the Sun – and reaching an altitude of 8° above the eastern horizon before fading from view as dawn breaks at around 05:54.



Mars is currently emerging from behind the Sun. From Mt. Pinos, it is visible in the dawn sky, August 15, rising at 02:12 (PDT) – 3 hours and 58 minutes before the Sun – and reaching an altitude of 37° above the eastern horizon before fading from view as dawn breaks at around 05:30.



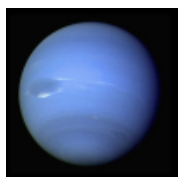
Jupiter recently passed behind the Sun at solar conjunction. From Mt. Pinos, on August 15 it is not observable – it will reach its highest point in the sky during daytime and is no higher than 7° above the horizon at dawn.



Saturn is currently visible as a morning object. From Mt. Pinos, it is visible, August 15, in the morning sky, becoming accessible around 22:56, when it reaches an altitude of 10° above your eastern horizon. It will then reach its highest point in the sky at 04:12, 58° above your southern horizon. It will be lost to dawn twilight around 05:39, 52° above your south-western horizon.



Uranus is currently emerging from behind the Sun. From Mt. Pinos, it is visible, August 15, in the dawn sky, rising at 00:24 (PDT) and reaching an altitude of 55° above the eastern horizon before fading from view as dawn breaks at around 05:06.



Neptune is currently visible as a morning object. From Mt. Pinos, it is visible, August 15, in the morning sky, becoming accessible around 23:20, when it reaches an altitude of 21° above your eastern horizon. It will then reach its highest point in the sky at 03:32, 55° above your southern horizon. It will be lost to dawn twilight around 05:06, 49° above your south-western horizon.

Moon Phases



First Qtr
Aug. 19



Full
Aug. 27



Third Qtr
Sept. 4



New
Aug. 12

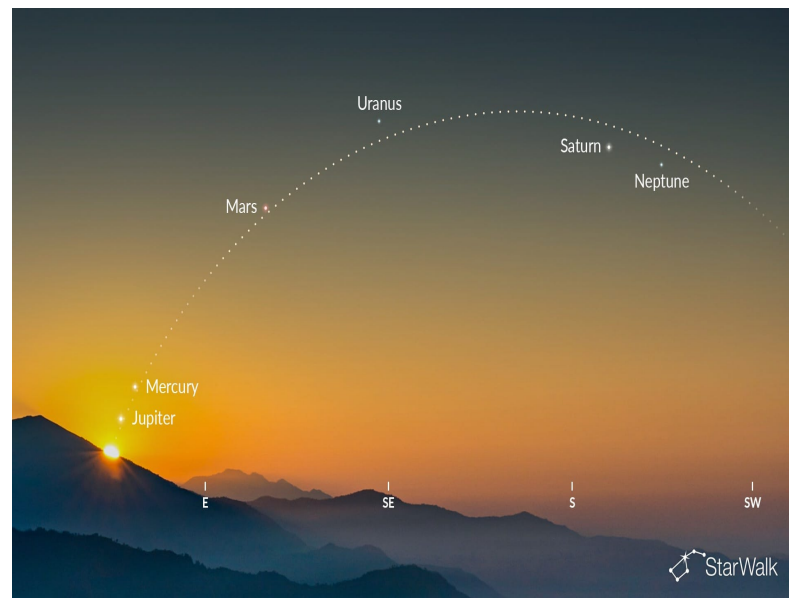
Sun and Moon Rise and Set*

Date	Moonrise	Moonset	Sunrise	Sunset
8/15/2026	09:26	15:25	06:10	19:39

The Planets

	Rise	Culm.*	Set
Mercury	05:06	12:04	19:01
Venus	09:51	15:42	21:32
Mars	02:12	09:25	16:39
Jupiter	05:09	12:04	19:00
Saturn	22:01	04:12	10:24
Uranus	00:24	07:28	14:33
Neptune	21:29	03:32	09:35

*The exact time the planet crosses the observer's local meridian or zenith.



Planetary alignment of six planets on August 12, 2026, 04:30 to 05:30 AM local time roughly 60 to 90 minutes before sunrise.

*Sun, Moon and Planetary, August 15, 2026, Southern California.

*All time mentioned are local and approximate.

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 August 14, 2026. The list is sorted by the transit 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	3:31AM	Circum	Cep
NGC 104	47 Tucanae	Globular Cluster	00h 24m 10s	-72°04.6'	4.0	Never	3:42AM	Always	Tuc
NGC 225		Open Cluster	00h 43m 28s	+61°47.1'	7.0	Circum	4:02AM	Circum	Cas
NGC 247		Galaxy	00h 47m 11s	-20°45.3'	9.1	11:03PM	4:05AM	9:08AM	Cet
NGC 253		Galaxy	00h 47m 35s	-25°17.0'	7.2	11:19PM	4:06AM	8:53AM	Scl
NGC 457	Owl Cluster	Open Cluster	01h 19m 10s	+58°20.0'	6.4	Circum	4:37AM	Circum	Cas
NGC 654		Open Cluster	01h 44m 10s	+61°53.0'	6.5	Circum	5:02AM	Circum	Cas
NGC 659		Open Cluster	01h 44m 16s	+60°42.0'	7.9	Circum	5:03AM	Circum	Cas
NGC 663		Open Cluster	01h 46m 04s	+61°15.0'	7.1	Circum	5:04AM	Circum	Cas
NGC 752		Open Cluster	01h 57m 51s	+37°41.0'	5.7	9:03PM	5:16AM	1:29PM	And
Stock 2	Muscleman Cluster	Open Cluster	02h 15m 04s	+59°16.0'	4.4	Circum	5:33AM	Circum	Cas
NGC 869	Double Cluster	Open Cluster	02h 19m 03s	+57°09.0'	5.3	Circum	5:37AM	Circum	Per
NGC 884	Double Cluster	Open Cluster	02h 22m 27s	+57°06.9'	6.1	Circum	5:41AM	Circum	Per
NGC 891		Galaxy	02h 22m 36s	+42°20.8'	9.9	9:00PM	5:41AM	2:21PM	And
NGC 1023		Galaxy	02h 40m 27s	+39°03.7'	9.4	9:38PM	5:59AM	2:19PM	Per
Mel 20	Alpha Persei Association	Open Cluster	03h 22m 03s	+48°59.9'	1.2	9:03PM	6:40AM	4:17PM	Per
Box Gal Cluster		Galactic Cluster	03h 38m 31s	-35°26.6'		2:51AM	6:57AM	11:03AM	For
Orion's Cascade		Asterism	03h 57m 30s	+63°04.2'		Circum	7:16AM	Circum	Cam
NGC 1502		Open Cluster	04h 07m 45s	+62°19.8'	6.9	Circum	7:26AM	Circum	Cam
NGC 1535	Multiple shells	Planetary Nebula	04h 14m 16s	-12°44.2'	10.4	2:06AM	7:33AM	1:00PM	Eri
NGC 1528		Open Cluster	04h 15m 24s	+51°13.8'	6.4	9:28PM	7:34AM	5:39PM	Per
Mel 25	Hyades	Open Cluster	04h 27m 02s	+16°00.0'	0.5	12:57AM	7:45AM	2:34PM	Tau
IC 418		Planetary Nebula	05h 27m 30s	-12°41.5'	10.7	3:19AM	8:46AM	2:13PM	Lep
NGC 1907		Open Cluster	05h 28m 00s	+35°18.8'	8.2	12:45AM	8:46AM	4:47PM	Aur
NGC 1973	Part of Running Man Nebula	Bright Nebula	05h 35m 09s	-04°43.9'		3:04AM	8:53AM	2:43PM	Ori
NGC 1975	Part of Running Man Nebula	Bright Nebula	05h 35m 21s	-04°40.9'		3:04AM	8:54AM	2:43PM	Ori
NGC 1977	Part of Running Man Nebula	Bright Nebula	05h 35m 27s	-04°49.9'		3:04AM	8:54AM	2:43PM	Ori
NGC 2070	Tarantula Nebula	Bright Nebula	05h 38m 39s	-69°04.8'	8.3	Never	8:57AM	Always	Dor
NGC 2158		Open Cluster	06h 07m 33s	+24°05.9'	8.6	2:11AM	9:26AM	4:41PM	Gem
NGC 2169	37 Cluster	Open Cluster	06h 08m 27s	+13°57.0'	5.9	2:44AM	9:27AM	4:09PM	Ori
NGC 2174		Bright Nebula	06h 10m 01s	+20°34.0'	5.0	2:25AM	9:28AM	4:31PM	Ori
NGC 2232		Open Cluster	06h 26m 37s	-04°44.8'	3.9	3:55AM	9:45AM	3:35PM	Mon
NGC 2237	Rosette Nebula	Bright Nebula	06h 32m 19s	+04°59.0'	5.5	3:34AM	9:51AM	4:07PM	Mon
NGC 2244		Open Cluster	06h 32m 25s	+04°52.0'	4.8	3:34AM	9:51AM	4:07PM	Mon
NGC 2261	Hubble's Variable Nebula	Bright Nebula	06h 39m 13s	+08°44.0'	11.0	3:30AM	9:58AM	4:25PM	Mon
NGC 2264	Christmas Tree Cluster	Open Cluster	06h 40m 58s	+09°53.7'	3.9	3:29AM	9:59AM	4:30PM	Mon
NGC 2301		Open Cluster	06h 51m 49s	+00°28.0'	6.0	4:06AM	10:10AM	4:14PM	Mon
NGC 2359	Thor's Helmet	Bright Nebula	07h 17m 48s	-13°12.9'		5:11AM	10:36AM	4:02PM	CMa
NGC 2360		Open Cluster	07h 17m 48s	-15°36.8'	7.2	5:18AM	10:36AM	3:55PM	CMa
NGC 2362		Open Cluster	07h 18m 48s	-24°56.8'	4.1	5:49AM	10:37AM	3:25PM	CMa
NGC 2392	Eskimo Nebula	Planetary Nebula	07h 29m 10s	+20°54.7'	8.6	3:43AM	10:47AM	5:52PM	Gem
NGC 2403		Galaxy	07h 36m 55s	+65°35.7'	8.5	Circum	10:55AM	Circum	Cam
NGC 2438		Planetary Nebula	07h 41m 51s	-14°44.1'	11.0	5:39AM	11:00AM	4:21PM	Pup
NGC 2467		Bright Nebula	07h 52m 30s	-26°22.8'	7.1	6:28AM	11:11AM	3:54PM	Pup
NGC 2841		Galaxy	09h 22m 01s	+50°58.3'	9.2	2:39AM	12:40PM	10:42PM	UMa
NGC 2903		Galaxy	09h 32m 10s	+21°30.0'	9.0	5:44AM	12:50PM	7:57PM	Leo

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NGC 3115	Spindle Gal	Galaxy	10h 05m 14s	-07°43.0'	8.9	7:42AM	1:24PM	7:05PM	Sex
NGC 3242	Ghost of Jupiter	Planetary Nebula	10h 24m 48s	-18°38.2'	8.6	8:34AM	1:43PM	6:52PM	Hya
NGC 3372	Eta Carina Nebula	Bright Nebula	10h 43m 47s	-59°52.0'	13.0	Never	2:02PM	Always	Car
NGC 3532		Open Cluster	11h 06m 23s	-58°40.0'	3.0	Never	2:25PM	Always	Car
NGC 3766		Open Cluster	11h 36m 05s	-61°37.0'	5.3	Never	2:54PM	Always	Cen
NGC 3877		Galaxy	11h 46m 07s	+47°29.6'	11.0	5:43AM	3:04PM	12:26AM	UMa
NGC 4038	The Antennae Galaxy	Galaxy	12h 01m 53s	-18°51.9'	10.3	10:12AM	3:20PM	8:29PM	Crv
NGC 4039	The Antennae	Galaxy	12h 01m 54s	-18°53.1'	10.6	10:12AM	3:20PM	8:29PM	Crv
NGC 4244		Galaxy	12h 17m 29s	+37°48.4'	10.4	7:22AM	3:36PM	11:49PM	CVn
NGC 4361		Planetary Nebula	12h 24m 30s	-18°47.6'	10.3	10:34AM	3:43PM	8:52PM	Crv
Mel 111	Coma Berenices Star Cluster	Open Cluster	12h 25m 00s	+26°00.1'	1.8	8:21AM	3:43PM	11:05PM	Com
rkarian's Chain		Galactic Chain	12h 25m 04s	+12°53.2'		9:04AM	3:43PM	10:23PM	Vir
3C 273		Quasar	12h 29m 06s	+02°03.0'	12.0	9:39AM	3:47PM	9:56PM	Vir
NGC 4526	Lost Galaxy	Galaxy	12h 34m 03s	+07°42.0'	9.7	9:28AM	3:52PM	10:17PM	Vir
NGC 4565	Bernice's Hair Clip	Galaxy	12h 36m 20s	+25°59.3'	9.6	8:33AM	3:55PM	11:16PM	Com
NGC 4567	Siamese Twins	Galaxy	12h 36m 33s	+11°15.5'	11.3	9:20AM	3:55PM	10:29PM	Vir
NGC 4568	Siamese Twins	Galaxy	12h 36m 35s	+11°14.2'	10.8	9:21AM	3:55PM	10:29PM	Vir
NGC 4631		Galaxy	12h 42m 11s	+32°32.7'	9.2	8:12AM	4:00PM	11:49PM	CVn
NGC 4656		Galaxy	12h 43m 58s	+32°10.3'	10.5	8:16AM	4:02PM	11:49PM	CVn
NGC 4755	Jewel Box Cluster	Open Cluster	12h 53m 35s	-60°20.1'	4.2	Never	4:12PM	Always	Cru
Abell 1656	Coma Gal Cluster	Galactic Cluster	12h 59m 48s	+27°59.0'	11.0	8:49AM	4:18PM	11:47PM	Com
NGC 5128	Centaurus A	Galaxy	13h 25m 29s	-43°01.1'	6.8	1:19PM	4:44PM	8:08PM	Cen
NGC 5139	Omega Centauri	Globular Cluster	13h 26m 46s	-47°28.7'	3.7	1:54PM	4:45PM	7:36PM	Cen
NGC 5746		Galaxy	14h 44m 57s	+01°57.3'	10.3	11:55AM	6:03PM	12:11AM	Vir
NGC 5907		Galaxy	15h 15m 52s	+56°19.8'	10.3	Circum	6:34PM	Circum	Dra
NGC 6210		Planetary Nebula	16h 44m 30s	+23°48.7'	9.7	12:49PM	8:03PM	3:17AM	Her
NGC 6231	Table of Scorpius	Open Cluster	16h 54m 01s	-41°48.1'	2.6	4:40PM	8:12PM	11:45PM	Sco
B 59	Pipe Nebula (stem)	Dark Nebula	17h 21m 02s	-27°00.0'		3:58PM	8:39PM	1:20AM	Oph
NGC 6369		Planetary Nebula	17h 29m 22s	-23°45.6'	11.0	3:55PM	8:48PM	1:40AM	Oph
B 78	Pipe Nebula (bowl)	Dark Nebula	17h 33m 02s	-26°00.0'		4:07PM	8:51PM	1:36AM	Oph
NGC 6397		Globular Cluster	17h 40m 43s	-53°40.5'	5.7	7:25PM	8:59PM	10:33PM	Ara
IC 4665		Open Cluster	17h 46m 20s	+05°43.1'	4.2	2:46PM	9:05PM	3:23AM	Oph
NGC 6543	Cat's Eye Nebula	Planetary Nebula	17h 58m 36s	+66°38.2'	8.3	Circum	9:17PM	Circum	Dra
NGC 6572		Planetary Nebula	18h 12m 09s	+06°51.0'	9.0	3:09PM	9:30PM	3:52AM	Oph
NGC 6545	Needle Galaxy	Galaxy	18h 12m 18s	-63°46.7'	13.2	Never	9:31PM	Always	Pav
NGC 6633		Open Cluster	18h 27m 43s	+06°34.2'	4.6	3:25PM	9:46PM	4:07AM	Oph
NGC 6781		Planetary Nebula	19h 18m 28s	+06°32.7'	11.8	4:16PM	10:37PM	4:58AM	Aql
Cr 399	Brocchi's Cluster	Asterism	19h 25m 26s	+20°11.2'	3.6	3:42PM	10:44PM	5:46AM	Vul
Albireo		Star	19h 30m 45s	+27°57.9'	3.1	3:20PM	10:49PM	6:18AM	Cyg
NGC 6819		Open Cluster	19h 41m 20s	+40°11.3'	7.3	2:33PM	11:00PM	7:27AM	Cyg
NGC 6826	Blinking Planetary	Planetary Nebula	19h 44m 53s	+50°31.6'	8.8	1:08PM	11:03PM	8:59AM	Cyg
NGC 6885		Open Cluster	20h 12m 02s	+26°29.3'	8.1	4:07PM	11:30PM	6:54AM	Vul
NGC 6888	Crescent Nebula	Bright Nebula	20h 12m 14s	+38°20.3'	8.0	3:14PM	11:31PM	7:47AM	Cyg
NGC 6939		Open Cluster	20h 31m 27s	+60°38.3'	7.8	Circum	11:50PM	Circum	Cep
NGC 6960	Western Veil	Supernova Remnant	20h 45m 38s	+30°43.3'		4:24PM	12:04AM	7:44AM	Cyg
NGC 6992	Eastern Veil	Supernova Remnant	20h 56m 14s	+31°04.3'		4:33PM	12:15AM	7:56AM	Cyg
NGC 7000	North American Nebula	Bright Nebula	20h 58m 32s	+44°33.3'		3:21PM	12:17AM	9:13AM	Cyg

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NGC 7009	Saturn Nebula	Planetary Nebula	21h 04m 15s	-11°21.8'	8.3	6:52PM	12:23AM	5:54AM	Aqr
IC 1396		Bright Nebula	21h 39m 09s	+57°47.0'	3.5	Circum	12:57AM	Circum	Cep
NGC 7293	Helical Nebula	Planetary Nebula	22h 29m 40s	-20°47.3'	6.3	8:46PM	1:48AM	6:50AM	Aqr
NGC 7331	Little Andromeda Galaxy	Galaxy	22h 37m 08s	+34°25.4'	9.5	5:59PM	1:55AM	9:52AM	Peg
King 10		Open Cluster	22h 54m 58s	+59°10.2'		Circum	2:13AM	Circum	Cep
NGC 7662	Blue Snowball Nebula	Planetary Nebula	23h 25m 57s	+42°32.7'	8.6	6:02PM	2:44AM	11:26AM	And
NGC 7789		Open Cluster	23h 57m 04s	+56°44.1'	6.7	Circum	3:15AM	Circum	Cas
NGC 40		Planetary Nebula	00h 13m 08s	+72°31.7'	10.7	Circum	3:31AM	Circum	Cep

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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