

What's Up, Doc? †

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This document tells you what objects are visible this next month for many of the Astronomical League Clubs. If you are working on one of the more advanced club, then I assume that you are tracking where your objects are all the time. I have concentrated on the common and starter level clubs. This information is based on 9 PM.

Naked-Eye Clubs

Meteors

<u>Showers</u>	<u>Duration</u>	<u>Maximum</u>	<u>Type</u>
Gamma Aquarids	9/1 to 9/14	9/7 & 9/8	Minor
Alpha Triangulids	9/5 to 9/15	9/11 & 9/12	Minor
Alpha Aurigids	8/25 to 9/6	9/1 & 9/2	Minor
Eta Draconids	8/28 to 9/23	9/12 & 9/13	Minor
Gamma Piscids	8/26 to 10/22	9/23 & 9/24	Minor
Southern Piscids	8/12 to 10/7	9/11 to 9/20	Minor

Constellations, Northern Skies – any night, any time, anywhere, the darker the sky the better.

Last Chance this cycle: Draco, Canes Venatici, Bootes, Serpens, Libra, Scorpius, Telescopium.

Transit: Cygnus, Lyra, Sagitta, Vulpecula, Delphinus, Aquila, Scutum, Sagittarius.

New arrivals: Andromeda, Pisces, Pegasus, Aquarius, Microscopium, Piscis Austrinus.

Binocular Clubs

Binocular Messier – Monthly highlights include:

Easy – 2, 3, 4, 5, 6, 7, 8, 10, 11, 12, 13, 15, 16, 17, 18, 22, 23, 24, 25, 27, 29, 31, 39, 52, 55, 92, 103.

Medium – 14, 19, 28, 30, 33, 40, 62, 63, 80, 81, 82, 94.

Hard – 9, 26, 32, 51, 54, 56, 71, 75, 101, 106.

Big Binoculars – 69, 70, 72, 102, 107, 109, 110.

Deep Sky Binocular – Monthly highlights include (by Astronomical League numbers):

1, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 17, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60.

Other Clubs

Messier

In addition to those listed under Binocular Messier, check out: 21, 57, 73, 76, 108.

Caldwell

1, 2, 3, 4, 5, 6, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 27, 28, 29, 30, 33, 34, 37, 42, 43, 44, 47, 55, 57, 63, 68, 69, 76, 78.

Double Star (by Astronomical League numbers):

1, 4, 7, 9, 10, 12, 13, 14, 15, 18, 21, 22, 26, 29, 31, 35, 36, 37, 38, 39, 41, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 54, 56, 57, 58, 60, 61, 62, 63, 64, 66, 67, 68, 69, 70, 71, 72, 84, 86, 87, 88, 89, 90, 91, 93, 94, 96, 97.

Other Clubs (of the Solar System)

Comets – down to magnitude 12:

10P/Tempel 2 (9.9), 103P/Hartley 2 (9).

Planetary – These are the tasks that can be done this month:

Sun – Any clear day is a good time to get those sunspots. Sunset mid-month is at 1925.

Moon:

The Maria requirement can be done any time the moon is visible. Look before 9/1 and 9/30, and after 9/15 for the fullest views.

The Highlands requirement can be done at the same time.

The Crater Ages requirement is best done on 9/14 or 9/15.

The Scarps requirement is best done on 9/16.

Occultations occur all the time, the bright ones can be found on the internet. Objects disappear on the East side of the moon.

Mercury and Ceres are not visible during the evening hours.

Venus is in Virgo, and sets at 21:10.

Asteroids – Course Plotting and Measuring Movement requirements can be done at any time on any asteroid. See above to identify the bright ones this month.

Mars is in Virgo and sets at 2202.

Jupiter is in Pisces, rises at 1946, and is visible all night long. All requirements can be done when

Jupiter is visible: markings, moons, etc., but it is tougher as it becomes lower on the horizon.

Saturn is in Virgo and sets at 2012.

Uranus is in Pisces, rises at 1943, and is visible all night long.

Neptune is in Capricorn, rises at 1806 and visible all night long.

Pluto is in Sagittarius and sets at 0115.

Lunar (times are shown for Central US Time)

Key timings are indicated below:

New, 9/8 4 days, 9/12 7 days, 9/15 10 days, 9/18 14 days, 9/22

Old moon in new moons arms – before 5:30 on 9/11, ~10 % illuminated. (72 hr > New)

New moon in old moons arms – after 5:30 on 9/5, ~10 % illuminated. (72 hr < New)

Waxing Crescent – before 21:30 on 9/10, ~4 % illuminated. (40 hr > New)

Waning Crescent – after 5:30 on 9/6, ~4 % illuminated. (48 hr < New)

Clubs Not Covered

* ARP Peculiar Galaxies	Asteroids	Carbon Stars	Comets
Constellation Hunter – South	* Dark Nebulae	* Earth Orbiting Satellites	
* Flat Galaxies	* Galaxy Groups & Clusters		Galileo
* Globular Clusters	* Herschel 400	* Herschel II	* Local Galaxy Groups
Lunar II	Master Observer	Meteors	* Open Clusters
Outreach	* Planetary Nebulae	* Sky Puppies	
* Southern Skies Binocular	* Southern Skies Telescope		Sunspotters
* Universe Sampler	* Urban		

* - Although these clubs are not detailed in this “What’s Up Doc?” handout, you can get information on many of their objects by using the “What’s Up Tonight, Doc?” spreadsheet (version 4.1). To get your copy, it’s on the club website, or talk to the Doc, Aaron Clevenson, by sending an email to: aaron@clevenson.org

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