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 Observing Programs. If you are working on one of the more advanced observing programs, then I assume that you are also probably tracking where your objects are all the time. I concentrate on the more common and starter level programs. This information is based on 9 PM Pacific Time in **Seattle, WA**.

Naked-Eye Clubs

Meteors

Shower	Duration	Maximum	Type
Leonids	**11/6 to 11/30**	**11/17 @ 23:00**	**Major**
Northern Taurids	**10/20 to 12/10**	**11/12**	**Moderate**
Southern Taurids	**9/20 to 11/20**	**11/12**	**Moderate**
Alpha Monocerotids	11/15 to 11/25	11/22	Minor
November Orionids	11/13 to 12/6	11/28	Minor

Constellations, Northern Skies – any night, any time, anywhere, the darker the sky the better.
Last Chance this cycle: Lyra, Vulpecula, Sagitta, Aquila, Capricornus, Piscis Austrinus, Grus.
Transit: Cepheus, Cassiopeia, Lacerta, Pegasus, Andromeda, Pisces, Cetus, Phoenix, Sculptor.
New arrivals: Auriga, Taurus, Orion, Eridanus, Fornax, Phoenix.

Binocular Clubs

Binocular Messier – Monthly highlights include:
Easy – 2, 15, 27, 29, 31, 34, 35, 36, 37, 38, 39, 45, 52, 103.
Medium – 30, 33, 81, 82.
Hard – 1, 32, 56, 71.
Big Binoculars – 72, 77, 110.

Deep Sky Binocular – Monthly highlights include:
1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 20, 21, 22, 23, 24, 25, 26, 27, 34, 38, 43, 47, 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: 57, 73, 74, 76.

Caldwell

1, 2, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 22, 23, 24, 27, 28, 30, 31, 33, 34, 37, 41, 42, 43, 44, 47, 51, 55, 56, 62, 63, 65, 67, 70, 72.

Double Star

2, 3, 6, 7, 8, 10, 13, 19, 21, 24, 27, 28, 30, 31, 33, 36, 38, 42, 44, 46, 47, 48, 49, 50, 53, 55, 56, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 77, 83, 84, 85, 88, 89, 90.

Other Observing Programs (continued)

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

Sun – Any clear day is a good time to get those sunspots. Sunset is 1618 PT at mid-month.

Moon:

The Maria requirement can be done any time the moon is visible. Look after 11/16 and before 11/2 for the fullest views.

The Highlands requirement can be done at the same time.

The Crater Ages requirement is best done on 11/15 and 11/16.

The Scarps requirement is best done on 11/17.

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

Mercury, Venus, and Mars are not available in the evening sky mid-month.

Asteroids – Course Plotting and Measuring Movement requirements can be done at any time on any asteroid.

Ceres is in Cetus and is up all evening mid-month.

Jupiter is in Gemini and rises at 1825 mid-month.

Saturn is in Aquarius and sets at 2356 mid-month.

Uranus is in Taurus and is up all evening mid-month.

Neptune is in Pisces and is up all evening mid-month.

Pluto is in Capricorn and sets at 1856 mid-month.

Lunar

New Moon – 11/9 at 2302 PT

Key timings are indicated below:

4 days, 11/8 7 days, 11/12 10 days, 11/15 14 days, 11/19

Old moon in new moons arms – before 2302 PT on 11/11, 10 % illuminated. (72 hr > New)

New moon in old moons arms – after 2302 PT on 11/5, 10 % illuminated. (72 hr < New)

Waxing Crescent – before 2302 PT on 11/10, 3 % illuminated. (48 hr > New)

Waning Crescent – after 2302 PT on 11/6, 3 % illuminated. (48 hr < New)

Other Astronomical Events this month:

11/2 – Moon/Jupiter conjunction (31')
11/4 – Mercury at inferior Conjunction
11/10 – Mercury at Perihelion
11/13 – Mercury ends retrograde motion
11/13 – Lunar apogee
11/14 – Venus ends retrograde motion
11/18 – Jupiter at western quadrature
11/19 – Ceres at western quadrature
11/20 – Mercury at greatest elongation west
11/20 – Mars at western quadrature
11/25 – Lunar Perigee

* - 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, talk to the Doc, Aaron Clevenson, by sending an email to aaron@clevenson.org. It is also available on the club website.

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