What’s Up, Doc? †
June 2024

Dr. Aaron B. Clevenson, Director, Insperity Observatory in Humble ISD

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 clubs, 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 PT for Seattle WA (PDT).

Naked-Eye Clubs

Meteors – any night, any time, anywhere, the darker the sky the better.

<table>
<thead>
<tr>
<th>Shower</th>
<th>Duration</th>
<th>Maximum</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>June Lyrids</td>
<td>6/10 to 6/21</td>
<td>6/15 &amp; 6/16</td>
<td>Moderate</td>
</tr>
<tr>
<td>June Aquilids</td>
<td>6/2 to 7/2</td>
<td>6/16 &amp; 6/17</td>
<td>minor</td>
</tr>
<tr>
<td>June Bootids</td>
<td>6/22 to 7/2</td>
<td>6/27</td>
<td>minor</td>
</tr>
<tr>
<td>Corvids</td>
<td>6/25 to 7/3</td>
<td>6/27 &amp; 6/28</td>
<td>minor</td>
</tr>
<tr>
<td>Tau Herculis</td>
<td>5/19 to 6/19</td>
<td>6/9 &amp; 6/10</td>
<td>minor</td>
</tr>
<tr>
<td>Ophiuchids</td>
<td>5/19 to 7/2</td>
<td>6/20 &amp; 6/21</td>
<td>minor</td>
</tr>
<tr>
<td>Theta Ophiuchids</td>
<td>5/21 to 6/16</td>
<td>6/10 &amp; 6/11</td>
<td>minor</td>
</tr>
<tr>
<td>Sagittarids</td>
<td>6/10 to 6/16</td>
<td>6/10 &amp; 6/11</td>
<td>minor</td>
</tr>
<tr>
<td>Phi Sagittarids</td>
<td>6/1 to 7/15</td>
<td>6/18 &amp; 6/19</td>
<td>minor</td>
</tr>
<tr>
<td>Chi Scorpiids</td>
<td>5/6 to 7/2</td>
<td>5/28 &amp; 6/5</td>
<td>minor</td>
</tr>
<tr>
<td>Omega Scorpiids</td>
<td>5/19 to 7/11</td>
<td>6/3 to 6/6</td>
<td>minor</td>
</tr>
<tr>
<td>June Scutids</td>
<td>6/2 to 7/29</td>
<td>6/27 &amp; 6/28</td>
<td>minor</td>
</tr>
<tr>
<td>Arietids</td>
<td>4/14 to 6/24</td>
<td>6/7</td>
<td>DAYLIGHT</td>
</tr>
<tr>
<td>Zeta Perseids</td>
<td>5/20 to 7/5</td>
<td>6/13 &amp; 6/24</td>
<td>DAYLIGHT</td>
</tr>
<tr>
<td>Veta Taurids</td>
<td>6/5 to 7/18</td>
<td>6/29 &amp; 6/30</td>
<td>DAYLIGHT</td>
</tr>
</tbody>
</table>

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

- Last Chance this cycle: Lynx, Canis Minor, Cancer, Hydra, Antlia.
- Transit Ursa Major, Canes Venatici, Coma Berenices, Virgo, Corvus.
- New arrivals: Draco, Lyra, Hercules, Ophiuchus, Serpens, :upus.

Binocular Clubs

Binocular Messier – Monthly highlights include:

- Easy – 3, 4, 5, 10, 12, 13, 44, 67, 92.
- Medium – 15, 19, 40, 49, 53, 63, 64, 80, 81, 82, 83, 94.

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

5, 34, 38, 42, 43, 45, 46, 47, 50, 56.

Other Clubs

Messier

In addition to those listed under Binocular Messier, check out: 57, 91, 98.

Caldwell

1, 2, 3, 4, 5, 6, 7, 12, 15, 21, 25, 26, 29, 32, 35, 36, 38, 39, 40, 45, 48, 52, 53, 59, 60, 61, 66, 77, 80, 83.

Double Star (by Astronomical League numbers):

1, 9, 10, 11, 12, 14, 15, 16, 17, 18, 20, 22, 23, 25, 26, 29, 31, 32, 34, 35, 36, 37, 38, 39, 40, 41, 43, 44, 45, 48, 50, 51, 52, 54, 56, 57, 58, 59, 65, 66, 67, 68, 69, 70, 71, 74, 86, 87, 91, 92, 93, 94, 96, 100.
Other Clubs (of the Solar System)

Solar System – These are the tasks that can be done this month:
All Planets and visible Dwarf Planets are morning “stars” this month.
Sun – Any clear day is a good time to get those sunspots, if there are any to be seen.
Sunset 2109 mid-month.
Moon:
The Maria requirement can be done any time the moon is visible. Look before 6/28 or after 6/13
for the fullest views.
The Highlands requirement can be done at the same time.
The Crater Ages requirement is best done on 6/12, or 6/13.
The Scarps requirement is best done on 6/145.
Occultations occur all the time, the bright ones can be found on the internet. Objects disappear
on the East side of the moon.
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.

Lunar
Key timings are indicated below:
New, 6/6 4 days, 6/10 7 days, 6/13 10 days, 6/16 14 days, 6/20
Old moon in new moon’s arms – before 0537 on 6/9, ~10 % illuminated. (72 hr > New)
New moon in old moon’s arms – after 0537 on 6/3, ~10 % illuminated. (72 hr < New)
Waxing Crescent – before 0537 on 6/8, ~4 % illuminated. (40 hr > New)
Waning Crescent – after 0537 on 6/4, ~4 % illuminated. (48 hr < New)

Major Astronomical Events:
• 6/1 – Moon at Ascending Node
• 6/2 – Moon at Perigee
• 6/4 – Venus at Superior Conjunction
• 6/13 – Mercury at Perihelion
• 6/14 – Moon at Apogee
• 6/15 – Moon at Descending Node
• 6/27 – Moon at Perigee
• 6/28 – Moon at Ascending Node

* - 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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Observing Programs with the astronomical League: https://www.astroleague.org/al/obsclubs/AlphabeticObservingClubs.html

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Insperity Observatory, 2505 S. Houston Avenue, Humble, TX: www.humbleisd.net/observatory