

## Bright Object Observing List, Valid Dates: July 22 – 30, 2017

Observer: \_\_\_\_\_

Target Audience Level: **Anyone**

Suggested Optical aid: **Binoculars** – all objects are magnitude 7.5 or brighter (Guide8)

Pin requirements: **Observe any 20 of the following list using naked eye or binoculars. No telescopes allowed.**

Object	Type	Constellation	Date	Notes, more space on back
M3	Globular Cluster	Bootes		
M5	Globular Cluster	Serpens Caput		
M13	Globular Cluster	Hercules		
M92	Globular Cluster	Hercules		
M12	Globular Cluster	Ophiuchus		
M10	Globular Cluster	Ophiuchus		
IC 4665	Open Cluster	Ophiuchus		
M19	Globular Cluster	Ophiuchus		
M62	Globular Cluster	Ophiuchus		
M80	Globular Cluster	Scorpius		
M4	Globular Cluster	Scorpius		
NGC 6441	Globular Cluster	Sagittarius		
M7	Open Cluster	Scorpius		
M6	Open Cluster	Scorpius		
M55	Globular Cluster	Sagittarius		
M28	Globular Cluster	Sagittarius		
M22	Globular Cluster	Sagittarius		
M8	Emission Nebula	Sagittarius		
M20	Reflection Nebula/Emission Nebula	Sagittarius		
M18	Open Cluster	Sagittarius		
M23	Open Cluster	Sagittarius		
B92	Dark Nebula	Sagittarius		
M17	Emission Nebula/ Open Cluster	Sagittarius		
M2	Globular Cluster	Ophiuchus		
NGC 7293	Planetary Nebula	Aquarius		
M11	Open Cluster	Scutum		
B1422/143	Dark Nebula	Aquila		
Col 399	Open Cluster	Vulpecula		
M15	Globular Cluster	Pegasus		
M31	Galaxy	Andromeda		
M33	Galaxy	Andromeda		
NGC 869	Open Cluster	Perseus		
NGC 884	Open Cluster	Perseus		
NGC 457	Open Cluster	Cassiopeia		
Galilean Moons	Natural satellites, Jupiter	Virgo		

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<b>Galilean Moons</b>	