

# Challenge Objects Observing List, Valid Dates: Aug 12-20, 2023

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

Suggested Optical aid: **Telescopes with aperture at least 250 mm (10")**

Pin requirements: **Find any 15 of the following. No 'goto' or setting circles allowed**

Object	Type	Constellation	Mag	Date	Notes (more space on back)
<b>NGC 6364</b>	Galaxy	Hercules	14.1		
<b>IC 4617 *</b>	Galaxy	Hercules	16.0		
<b>NGC 6207</b>	Galaxy	Hercules	12.1		
<b>PGC 60967</b>	Galaxy Sb	Hercules	15.0		
<b>Arp 103</b>	Galaxy x 3	Hercules	14.9		
<b>UGC 9241</b>	Galaxy Sc	Bootes	14.2		
<b>UGC 9240</b>	Galaxy Irregular	Bootes	13.3		
<b>MRK 841</b>	Active Galactic Nuclei	Bootes	14.0		
<b>NGC 6791</b>	Open Cluster	Lyra	9.5		
<b>Pluto</b>	Dwarf planet	Capricorn	14.3		
<b>NGC 6822</b>	Galaxy	Sagittarius	9.3		
<b>Palomar 11</b>	Globular Cluster	Aquarius	9.8		
<b>IC 5146</b>	Emission Neb/ Reflection Neb	Cygnus	7.2		
<b>NGC 7317-20</b>	Galaxy	Pegasus	14.6		
<b>Jones 1</b>	Planetary Neb	Pegasus	12.1		
<b>NGC 7822 *</b>	Emission Neb/ Reflection Neb	Cepheus			
<b>IC 59</b>	Emission Neb/ Reflection Neb	Cassiopeia	13.3		
<b>NGC 609</b>	Open Cluster	Cassiopeia	11.0		
<b>IC 1795</b>	Emission Neb	Cassiopeia	7		
<b>Maffei 1 *</b>	Galaxy E3	Cassiopeia	17.0		
<b>Abel 426</b>	Galaxy Cluster	Perseus	13		
<b>NGC 1432/35</b>	Reflection Neb	Taurus	3.9/4.2		
<b>IC 342</b>	Galaxy SBc	Camelopardalis	9.1		

\* suggested aperture at least 300 mm

<b>Object</b>	<b>Notes</b>
<b>NGC 6364</b>	
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<b>NGC 6207</b>	
<b>PGC 60967</b>	
<b>Arp 103</b>	
<b>UGC 9241</b>	
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<b>MRK 841</b>	
<b>NGC 6791</b>	
<b>Pluto</b>	
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<b>IC 342</b>	