

- M16** (NGC 6611)
- *Eagle Nebula*
 - Starforming Nebula in Serpens
 - An emission nebula, with Open Star Cluster
 - 7,000 light years distant
- M17** (NGC 6618)
- *Omega, Swan, Horseshoe, or Lobster Nebula*
 - Starforming Nebula in Sagittarius
 - An emission nebula, with Open Star Cluster
 - 5,500 light years distant
- M18** (NGC 6613)
- Open Cluster in Sagittarius
 - 4,900 light years distant
- M24** (Contains NGC 6603)
- Sagittarius Star Cloud, Delle Caustiche
 - Milky Way Patch in Sagittarius
 - Nearby: M16, M17, M18, M22, M25, M28
 - 10,000 light years distant
- M25** (IC 4725)
- Open Cluster in Sagittarius
 - contains about 86 stars
 - At least one Cepheid variable
 - 2,000 light years distant
- M23** (NGC 6494)
- Open Cluster in Sagittarius
 - 150 proven member stars
 - 2,150 light years distant
- M21** (NGC 6531)
- Open Cluster in Sagittarius
 - 4,250 light years distant
- M20** (NGC 6514)
- *Trifid Nebula*
 - Starforming Nebula in Sagittarius
 - Emission & reflection nebula, & Open Star Cluster
 - 5,200 light years distant
- M8** (NGC 6523)
- *Lagoon Nebula*
 - Starforming Nebula in Sagittarius
 - An emission nebula
 - 5,200 light years distant

- M28** (NGC 6626)
- Globular Cluster in Sagittarius
 - 60 light years across
 - 18,500 light years distant
- M22** (NGC 6656)
- Globular Cluster in Sagittarius
 - 10,400 light years distant
- M69** (NGC 6637)
- Globular Cluster in Sagittarius
 - 29,700 light years distant
- M70** (NGC 6681)
- Globular Cluster in Sagittarius
 - Wm Herschel was the first to resolve it to stars
 - Receding from us, at 124 mps
 - 29,300 light years distant
- M54** (NGC 6715)
- Globular Cluster in Sagittarius
 - 60,000 light years distant
- M55** (NGC 6809)
- Globular Cluster in Sagittarius
 - 17,300 light years distant
- M75** (NGC 6864)
- Globular Cluster in Sagittarius
 - One of the more remote globular clusters, lying well beyond the Galactic center
 - 67,500 light years distant

Join us at the *36th Annual Custer Jamboree*

Friday - Sunday
October 9-11
Planetarium shows!



Lectures + Dinner
Solar Observing
Radio Astronomy
& more!

SATURN: 880 million miles from Earth
62 moons
Visible in Libra

Full moon dates: Sat. Aug 29
Sun. Sept. 27

In the Eyepiece

Compiled by David van Popering
custerobservatory.org



Some popular Deep Sky Objects for Summer

In Messier Marathon Order

- M81** (NGC 3031)
- *Bode's Galaxy*
 - Spiral Galaxy in Ursa Major
 - 12 MILLION light years distant
- M82** (NGC 3034)
- *Cigar Galaxy*
 - Irregular Galaxy in Ursa Major
 - 12 MILLION light years distant
- M97** (NGC 3587)
- *Owl Nebula*
 - Planetary Nebula in Ursa Major
 - 2,600 light years distant
- M108** (NGC 3556)
- Spiral Galaxy in Ursa Major
 - Visually near the Owl Nebula, M87
 - Moving away at over 1.7 Million mph
 - 45 MILLION light years distant
- M109** (NGC 3992)
- Spiral Galaxy in Ursa Major
 - Moving away at over 2.5 Million mph
 - 55 MILLION light years distant
- M40** (NGC 7099)
- Globular Cluster in Capricornus
 - 90 light years across
 - 26,000 light years distant
- M106** (NGC 4258)
- Spiral Galaxy in Canes Venatici
 - Moving away at over 1,000,000 mph
 - 25 MILLION light years distant

- M94** (NGC 4736)
- Spiral Galaxy in Canes Venatici
 - 16 MILLION light years distant
- M63** (NGC 5055)
- *Sunflower Galaxy*
 - Spiral Galaxy in Canes Venatici
 - 37 MILLION light years distant
- M51** (NGC 5194)
- *Whirlpool Galaxy*
 - Spiral Galaxy in Canes Venatici
 - 37 MILLION light years distant
- M101** (NGC 5457)
- *Pinwheel Galaxy*
 - Spiral Galaxy in Ursa Major
 - 27 MILLION light years distant
- M102** (NGC 5866)
- *Spindle Galaxy*
 - Lenticular galaxy in Draco
 - 45 MILLION light years distant
- M53** (NGC 5024)
- Globular Cluster in Coma Berenices
 - 58,000 light years distant
- M64** (NGC 4826)
- *Blackeye Galaxy, Sleeping Beauty Galaxy*
 - Spiral Galaxy in Coma Berenices
 - 19 MILLION light years distant
- M03** (NGC 5272)
- Globular Cluster in Canes Venatici
 - 200 light years linear diameter
 - 33,000 light years distant
- M98** (NGC 4192)
- Spiral Galaxy in Coma Berenices
 - Much new star formation
 - 60 MILLIONS light years distant
- M85** (NGC 4382)
- Lenticular in Coma Berenices
 - 60 MILLION light years distant
- M99** (NGC 4254)
- Spiral Galaxy in Coma Berenices
 - 60 MILLION light years distant
- M100** (NGC 4321)
- Spiral Galaxy in Coma Berenices
 - 60 MILLION light years distant
- M5** (NGC 5904)
- Globular Cluster M5 in Serpens
 - Contains 105 known variable stars
 - 24,500 light years distant
- M13** (NGC 6205)
- Globular Cluster in Hercules
 - Hercules Globular Cluster
 - 150 light years across
 - 25,000 light years distant
- M92** (NGC 6341)
- Globular Cluster in Hercules
 - Approaching us at 250,537 mph
 - 26,000 light years distant
- M57** (NGC 6720)
- *Ring Nebula*
 - Planetary Nebula in Lyra
 - 2,300 light years distant
- M56** (NGC 6779)
- Globular Cluster in Lyra
 - 32,900 light years distant
- M2** (NGC 6913)
- Open Cluster in Cygnus
 - Approaching us at 17.5 mps
 - 4,000 light years distant
- M39** (NGC 7092)
- Open Cluster in Cygnus
 - About 250 million years old
 - 800 light years distant
- M27** (NGC 6853)
- *Dumbbell Nebula*
 - Planetary Nebula in Vulpecula
 - 1250 light years distant
- M71** (NGC 6838)
- Globular Cluster in Sagitta
 - 13,000 light years distant
- M107** (NGC 6171)
- Globular Cluster in Ophiuchus
 - Approaching us at nearly 328,000 mph
 - 21,000 light years distant
- M10** (NGC 6254)
- Globular Cluster in Ophiuchus
 - 14,300 light years distant
- M12** (NGC 6218)
- Globular Cluster in Ophiuchus
 - 75 light years across
 - 16,000 light years distant
- M14** (NGC 6402)
- Globular Cluster in Ophiuchus
 - 30,000 light years distant
- M9** (NGC 6333)
- Globular Cluster in Ophiuchus
 - 25,800 light years distant
- M4** (NGC 6121)
- Globular Cluster in Scorpius
 - Look for a central “bar” structure
 - 8,000 light years distant
- M80** (NGC 6093)
- Globular Cluster in Scorpius
 - 32,600 light years distant
- M19** (NGC 6273)
- Globular Cluster in Ophiuchus
 - Only 5,200 LY from galactic center
 - 28,000 light years distant
- M62** (NGC 6266)
- Globular Cluster in Ophiuchus
 - One of the closest of globulars to the Galactic center (only about 6100 ly)
 - 22,500 light years distant
- M6** (NGC 6405)
- Butterfly Cluster
 - Open Cluster M6 in Scorpius
 - 2,000 light years distant
- M7** (NGC 6475)
- Open Cluster in Scorpius
 - The Scorpion’s Tail, Ptolemy’s Cluster
 - 800 light years distant
- M11** (NGC 6705)
- Open Cluster in Scutum
 - Wild Duck Cluster
 - About 250 million years old
 - Moving away from us at 14 mps
 - 6,000 light years distant
- M26** (NGC 6694)
- Open Cluster in Scutum
 - 89 million years old
 - 5,000 light years distant