

Observation Check List

Name	Code	Where	Note
Beehive Cluster	M44	Cancer	
Flocculent Spiral Galaxy	C48 / NGC 2775	Cancer	
Spiral Galaxy	NGC 2903 / NGC 2905	Leo	Next to Leo's nose
Leo Triplet	M65, M66, & NGC 3628	Leo	Three galaxies toward Denebola
Antennae Galaxies	C60 & 61 / NGC 4038 & 4039	Corvus	
Ghost of Jupiter Planetary Nebula	C59 / NGC 3242	Crater	
Needle Galaxy (Berenices Hair Clip)	C38 / NGC 4565	Coma Berenices	Edge-on galaxy between Leo and Boötes
Mirror Galaxy	M100	Coma Berenices	Face-on galaxy between Leo and Boötes
Markarian's Chain	M84, M86, M87, M60	Virgo	Chain of galaxies near Coma Berenices
Sombrero Galaxy	M104	Virgo & Corvus	Edge-on galaxy between Virgo & Corvus
Open Clusters	M6 & M7	Sagittarius	
Lagoon Nebula & Trifid Nebula	M8 & M20	Sagittarius	Bright emission nebulae
Open Cluster	M21	Sagittarius	Near Trifid Nebula (M20)
Eagle Nebula & Omega Nebula	M16 & M17	Sagittarius	Look for the Pillars of Creation in M16
Sagittarius Globular Cluster	M22	Sagittarius	Bright Globular Cluster
Wild Duck Cluster	M11	Scutum	Triangle shape near Sagittarius
Hercules Globular Clusters	M13 & M92	Hercules	M13 Brightest Globular Cluster
Ring Nebula	M57	Lyra	Distant but colorful nebula
Dumbbell Nebula	M27	Sagitta	Bright planetary nebula
The Crescent Nebula	NGC 6888	Cygnus	
Eastern Veil Nebula	C33 / NGC 6992	Cygnus	Supernova remnant
Western Veil Nebula	C34 / NGC 6960	Cygnus	Supernova remnant
Pelican Nebula	IC 5070	Cygnus	Emission nebula Near NGC 7000
The North American Nebula	C20 / NGC 7000	Cygnus	Look for the Cygnus Wall
Blinking Planetary Nebula	C15 / NGC 6826	Cygnus	
Cocoon Nebula	C19 / IC 5146	Cygnus	
Ophiuchus Globular Clusters	M9, M10, M12, M14, M19, M62, M107	Ophiuchus	Look for M10 first
Pegasus Globular Cluster	M15	Pegasus	Off the nose of Pegasus
Stephan's Quintet	NGC 7317 – NGC 7320	Pegasus	Group of 5 galaxies off lower front leg
Deer Lick Group	C30 / NGC 7331	Pegasus	Distant tilted galaxy below front legs
Propeller / Superman Galaxy	C44 / NGC 7479	Pegasus	Distant face-on spiral toward front
Little Sombrero Galaxy	C43 / NGC 7814	Pegasus	Distant spiral toward rear

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Globular Cluster	M2	Aquarius	Bright Globular Cluster
Helix Nebula	C63 / NGC 7293	Aquarius	The “Eye of God” near Fomalhaut
Saturn Planetary Nebula	C55 / NGC 7009	Aquarius	Planetary Nebula near Capricornus
Phantom Galaxy	M74	Pisces	Face-on spiral galaxy toward Aries
Sculptor Galaxy	C65 / NGC 253	Sculptor / Cetus	Bright galaxy below Pisces & Pegasus
Andromeda Galaxy	M31, M32, & M110	Andromeda	1 st largest galaxy apparent view
Triangulum Galaxy	M33	Triangulum	Wide galaxy near Andromeda
Blue Snowball Planetary Nebula	C22 / NGC 7662	Andromeda	
Silver Silver (Outer Limits) Galaxy	C23 / NGC 891	Andromeda	Edge on galaxy toward Perseus
Little Dumbbell Nebula	M76	Perseus	Planetary nebula near Andromeda
Perseus Double Cluster	C14 / NGC 869 & NGC 884	Perseus	Cluster toward Cassiopeia
Open Clusters	M36, M37, and M38	Auriga	
Flaming Star Nebula	C31 / IC 405	Auriga	
The Tadpoles	IC 410	Auriga	
The Spider Nebula	IC 417	Auriga	
The Pleiades	M45	Taurus	
Crab Nebula	M1	Taurus	Supernova remnant
Monkey Head Nebula	NGC 2175	Orion	Up toward Auriga
Casper’s Ghost Nebula	M78 & NGC 2071	Orion	Reflection nebulae east of Alnitak
Orion Nebula	M42	Orion	Extremely bright emission nebula
De Mairan’s Nebula	M43	Orion	Extension of the Orion Nebula
Horse Head & Flame Nebula	IC 434 / NGC 2024	Orion	Dark nebula
Rosette Nebula	C49 / NGC 2237 / NGC 2244	Monoceros	Between Orion and Canis Minor
Christmas Tree Cluster	NGC 2264	Monoceros	Between Orion and Canis Minor
Jellyfish Nebula	IC 443	Gemini	At the left foot of Castor
Eskimo / Clown Face Nebula	C39 / NGC 2392	Gemini	Very distant Planetary Nebula
Seagull Nebula	IC 2177	Canis Major	Above dog’s head toward Monoceros
Thor’s Helmet	NGC 2359	Canis Major	Above the dog’s head
Tau Canis Major Cluster	C64 / NGC 2362	Canis Major	Above the dog’s tail

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Bode's & Cigar Galaxies	M81 & M82	Ursa Major	Face-on and edge-on galaxy
Surfboard Galaxy	M108	Ursa Major	Next to M97 below the bowl
Owl Nebula	M97	Ursa Major	Eyes of an owl below the bowl
Pinwheel Galaxy	M101	Ursa Major	Face-on spiral galaxy
Spindle Galaxy	NGC 5866 / M102?	Draco	Edge-on galaxy near M101
Whirlpool Galaxy	M51	Canes Venatici	Below the handle of the Big Dipper
The Silver Needle Galaxy	C26 / NGC 4244	Canes Venatici	Below the Big Dipper (Ursa Major)
Splinter Galaxy	NGC 5907	Draco	Edge-on galaxy toward Bootes
Cat's Eye Planetary Nebula	C6 / NGC 6543	Draco	
Hidden Galaxy	C5 / IC 342	Camelopardalis	Spiral Galaxy near Cassiopeia
Pacman Nebula	C11 / NGC 281	Cassiopeia	Emission nebula
Bubble Nebula	C11 / NGC 7635	Cassiopeia	Look for the bubble shape
Scorpion Cluster	M52	Cassiopeia	Open cluster near the Bubble
Owl / ET Cluster	C13 / NGC 457	Cassiopeia	Looks like ET or an owl
Fish Head (Northern Bear) Nebula	IC 1795	Cassiopeia	Emission nebula
Heart Nebula / Running Dog Nebula	IC 1805	Cassiopeia	Wide / Dim Nebula
Soul Nebula	IC 1848	Cassiopeia	Wide / Dim Nebula
Ghost of Cassiopeia	IC 63	Cassiopeia	Emission & Reflection Nebula
Fireworks Galaxy	C12 / NGC 6946	Cepheus & Cygnus	Face-on spiral galaxy
Iris Nebula	C4 / NGC 7023	Cepheus	Blue emission nebula

Object	Color	Description
Galaxy	Red	An island of stars such as the Milky Way
Globular Cluster	Green	A cluster of thousands of older stars within the Milky Way
Open Cluster	Blue	A cluster of a few hundred newer stars within the Milky Way
(Double) Star	Black	Stellar pair – two stars that are gravitationally attached to each other
Nebula	Purple	A cloud of hydrogen gas and dust. Area where new stars are forming.
Planetary Nebula	Orange	The remains of a collapsed star
Super Nova Remnant	Brown	The remains of a large star that exploded

Observation Check List

SPRING	SUMMER	AUTUMN	WINTER
<p><u>Cancer</u></p> <ul style="list-style-type: none"> • M44 (Beehive) <p><u>Leo</u></p> <ul style="list-style-type: none"> • NGC 2903 (Galaxy near Leo's Nose) • NGC 3628, M65 & M66 (Triplet near Denebola) <p><u>Leo to Boötes</u></p> <ul style="list-style-type: none"> • NGC 4565 (Berenices Hair) • M100 (Mirror Galaxy) <p><u>Virgo</u></p> <ul style="list-style-type: none"> • Markarian's Chain (toward Leo) • M104 (Sombrero toward Corvus) 	<p><u>Low: Scorpius & Sagittarius</u></p> <ul style="list-style-type: none"> • M8 & M20 (Lagoon & Trifid) • M16 & M17 (Eagle & Omega) • M22 (Globular Cluster) • M11 (Wild Duck Cluster) <p><u>Ophiuchus</u></p> <ul style="list-style-type: none"> • M9, M10, M12, M14, M19, M62, M107 (Globular Clusters) <p><u>High: Boötes to Lyra</u></p> <ul style="list-style-type: none"> • M13 (Hercules Globular Cluster) • M57 (Ring Nebula) • M27 (Dumbbell Nebula) <p><u>High: Cygnus</u></p> <ul style="list-style-type: none"> • NGC 6888 (Crescent) • NGC 6992 (Eastern Veil) • NGC 6960 (Western Veil) • IC 5070 (Pelican Nebula) • NGC 7000 (North American) • IC 5146 (Cocoon) 	<p><u>Low: Aquarius & Pisces</u></p> <ul style="list-style-type: none"> • NGC 253 (Sculptor Galaxy) • NGC 7293 (Helix Nebula) • M74 (Phantom Galaxy) • M2 (Globular Cluster) <p><u>High: Pegasus</u></p> <ul style="list-style-type: none"> • M15 (Globular off nose) • NGC 7331 (Deer Lick below front legs) • NGC 7479 (Propeller Galaxy above neck & corner) • NGC 7317-7320 (Stephan's Quintet off lower front leg) • NGC 7479 (Propeller toward front) • NGC 7814 (Little Sombrero toward rear) <p><u>High: Andromeda & Perseus</u></p> <ul style="list-style-type: none"> • M31 (Andromeda) • M33 (Triangulum) • NGC 891 (Sliver Silver toward Perseus) • M76 (Little Dumbbell toward Andromeda) • NGC 869 & 884 (Double Cluster toward Cassiopeia) 	<p><u>Auriga & Taurus</u></p> <ul style="list-style-type: none"> • M37 (Salt & Pepper) • M36 & M38 • IC 405 (Flaming Star) • IC 410 (Tadpoles) • IC 417 (Spider) • M45 (Pleiades) • M1 (Crab) <p><u>Orion</u></p> <ul style="list-style-type: none"> • NGC 2175 (Monkey Head) • M78 (Casper's Ghost) • IC 434 (Horsehead) • M42 (Orion) <p><u>Gemini & Canis Major</u></p> <ul style="list-style-type: none"> • NGC 2244 (Rosette) • NGC 2264 (Christmas Tree) • NGC 443 (Jellyfish) • IC 2177 (Seagull) • NGC 2359 (Thor)
<p><u>High: Ursa Major</u></p> <p><u>Bowl</u></p> <ul style="list-style-type: none"> • M81 (Bode's Galaxy) • M82 (Cigar Galaxy) • M97 (Owl Nebula) • M108 (Surfboard Galaxy) <p><u>Handle</u></p> <ul style="list-style-type: none"> • M101 (Pinwheel Galaxy) • M51 (Whirlpool Galaxy) • NGC 4244 (Silver Needle) 	<p><u>Left: Ursa Major</u></p> <ul style="list-style-type: none"> • Early in the evening <p><u>Right: Cassiopeia</u></p> <ul style="list-style-type: none"> • Later in the evening 	<p><u>High: Cassiopeia</u></p> <ul style="list-style-type: none"> • NCG 281 (Pacman Nebula) • IC 1735 (Fish Head Nebula) • IC 1809 (Heart Nebula) • IC 1848 (Soul Nebula) • NGC 7635 (Bubble Nebula) • M52 (Open Cluster) • NGC 6946 (Fireworks Galaxy) • NCG 7023 (Iris Nebula) • NGC 457 (ET Cluster) 	<p><u>Left: Cassiopeia</u></p> <ul style="list-style-type: none"> • Early in the evening <p><u>Right: Ursa Major</u></p> <ul style="list-style-type: none"> • Later in the evening