Binocular List ("Binoc" on pin)

Although a telescope provides brighter and higher magnification views of deep-sky objects, binoculars offer several advantages. They provide a much wider field of view, which enhances the views of many objects and makes locating them easier. They are also much more portable and require little or no setup. Many objects in the list below are easily visible in binoculars of all sizes. You may notice many of these are also on other lists – this is intentional. You'll find a whole different feel looking at something with a much wider field of view and using both eyes. There is a sense of context – seeing where these objects sit relative to nearby objects. While you are encouraged to try them all - to receive the Binocular Observer pin you must observe and record at least 14 of the listed objects while you are here at OSP. As an added reference, each object's page number in the popular Sky and Telescope Pocket Sky Atlas (PSA) is listed as well (or where it would be, if not actually included).

Since there are observers of many levels at OSP, this list contains simple to find/see objects, along with some more challenging ones, but with many more items than are needed for an award. This allows beginners to work on the list and earn an award, but provides additional binocular-oriented targets for more advanced observers looking for more of a challenge.

Go-to mounts are not permitted for the Binocular List award. You may get assistance in locating objects on star charts or in the sky, but you must locate them yourself with your binoculars. Looking through mounted binoculars, in which someone else has sighted the object for you, is not acceptable. Object sketches are highly recommended but they are not necessary if you provide a good description of each object and what you saw.

When finished, bring your record of observations to the Observing Program table next to the Information Tent to receive your pin. *Please check the information tent for updates on when the Observing Program table will be staffed, and where it is going to be for the next session. Typically it will be manned later in the afternoon.*

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2026 Oregon Star Party Binocular List

#	Type	Object	Con	Mag	Size	PSA	RA (J2000)	Dec (J2000)	RA (Jnow)	Dec (Jnow)	Alternate Name and/or Comments
Small Constellations							Star Chart Ref Coordinates		Pointing/Go-To Coordinates		
2	Const	Lyra	Lyr			63	18h 52' 02.5"	36° 40' 19.0"	18h 52' 58.7"	36° 42' 13.0"	Constellation
3	Const	Delphinus	Del			64	20h 41' 23.9"	12° 00' 08.0"	20h 42' 40.2"	12° 05' 50.0"	Constellation
4	Const	Sagitta	Sge			64	19h 34' 05.5"	18° 29' 13.0"	19h 35' 16.7"	18° 32' 41.0"	Constellation
Globular Clusters											
5	GC	M4	Sco	6.66	36'	56	16h 23' 35.2"	-26° 31' 32.0"	16h 25' 13.6"	-26° 35' 16.0"	Largest apparent diameter GC visible in northern skies
6	GC	M5	Ser	6.37	23'	55	15h 18' 33.2"	02° 04' 51.0"	15h 19' 54.4"	01° 59' 00.0"	Bright globular
7	GC	M3	CVn	6.88	18'	44	13h 42' 11.6"	28° 22' 38.0"	13h 43' 25.7"	28° 14' 32.0"	Bright globular
Galaxies											
8	GX	M31/32/110	And	4.29	3°	3	00h 42' 44.3"	41° 16' 08.0"	00h 44' 11.9"	41° 24' 55.0"	Andromeda Galaxy, large and bright, naked eye
9	GX	M33	Tri	6.35	1°	4	01h 33' 50.9"	30° 39' 35.0"	01h 35' 21.3"	30° 47' 49.0"	Triangulum Galaxy, large and dimmer than the magnitude suggests
10	GX	M51 / NGC5194	CVn	8.6	14'	43	13h 29' 52.7"	47° 11' 43.0"	13h 31' 00.6"	47° 03' 25.0"	A little more of a challenge for smaller binos.
Open Clusters											
11	OC/RN	M45	Tau	1.5	2°	15	03h 47' 00.0"	24° 07' 00.0"	03h 48' 35.4"	24° 11' 58.0"	Pleiades; nebulosity may be visible in larger binos.
12	OC	NGC884 & 869	Per	5.74	18'	2	02h 19' 00.0"	57° 07' 00.0"	02h 20' 53.2"	57° 14' 23.0"	Double Cluster, showpiece, see both. Just visible naked eye as a faint smudge.
13	OC	Kemble's Cascade	Cam	-	2.5°	11	03h 59' 03.0"	62° 54' 00.0"	04h 01' 25.2"	62° 58' 34.0"	Large - a cascading string of stars - with a "splash pool" at the end - NGC1502
14	OC	Mellotte 111	Com	2.25	2°	45	12h 25' 06.0"	26° 05' 59.0"	12h 26' 26.4"	25° 57' 06.0"	Huge open cluster
15	OC	M11	Sct	6.32	32'	67	18h 51' 05.0"	-06° 16' 00.0"	18h 52' 31.0"	-06° 14' 07.0"	Wild Duck Cluster
16	OC	M24	Sgr	4.59	1.5°	67	18h 18' 48.0"	-18° 32' 59.0"	18h 20' 22.1"	-18° 32' 22.0"	Sagittarius Star Cloud
17	OC	M34	Per	5.37	35'	13	02h 42' 05.0"	42° 45' 00.0"	02h 43' 48.3"	42° 51' 50.0"	Bright, fairly large open cluster, "Spiral Cluster"
18	OC	M23	Sgr	6.03	29'	67	17h 57' 04.0"	-18° 59' 00.0"	17h 58' 38.4"	-18° 59' 12.0"	Rich open cluster
19	OC	Pazimo's cluster	Cam	-	29'	11	03h 16' 11.0"	60° 06' 00.0"	03h 18' 19.7"	60° 11' 55.0"	Stock 23
20	OC	NGC457	Cas	6.97	20'	1	01h 19' 35.0"	58° 17' 00.0"	01h 21' 16.2"	58° 25' 25.0"	Owl Cluster, ET cluster
21	OC	NGC6709	Aql	7.18	14'	65	18h 51' 18.0"	10° 18' 59.0"	18h 52' 33.8"	10° 20' 52.0"	Loose open cluster
22	OC	M52	Cas	7.6	15'	71	23h 24' 48.0"	61° 35' 00.0"	23h 25' 59.2"	61° 43' 48.0"	Rich open cluster
Dark Nebulae											
23	DN	Cygnus Rift	Cyg	-	24°	62+	20h 20' 13.0"	36° 23' 58.0"	20h 21' 13.4"	36° 29' 01.0"	Aka "The Great Rift". Huge - will need to scan to see it all, try naked eye as well. Deneb to the center of the Milky Way.
24	OC/DN	NGC6520/B86	Sgr	7.6	2', 5'	67	18h 03' 24.0"	-27° 53' 00.0"	18h 05' 05.0"	-27° 52' 57.0"	Tight OC and ink spot - challenge for small binos
Emission Nebulae											
25	EN	M8	Sgr	6	1.5°	67	18h 03' 48.0"	-24° 23' 00.0"	18h 05' 26.3"	-24° 22' 57.0"	Lagoon Nebula
26	EN	M20	Sgr	6.3	29'	67	18h 02' 36.0"	-23° 02' 00.0"	18h 04' 13.3"	-23° 01' 59.0"	Triffid Nebula
27	PN	NGC7293	Aqr	7.6	15'	76	22h 29' 38.5"	-20° 50' 11.0"	22h 31' 06.0"	-20° 41' 59.0"	Helix nebula

Award Requirement:

See and sketch at least 14 of the 27 objects or object groups as described above. Includes background stars/objects or detailed description as appropriate so your observations can be validated. Include equipment used, date, time, sketch orientation (for binos, which way is up).

Data Sources:
Coordindates generated for 7/17/2026 1:00:00 AM
Locations J2000.0 Jnow + mag & size/separation
(except as noted)
using Starry Night Pro Plus Ver. 8.1.0.2050 leEW

Additional source where not availble from SN8:
Sky Safari Pro Ver. 8.0.2.0 (Android)
Indicated by * between J2000 and Jnow coordinates
or * in Mag or Size/Sep columns if used as source for that data

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Object Types Key:			
P	Planet	DP	Dwarf Planet
GX	Galaxy	SC	Star Cloud
GXG	Galaxy Group	S	Star
GC	Globular Cluster	DS	Double Star
OC	Open Cluster	MS	Multiple Star
PN	Planetary Nebula	CS	Carbon Star
EN	Emission Nebula	VS	Variable Star
SN	Supernova Remnant	DiffN	Diffuse Nebula
DN	Dark Nebula	A	Asteroid
RN	Reflection Nebula	Ast	Asterism
C	Comet	Q	Quasar
N	Nova	O	Other