

Oregon Star Party Observing Award 2016

Level 0 - Binocular List

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 greatly enhances the views of many objects and can make locating objects easier. They are also much more portable and require much less set-up, if any at all. Even for those of us adept at using a telescope, binocular observing can be a lot of fun. The objects in the list below are easily visible in binoculars of all sizes. They are all brighter than ninth magnitude and larger than 3 minutes in diameter. To receive the OSP Level 0 Observer pin and award certificate, you must observe and record at least 20 of the 25 listed objects while you are at OSP. As an added reference, each object's page number in the popular Sky and Telescope Pocket Sky Atlas is listed in the right-hand column.

All of the objects listed below are visible between sunset and midnight during the star party. Go-to mounts are not permitted for the OSP Level 0 award. You may get assistance in locating objects on star charts or in the sky, but you must locate the objects in your binoculars yourself. Looking through mounted binoculars, in which an object is already sighted, is not acceptable. While sketches of objects are preferred, they are not necessary to obtain the award. Instead, you may provide good descriptions. When finished, bring your record of observations to the Information Tent to receive your optional \$5 pin for level 0.

#	Type	Object	Alternate Name	Const	R.A.	Dec.	Mag	PSA
1	GX	M31 / NGC 224	Andromeda Galaxy	And	0h 43	40.22	4.5	3
2	OC	NGC 884 & 869	Perseus Double Cluster	Per	2h 20	56.08	4.3	2
3	GC	M3 / NGC 5272	Cluster	CVn	13h 42	27.19	7	44
4	OC	NGC 457	Owl Cluster	Cass	01h 19	57.17	6.4	1
5	GX	M51 / NGC 5194	Whirlpool Galaxy	CVn	13h 30	46.9	8	43
6	PN	M27 / NGC 6853	Dumbbell Nebula	Vul	20h 0	21.44	7.5	64
7	OC	M7 / NGC 6475	Ptolemy's Cluster	Sco	17h 53	-34.49	3.3	69
8	CN	M8 / NGC 6523	Lagoon Nebula	Sgr	18h 4	-24.21	5	69
9	GC	M30 / NGC 7099		Cap	21h 40	-23.1	8.5	77
10	SG	M33 / NGC 598	Triangulum Galaxy	Tri	01h 33	-30.39	5.72	5
11	OC	M11 / NGC 6705	Wild Duck Cluster	Sct	18h 51	-6.16	7	67
12	GC	M12 / NGC 6218	Gumball Cluster	Oph	16h 47	-1.56	8	56
13	GC	M13 / NGC 6205	Hercules Cluster	Her	16h 42	35.26	7	52
14	OC	M52 / NGC 7654	The Scorpion	Cass	23h 24	61.35	8	72
15	GC	M15 / NGC 7078	Pegasus Cluster	Peg	21h 30	11.12	7.5	75
16	CN	M16 / NGC 6611	Eagle Nebula	Ser	18h 19	-13.5	6.5	67
17	CN	M17 / NGC 6618	Omega Nebula	Sgr	18h 21	-16.11	7	67
18	OC	M18 / NGC 6613	Black Swan	Sqr	18h 20	-17.4	8	67
19	Doub	Mizar & Alcor	Famous Double	Uma	13h 24	54.56	2.7 & 4.0	32
20	Doub	Epsilon Lyra	Famous Double	Lyr	18h 44	39.4	4.7 & 5.2	63
21	Doub	Albireo	Blue and Gold	Cyg	19h 31	27.58	3.1 & 5.1	62
33	GX	NGC 253	Sculptor Galaxy	Sci	00h 47	-25.17	8	7
34	CN	NGC 6520	Ink Spot Nebula	Sgr	18h 4	-27.53	8	67
35	GC	NGC 288		Sci	00h 52	-26.34	8	7
25	Planet	Saturn		Oph	16h33	-20.18	0.36	56