

Oregon Star Party Observing Award 2018 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 enhances the views of many objects and makes locating them easier. They are also much more portable and require little or no setup. Most 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 use of both eyes. There is a sense of context – seeing where these objects sit relative to nearby objects. To receive the OSP Level 0 observer pin you must observe and record at least 20 of the 30 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.

Many of the objects listed below are visible between civil twilight and midnight during the star party. All are visible before astronomical dawn. 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 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 a bonus but they are not necessary if you provide a good description of each object. When finished bring your record of observations to the Observing Program table next to the Information Tent to receive your pin.

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#	Type	Object	Con	RA	Dec	Mag	PSA	Alternate Name/Comments
1	P	Mars	Cap	20h 15' 48"	-26° 28' 29"	-2.6	66	Very close approach this year during OSP
2	P	Saturn	Sgr	18h 12' 14"	-22° 38' 25"	0.3	67	Look for rings, moons
3	P	Jupiter	Lib	14h 49' 29"	-15° 18' 55"	-2	46	Look for up to four moons
4	A	Kemble's Cascade	Cam	3h 59' 5"	62° 52' 10"		11	Long chain, wide field - look for varying star colors
5	SC	M24	Sgr	18h 16' 3"	-18° 44' 18"	4.6	67	Large star cloud, plus other objects in the same view
6	DS	Albireo	Cyg	19h 30' 44"	27° 57' 34"	3	62	Bright double - look for color difference
7	DS	Mizar and Alcor	UMa	13h 23' 56"	54° 55' 30"	2.2	32	
8	GC	M13	Her	16h 41' 41"	36° 27' 46"	7	52	Hercules Cluster
9	GC	M15	Per	21h 29' 58"	12° 10' 4"	7.5	75	Pegasus Cluster
10	GC	M22	Sgr	18h 36' 24"	-23° 53' 56"	6.5	69	Sagittarius Cluster
11	GC	M55	Sgr	19h 39' 58"	-30° 57' 36"	7	66	Globular between constellation asterisms
12	GC	M10	Oph	16h 57' 10"	-4° 5' 48"	7.5	54	Two globular clusters in one view
	pair	& M12	Oph	16h 47' 14.3"	-1° 57' 9"	8		
13	GC	M4	Sco	16h 23' 36"	-26° 32' 0"	5.6	56	Large globular near Antares, nearly moon-size
14	GX	M51	CVn	13h 29' 53"	47° 12' 44"	8	43	Whirlpool Galaxy, fairly small
15	GX	M31, M33, M110	And	0h 43' 1"	41° 15' 41"	4.5	3	Andromeda Galaxy and two of its satellite galaxies
16	GX	M33	Tri	1h 33' 52"	30° 38' 47"	7	4	Triangulum Galaxy, large but faint
17	GX	M81	UMa	9h 55' 34"	69° 4' 18"	8.5	31	Two galaxies in one field
	pair	& M82	UMa	9h 56' 8"	69° 41' 31"	9.5		
18	GX	M101	UMa	14h 3' 10"	54° 21' 18"	8.5	42	Pinwheel Galaxy, medium size, faint
19	EN	M8	Sgr	18h 3' 49"	-24° 8' 20"	5	69	Lagoon Nebula
20	EN	M20	Sgr	18h 2' 30"	-22° 57' 20"	5	69	Trifid Nebula
21	EN	NGC7000	Cyg	20h 58' 53"	44° 26' 3"	4	62	"North America Nebula", quite large
22	OC	Double Cluster	Per	2h 18' 32"	57° 6' 40"	5.3	2	NGC 869
	pair			2h 22' 40"	57° 7' 50"	6.1		NGC 884
23	OC	M11	Scu	18h 51' 2"	-6° 15' 55"	7	67	Wild Duck Cluster
24	OC	M45 Pleiades	Tau	3h 46' 52"	24° 8' 58"	1.4	15	Bright open cluster
25	OC	Hyades	Tau	4h 25' 55"	16° 43' 31"	0.5	15	Very large open cluster
26	OC	Collinder 399	Vul	19h 26' 12"	20° 6' 0"	3.6	64	Cr 399 Brocchi's Cluster
27	OC	NGC6940	Vul	20h 34' 32"	27° 17' 0"	6.3	62	Fairly large and bright OC
28	OC	M44	Cnc	8h 39' 49"	19° 47' 12"	4	24	Beehive Cluster - large, bright open cluster
29	PN	M27	Vul	19h 59' 36"	22° 43' 7"	7.5	64	Dumbbell Nebula - small but bright
30	PN	NGC 7293	Aqr	22h 29' 39"	-20° 49' 24"	6.5	76	Helix Nebula - large, fairly faint, half the size of the moon

P: planet GX: galaxy GC: globular cluster OC: open cluster PN: planetary nebula EN: emission nebula SN: supernova remnant
DN: dark nebula A: Asteroid SC: star cloud DS/TS/QS: double/triple/quad star CS: carbon star C: constellation Ast: asterism