

## Oregon Star Party Observing Award 2016 Level 1 – Beginner’s List

The best way to enjoy the unique beauty of the dark skies at Oregon Star Party is to view bright deepsky objects, colorful double stars, and planets through a telescope. The objects listed are easily visible in telescopes of any size – perfect for those who are just getting started. To receive the OSP Level 1 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 telescopes and image enhancers (photography) are not permitted for the OSP Level 1 award. You may get assistance in locating objects on star charts or through other finders, but you must locate the objects in your telescope yourself. Looking through a scope, in which the object is already sighted, is not acceptable. While a sketch of the object is preferred, it is not necessary to obtain the award. Instead, you may provide a good description. When finished, bring your record of observations to the Information Tent to receive your optional \$5 pin for level 1.

Note: Use high magnification to separate the members of multiple star systems and don't forget to look for color. In contrast, some objects are best viewed at low magnifications and wide fields of view. So it might be better to observe some of these objects through binoculars.

#	Type	Object	Alt Name	Const	R.A.	Dec.	Mag	PSA
1	DVar	Albireo	Double Star	Cyg	19h31	27.59	3.1	64
2	Glob	M4	Cat's Eye	Sco	16h24	- 26.33	5.4	56
3	Gal	M51	Whirlpool	CVn	13h30	47.08	8.7	43
4	Doub	Graffias	Double Star	Sco	16h6	- 19.48	2.5	56
5	Glob	M13	Hercule's Cluster	Her	16h42	36.26	5.8	52
6	P Ne	M57	Ring Nebula	Lyr	18h54	33.02	9.4	63
7	Doub	Izar	Double Star	Boo	14h45	27	4.8	44
8	Glob	M5	Globular	Ser	15h19	2.02	5.7	55
9	Glob	M12	Gumball Globular	Oph	16h47	-1.57	6.1	56
10	Glob	M10	Globular	Oph	16h57	-4.06	6.6	56
11	Glob	M22	Globular	Sgr	18h37	- 23.53	5.2	67
12	Neb	M8	Lagoon Nebula	Sgr	18h04	- 24.23	5	67
13	Doub	Mizar	Double Star	Uma	13h24	54.5	2.2	32
14	P Ne	M27	Dumbbell Nebula	Vul	20h00	22.45	7.3	64
15	Glob	M62	Flickering Globular	Oph	17h2	-30.7	8	56
16	DVar	Deneb	Double Star	Cyg	20h41	45.19	1.2	62
17	Gal	M31	Andromeda Galaxy	And	0h43	41.2	4.3	3
18	DVar	Polaris A & B	Double Star	Umi	2h47	89.18	2	1
19	Doub	Almach	Double Star	And	2h04	42.23	2.1	2
20	Open	Double Cluster	Persus Double	Per	2h19	57.1	4.3	2
21	Open	M39	Open Cluster	Cyg	21h32	48.29	5.5	73
22	Gal	M33	Pinwheel Galaxy	Tri	1h34	30.39	7	4
23	Planet	Saturn		Oph	16h33	- 20.18	0.4	56
24	Planet	Mars		Sco	15h54	- 23.11	-0.7	57
25	Planet	Neptune		Aqu	22h52	-8.6	7.8	75