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. 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 use of both eyes. There is a sense of context – seeing where these objects sit relative to nearby objects. To receive the Binocular Observer pin you must observe and record at least 18 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.

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 at 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.

4/25/2023 v1.0

2023 Oregon Star Party Binocular Observing List

#	Туре	Object	Con	RA	Dec	Mag	Size/	PSA	Alternate Name/Comments
							Split		
		Kemble's Cascade &	Cam	03h 59' 03.0"	62° 54' 00.0"	na			Long, large cascade of stars.
1	ОС	IC1502	Cam	04h 07' 50.0"	62° 19' 00.0"	7.5	8'	11	with an open cluseter at one end.
									Very rich area of the sky. Take some time to explore in large
									field binoculars. What can you see within and around the
١.									area? Many nebulae and clusters are present, several are
2	Ast	Teapot	Sgr	18h 38' 20.7"	29° 09' 50.0"	na	na	67	easily visible.
١,	CC /\ /C	NA. Carala ai	C	245 421 20 411	50° 461 40 0II	2 4 5 4		72	Very cool, 3,551K/red supergiant star "Herschel's Garnet
-		Mu Cephei	Cep	21h 43' 30.4"			na		Star/Erakis". Compare color to other similary bright stars.
4		IC1805	Cas	02h 33' 24.0"	61° 26' 00.0"	6.5	1° 1°	_	Heart Nebula &
5	EN	IC1848	Cas	02h 51' 18.0"	60° 25' 00.0"	6.5	Τ.		Soul Nebula
									Challenging, low surface brightness, try filters.
	EN	M16 &	Sgr	10h 10' 40 0"	-13° 46' 59.0"	6.4	35'	67	Each is a separate find due to difficulty. Eagle Nebula &
8		M17	Sgi		-16° 11' 00.0"	6.4		07	Swan/Omega Nebula
7		NGC1499	Per	04h 00' 42.0"				12	California Nebula
-		M8 &	Sgr	18h 03' 48.0"	-24° 23' 00.0"				Lagoon Nebula &
6		M20	Jgi		-23° 02' 00.0"	6.3	29'	07	Triffid Nebula
۳		14120		1011 02 30.0	23 02 00.0	0.5	23		North America Nebula. For a serious challenge can you see
									nearby Pelican Nebula IC5070? (In "Atlantic Ocean") Very
9	FN	NCG7000	Cyg	20h 58' 48.0"	44° 20' 00.0"	4	2°	62	dim, try filters. UHC, HB.
۲	LIV	14007000	Суб	2011 30 40.0	44 20 00.0	-		02	Has lowest HB value of 13.4, means it's easiest GC to see
10	GC	M4	Sco	16h 23' 35 2"	-26° 31' 32.0"	6.7	36'	56	individual stars in a telescope. Can you do it in binos?
10	- 60	IVIT	300	1011 25 33.2	20 31 32.0	0.7	30	30	NGC 6656; #3 brightest globular in the sky but low in sky
									for us, so a couple of others appear brighter here. #1 and #2
11	GC	M22	Sgr	18h 36' 23 9"	-23° 54' 17.0"	6.1	x32'	67	are much deeper in southern skies (Omega Cen, 47 Tuc)
	- 30	14122	26,	1011 30 23.3	23 34 17.0	0.1	ASE	- 07	Andromeda Galaxy and satellites. M32 and M110 in same
12	GX	M31/32/101	And	00h 42' 44.3"	41° 16' 08.0"	4.3	3°	3	field. Impressive even in basic binoculars.
13		M33	Tri	01h 33' 50.9"		6.4	1°	_	Triangulum Galaxy. Low surface brightness adds challenge.
14		M51	Cvn	13h 29' 52.7"	47° 11' 43.0"	8.6		_	Whirlpool Galaxy, smaller in size, face-on colliding spiral.
Ë				2011 23 3217	., 11 .0.0	0.0			Pinwheel Galaxy. Face-on spiral, smaller in size, lower
15	GX	M101	Uma	14h 03' 12.6"	54° 20' 55.0"	8.4	24'	53	surface brightness adds challenge.
		NGC869 &2	Per	02h 19' 00.0"		5.7	18'	_	Double Cluster. A showpiece in low-power telecope views.
16		NGC884	Per	02h 22' 23.0"	57° 07' 00.0"	6.6			Very nice in binoculars.
17		Mellotte 20	Per	03h 24' 19.0"	49° 51' 00.0"	2.3	5°	13	Alpha Persei Cluster, Collinder 39, large open cluster
									Pleiades. Seven Sisters, Subaru Cluster (yes, it's part of the
	ос								car logo).
18	RN	M45	Tau	03h 47' 00.0"	24° 07' 00.0"	1.5	2°	15	Challenge can you see nebulosity around brightest stars?
19	ОС	Hyades	Tau	04h 26' 54.0"	15° 51' 59.0"	0.9	5.5°	15	Very large open cluser.
20	ОС	Mellotte 111	Com	12h 25' 06.0"	26° 05' 59.0"	2.3	2°	45	Coma Star Cluster
21	oc	M6	Sgr	17h 40' 20.0"	-32° 15' 00.0"	4.5	20'	67	Butterfly Cluster
22	ОС	M7	Sgr		-34° 47' 00.0"	3.5		_	Ptolemy Cluster
23		Cr 399	Vul	19h 25' 24.0"	20° 11' 00.0"				Brocci's Cluser, "Coat Hanger"
25		Saturn	Aqr		-10° 53' 34.0"	0.6		_	Look for rings and a few of the brighter moons.
24		Jupiter	Ari	02h 40' 05.7"					Four largest moons visible in binoculars unless occulted.
26		NGC7293	Vul		-20° 50' 11.0"			_	Helix Nebula
27		M57	Lyr	18h 53' 35.7"					Ring Nebula. Challenge small size in binos.
28		IC4604	Oph		-23° 26' 00.0"				Rho Ophuiuchi Nebula
29	SN	NGC6960	Cyg	20h 45' 42.0"	30° 43' 00.0"	5	1.2°	62	Bridal (Western) Veil Nebula &
		NGGGGG		201 551 54 5"	240 451 55 -"	_			Witches Broom (Eastern) Veil Nebula
30		NGC6995	ļ	20h 56' 24.0"				_	Low surface brighness, try filters UHC, OIII
31		Mizar &	Uma	13h 23' 55.8"	54° 55' 30.0"			43	Bright visual double; ancient "eye test".
32		Alcor		13h 25' 13.8"	54° 59' 16.0"	4			Each is a telescopic binary star as well.
		1124	C	405 401 40 011	408 221 50 011	4.6	4 -0		Sagittarius Star Cloud - "Window into Milky Way"
33	SC	M24	Sgr	18n 18 48.0	-18° 32' 59.0"	4.6	1.5°	67	Challenge try to locate B92 (dark nebula) within.
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	Key:	Dlamat	DD	Divising Dismost		4/25/20	23 VI.	U	
	P	Planet	DP	Dwarf Planet		Loostic	1200	0.0	
	GX	Galaxy	SC	Star Cloud		Location			
	GC	Globular Cluster	S	Star Double Star		From St			
	OC	Open Cluster	DS	Double Star		July 21,			
	PN EN	Planetary Nebula	MS CS	Multiple Star		(except	as not	ea)	
		Emission Nebula	_	Carbon Star					
	SN	Supernova Remnant		Variable Star					
	DN	Dark Nebula	Ast	Asterism					