

Table Mountain Star Party Observer's Challenge List

By **James A. Bielaga** owner of **Aurora Astro Products**

11419 19th Avenue SE #A102 Everett, WA 98208 425-337-4384 www.auroraastro.com

"Your Northern Light in the Astronomy Business"

All observations must be made at the Table Mountain Star Party.

Observe and record 25 of the 30 items to earn a unique Table Mountain Star Party Observer's Challenge Award lapel pin.

You must create a record of you observations which include Date, Time, Instrument Used, Magnification Used and a brief description or sketch of the object.

All your records and observing notes will be returned to you.

#	ID	MAG	SIZE	OBJECT	CONST.	R.A.	DEC.	DESCRIPTION	Equip.
1	Alcor/Mizar	2.3/4.0	14.4"	Double Star	Ursa Major	13h 23.9m	54° 56'	Test of eye site; But nice double in telescope	Bino
2	M51	8.4	8.2"x6.9'	Galaxy	C. Venatici	13h 29.9m	47° 12'	Need binoculars to see the Whirlpool but visible from Table	Bino
3	NGC 6543	8.6	22.0"x16.0"	Plan. Neb.	Draco	17h 58.6m	66° 38'	Cat's eye; green color; central star is easy to see	Tele
4	M13	5.9	20.0'	G. Cluster	Hercules	16h 41.7m	36° 28'	Binocular object just below right side of keystone of Hercules	Bino
5	NGC 6210	9.7	20.0"x16.0"	P. Nebula	Hercules	16h 44.5m	23° 49'	A little emerald by a nice double star	Tele
6	M92	6.4	11.2'	G. Cluster	Hercules	17h 17.1m	43° 08'	My favorite globular in North with tight core	Bino
7	M4	5.8	26.3'	G. Cluster	Scorpius	16h 23.6m	-26° 32'	Large loose cluster; one of the closest globulars in the sky	Tele
8	M6	4.2	54.0'	O. Cluster	Scorpius	17h 40.1m	-32° 13'	Naked eye object; looks like butterfly in eyepiece	Bino
9	M7	3.3	50.0'	O. Cluster	Scorpius	17h 53.9m	-34° 49'	Naked eye object just below M6 and tail of Scorpio	Bino
10	NGC 6520/B86	7.6/N/A	6.0'*	O. Cl/D.Neb	Sagittarius	18h 03.4m	-27° 54'	Bright open cluster with dark nebula in same field	Tele
11	M8	6	90.0"x40.0'	Diff. Neb.	Sagittarius	18h 03.8m	-24° 23'	Binocular object looks like fuzzy patch off of tea pot	Bino
12	M17	7	46.0"x37.0'	Diff. Neb.	Sagittarius	18h 20.8m	-16° 11'	Check mark/#2 or Swan Nebula this one stands out	Tele
13	M11	5.8	13.0'	O. Cluster	Scutum	18h 51.1m	-06° 16'	The Wild Duck Cluster; very bright star in center a showpiece	Tele
14	M57	8.8	71.0"	P. Nebula	Lyra	18h 53.6m	33° 02'	The Ring Nebula; small smoke ring easy to find	Tele
15	M56	8.3	7.1'	G. Cluster	Lyra	19h 16.6m	30° 11'	A nice small globular in rich star field	Tele
16	Albireo	3/5.1	34.3"	Double Star	Cygnus	19h 30.7m	27° 58'	Beautiful double gold and blue.	Tele
17	NGC 6826	10	30.0"x140.0"	P. Nebula	Cygnus	19h 44.8m	50° 31'	Blinking planetary nebula; it really blinks	Tele
18	Cr399	3.6	60.0'	O. Cluster	Vulpecula	19h 25.4m	20° 11'	Large cluster that looks like a Coat hanger	Bino
19	M27	8	8.0"x4.0'	P. Nebula	Vulpecula	19h 59.6m	22° 43'	Dumbbell nebula; it looks like hourglass nebula	Tele
20	M15	6.4	12.0'	G. Cluster	Pegasus	21h 30.0m	12° 10'	Nice tight globular; easy to resolve	Tele
21	M2	6.4	12.9'	G. Cluster	Aquarius	21h 33.5m	-00° 49'	Larger then neighbor M15; more round in appearance	Tele
22	OEE254	7.6/8.7	58.1"	Double Star	Cassiopeia	00h 01.2m	60° 20'	The Stop Light; Double Red and Green Stars	Tele
23	NGC 457	6.4	13.0'	O. Cluster	Cassiopeia	01h 19.1m	58° 20'	Owl Cluster; look like an owl in a tree	Tele
24	M31	3.4	178"x63'	Galaxy	Andromeda	00h 40.4m	41° 41'	Naked eye; fuzzy patch above star; only 2.4 Million light years away	Bino
25	NGC 752	5.7	50.0'	O. Cluster	Andromeda	01h 57.8m	37° 41'	Naked eye object with 40 stars visible in Telescope	Bino
26	NGC 253	7.1	25.1"x7.4'	Galaxy Scp	Sculptor	00h 47.6m	-25° 17'	One of the Best Galaxies in the sky! 4th Brightest in Northern sky	Tele
27	M33	5.7	62.0"x39.0'	Galaxy	Triangulum	01h 33.9m	30° 39'	Naked eye challenge but visible in binoculars as faint glow	Bino
28	NGC 884/869	4.3/4.4	30'/30'	Double Cl.	Perseus	02h 19.0m	57° 09'	Naked eye; patch of glow below the W of Cassiopeia	Bino
29	M34	5.2	35.0'	O. Cluster	Perseus	02h 42.0m	42° 47'	Binocular object about 1500 light years away	Bino
30	M45	3	120.0'	O. Cluster	Taurus	03h 47.0m	24° 07'	Naked eye object best viewed in binoculars	Bino