

TABLE MOUNTAIN STAR PARTY OBSERVER'S CHALLENGE #2

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Modified for 2010 by John Goar

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 #2 Award lapel pin.
You must create a record of your 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	TYPE OBJECT	CONSTELLATION	R.A.	DEC.	DESCRIPTION
1	NGC404	10.1	4.4'x4.2'	Galaxy	Andromeda	01 09.4	35.43	Appears as a faint smudge. Take Beta Andromeda out of the field of view.
2	Almach	2.3/4.8	10"	Double Star	Andromeda	02 3.9	42.2	Beautiful Gold and Blue double star.
3	NGC891	10	13.5'x2.8'	Galaxy Sb	Andromeda	02 22.6	42.21	A faint edge on galaxy. It shows a dark dust lane on good night.
4	NGC7662	9.2	20.0"/130.0"	P. Nebula	Andromeda	23 25.9	42.33	Blue Snowball is pale blue/white in color with central star visible.
5	NGC7009	8.3	25.0"/100.00"	P. Nebula	Aquarius	21 04.2	-11.22	The Saturn Nebula looks like miniature Saturn complete rings and green color.
6	M36	6	12.0'	O. Cluster	Auriga	05 36.5	34.08	M36 is bright tight open cluster.
7	M37	5.6	24.0'	O. Cluster	Auriga	05 52.4	32.33	Bright open cluster with orange star in center.
8	M30	7.5	9.0'	G. Cluster	Capricornus	21 40.4	-23.11	The Lunar Lander. At Medium power looks like Lunar Lander with three feet.
9	Neptune	7.9	2.3"	Planet	Aquarius	21 59.4	-12.8	
10	NGC7789	10.9	2.2'x2.1'	O. Cluster	Cassiopeia	00 52.1	47.33	A large round open cluster with hundreds of stars visible.
11	NGC7510	7.9	4.0'	O. Cluster	Cepheus	23 11.5	60.34	A bright open cluster in a wedge shape.
12	NGC6960/52 Cygni	N/A/4.2	70.0'x6.0'/6.0"	E. Nebula/DbI Star	Cygnus	20 45.7	30.43	The ski jump part of Veil nebula. 52 Cygni is tight double star. Nebula filters help.
13	NGC6992	N/A	70.0'x8.0'	E. Nebula	Cygnus	20 56.4	31.43	This is part of bridal Veil nebula. Shaped like backward C. Nebula filters help.
14	NGC6905	12	46.0"/100.00"	P. Nebula	Delphinus	20 22.4	20.07	The Blue Flash Nebula a donut of nebula in a triangle of stars. High power helps.
15	Gamma Delphini	4.1/4.5	9.6"	Double Star	Delphinus	20 46.7	16.7	These two stars are similar color (orange/yellow) and brightness.
16	NGC5907	10.4	12.3'x1.8'	Galaxy Sb+	Draco	15 15.9	56.19	A huge edge on galaxy that fills the entire eyepiece.
17	Rasalgethi	3.3/3.5	4.6"	Double Star	Hercules	17 14.6	14.23	Alpha Herculis is nice pair of red/golden primary star and blue secondary star.
18	NGC6229	8.7	1.2'	G. Cluster	Hercules	16 47.0	47.32	The third globular cluster in Hercules. A challenge in small telescopes.
19	M10	6.6	15.1'	G. Cluster	Ophiuchus	16 57.1	-04.06	One of the closest Globulars in Ophiuchus. It resolves to core in 8" or larger scopes.
20	M14	7.6	11.7'	G. Cluster	Ophiuchus	17 37.6	-03.15	A large and bright globular cluster discovered by Messier June 1st, 1764.
21	NGC6572	8.1	18.0"	P. Nebula	Ophiuchus	18 12.1	6.51	A green planetary that forms a triangle with two stars.
22	NGC7331	9.5	10.7'x4.0'	Galaxy Sb	Pegasus	22 37.1	34.25	NGC7331 is mini Andromeda Galaxy with nice detail. Look for 5 others in same field.
23	NGC7332/7339	10.9/12.1	4.2'x1.3'/3.2'x0.9'	Galaxies E7/S(B)b+	Pegasus	23 37.4	23.48	A nice pair of edge on galaxies. Medium power helps.
24	NGC1545	6.2	18.0'	O. Cluster	Perseus	04 20.9	50.15	A faint cluster of stars with a triangle of bright stars toward the center.
25	Uranus	5.8	3.6"	Planet	Pisces	00 1.31	-00.71	Uranus can be seen Naked-eye or in binoculars.
26	NGC6522/NGC6528	8.6/9.5	5.6'/3.7'	G. Clusters	Sagittarius	18 03.6	-30.02	A pair of globular clusters of equal brightness.
27	NGC5897	8.6	12.6'	G. Cluster	Scorpius	15 17.4	-21.01	A nice globular cluster that starts to resolve in larger telescopes.
28	NGC6712	8.2	7.2'	G. Cluster	Scutum	18 53.1	-08.42	A globular cluster that resolves into some stars. Challenge is to see IC1295 planetary nebula in same field.
29	IC4756	4.6	52.0'	O. Cluster	Serpens Cauda	18 39.0	5.27	A large open cluster best viewed at low power.
30	M81/M82	6.8/8.4	26.0'x14.0'/11.0'x5.0'	Galaxies Sp/Ir	Ursa Major	09 55.6	69.04	M81 and M82. How often can you see a Spiral galaxy and Irregular galaxy in same field?