

TSP 2001 Binocular Observing Club

By John Wagoner,
American Association of Amateur Astronomers
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RULES AND REGULATIONS

Welcome to the Texas Star Party's **Binocular Observing Club**. The purpose of this club is not to test your observing skills by throwing the toughest objects at you that are hard to see under any conditions, but to give you an opportunity to observe **25 showcase objects** under the ideal conditions of these pristine West Texas skies, thus displaying them to their best advantage.

The rules are simple. Just observe any 25 objects listed below, and log those observations in the spaces provided. That's it. Any size binoculars can be used. All observations must be made at the Texas Star Party to qualify. For a **Southern Skies challenge**, observe those objects marked with an "S". For an **easy list**, observe those objects marked with an "E". For a **tougher list**, observe those objects marked with an "H". But remember, a **total of 25 objects** must be observed, and you can mix and match lists.

All objects are within range of small to medium sized binoculars, and are available for observation between 10:00PM and 4:00AM any time during the TSP. All objects are listed in Right Ascension order so that you can observe them before they set in the West, or as they rise in the East. Each person completing this list will receive an official Texas Star Party Binocular Observing Club lapel pin. These pins are not sold at the TSP and can only be acquired by completing the program, so wear them proudly. All objects were tested at Ft. Davis, and you should not have trouble with any of them.

To receive your pin, **turn in your observations to John Wagoner - TSP Observing Chairman** any time during the Texas Star Party. If you cannot find me on the field, I will be at the outside door leading into the TSP Meeting Hall each day between 1:00 PM and 2:30 PM. If you finish the list the last night of TSP, and I am not available to give you your pin, just mail your observations to me at 1409 Sequoia, Plano, TX 75023, and I will see that you get a pin. Now, let's get out there and observe!!!

LIST OF OBJECTS (Pick 25 objects)

Chk	Object	R.A.	DEC	Mag	Type	Size	Con	Urn	SA
[H]	NGC 129	00 29.9	+60 14	6.5	OpCl	21.0'	Cas	15	1
[H]	NGC 457	01 19.1	+58 20	6.4	OpCl	13.0'	Cas	36	1
[H]	NGC 581 M103	01 33.2	+60 42	7.4	OpCl	6.0'	Cas	16	1
[H]	NGC 663	01 46.0	+61 15	7.1	OpCl	16.0'	Cas	16	1
[E]	NGC 2632 M44	08 40.1	+19 59	3.1	OpCl	95.0'	Cnc	141	12
[H]	NGC 2682 M67	08 50.4	+11 49	6.9	OpCl	29.0'	Cnc	187	12
[E]	Mel 111 Coma Cl	12 25.0	+26 00	1.8	OpCl	275'	Com	148	7
[S]	NGC 5128 Cent A	13 25.5	-43 01	7.0	Glxy	18.0'	Cen	403	21
[S]	NGC 5139 Omega	13 26.8	-47 29	3.5	GbCl	36.0'	Cen	403	21
[H]	NGC 5272 M3	13 42.2	+28 23	5.9	GbCl	16.0'	CVn	110	7
[S]	NGC 5460	14 07.6	-48 19	5.6	OpCl	25.0'	Cen	404	21
[H]	NGC 5904 M5	15 18.6	+02 05	5.7	GbCl	17.0'	SerCp	244	14
[E]	NGC 6121 M4	16 23.6	-26 32	5.8	GbCl	26.0'	Sco	336	22
[S]	NGC 6124	16 25.6	-40 40	5.8	OpCl	40.0'	Sco	407	22
[E]	NGC 6205 M13	16 41.7	+36 28	5.7	GbCl	17.0'	Her	114	8
[E]	NGC 6218 M12	16 47.2	-01 57	6.8	GbCl	15.0'	Oph	246	15
[S]	NGC 6231	16 54.0	-41 48	2.6	OpCl	14.0'	Sco	407	22
[S]	Cr316-H12	16 55.5	-40 50	3.4	OpCl	105'	Sco	407	22
[S]	NGC 6242	16 55.6	-39 30	6.4	OpCl	9.0'	Sco	375	22
[E]	NGC 6254 M10	16 57.1	-04 06	6.6	GbCl	15.0'	Oph	247	15
[S]	NGC 6268	17 02.4	-39 44	9.5	OpCl	6.0'	Sco	376	22
[S]	NGC 6281	17 04.8	-37 54	5.4	OpCl	8.0'	Sco	376	22
[E]	NGC 6341 M92	17 17.1	+43 08	6.4	GbCl	11.0'	Her	81	8
[E]	NGC 6405 M6	17 40.1	-32 13	4.2	OpCl	33.0'	Sco	377	22
[E]	IC 4665	17 46.3	+05 43	4.2	OpCl	70.0'	Oph	203	15
[E]	NGC 6475 M7	17 53.9	-34 49	3.3	OpCl	80.0'	Sco	377	22
[E]	NGC 6494 M23	17 56.8	-19 01	5.5	OpCl	30.0'	Sgr	339	15
[E]	NGC 6523 M8	18 03.8	-24 23	5.0	Bneb	90.0'	Sgr	339	22
[S]	NGC 6541	18 08.0	-43 42	6.1	GbCl	13.0'	CrA	409	22
[E]	NGC 6603 M24	18 18.4	-18 25	4.0	OpCl	2 dg	Sgr	339	15
[E]	NGC 6611 M16	18 18.8	-13 47	6.0	OpCl	120'	Ser	294	15
[H]	NGC 6613 M18	18 19.9	-17 08	6.9	OpCl	9.0'	Sgr	294	15
[E]	NGC 6618 M17	18 20.8	-16 11	6.0	OpCl	11.0'	Sgr	294	15
[E]	IC 4725 M25	18 31.6	-19 15	4.6	OpCl	32.0'	Sgr	340	15
[E]	NGC 6656 M22	18 36.4	-23 54	5.1	GbCl	24.0'	Sgr	340	22
[E]	IC 4756	18 39.0	+05 27	4.6	OpCl	40.0'	Ser	205	15
[E]	NGC 6705 M11	18 51.1	-06 16	5.8	OpCl	13.0'	Sct	295	15
[S]	NGC 6723	18 59.6	-36 38	7.2	GbCl	11.0'	Sgr	378	22
[E]	Cr 399 Coathanger	19 25.4	+20 11	3.6	OpCl	60.0'	Vul	161	8
[H]	NGC 6809 M55	19 40.0	-30 58	6.4	GbCl	19.0'	Sgr	380	22
[E]	NGC 6853 M27	19 59.6	+22 43	7.3	PNeb	8.0'	Vul	162	8
[H]	NGC 6913 M29	20 23.9	+38 32	6.6	OpCl	6.0'	Cyg	84	9
[H]	NGC 6940	20 34.6	+28 18	6.3	OpCl	31.0'	Vul	120	9
[H]	NGC 7078 M15	21 30.0	+12 10	6.0	GbCl	12.0'	Peg	210	16
[E]	NGC 7092 M39	21 32.2	+48 26	4.6	OpCl	31.0'	Cyg	86	9
[H]	NGC 7089 M2	21 33.5	-00 49	6.4	GbCl	13.0'	Aqr	255	16
[H]	NGC 7243	22 15.3	+49 53	6.4	OpCl	21.0'	Lac	57	9
[H]	NGC 7654 M52	23 24.2	+61 35	6.9	OpCl	12.0'	Cas	35	3
[H]	NGC 7789	23 57.0	+56 44	6.7	OpCl	15.0'	Cas	59	3



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Observing Log

Observer: _____ Location: _____ Page: _____

INDEX	Period - Instrument		Notes
Object	Date	Time	
	Power	Seeing	
	Type Instrument		
Object	Date	Time	
	Power	Seeing	
	Type Instrument		
Object	Date	Time	
	Power	Seeing	
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