

# ***THE ELDORADO STAR PARTY***

## ***2005 BINOCULAR & TELESCOPE OBSERVING CLUBS***

**BY JOHN WAGONER**  
**TEXAS ASTRONOMICAL SOCIETY OF DALLAS**

### **RULES AND REGULATIONS**

Welcome to the Annual Eldorado Star Party Observing Clubs. The purpose of these clubs 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 many showcase objects under the ideal conditions of these pristine Southwest Texas skies, thus displaying them to their best advantage. This year we have several programs planned. The rules are simple. Just observe the objects listed for each program.

The first program is an easy binocular program consisting of 15 objects called “Binocular Banquet”. There are 25 objects on the list, but you need only observe any 15, your choice. The second program is a list of twenty-five objects for small to intermediate telescopes called “Killer Clusters”. Now don’t let that name scare you. The objects are fairly easy, it is just that those pesky planetaries are back. Also, when observing this list, if you can’t see the object or if it sets before you get a chance to observe it, just mark it as attempted and move on to the next one. You will get credit for it. This year I’ve tried to keep objects in the West which are our darkest skies. Last year’s programs are also available to observe if you didn’t get a chance to complete them. This includes “Texas Terror” and a program that is a list of ten galaxies for large aperture telescopes called “Galaxy Gumbo”. Stephan’s Quintet is in this one.

Any size telescope or binocular can be used. All observations must be made at the Eldorado Star Party to qualify. All objects are available for observation between 8:00PM and 3:00AM any time during the ESP. Each person completing any of the lists will receive a special Eldorado Star Party Observing Club badge. These badges are not sold at the ESP and can only be acquired by completing the programs.

To receive your badge, turn in your observations to ***John Wagoner - ESP Observing Chairman*** any time during the Eldorado Star Party. I will try to be on the observing field at a convenient time, and at the ESP talks. If you finish the list the last night of ESP, or I am not available to give you your badge, just mail your observations to me at 1409 Sequoia Dr., Plano, Tx. 75023, and I will see that you get your badge.

Good luck and good observing.

## Binocular Banquet

Object	Type	R.A.	Dec	Con	Size	Mag	Date	Time
M13	Glob	16 42	+36 28	Her	17'	5.7		
M92	Glob	17 17	+43 08	Her	11'	6.4		
Cr399 (Coathanger)	OCI	19 25	+20 11	Vul	60'	3.6		
M27	PIN	20 00	+22 43	Vul	6'	7.3		
M31	Gal	00 43	+41 16	And	178'	4.5		
M15	Glob	21 30	+12 10	Peg	12'	6.0		
M39	OCI	21 32	+48 26	Cyg	31'	4.6		
M2	Glob	21 34	-00 49	Aqr	13'	6.4		
M30	Glob	21 40	-23 11	Cap	11'	7.3		
NGC7789	OCI	23 57	+56 44	Cas	15'	6.7		
NGC457	OCI	01 19	+58 20	Cas	13'	6.4		
M103	OCI	01 33	+60 42	Cas	6'	7.0		
M33	Gal	01 34	+30 39	Tri	67'	5.7		
NGC663	OCI	01 46	+61 15	Cas	16'	7.1		
NGC869	OCI	02 19	+57 09	Per	29'	5.3		
NGC884	OCI	02 22	+57 07	Per	29'	6.1		
M34	OCI	02 42	+42 47	Per	35'	6.0		
M45	OCI	03 47	+24 07	Tau	110'	1.4		
Mel 25 (Hyades)	OCI	04 27	+16 00	Tau	330'	0.5		
M38	OCI	05 29	+35 50	Aur	21'	7.0		
M36	OCI	05 36	+34 08	Aur	12'	6.5		
M37	OCI	05 52	+32 33	Aur	24'	6.0		
M35	OCI	06 09	+24 20	Gem	28'	5.5		
M42	DfN	05 35	-05 23	Ori	85'	5.0		
M41	OCI	06 47	-20 44	Cma	38'	4.5		

## Texas Terror (2004)

Object	Type	R.A.	Dec	Con	Size	Mag	Date	Time
N6210	PIN	16 44	+38 17	Her	14"	8.8		
N6709	OCI	18 52	+10 21	Aql	13'	6.7		
N6755	OCI	19 08	+04 14	Aql	14'	7.5		
N6756	OCI	19 09	+04 41	Aql	4'	10.6		
N6781	PIN	19 18	+06 33	Aql	109"	11.4		
N6791	OCI	19 21	+37 51	Lyr	15'	9.5		
N6802	OCI	19 31	+20 16	Vul	3'	8.8		
N6826	PIN	19 45	+50 31	Cyg	25"	8.8		
N6939	OCI	20 31	+60 38	Cep	7'	7.8		
N6946	Gal	20 35	+60 09	Cep	13'	8.8		
N7023	RefNeb	21 00	+68 10	Cep	10'	10.0		
IC1396	OCI	21 39	+57 30	Cep	50'	3.5		
N7009	PIN	21 04	-11 22	Aqr	25"	8.3		
N7184	Gal	22 03	-20 49	Aqr	7'	11.2		
N7293	PIN	22 30	-20 48	Aqr	13'	7.3		
N7331	Gal	22 37	+34 25	Peg	11'	9.5		
N7814	Gal	00 03	+16 09	Peg	6'	10.6		
N524	Gal	01 25	+09 32	Psc	4'	10.2		
N672	Gal	01 48	+27 26	Tri	7'	10.9		
N925	Gal	02 27	+33 35	Tri	12'	10.1		
N957	OCI	02 34	+57 32	Per	11'	7.6		
N1023	Gal	02 40	+39 04	Per	9'	9.3		
N1245	OCI	03 15	+47 15	Per	10'	8.4		
N1333	RefNeb	03 29	+31 25	Per	6'	10.0		
N1528	OCI	04 15	+51 14	Per	23'	6.4		

## Galaxy Gumbo (2004)

Object	Type	R.A.	Dec	Con	Size	Mag	Date	Time
N7317 SQ	Gal	22 36	+33 57	Peg	3'	13.6		
N7318A SQ	Gal	22 36	+33 58	Peg	2'	13.4		
N7318B SQ	Gal	22 36	+33 58	Peg	1'	13.4		
N7319 SQ	Gal	22 36	+33 59	Peg	2'	13.1		
N7320 SQ	Gal	22 36	+33 57	Peg	2'	12.6		
N7332	Gal	22 37	+23 48	Peg	4'	11.1		
N7339	Gal	22 38	+23 47	Peg	3'	12.2		
N7479	Gal	23 05	+12 19	Peg	4'	10.8		
N1	Gal	00 07	+27 43	Peg	2'	12.9		
N2	Gal	00 07	+27 41	Peg	1'	14.2		

## Killer Clusters (2005)

Object	Type	R.A.	Dec	Con	Size	Mag	Date	Time
N6811	OCI	19 37	46 23	Cyg	20'	6.8		
N6819	OCI	19 41	40 11	Cyg	10'	7.3		
N7184	Gal	22 03	-20 49	Aqr	7'	11.2		
N6834	OCI	19 52	29 25	Cyg	5'	7.8		
N6866	OCI	20 04	44 09	Cyg	6'	7.6		
N6871	OCI	20 06	35 47	Cyg	20'	5.2		
N6891	PNb	20 15	12 42	Del	14"	10.5		
N6894	PNb	20 16	30 34	Cyg	42"	12.3		
N6934	GCI	20 34	07 24	Del	6'	8.7		
N6960	Neb	20 46	30 43	Cyg	70'	7.2		
N6992	Neb	20 56	31 43	Cyg	60'	6.8		
N7026	PNb	21 06	47 51	Cyg	21"	10.9		
N7209	OCI	22 05	46 30	Lac	25'	7.7		
IC1434	OCI	22 11	52 50	Lac	7'	9.0		
N7243	OCI	22 15	49 53	Lac	21'	6.4		
N7245	OCI	2215	54 20	Lac	7'	9.2		
N7160	OCI	21 54	62 36	Cep	7'	6.1		
N7235	OCI	22 13	57 17	Cep	5'	8.4		
N7510	OCI	23 12	60 34	Cep	4'	7.9		
N40	PNb	00 13	72 32	Cep	37"	12.4		
N7788	OCI	23 57	61 24	Cas	9'	9.4		
N7790	OCI	23 58	61 13	Cas	17'	8.5		
N381	OCI	01 08	61 35	Cas	6'	9.3		
N654	OCI	01 44	61 53	Cas	5'	6.4		
N663	OCI	01 46	61 15	Cas	16'	7.1		