The Eldorado Star Party
2010 Binocular and Telescope Observing Clubs

proposed by *Blackie Bolduc*
San Antonio Astronomical Association
(with apologies, admiration, and thanks to John Wagoner and Bill Tschumy)

Purpose and Rules

Welcome to the Annual ESP Binocular and Telescope Observing Clubs! Their purpose is to give you an opportunity to observe some Fall showcase objects under the pristine Southwest Texas skies. thus displaying them to their best advantage.

Binocular Club. (Thanks to John Wagoner.) This is an easy program consisting of 15 objects called "Binocular Banquet". There are 25 objects on the list, but *you need only observe any 15*, your choice.

Telescope Club. This listing, called "Constellation Odyssey", samples all twenty-six of the constellations observable from the X-Bar Ranch sometime from evening nautical twilight until 2:00am the following morning. Each can be seen at least twenty degrees from the horizon during that period. (While the listing is in Right Ascension order, you may have to wait a while before the object clears that boundary.)

OK: *some* of these objects are ***dim***! But, according to the ever-reliable Kepple & Sanner's *The Night Sky Observers Guide*, all can be seen with a telescope of at least eight inches of aperture. So: make a little effort!

In order to minimize repetition from past, only three of these objects were listed in the most recent three years; and those three certainly warrant repeat appearances.

While there are twenty-six objects on the list -- one in each of the constellations in view -- you will need to view *only twenty-five to qualify* for the *Telescope Club*.

Badges. To qualify, all observations must be made at the Eldorado Star Party. Each person qualifying will receive a special badge.

To receive your badge, please turn in your observations to Blackie Bolduc any time during the Party. He will try be available on the observing field, and at meals and Talks in the Lodge.

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)	OCl	19 25	+20 11	Vul	60'	3.6		
M27	PlN	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	OCl	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	OCl	23 57	+56 44	Cas	15'	6.7		
NGC457	OCl	01 19	+58 20	Cas	13'	6.4		
M103	OCl	01 33	+60 42	Cas	6'	7.0		
M33	Gal	01 34	+30 39	Tri	67'	5.7		
NGC663	OCl	01 46	+61 15	Cas	16'	7.1		
NGC869	OCl	02 19	+57 09	Per	29'	5.3		
NGC884	OCl	02 22	+57 07	Per	29'	6.1		
M34	OCl	02 42	+42 47	Per	35'	6.0		
M45	OCl	03 47	+24 07	Tau	110'	1.4		
Mel 25 (Hyades	OCl	04 27	+16 00	Tau	330'	0.5		
M38	OCl	05 29	+35 50	Aur	21'	7.0		
M36	OCl	05 36	+34 08	Aur	12'	6.5		
M37	OCl	05 52	+32 33	Aur	24'	6.0		
M35	OCl	06 09	+24 20	Gem	28'	5.5		
M42	DfN	05 35	-05 23	Ori	85'	5.0		
M41	OCl	06 47	-20 44	Cma	38'	4.5		

Constellation Odyssey

Id	Type	R.A.	Dec.	Mag	Size	Const	date/time observed
NGC83	Gal	00h 21.4m	+22º 26'	13.6	1x1	And	
NGC253	Gal	00h 47.6m	-25º 17'	8.0	26x6	Sci	
M33	Gal	01h 33.8m	+30º 40'	6.2	69x42	Tri	
NGC678	Gal	01h 49.4m	+22º 00'	13.3	5x1	Ari	
NGC1023	Gal	02h 40.4m	+39º 04'	9.2	9x3	Per	
NGC1090	Gal	02h 46.6m	-00º 15'	11.9	4x2	Cet	
NGC1187	Gal	03h 02.6m	-22º 52'	11.3	5x4	Eri	
NGC1514	P Neb	04h 09.3m	+30º 47'	10.9	2x2	Tau	
IC405	D Neb	05h 16.5m	+34º 21'			Aur	
NGC2169	OC	06h 08.4m	+13º 57'	5.9	6	Ori	
NGC2266	OC	06h 43.2m	+26º 58'	9.5	6	Gem	
NGC2403	Gal	07h 36.9m	+65º 36'	8.9	23x12	Cam	
NGC6217	Gal	16h 32.6m	+78º 12'	11.2	3x3	UMi	
NGC6772	P Neb	19h 14.6m	-02º 42'	12.7	1x1	Aql	
M56	Glob	19h 16.6m	+30 º11'	9.5	7	Lyr	
NGC6830	OC	19h 51.0m	+23º 04'	7.9	12	Vul	
M71	Glob	19h 53.7m	+18º 47'	8.5	7	Sge	
MGC6894	P Neb	20h 16.4m	+30º 34	12.3	.7x.7	Cyg	
NGC6905	P Neb	20h 22.4m	+20º 06'	121.0	2	Del	
NGC7139	P Neb	21h 46.1m	+63º 48'	13.3	1x1	Cep	
Pal 12	Glob	21h 46.6m	-21º 15'	11.7	3	Cap	
NGC7245	OC	22h 15.3m	+54º 20'	9.2	5	Lac	
NGC7457	Gal	23h 01.0m	+30 º 09'	10.6	4x3	Peg	
NGC7492	Glob	23h 08.4m	-15º 37'	11.4	6	Aqr	
NGC7541	Gal	23h 14.7m	+04º 32'	11.7	4x1	Psc	
NGC7635	D Neb	23h 20.7m	+61º 13'		15	Cas	