

The Eldorado Star Party

2011 Binocular and Telescope Observing Clubs

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Purpose and Rules

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

Binocular Club. In response to many requests for “something different”, you are offered the opportunity to chase down some lovely *asterisms*. There is a listing of twenty-five objects, all observable with binoculars of modest dimension. While the location center of mass of each object is specified, some imagination on your part will be required in order to “see” the figure suggested. Most will pop out easily, but others may be elusive. If you get stumped, you can always consult the “cheat sheets” posted in the registration/warming tent on the observing field. *You need only observe any 15, your choice.*

Telescope Club. Since most of the readily accessible objects have already been included in one or more of the annual listings since this Party got underway in 2004, it is time to try to spice up our challenges. This year we offer “Peeling the Onion”: beginning with a relatively easy to identify major object, then turning to a sub-object just a bit harder, and on to another sub-sub-object ... peeling them off one at a time. There are five major groups, with one “onion” at the head of each, and six to eleven “peels” in close order behind. Of a total of forty objects, *you need only “find” 25, your choice.* Admittedly, “seeing” some of the inside peels is tough! But then consider: we have a lot of *very* accomplished observers with some extremely refined gear! For the *really* hard objects, imaging may be required; but who’s surprised? Wouldn’t be any fun if there is no challenge!

More. Please note that ALL the observing programs offered at ESP from 2004 *are still available, together with the badges which correspond.* **Check in the registration/warming tent on the observing field to select one (or more!) lists you like.**

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 to be available on the observing field, and at meals and Talks in the Lodge.

Binocular Asterisms-1 of 2

#	Name	R.A.	Dec	Size	Const	Notes	Date/time observed
1	Home Plate	00h 07.5'	+40° 35'	44'x31'	And	5 stars of mag.6-7 in shape of a pentagon.	
2	Queen's Kite	01h 00'	+58° 30'	220'x160'	Cas	Rough pentagon of stars including Chi Cassiopae	
3	Golf Putter	01h 52'	+37° 30'	20'x95'	And	Line of stars for the clubhead; NGC752 is the ball.	
4	Diamond Ring	02h 32'	+89° 00'	45'	UMi	AKA the engagement ring with Polaris the diamond.	
5	Chi 1-2-3	03h 27'	-35° 00'	30'x30'	For	An arrowhead shaped group 1° W of galaxy NGC1365.	
6	Kemble's Kite	03h 28'	+72° 00'	90'x30'	Cas	Diamond shape kite with tail.	
7	Kemble;s Cascade	04h 00'	+63° 00'	150'	Cam	Chain of stars (the waterfall) that ends in open cluster NGC1502 the pool.	
8	Davis' Dog	04h 22'	+21° 25'	200x90'	Tau	Includes 5th mag. stars 50, 53, 65, 67, and 72 Tauri.	
9	Flying Minnow	05h 19'	+33° 40'	75'	Aur	Includes 16, 18, and 19 Aurigae; SE of Flaming Star Nebula.	
10	Smiley Face	05h 28'	+35° 00'	90'x30'	Aur	SW of M35; AKA Cheshire Cat.	
11	Lamda-Lamda	05h 36'	+10° 00'	60'	Ori	Lamda Orionis + Collinder 69, in shape of Greek letter Lamda.	

(Continued-2 of 2 below)

Binocular Asterisms-2 of 2

#	Name	R.A.	Dec	Size	Const	Notes	Date/time observed
12	Spermato-zoon	05h 43'	+21° 35'	30'	Tau	Row of stars 35' E of Zeta Tauri, w/brightest at tip.	
13	Zig Zag	16h 18'	+13° 00'	100'x15'	Her	Wiggly line of 8th & 9th mag. stars.	
14	Mini-Coathanger	16h 29'	+80° 15'	15'	UMi	Fainter copy of original in Vulpecula.	
15	Backwards 5	16h 37'	+31° 05'	20'	Her	Pattern of 7-10.6 mag. stars.	
16	Little Queen	18h 35'	+72° 25'	10'x20'	Dra	Little Cassiopeia; AKA Kemble 2.	
17	Button Hook	18h 43'	-06° 50'	120'x120'	Sct	Letter J or fishhook shape.	
18	Coathanger	19h 25'	+20° 04'	90'x60'	Vul	AKA Collinder 39 or Brocchi's Cluster.	
19	Red-Necked Emu	20h 13'	+36° 30'	45'	Cyg	Takes imagination to see a large flightless bird.	
20	Theta Delphini	20h 38'	+13° 10'	60'x30'	Del	Spray of faint stars cut out from Delphinus, including 55 Delphini.	
21	Little Orion	20h 56'	+43° 34'	60'x25'	Cyg	With 7 stars, looks like like original.	
22	Dolphin's Diamonds	21h 07'	+16° 20'	15'	Del	Aka The Toadstool; W of NGC7025.	
23	Horseshoe	21h 08'	+47° 14'	25'	Cyg	Stars of 10-11 mag.	
24	Lucky 7	23h 03'	+59° 30'	70'x125'	Cas	Includes 1 & 2 Cassiopeiae	
25	Airplane	23h 20'	+62° 20'	60'	Cas	8 stars of 7-8 mag. located 40 arcminutes W of M52.3	

Peeling the Onion - 1 of 2

Andromeda Galaxy Group

ID	Name	Type	R.A. Epoch 2000	Dec	Mag	Size	Const	Date/time observed
M31	Andromeda	Gal	00h 42.7'	+41° 16'	4.3	190'x62'	And	
M110	NGC205	Gal	00h 40.4'	+41° 41'	8.1	20'x12'	And	
M32	NGC221	Gal	00h 42.7'	+40° 52'	9.1	8.5'x6.5'	And	
NGC206	NGC206	Star cloud	00h 40.5'	+40° 44'	11.9	4.2'x1.5'	And	
G76	G76	Glob	00h 41.1'	+40° 36'	14.2	3.6"	And	
G280	G280	Glob	00h 44.5'	+41° 22'	14.2	2.7"	And	
G78	G78	Glob	00h 41.0'	+41° 14'	14.3	3.2"	And	

Pinwheel Galaxy Group

M33	Pinwheel	Gal	01h 33.8'	+30° 40'	6.2	69'x42'	Tri	
NGC595	NGC595	Knot	01h 33.6'	+30° 42'		1.73'x0.9'	Tri	
NGC604	III-150	Neb	01h 34.6'	+30° 47'		1'x.07'	Tri	
IC132	IC132	Neb	01h 33.3'	+30 °57'		0.70'	Tri	
NGC588	NGC588	Neb	01h 32.8'	+30° 39'		0.65'	Tri	
NGC592	NGC592	Neb	01h 33.2'	+30° 39'		0.35'	Tri	

Sculptor Galaxy Group

NGC55	NGC55	Gal	00h 15.1'	-39° 13'	8.0	32.4'	Scl	
NGC253	Silver Coin	Gal	00h 47.6'	-25° 17'	8.0	26.4'x6'	Scl	
NGC300	NGC300	Gal	00h 54.9'	-37° 41'	9.0	20'	Scl	
NGC7793	NGC7793	Gal	23h 57.8'	-32° 35'	9.1	9.1'	Scl	
NGC247	NGC247	Gal	00h 47.1'	-20° 46'	9.6	21'x5.6'	Cet	
NGC45	NGC45	Gal	00h 14'	-23° 11'	10.4	8.1'	Cet	

(Continued: 2 of 2 below)

Peeling the Onion - 2 of 2

Pleiades Group

ID	Name	Type	R.A. Epoch 2000	Dec	Mag	Size	Const	Date/time observed
M45	Pleiades	OC	03h 47.4'	+24° 07'	1.6	120'	Tau	
Eta Tauri	Alcyone	Star	03h 47.5'	+24° 06'	2.9		Tau	
17 Tauri	Electra	Star	03h 44.9'	+24° 07'	3.7		Tau	
20 Tauri	Maia	Star	03h 45.8'	+24° 22'	3.9		Tau	
19 Tauri	Taygeta	Star	03h 45.2'	+24° 28'	4.3		Tau	
28 Tauri	Pleione	Star	03h 49.2'	+24° 08'	4.8		Tau	
16 Tauri	Celaeno	Star	03h 44.8'	+24° 17'	5.5		Tau	
21 Tauri	Asterope 1	Star	03h 45.9'	+24° 33'	5.8		Tau	
22 Tauri	Asterope 2	Star	03h 46.0'	+24° 31'	6.4		Tau	

Orion Group

Zeta Orionis	Alnitak	Dbl	05h 40.8'	-01° 57'	1.9/4.0	sep2.3"	Ori	
M42	Orion Neb	Neb	05h 35.3'	-05° 23'	4.0		Ori	
NGC1981	NGC1981	OC	05h 35.2'	-04° 26'	4.6		Ori	
Theta Orionis	Trapezium	OC	05h 35.3'	-05° 23'	5.3		Ori	
NGC1977	V-30	OC	05h 35.3'	-04° 49'	7.0		Ori	
NGC2024	Flame	Neb	05h 41.7'	-01° 51'		30'	Ori	
Sh2-261	Lower's	Neb	06h 09.0'	+15° 48'	8.4	45'x30'	Ori	
M43	De Mairan's	Neb	05h 35.5'	-05° 16'	9.0	20'	Ori	
NGC2141	NGC2141	OC	06h 02.9'	+10° 27'	9.4	10'	Ori	
IC434	Horsehead	Neb	05h 41.0'	-02° 27'		8'x6'	Ori	
Theta Orionis E	Trapezium E	Star	05h 35.15'	-05° 23.1'	10.3		Ori	
NGC2022	IV-34	PNeb	05h 42.1'	+09° 05'	11.9	0.47'x0.45'	Ori	