

THE TEXAS STAR PARTY

2003 TELESCOPE OBSERVING CLUB

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TEXAS ASTRONOMICAL SOCIETY OF DALLAS

RULES AND REGULATIONS

Welcome to the Texas Star Party's Telescope 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. This year we have planned a program called "**The Great Celestial A.R.C.**" (Asterisms, **R**adio sources, & **C**lusters). The rules are simple. Just observe the 25 objects listed. Do not be afraid to use a little magnification on the planetaries or the 5350 galaxy group. Also keep in mind that this year we have some early evening objects, so you will need to plan accordingly.

That's it. Any size telescope can be used. All observations must be made at the Texas Star Party to qualify. All objects are within range of small (6") to medium sized (10") telescopes, and are available for observation between 10:00PM and 3:00AM any time during the TSP. Each person completing this list will receive an official Texas Star Party Telescope 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.

To receive your pin, turn in your observations to ***John Wagoner - TSP Observing Chairman*** any time during the Texas Star Party. 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, or I am not available to give you your pin, just mail your observations to me at 1409 Sequoia Dr., Plano, Tx. 75023, and I will see that you get a pin.

Also, for those of you who were not here the last two years or did not participate in those programs, you may do so this year. The first program is called "**Seeing Double**". Just observe seven **groups of objects**, and log those observations in the spaces provided. All observers must log Group 1 (thirteen objects). After that, you can log observations for six more groups depending on your telescope and experience. The first six groups (2-7) are for small telescopes, while the second six groups (8-13) are for larger scopes. However, you can mix and match groups if you so desire. For extra credit, I have also included a challenge group (14) just for TSP skies. Also, you may observe the 26 objects in "An Astronomical Odyssey". When finished with either program, turn in your observations for the lapel pins. Good luck and good observing. Now, let's get out there and **observe!!!**

A big "Thank You" to Richard Brown of the Texas Astronomical Society of Dallas for adding some of his favorite objects to this year's program.

“The Great Celestial A.R.C.”

Object	Type	R.A.	Dec	Con	Size	Mag	Date	Time
NGC 2281	OCI	06 49.3	+41 04	Aur	14	5.4		
IGLOO	Ast	07 27.7	+21 27	Gem	35 min			
NGC 2392	Pln	07 29.2	+20 55	Gem	15 sec	9.2		
NGC 2419	Glb	07 38.1	+38 53	Lyn	4.1	10.3		
NGC 2683	Gal	08 52.7	+33 25	Lyn	8.4x2.4	9.8		
NGC 3242	Pln	10 24.8	-18 38	Hya	16 sec	7.8		
NGC 3621	Gal	11 18.3	-32 49	Hya	9.8x4.6	8.9		
NGC 4244	Gal	12 17.5	+37 49	CVn	17.0x2.2	10.4		
NGC 4449	Gal	12 28.2	+44 06	CVn	5.5x4.1	9.6		
NGC 4485	Gal	12 30.5	+41 42	CVn	2.7x2.3	11.9		
NGC 4490	Gal	12 30.6	+41 38	CVn	6.4x3.3	9.8		
STARGATE	Ast	12 35.9	-12 03	Crv	12 min			
JAWS	Ast	12 38.5	-11 32	Crv	14 min			
NGC 4559	Gal	12 36.0	+27 58	Com	12.0x4.9	10.0		
PLOUGH	Ast	12 36.9	+56 42	UMa	20 min			
NGC 4631	Gal	12 42.1	+32 32	CVn	15.5x3.3	9.2		
NGC 4656	Gal	12 44.0	+32 10	CVn	15.0x3.0	10.5		
NGC 4657	Gal	12 44.0	+32 10	CVn	15.0x3.0	10.5		
NGC 5350	Gal	13 53.4	+40 22	CVn	3.1x2.5	11.3		
NGC 5353	Gal	13 53.5	+40 17	CVn	2.8x1.9	11.0		
NGC 5354	Gal	13 53.5	+40 18	CVn	2.2x2.0	11.4		
NGC 5371	Gal	13 55.7	+40 28	CVn	4.1x3.2	10.6		
NGC 5907	Gal	15 15.9	+56 19	Dra	11.5x1.7	10.3		
MINI-COATHANGER	Ast	16 28.7	+80 17	UMi	18 min			
NGC 6543	Pln	17 58.6	+66 38	Dra	18 sec	8.1		

"SEEING DOUBLE" (2002)

Group 1 - All Telescopes (13 objects)

	Object	Type	R.A.	DEC	Epoch	Con	Size	Mag	SA	Ura	Date	Time
Group 1	NGC 4038	Gx	12 01 54.0	-18 52 00.0	2000	Crv	3.40	10.30	13	328		
	NGC 4039	Gx	12 01 54.0	-18 53 00.0	2000	Crv	3.30	10.60	13	328		
	NGC 4754	Gx	12 52 18.0	+11 19 00.0	2000	Vir	4.40	10.60	14	194		
	NGC 4762	Gx	12 52 54.0	+11 14 00.0	2000	Vir	8.60	10.30	14	194		
	NGC 6440	Gb	17 48 54.0	-20 22 00.0	2000	Sgr	1.70	9.70	22	338		
	NGC 6445	Pl	17 49 18.0	-20 01 00.0	2000	Sgr	0.58	13.00	22	338		
	NGC 6441	Gb	17 50 12.0	-37 03 00.0	2000	Sco	7.80	7.40	22	377		
	B 86	DKNb	18 02 42.0	-27 50 00.0	2000	Sgr	4.00		22	339		
	NGC 6520	OC	18 03 24.0	-27 54 00.0	2000	Sgr	6.00	8.00	22	339		
	NGC 6522	Gb	18 03 36.0	-30 02 00.0	2000	Sgr	5.60	8.60	22	377		
	NGC 6528	Gb	18 04 48.0	-30 03 00.0	2000	Sgr	3.70	9.50	22	377		
	NGC 6939	OC	20 31 30.0	+60 40 00.0	2000	Cep	8.00	7.80	3	56		
	NGC 6946	Gx	20 34 54.0	+60 09 00.0	2000	Cep	11.20	8.80	3	56		

Telescopes Eight Inches and Smaller (six groups)

	Object	Type	R.A.	DEC	Epoch	Con	Size	Mag	SA	Ura	Date	Time
Group 2	NGC 3031	Gx	09 55 36.0	+69 04 00.0	2000	Uma	25.70	6.90	2	23		
	NGC 3034	Gx	09 55 54.0	+69 41 00.0	2000	Uma	10.50	8.40	2	23		
Group 3	NGC 3351	Gx	10 44 00.0	+11 42 00.0	2000	Leo	7.30	9.70	13	190		
	NGC 3368	Gx	10 46 48.0	+11 49 00.0	2000	Leo	7.10	9.20	13	190		
Group 4	NGC 3379	Gx	10 47 48.0	+12 35 00.0	2000	Leo	5.30	9.30	13	190		
	NGC 3384	Gx	10 48 18.0	+12 38 00.0	2000	Leo	5.40	9.90	13	190		
Group 5	NGC 3623	Gx	11 18 54.0	+13 05 00.0	2000	Leo	9.00	9.30	13	191		
	NGC 3627	Gx	11 20 12.0	+13 00 00.0	2000	Leo	9.10	8.90	13	191		
	NGC 3628	Gx	11 20 18.0	+13 35 00.0	2000	Leo	13.10	9.50	13	191		
Group 6	NGC 4374	Gx	12 25 06.0	+12 53 00.0	2000	Vir	5.00	9.30	13	193		
	NGC 4406	Gx	12 26 12.0	+12 57 00.0	2000	Vir	9.80	8.90	13	193		
Group 7	NGC 6514	Nb	18 02 42.0	-22 58 00.0	2000	Sgr	28.00	6.30	22	339		
	NGC 6531	OC	18 04 36.0	-22 30 00.0	2000	Sgr	13.00	5.90	22	339		

Telescopes Eight Inches and Larger (six groups)

	Object	Type	R.A.	DEC	Epoch	Con	Size	Mag	SA	Ura	Date	Time
Group 8	NGC 3226	Gx	10 23 24.0	+19 54 00.0	2000	Leo	2.80	11.40	6	144		
	NGC 3227	Gx	10 23 30.0	+19 52 00.0	2000	Leo	5.60	10.80	6	144		
Group 9	NGC 3367	Gx	10 46 36.0	+13 45 00.0	2000	Leo	2.30	11.50	13	190		
	NGC 3377	Gx	10 47 42.0	+13 59 00.0	2000	Leo	4.30	10.40	13	190		
Group 10	NGC 3607	Gx	11 16 54.0	+18 03 00.0	2000	Leo	3.70	10.00	13	146		
	NGC 3608	Gx	11 17 00.0	+18 09 00.0	2000	Leo	3.00	11.00	13	146		
Group 11	NGC 3681	Gx	11 26 30.0	+16 52 00.0	2000	Leo	3.00	11.20	13	191		
	NGC 3684	Gx	11 27 12.0	+17 02 00.0	2000	Leo	3.40	11.40	13	146		
	NGC 3686	Gx	11 27 42.0	+17 13 00.0	2000	Leo	3.10	11.30	13	146		
	NGC 3691	Gx	11 28 12.0	+16 55 00.0	2000	Leo	1.40	11.80	13	192		
Group 12	NGC 4564	Gx	12 36 24.0	+11 26 00.0	2000	Vir	3.10	11.10	14	194		
	NGC 4567	Gx	12 36 30.0	+11 15 00.0	2000	Vir	3.00	11.30	14	194		
	NGC 4568	Gx	12 36 36.0	+11 14 00.0	2000	Vir	4.60	10.80	14	194		
Group 13	NGC 5898	Gx	15 18 12.0	-24 06 00.0	2000	Lib	2.60	11.40	21	334		
	NGC 5903	Gx	15 18 36.0	-24 04 00.0	2000	Lib	3.20	11.20	21	334		

Challenge Group

	Object	Type	R.A.	DEC	Epoch	Con	Size	Mag	SA	Ura	Date	Time
Group 14	NGC 5927	Gb	15 28 00.0	-50 40 00.0	2000	Lup	12.00	8.30	21	405		
	NGC 5946	Gb	15 35 30.0	-50 40 00.0	2000	Nor	7.10	9.60	21	405		

AN ASTRONOMICAL ODYSSEY (2001)

(all 26 objects)

Object	R.A.	DEC	Mag	Type	Size	Const	Urn	SA	Date	Observed	Time	Observed
[] NGC 4654	12 44.0	+13 08	10.5	Glxy	4.7'	Vir	194	13				
[] NGC 4639	12 42.9	+13 15	11.5	Glxy	2.9'	Vir	194	13				
[] NGC 4569	12 36.8	+13 10	9.5	Glxy	9.5' M90	Vir	194	13				
[] NGC 4552	12 35.7	+12 33	9.8	Glxy	4.2' M89	Vir	194	13				
[] NGC 4579	12 37.7	+11 49	9.8	Glxy	5.4' M58	Vir	194	13				
[] NGC 4621	12 42.0	+11 39	9.8	Glxy	5.1' M59	Vir	194	13				
[] NGC 4647	12 43.5	+11 35	11.3	Glxy	3.0'	Vir	194	13				
[] NGC 4649	12 43.7	+11 33	8.8	Glxy	7.2'	Vir	194	13				
[] NGC 4564	12 36.4	+11 26	10.9	Glxy	3.1'	Vir	194	13				
[] NGC 4567	12 36.5	+11 15	11.3	Glxy	3.0'	Vir	194	13				
[] NGC 4568	12 36.6	+11 14	10.8	Glxy	4.6'	Vir	194	13				
[] NGC 4528	12 34.1	+11 19	12.9	Glxy	1.5'	Vir	194	13				
[] NGC 4503	12 32.1	+11 11	11.1	Glxy	3.5'	Vir	194	13				
[] NGC 6229	16 47.0	+47 32	9.4	GbCl	4.5'	Her	80	8				
[] NGC 6341	17 17.1	+43 08	6.4	GbCl	11.0' M92	Her	81	8				
[] NGC 6205	16 41.7	+36 28	5.7	GbCl	17.0' M13	Her	114	8				
[] NGC 6058	16 04.4	+40 41	13.0	PNeb	25.0"	Her	79	8				
[] NGC 6913	20 23.9	+38 32	6.6	OpCl	6.0' M29	Cyg	84	9				
[] NGC 6871	20 05.9	+35 47	5.2	OpCl	20.0'	Cyg	119	9				
[] NGC 6819	19 41.3	+40 11	7.3	OpCl	5.0'	Cyg	84	8				
[] NGC 6866	20 03.7	+44 00	7.6	OpCl	6.0'	Cyg	84	9				
[] NGC 6287	17 05.2	-22 42	9.3	GbCl	5.1'	Oph	337	22				
[] NGC 6284	17 04.5	-24 46	8.9	GbCl	5.6'	Oph	337	22				
[] NGC 6273	17 02.6	-26 16	6.7	GbCl	14.0' M19	Oph	337	22				
[] NGC 6266	17 01.2	-30 07	6.7	GbCl	14.0' M62	Oph	376	22				
[] B142	19 41.0	+10 31		DkNeb	40'	Aql						