

# TSP Advanced Observing Program – 2011

## Proximity - Friends of Friends

Observe any 20 Objects on the Following List

<u>Bright / Proximity</u>	<u>Class.</u>	<u>2000 Coordinates</u>	<u>Const.</u>	<u>Mag.</u>	<u>Size</u>	<u>Urano 1</u>
<b>M5 – Globular:</b> Dist: 26,620 LYrs						
<input type="checkbox"/> IC 4537	Galaxy	15 17 32.4 + 02 02 50	Ser	15.6	0.8" x 0.3"	244
<b>M7 – Open Cluster:</b> Dist: 980 LYrs						
<input type="checkbox"/> NGC6453	Globular	17 50 51.8 – 34 35 35	Sco	10.2	7.6'	377
<input type="checkbox"/> Sanduleak 2-253	Planitary	17 51 12.2 – 34 55 26		13.7p	9.0"	
<input type="checkbox"/> Minkowski 1-30	Planitary	17 52 58.9 – 34 38 25		14.7p	5.0"	
<input type="checkbox"/> Cannon 2-1	Planitary	17 54 32.9 – 34 22 22		13.9p	2.0"	
<input type="checkbox"/> Henize 2-308	Planitary	17 57 19.1 – 34 09 49		13.0p	10.0"	
<b>M8 – "Lagoon" Nebula:</b> Dist: 4,310 LYrs						
<input type="checkbox"/> B88	Dk. Neb.	18 04 36.0 – 24 07 00	Sgr	--	2.0 x 0.5'	339
<input type="checkbox"/> B89	Dk. Neb.	18 05 00.0 – 24 22 00		--	0.5'	
<b>M13 – Globular Cluster:</b> Dist: 25,890 LYrs						
<input type="checkbox"/> UGC 10477	Galaxy	16 37 34.5 + 37 17 11	Her	15.2p	1.7 x 0.4'	114
<input type="checkbox"/> NGC6196 Group	Galaxy	16 37 53.9 + 36 04 26		13.9b	2.0 x 1.1'	
<input type="checkbox"/> CGCG 197-2	Galaxy	16 40 06.4 + 37 11 29		14.8	0.9 x 0.6'	
<input type="checkbox"/> IC 4617	Galaxy	16 42 08.1 + 36 40 59		15.5	1.2 x 0.4'	
<input type="checkbox"/> NGC6207	Galaxy	16 43 04.0 + 36 49 56		12.2b	3.3' x 1.7'	
<b>M39 – Open Cluster:</b> Dist: 1,010 LYrs						
<input type="checkbox"/> Platais 1	Open Clstr	21 30 02 + 48 58 36	Cyg			
<b>M40 – Double Star:</b> Dist: 1,860 LYrs						
<input type="checkbox"/> NGC 4290	Galaxy	12 20 47.9 + 58 05 35	UMa	12.7p	2.3 x 1.5'	47
<input type="checkbox"/> NGC 4284	Galaxy	12 20 12.6 + 58 05 34		14.3p	2.5 x 1.1'	
<b>M49 – Galaxy:</b> Dist: 53.1 MLyrs						
<input type="checkbox"/> NGC 4465	Galaxy	12 29 23.5 + 08 01 34	Vir	15.6	0.4 x 0.2'	193
<input type="checkbox"/> NGC 4467	Galaxy	12 29 30.2 + 07 59 34		14.8B	0.5 x 0.5'	
<input type="checkbox"/> UGC 7636	Galaxy	12 30 00.8 + 07 55 50		15.8P	0.8 x 0.4'	
<b>M51 – Interacting Galaxy:</b> Dist: 26.8 MLyrs						
<input type="checkbox"/> IC4278	Galaxy	13 30 27.5 + 47 14 48	CVn	--	0.5 x 0.4'	76
<b>M53 – Globular Cluster:</b> Dist: 61,270 LYrs						
<input type="checkbox"/> NGC 5053	Globular	13 16 27.0 + 17 41 53		9.0	10.0'	
<b>M57 – "Ring" Nebula:</b> Dist: 2,300 LYrs						
<input type="checkbox"/> IC 1296	Galaxy	18 53 18.8 +33 03 57	Lyr	14.8p	0.9 x 0.5'	117
<b>M59 – Elliptical Galaxy:</b> Dist: 48.3 MLyrs						
<input type="checkbox"/> MAC1241+1146	Galaxy	12 41 55.1 + 11 46 27	Vir	16.0	1.3 x 0.4	193
<input type="checkbox"/> IC3672, UGC7863	Galaxy	12 42 08.7 + 11 45 15		14.5P	0.9 x 0.9'	
<input type="checkbox"/> VCC 1921	Galaxy	12 42 26.3 + 11 44 25		15.9	1.3 x 0.4'	
<b>M60 – Galaxy:</b> Dist: 53.2 MLyrs						
<input type="checkbox"/> NGC4647	Galaxy	12 43 32.4 + 11 34 56	Vir	11.9(B)	2.9 x 2.3'	194
<b>M61 – Galaxy:</b> Dist: 49.6 MLyrs						
<input type="checkbox"/> HK 155	Knot	12 21 53.6 + 04 27 42	Vir			238
<input type="checkbox"/> NGC4303A	Galaxy	12 22 27.4 + 04 34 01		13.4(B)	1.5 x 1.2'	
<b>M68 – Globular Cluster:</b> Dist: 36,580 LYrs						

<input type="checkbox"/> ESO 506-29	Galaxy	12 39 15.5 – 26 54 37	Hya	14.2P	1.2 x 1.0'	329
<b>M81 – Galaxy:</b>		Dist: 11.8 MLYrs				
<input type="checkbox"/> Holmberg IX	Galaxy	09 57 33.0 + 69 02 35	UMa	14.0V	3.0 x 2.5'	23
<b>M83 – Barred Galaxy:</b>		Dist: 14.7 MLYrs				
<input type="checkbox"/> PRC C-47	Galaxy	13 37 29.5 – 29 50 29	Hya	15.5		370
<input type="checkbox"/> ESO 444-85		13 37 33.2 – 29 51 00		16.0	1.2 x 0.4'	
<b>M85 – Galaxy</b>		Dist: 47.8 MLYrs				
<input type="checkbox"/> IC3292	Galaxy	12 24 48.3 + 18 11 42	Com	15.5	0.8 x 0.4'	148
<b>M87 – Elliptical Galaxy:</b>		Dist: 54.9 MLYrs				
<input type="checkbox"/> UGC7652-1 / 2	Galaxy	12 30 44.9 + 12 21 59	Vir	16.0	0.5 x 0.3'	193
<b>M 90 – Galaxy</b>		Dist: 30.7 MLYrs				
<input type="checkbox"/> IC 3583	Galaxy	12 36 43.8 + 13 15 31	Vir	13.3B	2.2 x 1.1'	194
<b>M91 – Galaxy</b>		Dist: 52.9 MLYrs				
<input type="checkbox"/> CGCG 99-97	Galaxy	12 35 43.8 + 14 24 43	Com	15.6	0.8 X 0.4'	194
<input type="checkbox"/> MAC 1235+1433		12 35 22.9 + 14 33 38		16.5	0.3 x 0.3'	
<b>M96 – Galaxy</b>		Dist: 34.3 MLYrs				
<input type="checkbox"/> MAC 1046+1145	Galaxy	10 46 38.9 + 11 45 54	Leo	14.5	0.5 x 0.5'	190
<input type="checkbox"/> MAC 1047+1150A	Galaxy	10 47 01.3 + 11 50 32		15.0	0.3 x 0.3	
<b>M97 – Planetary Nebula</b>		Dist: 4,140 LYrs				
<input type="checkbox"/> MAC1114+5505	Galaxy	11 14 46.8 + 55 05 32	UMa	16.0	0.4 x 0.1'	46
<input type="checkbox"/> MCG+9-9-14	Galaxy	11 15 58.3 + 54 57 37		16.1	0.8 x 0.3'	
<b>M98 – Galaxy</b>		Dist: 44.2 MLYrs				
<input type="checkbox"/> NGC4186	Galaxy	12 14 06.5 + 14 33 33	Com	14.6(P)	1.0 x 0.8'	193
<b>M99 – Galaxy</b>		Dist: 52.7 MLYrs				
<input type="checkbox"/> HK-1	Neb.	12 18 56.9 + 14 25 22	Com			193
<b>M100 – Galaxy</b>		Dist: 49.6 MLYrs				
<input type="checkbox"/> NGC4322	Galaxy	12 23 01.7 + 15 54 21	Com	14.0V	1.2 x 0.8'	193
<input type="checkbox"/> NGC4328	Galaxy.	12 23 20.0 + 15 49 11		14.0b	1.3 x 0.9'	
<b>M101 – Galaxy</b>		Dist: 21.8 MLYrs				
<input type="checkbox"/> CGCG 272-18	Galaxy	14 01 16.0 + 54 25 07	UMa	14.9	1.0 X 0.5'	49
<input type="checkbox"/> NGC 5455	Neb.	14 03 01.4 + 54 14 25		15.3		
<input type="checkbox"/> HK 371	Neb.	14 02 54.7 + 54 16 29		13.8		
<input type="checkbox"/> HK 70	Neb.	14 03 26.1 + 54 19 51				
<input type="checkbox"/> HK 103	Neb.	14 03 27.6 + 54 18 46				
<input type="checkbox"/> HK 60	Neb.	14 03 32.6 + 54 17 23				
<input type="checkbox"/> HK 59	Neb.	14 03 32.7 + 54 20 10				
<input type="checkbox"/> H 1216	Neb.	14 04 11.2 + 54 25 21				
<b>M104 – Galaxy</b>		Dist: 44.7 MLYrs				
<input type="checkbox"/> MAC 1239-1140	Galaxy	12 39 31.1 – 11 40 58	Vir	16.0	0.4 x 0.3'	284
<b>M106 – Galaxy:</b>		Dist: 25.7 MLYrs				
<input type="checkbox"/> NGC4248	Galaxy	12 17 50.5 + 47 24 36	CVn	12.5V	3.2 x 1.1'	74
<b>M109 – Galaxy</b>		Dist: 67.5 MLYrs				
<input type="checkbox"/> UGC6923	Galaxy	11 56 49.7 + 53 09 36	UMa	13.9b	2.7 x 0.9'	47

HK = Hodge Kennicutt

Good Luck-

*Larry Mitchell*

Data: MegaSTAR

Atlas of the Messier Objects  
by Ronald Stoyan