

Globular Clusters - Magnitude < 14.0

#	Name	Class	Mag.	Size	Const.	Date	Time	Loc.*	Trans.	Stead.	Inst.	E.P.	Mag.	Observations
Astronomical League Challenge List of Globular Clusters														
1	Bol 119		12.3		Andromeda	8/2/05	2330	W.R.O.	8-10	8-10	8_Dobson	11mm	110x	mB,mL,Oval,mSB,R=G
2	Pal 11	XI	9.8	3.2'	Aquila	7/31/05	2246	W.R.O.	8	8	8_Dobson	11mm	110x	Diff, vF,mL,R,LowSB,R=F. 2246 hrs.
3	NGC 5466	XII	9.0	11'	Bootes	5/4/05	2145	W.R.O.	8	8	8_Dobson	11mm	110x	vF,R,R=F
4	NGC 5053	XI	9.9	10.5'	Coma Berenices	5/12/05	2300	W.R.O.	6-8	6-8	8_Dobson	19mm	64x	Faint,Oval,R=F
5	HP 1		12.5	2.9'	Ophiuchus	7/13/07	2233	W.R.O.	9	9	8_Dobson	7.5mm	163	vF,vS,R,Patchy,R=F
6	Pal 6	XI	11.6	7.2'	Ophiuchus	7/13/07	2237	W.R.O.	9	9	8_Dobson	7.5mm	163	vF,vS,R,Patchy,AV,R=F
7	Pal 13				Pegasus	11/2/05	2045	W.R.O.	8-10	8-10	8_Dobson	19mm	64x	pF,pS,Patchy,,R=F
8	ESO 456-38		11.0	3.5'	Sagittarius	7/9/05	2345	W.R.O.	10	10	8_Dobson	11mm	110x	vF,vS,R=F
9	Pal 8	X	11.2	4.7'	Sagittarius	7/9/05	2345	W.R.O.	10	10	8_Dobson	11mm	110x	vF,mL,R,R=F
10	Pal 9	VIII	9.2	3.9'	Sagittarius	6/19/04								
11	Terzan 8		12.4	6.0'	Sagittarius	7/31/05	2250	W.R.O.	8	8	8_Dobson	11mm	110x	vF,vS,R,LowSB,R=F. 2250 hrs.
12	Pal 5		11.8	6.9'	Serpens	6/4/05	2330	W.R.O.	9	8	31_Equat.	16mm	344x	vF,vS,R,AV,R=F
13	Pal 7	XII	10.3	7.1'	Serpens	7/9/05	2350	W.R.O.	10	10	8_Dobson	11mm	110x	vF,mL,R=F
1	HBK 0-1		13.7		Andromeda									
2	Pal 2	IX	13.0	1.9'	Auriga									
3	Pal 12	XII	11.7	2.9'	Capricornus									
4	Omega Centauri	VIII	3.5	36.3'	Centaurus									
5	Ru 106		10.9	3.0'	Centaurus									
6	Pal 1	XII	13.6	1.8'	Cepheus									
7	E 3		11.4	3.0'	Chamaeleon									
8	Fornax 2	VIII	13.5	1.2'	Fornax									
9	Fornax 4	IV	13.6	0.6'	Fornax									
10	Fornax 5	III	13.4	0.8'	Fornax									
11	C J0907-372		12.9	2.5'	Pyxis									
12	Pal 10	XII	13.2	3.5'	Sagitta									
13	AM 2?		12.3	3.7'	Sagittarius									
14	Djorg 2		9.9		Sagittarius									
15	Terzan 5		13.9	2.1'	Sagittarius									
16	Terzan 7		12.0	3.5'	Sagittarius									
17	Djorg 1		13.6		Scorpius									
18	ESO 452-SC011		12.0		Scorpius									
19	Terzan 3		12.0	6.0'	Scorpius									
20	Terzan 6		13.9	1.2'	Scorpius									
21	Ton 2		12.2	3.4'	Scorpius									
22	Pal 3	XII	13.9	2.8'	Sextans									
Astronomical League Regular List of Globular Clusters														
1	NGC 6981	IX	9.3	5.9'	Aquarius	10/6/04	2230	W.R.O.	9-10	9-10	8_Dobson	11mm	110x	pB,L,R=G, Tight Group
2	NGC 7089	II	6.5	12.9'	Aquarius	3/27/06	0452	W.R.O.	8-9	8-9	8_Dobson	19mm	64x	B,S,R=G,Tight Group
3	NGC 7492	XII	11.4	6.2'	Aquarius	9/5/07	2245	W.R.O.	9-10	9-10	8_Dobson	11mm	110x	vF,vS,AV,R=F
4	NGC 6749		12.4	6.3'	Aquila	7/3/05	2330	W.R.O.	7-8	7-8	8_Dobson	11mm	110x	vF,vS,AV,R=F

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#	Name	Class	Mag.	Size	Const.	Date	Time	Loc.*	Trans.	Stead.	Inst.	E.P.	Mag.	Observations
5	NGC 6760	IX	9.1	6.6'	Aquila	6/26/04								
6	NGC 5272	VI	6.3	16.2'	Canes Venatici	4/4/05	2130	W.R.O.	7-8	7-8	8_Dobson	11mm	110x	vL,vB,R,R=G
7	NGC 7099	V	7.3	11.0'	Capricornus	6/19/04	2330	W.R.O.	7-8	7-8	8_Dobson	12.5mm	97x	pB,fL,R,R=G
8	NGC 4147	VI	9.9	4.0'	Coma Berenices	4/13/05	2200	W.R.O.	6-8	5-6	8_Dobson	7.5mm	162x	R,mSB,R=G
9	NGC 5024	V	7.8	12.6'	Coma Berenices	3/26/06	2152	W.R.O.	8-9	8-9	8_Dobson	19mm	64x	pB,L,hSB,R=G,Dense
10	NGC 6934	VIII	8.7	5.9'	Delphinus	6/26/04	2340	W.R.O.	6-8	5-6	8_Dobson	12.5mm	97x	F,S,R=F
11	NGC 7006	I	10.4	2.8'	Delphinus	6/26/04	2345	W.R.O.	6-8	5-6	8_Dobson	12.5mm	97x	pF,S,R=F
12	NGC 6205	V	5.8	16.6'	Hercules	4/8/05	2300	W.R.O.	9-10	9	8_Dobson	11mm	110x	vB,vL,Round,R=E!!
13	NGC 6229	IV	9.4	4.5'	Hercules	6/19/04	2330	W.R.O.	8-10	8-10	8_Dobson	25mm	48x	pB,L,Round,R=G
14	NGC 6341	IV	6.3	11.2'	Hercules	8/14/04	2150	W.R.O.	8	6-8	8_Dobson	11mm	110x	pB,fL,R,R=G
15	NGC 4590	X	7.7	12.0'	Hydra	3/27/06	0050	W.R.O.	8-9	8-9	8_Dobson	19mm	64x	F,L,R,R=F
16	NGC 5694	VII	9.2	3.6'	Hydra	4/13/05	2215	W.R.O.	8	6-8	8_Dobson	7.5mm	162x	vS,vF,R,R=F
17	NGC 1904	V	7.7	8.7'	Lepus	3/19/04	2021	W.R.O.	8-9	8-9	8_Dobson	19mm	64x	B,pS,Tight,R=F
18	NGC 5897	XI	8.6	12.6'	Libra	7/15/06	2240	W.R.O.	9	7-8	8_Dobson	19mm	64x	vF,pS,R=F,dim unresolved stars
19	NGC 2419	II	10.4	4.1'	Lynx	12/4/04	2005	W.R.O.	8-9	6-8	8_Dobson	7.5mm	162x	F,S,R=F
20	NGC 6779	X	8.5	7.1'	Lyra	3/27/06	0142	W.R.O.	8-9	8-9	8_Dobson	19mm	64x	F,pS,R,R=R,Loosely Packed
21	IC 1257	V	13.1	1.0'	Ophiuchus	7/3/05	2330	W.R.O.	7>8	7>8	8_Dobson	11mm	110x	vF,vS,AV,R=F
22	NGC 6171	X	8.2	10.0'	Ophiuchus	3/27/06	0206	W.R.O.	8-9	8-9	8_Dobson	19mm	64x	F,L,R=F,Dense
23	NGC 6218	IX	7.2	14.5'	Ophiuchus	3/27/06	0224	W.R.O.	8-9	8-9	8_Dobson	19mm	64x	B,L,R=G,Loosely Packed
24	NGC 6235	X	10.0	5.0'	Ophiuchus	7/15/06	2249	W.R.O.	9	7-8	8_Dobson	19mm	64x	cF,pS,R=F,little brighter,dim stars
25	NGC 6254	VII	6.9	15.1'	Ophiuchus	3/27/06	0204	W.R.O.	8-9	8-9	8_Dobson	19mm	64x	B,L,R=G,Loosely Packed
26	NGC 6266	IV	6.7	14.1'	Ophiuchus	3/27/06	0315	W.R.O.	8-9	8-9	8_Dobson	19mm	64x	B,S,R=G,Tight Group
27	NGC 6273	VIII	6.8	13.5'	Ophiuchus	3/27/06	0308	W.R.O.	8-9	8-9	8_Dobson	19mm	64x	B,S,R=G,Tight Group
28	NGC 6284	IX	8.9	5.6'	Ophiuchus	7/15/06	2252	W.R.O.	9	7-8	8_Dobson	19mm	64x	pF,pS,R=F
29	NGC 6287	VII	9.3	5.1'	Ophiuchus	7/15/06	2254	W.R.O.	9	7-8	8_Dobson	19mm	64x	cF,pS,R=F,dim smudge, no stars
30	NGC 6293	IV	8.2	7.9'	Ophiuchus	7/15/06	2256	W.R.O.	9	7-8	8_Dobson	19mm	64x	pF,pS,R=F,faint stars
31	NGC 6304	VI	8.4	6.8'	Ophiuchus	7/15/06	2259	W.R.O.	9	7-8	8_Dobson	19mm	64x	cF,pS,R=F,tight smudge,no stars
32	NGC 6316	III	8.8	4.9'	Ophiuchus	7/15/06	2300	W.R.O.	9	7-8	8_Dobson	19mm	64x	F,pS,R=F,loose smudge,unresolved
33	NGC 6325	IV	10.6	4.3'	Ophiuchus	7/31/05	2230	W.R.O.	8-10	9	8_Dobson	7.5mm	162x	vF,vS,R,LowSB,AV,R=F
34	NGC 6333	VIII	8.1	9.3'	Ophiuchus	3/27/06	0244	W.R.O.	8-9	8-9	8_Dobson	19mm	64x	F,vL,R,R=F
35	NGC 6342	IV	9.8	3.0'	Ophiuchus	7/15/06	2302	W.R.O.	9	7-8	8_Dobson	19mm	64x	vF,pS,R=F,dim unresolved stars
36	NGC 6355		9.7	5.0'	Ophiuchus	7/15/06	2305	W.R.O.	9	7-8	8_Dobson	19mm	64x	eF,S,AV,R=F
37	NGC 6356	II	8.4	7.2'	Ophiuchus	7/15/06	2308	W.R.O.	9	7-8	8_Dobson	19mm	64x	pB,pS,R=G,dim stars
38	NGC 6366	XI	8.9	8.3'	Ophiuchus	7/15/06	2315	W.R.O.	9	7-8	8_Dobson	19mm	64x	eF,pS,AV,R=F
39	NGC 6401	VIII	9.5	5.6'	Ophiuchus	7/15/06	2316	W.R.O.	9	7-8	8_Dobson	19mm	64x	eF,cS,R=F,very dim smudge
40	NGC 6402	VII	7.9	11.7'	Ophiuchus	3/27/06	0242	W.R.O.	8-9	8-9	8_Dobson	19mm	64x	F,L,R=F,Tight Smudge
41	NGC 6426	IX	11.1	3.2'	Ophiuchus	7/9/05	2325	W.R.O.	9-10	10	8_Dobson	11mm	110x	vF,vS,R=F
42	NGC 6517	IV	10.3	4.3'	Ophiuchus	7/9/06	2345	W.R.O.	9-10	10	8_Dobson	11mm	110x	mF,mL,R=F
43	NGC 7078	IV	6.7	12.3'	Pegasus	3/27/06	0448	W.R.O.	8-9	8-9	8_Dobson	19mm	64x	G,S,R=G,Tight Group
44	NGC 6838		8.1	7.2'	Sagitta	3/27/06	0328	W.R.O.	8-9	8-9	8_Dobson	19mm	64x	Diff,F,L,R=F,Loosely Packed
45	ESO 456-38	?	9.9	1.5'	Sagittarius	7/13/07	2252	W.R.O.	9	9	8_Dobson	7.5mm	163x	pB,pS,Resolve Outer Stars,R=G

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46	NGC 6440	V	9.1	5.4'	Sagittarius	7/15/06	2338	W.R.O.	9	7-8	8_Dobson	19mm	64x	cF,cS,R=F
47	NGC 6522	VI	8.4	5.6'	Sagittarius	7/15/06	2341	W.R.O.	9	7-8	8_Dobson	19mm	64x	pB,S,R=F
48	NGC 6528	V	9.5	3.7'	Sagittarius	7/15/06	2345	W.R.O.	9	7-8	8_Dobson	19mm	64x	cF,cS,R=G
49	NGC 6540		9.3	1.5'	Sagittarius	7/13/07	2245	W.R.O.	9	9	8_Dobson	7.5mm	163x	vF,vS,Patchy,R=F
50	NGC 6544	IX	8.1	8.9'	Sagittarius	7/15/06	2349	W.R.O.	9	7-8	8_Dobson	19mm	64x	pF,cS,R=F,mudge no stars
51	NGC 6553	XI	8.1	8.1'	Sagittarius	7/15/06	2351	W.R.O.	9	7-8	8_Dobson	19mm	64x	pF,pS,R=F,Tight Group
52	NGC 6558		9.8	3.7'	Sagittarius	7/8/04								
53	NGC 6569	VIII	8.7	5.8'	Sagittarius	7/15/06	2358	W.R.O.	9	7-8	8_Dobson	19mm	64x	F,cS,R=F
54	NGC 6624	VI	8.0	5.9'	Sagittarius	7/16/06	0001	W.R.O.	9	7-8	8_Dobson	19mm	64x	pF,pS,R=F
55	NGC 6626	IV	7.4	11.2'	Sagittarius	6/14/04	0402	W.R.O.	8-9	8-9	8_Dobson	19mm	64x	F,fS,R,R=G,Tight Group
56	NGC 6637	V	7.6	7.1'	Sagittarius	3/27/06	0409	W.R.O.	8-9	8-9	8_Dobson	19mm	64x	F,S,R=F,Tight Group
57	NGC 6638	VI	9.1	5.0'	Sagittarius	7/16/06	0004	W.R.O.	9	7-8	8_Dobson	19mm	64x	cF,pS,R=F
58	NGC 6642	IV	9.4	4.5'	Sagittarius	7/16/06	0005	W.R.O.	9	7-8	8_Dobson	19mm	64x	F,cS,R=F
59	NGC 6652	VI	8.8	3.5'	Sagittarius	7/16/06	0007	W.R.O.	9	7-8	8_Dobson	19mm	64x	cF,cS,R=F
60	NGC 6656	VII	5.9	24.0'	Sagittarius	3/27/06	0404	W.R.O.	8-9	8-9	8_Dobson	19mm	64x	F,pL,R=G,Resolve Outer Stars
61	NGC 6681	V	8.0	7.8'	Sagittarius	3/27/06	0411	W.R.O.	8-9	8-9	8_Dobson	19mm	64x	pF,pS,R=F,Tight Group
62	NGC 6715	III	7.6	9.1'	Sagittarius	3/27/06	0412	W.R.O.	8-9	8-9	8_Dobson	19mm	64x	pF,pS,R=F,Tight Group
63	NGC 6723	VII	7.2	11.0'	Sagittarius	7/16/06	0009	W.R.O.	9	7-8	8_Dobson	19mm	64x	cF,pS,R=F
64	NGC 6809	XI	6.4	19'	Sagittarius	3/27/06	0500	W.R.O.	8-9	8-9	8_Dobson	19mm	64x	vF,L,R=F
65	NGC 6864	I	8.5	6.0'	Sagittarius	7/16/06	0010	W.R.O.	9	7-8	8_Dobson	19mm	64x	pF,pS,R=F
66	NGC 6093	II	7.3	8.9'	Scorpius	3/27/06	0303	W.R.O.	8-9	8-9	8_Dobson	19mm	64x	vB,S,R=G,Tight Group
67	NGC 6121	IX	5.8	26.3'	Scorpius	3/27/06	0300	W.R.O.	8-9	8-9	8_Dobson	19mm	64x	B,L,R=G,Loosely Packed
68	NGC 6139	II	8.9	5.5'	Scorpius	7/3/05	2330	W.R.O.	8-10	6-8	8_Dobson	11mm	110x	vF,vS,R,R=F
69	NGC 6144	XI	9.0	9.3'	Scorpius	7/3/05	2335	W.R.O.	8-10	6-8	8_Dobson	11mm	110x	vF,vS,R,AV,R=F
70	NGC 6441	III	7.2	7.8'	Scorpius	7/15/06	2334	W.R.O.	9	7-8	8_Dobson	19mm	64x	pB,cS,R=G,tight group,unresolvable
71	NGC 6453	IV	9.8	3.5'	Scorpius	7/3/05	2355	W.R.O.	8-10	6-7	8_Dobson	11mm	110x	vF,vS,R,R=F
72	NGC 288	X	8.1	13.8'	Sculptor	10/9/07	2245	W.R.O.	9-10	9-10	8_Dobson	11mm	110x	pB,pL,smudge, resolved no stars,R=G
73	NGC 6712	IX	8.8	7.2'	Scutum	7/15/06	2335	W.R.O.	9	7-8	8_Dobson	19mm	64x	pB,pS,R=G,dim stars
74	NGC 5904	V	5.7	17.4'	Serpens	3/27/06	0129	W.R.O.	8-9	8-9	8_Dobson	19mm	64x	B,L,R=G,Dense,Resolve Outer Stars
75	NGC 6535	XI	10.5	3.6'	Serpens	7/9/05	2330	W.R.O.	9-10	10	8_Dobson	11mm	110x	mF,mL,R=G
76	NGC 6539	X	9.8	6.9'	Serpens	7/9/05	2335	W.R.O.	9-10	10	8_Dobson	11mm	110x	vF,mL,R=F
77	NGC 5634	V	9.4	4.9'	Virgo	4/28/06	2345	W.R.O.	8-9	8-9	31_Equat.	19mm	290x	pB,cL,R,R=G, Can't Resolve Starts.
1	IC 4499	XI	9.4	7.6'	Apus									
2	NGC 6101	X	9.2	10.7'	Apus									
3	NGC 6352	XI	8.1	7.1'	Ara									
4	NGC 6362	X	7.5	10.7'	Ara									
5	NGC 6397	IX	5.8	25.7'	Ara									
6	NGC 2808	I	6.1	13.8'	Carina									
7	NGC 5286	V	7.2	9.1'	Centaurus									
8	NGC 1851	II	7.1	11'	Columba									
9	NGC 6541	III	6.1	13.1'	Corona Australis									

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10	NGC 1644		13.0	1.8'X1.5'	Dorado									
11	NGC 1049		12.9	0.8'	Fornax									
12	NGC 1261	II	8.3	6.9'	Horologium									
13	NGC 643A		13.0		Hydrus									
14	NGC 5824	I	7.8	6.2'	Lupus									
15	NGC 5927	VIII	8.0	12'	Lupus									
16	NGC 5986	VII	7.5	9.8'	Lupus									
17	NGC 4372	XII	7.3	18.6'	Musca									
18	NGC 4833	VIII	7.0	13.5'	Musca									
19	NGC 5946	IX	9.5	7.1'	Norma									
20	NGC 6752	VI	5.5	20.4'	Pavo									
21	NGC 2298	VI	9.3	6.8'	Puppis									
22	NGC 6256		11.3	2.6'	Scorpius									
23	NGC 6380		11.1	3.9'	Scorpius									
24	NGC 6388	III	6.7	8.7'	Scorpius									
25	NGC 6496	XII	8.5	6.9'	Scorpius									
26	NGC 6584	VIII	8.6	7.9'	Telescopium									
27	NGC 104	III	3.9	30.9'	Tucana									
28	NGC 121		11.2	1.8'X1.5'	Tucana									
29	NGC 362	III	6.5	12.9'	Tucana									
30	NGC 3201	X	6.7	18.2'	Vela									

W.R.O. = Warren Rupp Observatory