

## Bootes - The Herdsman

Observed: No

Object	Her	Type	Mag	Alias/Notes
IC 909		Glxy Compact	15	MCG 4-32-23 CGCG 131-22 KUG 1338+247 PGC 48408
IC 4317		Glxy		
IC 933		Glxy S0	14.3	UGC 8697 MCG 4-32-36 CGCG 131-35 PGC 48760
NGC 5293	H6-5	Glxy SA(r)c	13.7	UGC 8710 MCG 3-35-24 CGCG 102-57 PGC 48854
IC 941		Glxy S	15.2	MCG 4-33-7 CGCG 132-16 PGC 48998
IC 4331		Glxy		
IC 4332		Glxy S	15.1	MCG 4-33-8 CGCG 132-18 PGC 49081
IC 944		Glxy Sa	14.3	UGC 8766 MCG 2-35-19 CGCG 73-85 IRAS 13490+1420 KUG 1349+143 PGC 49204
NGC 5332		Glxy S0-:	13.9	UGC 8773 MCG 3-35-30 CGCG 102-70 PGC 49243
IC 946		Glxy Sa	14.4	UGC 8772 MCG 2-35-21 CGCG 73-89 PGC 49244
IC 949		Glxy S-Irr	15.1	UGC 8777 MCG 4-33-15 CGCG 132-26 IRAS 13499+2246 PGC 49265
IC 4337		Glxy	15.2	CGCG 102-71 PGC 49253
IC 948		Glxy E	14.1	UGC 8779 MCG 2-35-23 CGCG 73-92 PGC 49281
IC 950		Glxy S	15.1	UGC 8780 MCG 3-35-32 CGCG 102-73 PGC 49280
IC 4342		Glxy S	15.4	MCG 4-33-21 CGCG 132-39 PGC 49425
IC 956		Glxy	15.7	CGCG 132-42 PGC 49444
IC 961		Glxy S	15.4	MCG 4-33-31 MK 664 CGCG 132-52 PGC 49522
IC 4348		Glxy S	15.8	MCG 4-33-30 CGCG 132-50 PGC 49531
IC 960		Glxy Double System	14.6	UGC 8849 MCG 3-36-3 CGCG 103-13 VV 335 PGC 49535
IC 959		Glxy Sa	13.8	UGC 8848 MCG 2-36-1 CGCG 74-7 PGC 49540
IC 962		Glxy S?	14.2	UGC 8868 MCG 2-36-3 CGCG 74-15 PGC 49626
IC 963		Glxy S	15.2	MCG 3-36-9 CGCG 103-23 KUG 1355+176 PGC 49647
IC 964		Glxy	15.5	MCG 3-36-10 CGCG 103-24 ARAK433 PGC 49661
IC 965		Glxy S	15.1	MCG 3-36-11 CGCG 103-26 PGC 49667
IC 967		Glxy Spiral	14.8	MCG 3-36-15 CGCG 103-31 IRAS 13559+1442 KUG 1355+147 PGC 49721
NGC 5405		Glxy S?	14.4	UGC 8928 MCG 1-36-14 CGCG 46-36 IRAS 13586+756 PGC 49906
NGC 5409		Glxy (R')SAB(s)b	14.1	UGC 8938 MCG 2-36-9 CGCG 74-44 PGC 49952
NGC 5411		Glxy S0-:	14.4	UGC 8940 MCG 2-36-11 CGCG 74-47 PGC 49967
NGC 5414		Glxy S?	13.8	UGC 8942 MCG 2-36-13 MK 800 CGCG 74-50 IRAS 13595+1010 PGC 49976
NGC 5416	H56-3	Glxy Scd:	13.3	UGC 8944 MCG 2-36-14 CGCG 74-52 IRAS 13597+940 PGC 49991
NGC 5417	H11-3	Glxy Sa	13.9	UGC 8943 MCG 1-36-15 CGCG 46-39 PGC 49995
NGC 5418		Glxy SB?	14.4	UGC 8946 MCG 1-36-16 CGCG 46-40 IRAS 13597+755 PGC 49997
IC 970		Glxy S0/a	15.1	UGC 8949 MCG 3-36-28 CGCG 103-49 KUG 1400+147 PGC 50010
NGC 5434A		Non-Existent		
NGC 5434B		Glxy Sc	14	
IC 4365		Non-Existent		
NGC 5454		Glxy S0	13.7	UGC 8997 MCG 3-36-42 CGCG 103-64 PGC 50192
NGC 5456		Glxy S0	13.9	UGC 9004 MCG 2-36-36 CGCG 74-89 PGC 50213
NGC 5459		Glxy S0	14.1	UGC 9005 MCG 2-36-37 CGCG 74-90 PGC 50215
NGC 5446	H57-3	Non-Existent		NGC 5438 PGC 50239 CGCG 74-93
IC 4373		Glxy	15.3	CGCG 132-75 PGC 50274
NGC 5463A		Non-Existent		
NGC 5463	H58-3	Glxy S?	13.8	UGC 9017 MCG 2-36-40 CGCG 74-102 PGC 50299
NGC 5463B		Glxy E3	15	
NGC 5469		Glxy	15.5	PGC 50309

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Object	Her	Type	Mag	Alias/Notes
IC 975		Glxy E	15.6	MCG 3-36-48 CGCG 103-72 PGC 50362
NGC 5482	H59-3	Glxy S0	13.9	UGC 9038 MCG 2-36-43 CGCG 74-115 PGC 50459
IC 979		Glxy SBab	14.5	UGC 9053 MCG 3-36-61 CGCG 103-90 PGC 50530
NGC 5487		Glxy SBbc	14.7	MCG 1-36-21 CGCG 46-61 IRAS 14072+818 PGC 50537
NGC 5490A		Non-Existent		
IC 4380		Glxy Spiral	15.1	MCG 6-31-75 CGCG 191-59 KUG 1407+377 PGC 50565
NGC 5490B		Glxy Sc	14.9	
IC 984		Glxy Sb	14.4	UGC 9062 MCG 3-36-70 CGCG 103-99 IRAS 14077+1835 PGC 50580
NGC 5500	H674-3	Glxy E	14.3	UGC 9070 MCG 8-26-8 MK 806 CGCG 247-7 PGC 50588
NGC 5497		Glxy SB(s)b	14.9	UGC 9069 MCG 7-29-48 CGCG 219-54 KUG 1408+391B PGC 50610
NGC 5492	H876-2	Glxy Sb pec?	13.6	UGC 9065 MCG 3-36-74 CGCG 103-106 IRAS 14082+1950 PGC 50613
NGC 5499		Glxy S?	14.5	UGC 9074 MCG 6-31-76 CGCG 191-60 IRAS 14086+3609 PGC 50623
NGC 5504B		Non-Existent		
NGC 5504A		Non-Existent		
NGC 5504C		Glxy Sd	14.7	
NGC 5508		Glxy S0	14.1	UGC 9094 MCG 4-34-2 CGCG 133-9 PGC 50741
NGC 5505		Glxy SBa	14.1	UGC 9092 MCG 2-36-48 CGCG 74-138 IRAS 14101+1332 KUG 1410+135 PGC 50745
NGC 5515	H685-3	Glxy Sab	13.8	UGC 9096 MCG 7-29-52 CGCG 219-57 IRAS 14105+3932 KUG 1410+395 PGC 50750
NGC 5509		Glxy E/S0	15.2	PGC 50725
NGC 5512		Glxy E	15.2	CGCG 163-6 PGC 50749
NGC 5517		Glxy S0/a	14.8	UGC 9100 MCG 6-31-79 CGCG 191-63 PGC 50758
NGC 5511B		Non-Existent		
NGC 5511A		Glxy C M	14	
NGC 5511		Glxy Sm	15	MCG 2-36-51 CGCG 74-142 VV 299 8ZW382 PGC 50778
NGC 5513	H877-2	Glxy S0	13.6	UGC 9099 MCG 4-34-5 CGCG 133-11 PGC 50776
NGC 5514		Glxy S?	13.7	UGC 9102 MCG 1-36-23 CGCG 46-66 VV 70 IRAS 14111+753 PGC 50809
NGC 5514A		Glxy C	14.5	
NGC 5518		Glxy E/S0	15	MCG 4-34-6 CGCG 133-13 PGC 50817
NGC 5519		Glxy Sa	14	NGC 5570 PGC 50865 UGC 9111 MCG 1-36-25 CGCG 46-70
NGC 5522	H644-3	Glxy Sb	14.3	UGC 9116 MCG 3-36-89 CGCG 103-125 IRAS 14124+1522 PGC 50889
NGC 5525		Glxy S0	13.8	UGC 9124 MCG 3-36-96 CGCG 103-132 PGC 50946
IC 990		Glxy L	15.2	MCG 7-29-56 CGCG 219-63 PGC 50958
NGC 5528		Glxy Sb	14.9	MCG 2-36-60 CGCG 74-153 PGC 50981
NGC 5536	H731-3	Glxy SBa	14.4	UGC 9136 MCG 7-29-57 CGCG 219-64 IRAS 14143+3944 PGC 50986
IC 4394		Non-Existent		
NGC 5541	H732-3	Glxy S?	13.8	UGC 9139 MCG 7-29-59 CGCG 219-65 ARAK444 IRAS 14144+3949 PGC 50991
NGC 5531		Glxy S0	14.7	MCG 2-36-61 CGCG 74-155 PGC 50999
NGC 5532	H47-3	Glxy S0	12.9	UGC 9137 MCG 2-36-62 CGCG 74-156 PGC 51006
NGC 5532A		Non-Existent		
NGC 5532B		Glxy S0	14.8	
IC 4395		Glxy S?	14.7	UGC 9141 MCG 5-34-7 MK 673 CGCG 163-15 IRAS 14151+2705 KUG 1415+270 PGC 51033
IC 4396		Glxy S	15.6	MCG 5-34-8 CGCG 163-16 PGC 51050
NGC 5535		Glxy C	15	
NGC 5539		Glxy S	15.4	NGC 5535 MCG 1-36-33 CGCG 46-84 PGC 51054

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Object	Her	Type	Mag	Alias/Notes
NGC 5538		Glxy	15.4	CGCG 46-83 PGC 51056
NGC 5542		Glxy Sb	15.2	MCG 1-36-34 CGCG 46-85 ARAK445 PGC 51066
IC 4397		Glxy S?	14.1	UGC 9150 MCG 5-34-12 CGCG 163-18 IRAS 14156+2638 KUG 1415+266 PGC 51073
IC 4398		Glxy S?	15.3	MCG 5-34-13 CGCG 163-20 PGC 51082
NGC 5543		Glxy	15.5	CGCG 46-88 PGC 51079
NGC 5546	H551-3	Glxy E	13.3	UGC 9148 MCG 1-36-35 CGCG 46-89 PGC 51084
IC 4403		Glxy S?	14.8	UGC 9158 MCG 5-34-16 CGCG 163-23 IRAS 14160+3153 KARA622 PGC 51091
IC 993		Glxy S	15.7	MCG 2-36-63 CGCG 74-160 CGCG 75-1 ARAK446 PGC 51093
IC 994		Glxy Sa	14.3	UGC 9153 MCG 2-36-64 CGCG 74-161 CGCG 75-2 PGC 51095
IC 4399		Glxy Sb	14.9	UGC 9157 MCG 5-34-14 CGCG 163-22 PGC 51100
NGC 5550		Glxy S?	14.1	UGC 9154 MCG 2-36-65 CGCG 75-3 CGCG 74-162 PGC 51108
NGC 5553		Glxy Sa:	15	UGC 9160 MCG 5-34-17 CGCG 163-24 PGC 51105
NGC 5559	H347-3	Glxy SBb	14.8	UGC 9166 MCG 4-34-17 CGCG 133-32 IRAS 14169+2501 PGC 51155
IC 4405		Glxy S?	14.7	MCG 5-34-19 CGCG 163-28 PGC 51167
NGC 5567		Glxy S0/a	14.8	MCG 6-31-96 CGCG 191-75 PGC 51161
NGC 5568		Glxy Sc	15.7	MCG 6-31-98 CGCG 191-77 PGC 51168
NGC 5570	H12-3	Non-Existent		NGC 5519 PGC 51185 CGCG 47-7
IC 999		Glxy S0?	14.9	UGC 9168 MCG 3-37-1 CGCG 104-3 PGC 51189
NGC 5571		Non-Existent		
NGC 5572		Glxy Sb	15	UGC 9173 MCG 6-31-99 CGCG 191-79 CGCG 192-2 KUG 1417+363 PGC 51196
IC 1000		Glxy S0	14.7	UGC 9170 MCG 3-37-3 CGCG 104-4 PGC 51201
NGC 5562		Glxy S?	14.5	UGC 9174 MCG 2-37-2 CGCG 75-11 PGC 51227
NGC 5580		Glxy SABcd	14.3	NGC 5579 PGC 51236 UGC 9180 MCG 6-32-2 CGCG 191-80 CGCG 192-3 VV 142 ARP 69
IC 1004		Glxy L	16	MCG 3-37-7 PGC 51273
IC 4408		Glxy S	15	UGC 9191 MCG 5-34-24 CGCG 163-31 IRAS 14190+3013 PGC 51283
NGC 5581		Glxy E/S0	15.1	MCG 4-34-21 CGCG 133-38 PGC 51282
NGC 5665A		Glxy Sbc:	14.8	
NGC 5588		Non-Existent		
IC 4409		Glxy S?	15.3	MCG 5-34-26 CGCG 163-33 IRAS 14193+3148 PGC 51306
NGC 5583		Glxy S?	14.4	UGC 9196 MCG 2-37-4 CGCG 75-18 PGC 51313
NGC 5586		Non-Existent		
NGC 5587	H110-3	Glxy S0/a	13.5	UGC 9202 MCG 2-37-5 CGCG 75-20 PGC 51332
IC 4410		Glxy S	15.7	MCG 3-37-9 CGCG 104-9 PGC 51338
NGC 5598	H733-3	Glxy S0	14	UGC 9209 MCG 7-30-4 CGCG 220-7 PGC 51354
NGC 5596	H418-3	Glxy S0	14.4	UGC 9208 MCG 6-32-10 MK 470 CGCG 192-7 KUG 1420+373 PGC 51355
NGC 5591		Glxy S?	14.1	UGC 9207 MCG 2-37-6 MK 809 CGCG 75-23 IRAS 14201+1356 PGC 51360
NGC 5601		Glxy Sb	15.6	MCG 7-30-6 CGCG 220-9 PGC 51370
NGC 5603B		Glxy Sc	14.4	
IC 4413		Glxy C	14.6	
IC 1006		Glxy S	15.2	MCG 4-34-23 CGCG 133-45 KUG 1420+240 PGC 51378
NGC 5603A		Non-Existent		
NGC 5603	H734-3	Glxy S0	14	UGC 9217 MCG 7-30-8 CGCG 220-11 1ZW86 IRAS 14210+4036 PGC 51382
IC 4412		Non-Existent		MCG 4-34-24 CGCG 133-46 PGC 51391
NGC 5594	H135-3	Glxy S	15	IC 4412 PGC 51391 MCG 4-34-24 CGCG 133-46

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Object	Her	Type	Mag	Alias/Notes
NGC 5608	H673-2	Glxy Im:	13.9	UGC 9219 MCG 7-30-9 CGCG 220-12 KARA627 PGC 51396
IC 1008B		Non-Existent		
IC 4414B		Non-Existent		
IC 4414A		Non-Existent		
NGC 5611		Glxy S0	13.6	UGC 9227 MCG 6-32-20 CGCG 192-13 PGC 51431
IC 4416		Glxy C	15.7	MCG 5-34-31 CGCG 163-39 PGC 51452
NGC 5616	H419-3	Glxy Sbc	14.6	UGC 9231 MCG 6-32-26 CGCG 192-15 IRAS 14222+3641 PGC 51448
NGC 5610	H136-3	Glxy SB(s)ab	14.1	UGC 9230 MCG 4-34-25 CGCG 133-49 IRAS 14221+2450 PGC 51450
IC 4415		Glxy		
IC 4417		Glxy E/S0	15.5	MCG 3-37-14 CGCG 104-17 PGC 51480
IC 4418		Glxy C	15	CGCG 133-52 PGC 51510
IC 1008		Glxy SB	16.5	MCG 5-34-38 MK 680 PGC 51518
IC 4420		Glxy SB	15.4	MCG 4-34-27 CGCG 133-53 KUG 1423+256 PGC 51520
IC 4419		Glxy		
IC 4422		Glxy E?	14.9	MCG 5-34-39 CGCG 163-48 PGC 51530
NGC 5622	H677-3	Glxy Sb	14	UGC 9248 MCG 8-26-32 CGCG 247-28 IRAS 14244+4847 KARA630 PGC 51541
IC 4423		Glxy S	15	UGC 9247 MCG 4-34-28 CGCG 133-55 PGC 51549
IC 1009		Glxy S	15.5	MCG 2-37-7 CGCG 75-31 PGC 51550
IC 4425		Glxy S?	15.2	CGCG 163-49 KUG 1424+274 PGC 51575
IC 4427		Glxy S?	15.5	MCG 5-34-41 CGCG 163-50 IRAS 14247+2705 PGC 51591
NGC 5623	H329-2	Glxy E	13.5	UGC 9260 MCG 6-32-35 CGCG 192-21 PGC 51598
IC 1012		Glxy Sc	13.9	IC 4431 IC 1012 UGC 9257 MCG 5-34-43 CGCG 163-52 PGC 51600
IC 4431		Non-Existent		IC 4431 IC 1012 UGC 9257 MCG 5-34-43 CGCG 163-52 PGC 51600
IC 4426		Glxy S0?	15.5	MCG 3-37-16 CGCG 104-28 PGC 51607
IC 4428		Glxy		
IC 4437		Non-Existent		(STAR)
IC 4435		Glxy E/S0	15.3	MCG 6-32-37 CGCG 192-22 PGC 51615
NGC 5630	H674-2	Glxy Sdm:	13.6	UGC 9270 MCG 7-30-14 CGCG 220-18 IRAS 14256+4128 PGC 51635
IC 4429		Glxy S?	15.2	MCG 3-37-17 CGCG 104-29 PGC 51637
IC 1013		Non-Existent		
NGC 5621	H14-3	Non-Existent		
IC 4434		Glxy		
IC 4433		Glxy	15.3	CGCG 104-30 PGC 51651
IC 4436		Glxy E?	14.6	MCG 5-34-45 CGCG 163-54 PGC 51654
IC 1017		Glxy S0?	14.7	UGC 9276 MCG 4-34-32 CGCG 133-62 PGC 51668
IC 1018		Glxy C	15.7	CGCG 133-63 PGC 51675
IC 1019		Glxy S	15.4	MCG 4-34-33 CGCG 133-64 PGC 51667
NGC 5629		Glxy S0	13	UGC 9281 MCG 4-34-34 CGCG 133-65 PGC 51681
IC 1014		Glxy Sdm	13	UGC 9275 MCG 2-37-12 CGCG 75-45 IRAS 14259+1400 PGC 51685
IC 1015		Glxy C	15.2	MCG 3-37-18 CGCG 104-31 1ZW90 VV 717 IRAS 14259+1538 8ZW422 PGC 51686
NGC 5628		Glxy E	14.3	UGC 9278 MCG 3-37-19 CGCG 104-33 PGC 51699
NGC 5635	H132-3	Glxy S pec	13.5	UGC 9283 MCG 5-34-49 CGCG 163-58 IRAS 14263+2737 PGC 51706
NGC 5627		Glxy S0	13.9	UGC 9280 MCG 2-37-13 CGCG 75-46 PGC 51705
IC 4438		Glxy Sbc	15.7	MCG 3-37-20 CGCG 104-34 PGC 51709
IC 4439		Glxy	15.7	CGCG 104-35 PGC 51720

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Object	Her	Type	Mag	Alias/Notes
IC 4442		Glxy SBa	14.9	UGC 9287 MCG 5-34-50 CGCG 163-60 VV 15 PGC 51725
NGC 5639		Glxy Scd:	14.2	UGC 9290 MCG 5-34-51 CGCG 163-61 PGC 51730
NGC 5639A		Non-Existent		
IC 1020		Glxy S0	15.1	UGC 9289 MCG 4-34-35 CGCG 133-68 PGC 51728
NGC 5639B		Glxy S	15.4	
IC 4440		Glxy L	15.4	MCG 3-37-22 CGCG 104-37 PGC 51734
NGC 5637	H357-2	Glxy S?	14.8	UGC 9293 MCG 4-34-37 CGCG 133-69 IRAS 14267+2324 KUG 1426+234 PGC 51736
IC 4446		Glxy Sbc	15.8	MCG 6-32-44 PGC 51742
IC 1021		Glxy SBa	14.7	UGC 9296 MCG 4-34-38 CGCG 133-71 PGC 51764
IC 4443		Glxy		
IC 4447		Glxy S0/a	14.4	UGC 9306 MCG 5-34-56 CGCG 163-66 PGC 51754
NGC 5646		Glxy SBb:	15	UGC 9312 MCG 6-32-45 CGCG 192-30 IRAS 14274+3540 PGC 51779
NGC 5654	H420-3	Glxy S?	13.9	UGC 9319 MCG 6-32-50 CGCG 192-32 PGC 51807
NGC 5656	H421-2	Glxy Sab	12.7	UGC 9332 MCG 6-32-53 CGCG 192-34 IRAS 14283+3532 PGC 51831
NGC 5644		Glxy S0	13.5	UGC 9321 MCG 2-37-16 CGCG 75-57 PGC 51834
NGC 5648		Glxy Sbc	13.3	NGC 5649 PGC 51840 UGC 9330 MCG 2-37-19 CGCG 75-59 IRAS 14281+1414
NGC 5649	H645-3	Non-Existent		NGC 5648 PGC 51857 UGC 9333 MCG 2-37-20 CGCG 75-60 IRAS 14284+1411
NGC 5647		Glxy Sa	14.9	UGC 9329 MCG 2-37-17 CGCG 75-58 PGC 51843
NGC 5657		Glxy SBb:	14.1	UGC 9335 MCG 5-34-60 MK 814 CGCG 163-69 IRAS 14285+2924 PGC 51850
NGC 5655		Glxy Scd?	13.9	PGC 51863
NGC 5659		Glxy Sb	14.7	UGC 9342 MCG 4-34-44 CGCG 133-82 PGC 51875
IC 1026		Non-Existent		
IC 4449		Glxy		
NGC 5673	H696-2	Glxy SBc? sp	12.9	UGC 9347 MCG 8-26-41 CGCG 247-39 CGCG 248-1 PGC 51901
IC 4450		Glxy S	15	UGC 9349 MCG 5-34-65 CGCG 163-73 IRAS 14300+2846 PGC 51939
IC 1029		Glxy SAb: sp	12.2	UGC 9361 MCG 8-26-42 CGCG 248-2 CGCG 247-41 IRAS 14307+5007 PGC 51955
IC 4452		Glxy E?	15.4	CGCG 163-76 KARA633 PGC 51951
NGC 5672	H310-3	Glxy Sb? sp	14.1	IC 1030 PGC 51964 UGC 9354 MCG 5-34-68 CGCG 163-77 IRAS 14305+3153
NGC 5675	H422-2	Glxy S?	13.7	UGC 9357 MCG 6-32-62 CGCG 192-38 IRAS 14305+3631 PGC 51965
NGC 5666		Glxy S?	13.8	UGC 9360 MCG 2-37-23 CGCG 75-66 IRAS 14307+1043 PGC 51995
IC 1028		Glxy S	14.7	UGC 9368 MCG 7-30-25 CGCG 220-28 PGC 52005
IC 4454		Glxy		
IC 1030		Non-Existent		
IC 4456		Glxy		
NGC 5677	H283-3	Glxy S?	14.7	UGC 9378 MCG 4-34-46 CGCG 133-88 IRAS 14319+2541 KUG 1431+256 PGC 52072
IC 1031		Glxy	15.4	CGCG 248-5 PGC 52082
IC 4457		Glxy		
IC 4459		Glxy S	15.5	MCG 5-34-74 CGCG 163-83 PGC 52087
IC 4460		Glxy Sa	13.2	MCG 5-34-75 CGCG 163-84 PGC 52089
IC 1032		Glxy C	15.6	CGCG 248-6 1ZW91 PGC 52097
IC 1033		Glxy	15.3	CGCG 248-7 PGC 52099
NGC 5682		Glxy SB(s)b	14.6	UGC 9388 MCG 8-27-2 CGCG 248-8 IRAS 14329+4853 PGC 52107
NGC 5683		Glxy SB(s)0/a?	15.7	MCG 8-27-3 MK 474 CGCG 248-9 PGC 52114
NGC 5681		Glxy S	14.3	UGC 9393 MCG 2-37-25 CGCG 75-83 IRAS 14332+831 PGC 52169

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IC 4463		Glxy	15.4	CGCG 104-46 PGC 52175
NGC 5684	H421-3	Glxy S0	13.6	UGC 9402 MCG 6-32-73 CGCG 192-46 PGC 52179
IC 4465		Glxy		
NGC 5686		Glxy Sa	15.3	MCG 6-32-75 CGCG 192-48 PGC 52189
NGC 5693		Glxy SB(rs)d	14.1	UGC 9406 MCG 8-27-6 CGCG 248-11 PGC 52194
NGC 5685		Glxy E:	14.3	UGC 9403 MCG 5-34-81 CGCG 163-87 PGC 52192
IC 4471		Non-Existent		UGC 9407 MCG 7-30-31 CGCG 220-33 IRAS 14345+4154 PGC 52207
NGC 5697	H675-2	Glxy S?	14.7	IC 4471 PGC 52207 UGC 9407 MCG 7-30-31 CGCG 220-33 IRAS 14345+4154
IC 4466		Glxy	15.5	CGCG 104-48 PGC 52228
IC 4467		Glxy E	15.6	
NGC 5696	H648-2	Glxy Sbc	13.8	UGC 9415 MCG 7-30-36 CGCG 220-36 IRAS 14350+4202 PGC 52235
NGC 5700		Glxy SB	15.2	UGC 9423 MCG 8-27-7 CGCG 248-13 PGC 52237
IC 1034		Glxy	15.6	CGCG 104-49 PGC 52244
NGC 5698	H700-2	Glxy SBb	13.8	UGC 9419 MCG 7-30-38 CGCG 220-37 IRAS 14352+3840 PGC 52251
IC 4469		Glxy Scd:	15.6	UGC 9414 MCG 3-37-26 CGCG 104-51 PGC 52258
NGC 5695	H423-2	Glxy S?	13.6	UGC 9421 MCG 6-32-77 MK 686 CGCG 192-49 IRAS 14353+3647 PGC 52261
NGC 5704	H649-2	Glxy		
IC 4473		Glxy S	15.2	MCG 3-37-27 CGCG 104-52 VV 732 PGC 52287
IC 1035		Glxy L	14.9	MCG 2-37-28 CGCG 75-97 PGC 52305
NGC 5708		Non-Existent		NGC 5704 PGC 52315 UGC 9430 MCG 7-30-44 CGCG 220-42 IRAS 14363+4040
NGC 5699	H127-3	Glxy		
IC 1036		Glxy	15.6	CGCG 104-56 PGC 52320
IC 4475		Glxy L	15	MCG 4-35-1 CGCG 134-6 PGC 52325
IC 4474		Glxy		
IC 1037		Glxy L	14.8	MCG 3-37-28 CGCG 104-57 PGC 52319
NGC 5703	H128-3	Glxy		
IC 4477		Glxy	15.6	CGCG 164-3 PGC 52327
NGC 5706		Non-Existent		NGC 5699 PGC 52334 MCG 5-35-2 CGCG 164-4
IC 4479		Glxy Scd:	14.1	UGC 9433 MCG 5-35-1 CGCG 164-5 IRAS 14365+2842 PGC 52338
NGC 5709		Non-Existent		NGC 5703 PGC 52343 UGC 9435 MCG 5-35-3 CGCG 164-6 IRAS 14366+3039
NGC 5702	H894-3	Glxy S0	14.3	UGC 9434 MCG 4-35-2 CGCG 134-7 PGC 52347
NGC 5724		Glxy	18	MCG 8-27-16 PGC 52360
IC 4478		Glxy C	15.2	CGCG 104-59 PGC 52363
NGC 5710	H895-3	Glxy E	14	UGC 9440 MCG 3-37-32 CGCG 104-60 PGC 52369
NGC 5711		Glxy S?	14.9	UGC 9445 MCG 3-37-33 CGCG 104-62 IRAS 14370+2012 PGC 52376
IC 4480		Glxy R	15.4	MCG 3-37-34 CGCG 104-63 PGC 52394
NGC 5730	H657-3	Glxy Im:	14.6	UGC 9456 MCG 7-30-46 CGCG 220-44 IRAS 14379+4257 PGC 52396
IC 4481		Glxy		
IC 1038		Glxy	15.5	CGCG 75-105 PGC 52403
NGC 5731	H658-3	Glxy S?	14.1	IC 1045 PGC 52409 UGC 9460 MCG 7-30-47 CGCG 220-45 IRAS 14382+4259
IC 4482		Glxy D	15.3	CGCG 104-64 PGC 52408
NGC 5727		Glxy SABdm	14.2	UGC 9465 MCG 6-32-83 CGCG 192-52 KARA642 PGC 52424
IC 4485		Glxy	15.7	CGCG 164-10 PGC 52419
IC 1040		Glxy	15.5	CGCG 75-107 PGC 52437
NGC 5732	H686-3	Glxy Sbc	14.3	UGC 9467 MCG 7-30-48 CGCG 220-46 IRAS 14386+3851 PGC 52438

## Bootes - The Herdsman

Observed: No

Object	Her	Type	Mag	Alias/Notes
IC 1045		Non-Existent		
IC 1044		Glxy S	14.8	MCG 2-37-29 CGCG 75-111 PGC 52477
IC 4486		Glxy	15.2	CGCG 104-68 CGCG 105-1 PGC 52481
IC 4487		Glxy S	15.5	MCG 3-37-37 CGCG 105-3 CGCG 104-70 PGC 52496
IC 1047		Glxy S	15.6	MCG 3-37-38 CGCG 105-4 CGCG 104-71 PGC 52522
NGC 5735	H133-3	Glxy SB(rs)bc	13.1	UGC 9481 MCG 5-35-7 CGCG 164-13 IRAS 14403+2856 PGC 52535
IC 4492		Glxy C	15.8	MCG 6-32-88 CGCG 192-54 ARAK455 PGC 52536
IC 4488		Glxy		
NGC 5737	H896-3	Glxy SBb	14.3	UGC 9488 MCG 3-37-39 CGCG 105-7 PGC 52582
IC 4489		Glxy		
NGC 5736		Glxy Sa	14.7	MCG 2-38-1 CGCG 76-7 PGC 52597
IC 4496		Glxy S0	15	MCG 6-32-90 CGCG 192-56 PGC 52610
IC 1050		Glxy Sb	15	MCG 3-38-2 CGCG 105-11 PGC 52630
IC 1051		Glxy	15.4	CGCG 105-12 PGC 52629
IC 1052		Glxy SB:c	15.3	UGC 9494 MCG 4-35-7 CGCG 134-25 IRAS 14419+2049 PGC 52632
IC 4495		Glxy	15.7	CGCG 134-27 PGC 52634
IC 4493		Non-Existent		UGC 9496 MCG 2-38-2 CGCG 76-13 IRAS 14419+1220 PGC 52638
NGC 5747	H48-3	Glxy Sb	14.4	IC 4493 PGC 52638 UGC 9496 MCG 2-38-2 CGCG 76-13 IRAS 14419+1220
IC 4497		Glxy S0?	14.8	MCG 5-35-9 CGCG 164-15 PGC 52636
IC 4494		Glxy C	15.1	MCG 3-38-3 CGCG 105-13 PGC 52644
IC 4500		Glxy	15.8	MCG 6-32-91 CGCG 192-57 ARAK457 PGC 52656
IC 4498		Glxy S0?	15.3	MCG 5-35-10 CGCG 164-16 PGC 52667
NGC 5748		Glxy	15.4	CGCG 134-29 PGC 52672
IC 4502		Glxy		
IC 1053		Glxy Sb	15.2	MCG 3-38-8 CGCG 105-20 PGC 52709
IC 1057		Non-Existent		IC 1057 IC 1056 UGC 9516 MCG 8-27-23 CGCG 273-25 IRAS 14441+5036 KARA645 PGC 52713
IC 4505		Glxy S0-:	14.7	UGC 9520 MCG 6-32-99 CGCG 192-61 PGC 52754
IC 4504		Glxy E	15.3	CGCG 164-23 PGC 52750
IC 4503		Glxy S	14.8	MCG 3-38-10 CGCG 105-23 PGC 52763
IC 4506		Glxy	15.5	CGCG 192-62 PGC 52764
NGC 5758		Glxy S0-:	14.5	UGC 9524 MCG 2-38-11 CGCG 76-39 PGC 52787
NGC 5759		Glxy Double System	14.9	UGC 9525 MCG 2-38-12 CGCG 76-44 ARAK460 IRAS 14448+1339 PGC 52797
IC 4507		Glxy S	15.6	MCG 3-38-16 CGCG 105-27 PGC 52834
NGC 5760	H885-3	Glxy Sa	14.2	UGC 9531 MCG 3-38-15 CGCG 105-28 IRAS 14453+1841 PGC 52833
IC 4508		Glxy	15.3	CGCG 164-25 PGC 52843
IC 4509		Glxy S	15.2	UGC 9536 MCG 5-35-16 CGCG 164-29 PGC 52874
NGC 5762		Glxy S?	13.7	UGC 9535 MCG 2-38-14 CGCG 76-63 PGC 52887
NGC 5763		Glxy	15.3	CGCG 76-64 PGC 52905
IC 1058		Glxy S	14.9	UGC 9538 MCG 3-38-29 CGCG 105-35 PGC 52915
NGC 5767		Glxy SBab:	14.9	UGC 9549 CGCG 248-22 PGC 52942
IC 4512		Glxy		
IC 4514		Glxy SB(s)ab	15	UGC 9557 MCG 5-35-19 CGCG 164-34 PGC 53010
IC 4515		Glxy S	15.7	MCG 6-33-3 CGCG 193-5 PGC 53026
IC 1061		Non-Existent		
IC 1062		Glxy E/S0	15.5	MCG 3-38-41 CGCG 105-47 PGC 53044

## Bootes - The Herdsman

Observed: No

Object	Her	Type	Mag	Alias/Notes
NGC 5772		Glxy SA(r)b:	13.6	UGC 9566 MCG 7-31-1 CGCG 220-60 CGCG 221-3 IRAS 14497+4048 KARA653 PGC 53067
NGC 5771	H129-3	Glxy E?	14.6	MCG 5-35-21 CGCG 164-37 PGC 53088
NGC 5773	H130-3	Glxy S?	14.5	UGC 9571 MCG 5-35-22 CGCG 164-38 PGC 53124
NGC 5769		Glxy E	15.4	MCG 1-38-8 CGCG 48-47 ARAK462 PGC 53145
NGC 5785		Non-Existent		NGC 5783 PGC 53217 UGC 9586 MCG 9-24-50 CGCG 273-33 IRAS 14519+5216
NGC 5784	H676-2	Glxy S0	13.4	UGC 9592 MCG 7-31-6 CGCG 221-9 IRAS 14524+4245 PGC 53265
NGC 5780		Glxy S?	15	MCG 5-35-24 CGCG 164-41 PGC 53275
IC 4516		Glxy E	14.2	UGC 9587 MCG 3-38-49 CGCG 105-64 PGC 53274
NGC 5778		Glxy E?	14.8	NGC 5825 PGC 53279 UGC 9590 MCG 3-38-50 CGCG 105-66 VV 766
IC 4517		Glxy	15.5	CGCG 134-50 PGC 53291
IC 4519		Glxy S	15.3	MCG 6-33-7 CGCG 193-9 PGC 53311
IC 1075		Glxy SBb	14.6	UGC 9593 MCG 3-38-53 CGCG 105-69 PGC 53314
IC 1076		Glxy S?	14.2	UGC 9595 MCG 3-38-55 MK 479 CGCG 105-71 IRAS 14526+1814 PGC 53320
IC 4520		Glxy Sb	15.1	MCG 6-33-8 CGCG 193-10 IRAS 14530+3355 PGC 53328
NGC 5787	H677-2	Glxy S?	14.1	UGC 9599 MCG 7-31-8 CGCG 221-13 1ZW98 PGC 53339
NGC 5794		Glxy S?	14.4	UGC 9610 MCG 8-27-32 CGCG 248-27 PGC 53378
NGC 5782		Glxy S0	14.6	MCG 2-38-21 CGCG 76-94 PGC 53322
NGC 5795		Glxy S?	14.8	UGC 9617 MCG 8-27-35 CGCG 248-29 IRAS 14546+4935 PGC 53402
NGC 5797	H678-3	Glxy S0/a	13.8	UGC 9619 MCG 8-27-36 CGCG 248-30 PGC 53408
IC 1078		Glxy Sa	14.4	UGC 9608 MCG 2-38-25 CGCG 76-102 PGC 53411
NGC 5789	H976-3	Glxy Sdm	14.2	UGC 9615 MCG 5-35-26 CGCG 164-43 IRAS 14545+3025 PGC 53414
IC 1079		Glxy E	13.9	UGC 9611 MCG 2-38-26 CGCG 76-103 IRAS 14542+931 PGC 53418
NGC 5804	H679-3	Glxy SB(s)b	13.9	UGC 9627 MCG 8-27-38 CGCG 248-32 IRAS 14554+4952 PGC 53437
NGC 5805		Glxy	15.9	PGC 53381
NGC 5790		Glxy (R)SA0/a	14.6	UGC 9624 MCG 1-38-22 CGCG 48-76 CGCG 76-110 PGC 53459
NGC 5798	H131-3	Glxy Im:	13.6	UGC 9628 MCG 5-35-28 CGCG 164-47 IRAS 14555+3009 PGC 53463
NGC 5818		Glxy S0	14.7	UGC 9643 MCG 8-27-46 CGCG 248-39 PGC 53530
IC 4521		Glxy S	15.4	MCG 4-35-22 CGCG 134-62 PGC 53558
IC 4528		Glxy S?	15.1	MCG 8-27-49 IRAS 14588+4922 PGC 53607
NGC 5828A		Glxy Sb	16.1	
NGC 5828B		Non-Existent		
NGC 5828		Glxy S	14.3	UGC 9658 MCG 8-27-51 CGCG 248-43 PGC 53618
NGC 5830		Glxy Sb	15	UGC 9670 MCG 8-27-56 CGCG 248-47 IRAS 15001+4804 PGC 53674
NGC 5827		Glxy Sab pec:	13.9	UGC 9662 MCG 4-35-24 CGCG 134-66 IRAS 14597+2609 PGC 53676
NGC 5825		Non-Existent		
IC 4524		Glxy	15.6	CGCG 134-68 PGC 53684
IC 4525		Glxy B R	15.7	MCG 4-35-25 CGCG 134-69 PGC 53705
NGC 5835		Glxy Sa	15.3	UGC 9674 MCG 8-27-57 CGCG 248-48 PGC 53699
IC 1085		Glxy S	14.7	MCG 3-38-74 CGCG 105-98 PGC 53710
IC 1086		Glxy	15.5	MCG 3-38-77 CGCG 105-101 PGC 53734
IC 4530		Glxy S	15.3	UGC 9679 MCG 4-36-1 CGCG 135-2 PGC 53752
IC 1090		Non-Existent		(STAR) MCG 7-31-25 CGCG 221-22 ARAK467 1ZW101 PGC 53753
NGC 5840		Non-Existent		
IC 4531		Glxy C	15.5	CGCG 135-3 PGC 53792



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Observed: No

Object	Her	Type	Mag	Alias/Notes
IC 4532		Glxy		
IC 4533		Glxy Sa	14.7	UGC 9687 MCG 5-36-4 CGCG 165-10 PGC 53803
NGC 5837		Glxy S	14.5	UGC 9686 MCG 2-38-36 CGCG 76-144 IRAS 15022+1249 PGC 53817
NGC 5842		Glxy	15.3	MCG 4-36-3 CGCG 135-5 PGC 53831
NGC 5853		Glxy SB	14.5	UGC 9707 MCG 7-31-30 CGCG 221-27 IRAS 15039+3942 PGC 53894
NGC 5860		Glxy S?	14.2	UGC 9717 MCG 7-31-33 MK 480 CGCG 221-28 1ZW102 IRAS 15047+4249 PGC 53939
NGC 5851	H886-3	Glxy S?	15	UGC 9714 MCG 2-38-44 CGCG 77-8 PGC 53965
NGC 5852	H887-3	Glxy S?	14.5	MCG 2-38-45 CGCG 77-10 PGC 53974
NGC 5856	H71-4	Non-Existent		
NGC 5857	H751-2	Glxy SB(s)b	13.9	UGC 9724 MCG 3-39-4 CGCG 106-5 PGC 53995
NGC 5859	H572-2	Glxy SB(s)bc	13.3	UGC 9728 MCG 3-39-5 CGCG 106-7 IRAS 15052+1946 PGC 54001
IC 1093		Glxy SABbc	14.6	UGC 9727 MCG 3-39-2 CGCG 106-6 IRAS 15052+1444 PGC 54002
IC 1092		Glxy	15.1	CGCG 77-15 PGC 53998
IC 1094		Glxy C	15.8	MCG 3-39-6 CGCG 106-8 8ZW453 PGC 54011
IC 4534		Glxy		
IC 1096		Glxy S	15	MCG 3-39-9 CGCG 106-11 PGC 54055
IC 1095		Non-Existent		
IC 1097		Glxy S?	14.8	UGC 9735 MCG 3-39-10 CGCG 106-12 IRAS 15062+1922 PGC 54059
NGC 5875A		Glxy S?	13.3	
IC 4535		Glxy		
NGC 5886		Glxy E/S0	15	CGCG 221-36 PGC 54298
NGC 5888	H659-3	Glxy SB(s)bc	14.2	UGC 9771 MCG 7-31-38 CGCG 221-37 PGC 54316
NGC 5884		Non-Existent		
NGC 5889		Glxy SBb?	15.5	PGC 54317
NGC 5893	H678-2	Glxy SB(r)b	13.9	UGC 9774 MCG 7-31-42 CGCG 221-41 IRAS 15117+4208 PGC 54351
NGC 5895		Glxy Sc	16.5	MCG 7-31-43 CGCG 221-42 PGC 54366
NGC 5896		Glxy	16.3	MCG 7-31-44 CGCG 221-42 PGC 54367
NGC 5901		Non-Existent		
NGC 5922	H661-3	Non-Existent		
IC 4542A		Non-Existent		
NGC 5932		Glxy S	15.1	MCG 8-28-33 CGCG 249-23 PGC 55109
NGC 5933		Glxy L	15.7	MCG 8-28-34 CGCG 249-24 PGC 55117
NGC 5934		Glxy S?	14.8	UGC 9862 MCG 7-32-11 CGCG 222-11 1ZW113 PGC 55178
NGC 5935		Glxy Sb	15.2	MCG 7-32-13 CGCG 222-13 1ZW113 PGC 55183
IC 1123		Non-Existent		(STAR)
IC 4549		Glxy Sbc	15.6	MCG 6-34-11 CGCG 194-7 IRAS 15272+3259 PGC 55217
NGC 5943		Glxy S0?	14.2	UGC 9870 MCG 7-32-16 CGCG 222-16 PGC 55242
NGC 5945		Glxy SB(rs)ab	13.7	UGC 9871 MCG 7-32-17 CGCG 222-17 IRAS 15280+4305 PGC 55243
NGC 5947		Glxy SBbc	14.5	UGC 9877 MCG 7-32-19 CGCG 222-19 IRAS 15288+4253 PGC 55274
NGC 5950		Glxy Sb	14.5	UGC 9884 MCG 7-32-21 CGCG 222-20 IRAS 15296+4036 PGC 55305
IC 4557		Glxy	15.7	CGCG 222-26 PGC 55483
IC 4560		Glxy		
NGC 5966	H634-3	Glxy E	13.1	UGC 9923 MCG 7-32-32 CGCG 222-28 PGC 55552
IC 4562		Glxy E?	13.6	UGC 9928 MCG 7-32-34 CGCG 222-30 1ZW118 PGC 55559
IC 4562A		Glxy	15.7	

## Bootes - The Herdsman

Observed: No

Object	Her	Type	Mag	Alias/Notes
IC 4563		Glxy S	15.1	MCG 7-32-33 CGCG 222-29 PGC 55565
IC 4564		Glxy S?	14.4	UGC 9930 MCG 7-32-36 CGCG 222-33 IRAS 15347+4340 PGC 55584
IC 4565		Glxy Sc	14.8	UGC 9931 MCG 7-32-37 CGCG 222-34 PGC 55592
IC 4566		Glxy Sab	14.1	UGC 9933 MCG 7-32-38 CGCG 222-35 PGC 55601
IC 4567		Glxy Scd?	13.5	UGC 9940 MCG 7-32-40 CGCG 222-37 IRAS 15354+4327 PGC 55620
NGC 5992	H635-3	Glxy S	14.3	UGC 10003 MCG 7-32-49 MK 489 CGCG 222-47 IRAS 15425+4114 PGC 55913
NGC 5993	H636-3	Glxy SB(r)b:	13.9	UGC 10007 MCG 7-32-50 CGCG 222-48 IRAS 15426+4116 PGC 55918

**Sub Total: 408**

Observed: Yes

Object	Her	Type	Mag	Alias/Notes
IC 905		Glxy C	14.9	MCG 4-32-20 CGCG 131-19 PGC 48349
IC 906		Glxy S	15.7	MCG 4-32-21 CGCG 131-20 PGC 48348
IC 910		Glxy S?	15.4	MCG 4-32-25 CGCG 131-24 PGC 48424
IC 911		Glxy Double System	15.8	UGC 8665 MCG 4-32-27 CGCG 131-26 PGC 48449
IC 912		Glxy S	15.2	UGC 8665 MCG 4-32-28 CGCG 131-26 PGC 48448
IC 913		Glxy SBb	15.2	UGC 8664 MCG 4-32-29 CGCG 131-25 IRAS 13391+2325 PGC 48458
IC 914		Glxy S	15.2	MCG 4-32-30 CGCG 131-27 PGC 48475
IC 916		Glxy C	15.3	MCG 4-32-31 CGCG 131-28 PGC 48564
IC 982		Glxy SA0+	14	UGC 9059 MCG 3-36-66 CGCG 103-96 ARP 117 PGC 50560
IC 983		Glxy SB(r)bc	12.5	UGC 9061 MCG 3-36-68 CGCG 103-98 ARP 117 IRAS 14077+1757 PGC 50577
IC 987		Glxy S	15.2	MCG 3-36-78 CGCG 103-112 PGC 50663
IC 1027		Glxy S	15.2	UGC 9331 MCG 9-24-9 CGCG 273-8 PGC 51796
IC 1056		Glxy Sb	13.3	IC 1057 IC 1056 UGC 9516 MCG 8-27-23 CGCG 273-25 IRAS 14441+5036 KARA645 PGC 52713
IC 1069		Glxy S0	14.8	UGC 9563 MCG 9-24-44 CGCG 273-29 PGC 53000
IC 1074		Glxy S	15.1	UGC 9572 MCG 9-24-47 CGCG 273-30 PGC 53084
IC 1111		Glxy Sb	15.2	UGC 9800 MCG 9-25-39 CGCG 274-37 PGC 54473
IC 4307		Glxy S0?	15.1	MCG 5-32-43 CGCG 161-88 PGC 48032
IC 4313		Glxy C	15.6	MCG 5-32-46 CGCG 161-94 PGC 48186
IC 4314		Glxy S?	14.6	MCG 5-32-47 CGCG 161-96 PGC 48197
IC 4322		Glxy SA(r)0-:	15.1	CGCG 131-30 PGC 48635
IC 4343		Glxy E/S0	15.5	MCG 4-33-24 CGCG 132-44 PGC 49470
IC 4344		Glxy SB	15.4	MCG 4-33-26 CGCG 132-45 PGC 49492
IC 4345		Glxy E?	15.9	MCG 4-33-25 CGCG 132-46 Hickson 69B PGC 49507
IC 4346		Glxy S	15.3	MCG 4-33-29 CGCG 132-49 PGC 49523
IC 4349		Glxy S	15.3	MCG 4-33-32 CGCG 132-51 PGC 49530
IC 4381		Glxy Scd:	14.4	UGC 9073 MCG 4-33-42 CGCG 132-78 CGCG 133-1 IRAS 14087+2545 Hickson 71A PGC 50629
IC 4382		Glxy S?	15.4	CGCG 132-79 CGCG 133-2 Hickson 71B PGC 50635
IC 4383		Glxy Sc-Irr	15.3	UGC 9086 MCG 3-36-82 CGCG 103-115 KUG 1409+161 PGC 50713
IC 4384		Glxy S0/a	14.9	UGC 9082 MCG 5-33-54 CGCG 163-3 PGC 50690
IC 4461		Glxy Double System	15.2	UGC 9384 MCG 5-34-77 CGCG 163-85 VV 303 ARP 95 PGC 52119
IC 4462		Glxy L	16.9	UGC 9384 MCG 5-34-78 CGCG 163-85 VV 303 ARP 95 PGC 52123
IC 4483		Glxy Sb	14.7	UGC 9455 MCG 3-37-35 CGCG 104-66 PGC 52417
IC 4526		Glxy S	16.6	UGC 9673 MCG 4-35-26 CGCG 134-70 IRAS 15004+2332 Hickson 73B ARP 42

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Observed: Yes

Object	Her	Type	Mag	Alias/Notes
				PGC 53707
IC 4542		Glxy S0/a	15.1	MCG 6-34-6 CGCG 194-2 PGC 54855
IC 4542B		Glxy S	15.9	MCG 6-34-7 PGC 54856
MAC 1337+1603		Glxy	15.5	
MAC 1338+2645		Glxy	15.5	
MAC 1341+2313		Glxy	17	
MAC 1341+2315		Glxy	16.5	
MAC 1341+2316		Glxy	16.5	
MAC 1341+2706		Glxy	15.5	
MAC 1342+2418		Glxy	16	
MAC 1355+2504		Glxy	16	
MAC 1355+2506B		Glxy	15.5	
MAC 1355+2509		Glxy	15	
MAC 1402+0918		Glxy	16.5	
MAC 1403+0931		Glxy	16	
MAC 1403+0933		Glxy	15.5	
MAC 1409+1731		Glxy	15.5	
MAC 1409+4902A		Glxy	16.5	
MAC 1409+4903		Glxy	15.5	
MAC 1411+1910		Glxy	16	
MAC 1411+2545		Glxy	16	
MAC 1415+3624A		Glxy	17	
MAC 1415+3624B		Glxy	16.5	
MAC 1429+5349		Glxy	15.5	
MAC 1437+3030		Glxy	16.5	
MAC 1446+1135		Glxy	17	
MAC 1447+1849		Glxy	15	
MAC 1447+1851		Glxy	15.5	ARP 47
MAC 1455+2430		Glxy	16	
MAC 1456+2436		Glxy	15.5	
MAC 1456+2438		Glxy	16	
MAC 1456+2442		Glxy	16.5	
MAC 1456+2442A		Glxy	16	
MAC 1456+2444		Glxy	15	
MAC 1457+2441		Glxy	15	
MAC 1518+4152		Glxy	16.5	
NGC 5239	H101-3	Glxy SB(rs)bc	13.6	UGC 8589 MCG 1-35-15 CGCG 45-40 IRAS 13339+737 PGC 48023
NGC 5248	H34-1	Glxy SAB(rs)bc	11	UGC 8616 MCG 2-35-15 CGCG 73-54 IRAS 13350+908 PGC 48130
NGC 5249	H72-3	Glxy S0?	13.9	UGC 8618 MCG 3-35-15 CGCG 102-28 PGC 48134
NGC 5251	H369-3	Glxy S?	14.8	MCG 5-32-44 CGCG 161-90 KUG 1335+276 PGC 48119
NGC 5423		Glxy S0-:	13.7	UGC 8952 MCG 2-36-17 CGCG 74-59 PGC 50028
NGC 5424		Glxy S0	14	UGC 8956 MCG 2-36-19 CGCG 74-63 PGC 50035
NGC 5431		Glxy S?	14.8	MCG 2-36-20 CGCG 74-65 PGC 50046
NGC 5434		Glxy SAc	13.2	UGC 8965 MCG 2-36-22 CGCG 74-68 PGC 50077
NGC 5436		Glxy S0/a	13.8	UGC 8971 MCG 2-36-25 CGCG 74-71 PGC 50104

## Bootes - The Herdsman

Observed: Yes

Object	Her	Type	Mag	Alias/Notes
NGC 5437		Glxy Sb	15.1	IC 4365 PGC 50113 MCG 2-36-28 CGCG 74-74
NGC 5438		Glxy E/S0	14.7	NGC 5446 PGC 50112 MCG 2-36-29 CGCG 74-75
NGC 5466	H9-6	Globular	9.2	
NGC 5490	H32-3	Glxy E	13.1	UGC 9058 MCG 3-36-65 CGCG 103-95 PGC 50558
NGC 5490C		Glxy SB(s)bc	14.7	MCG 3-36-69 CGCG 103-100 ARP 79 PGC 50584
NGC 5498		Glxy S0-:	14.6	UGC 9075 MCG 4-33-43 CGCG 132-80 CGCG 133-3 PGC 50639
NGC 5504		Glxy SAB(s)bc	13.8	UGC 9085 MCG 3-36-81 CGCG 103-114 KUG 1409+160 PGC 50718
NGC 5520	H676-3	Glxy Sb	13.3	UGC 9097 MCG 8-26-13 CGCG 272-43 IRAS 14105+5034 PGC 50728
NGC 5523	H134-3	Glxy SA(s)cd:	12.8	UGC 9119 MCG 4-34-8 CGCG 133-18 IRAS 14125+2533 KARA621 PGC 50895
NGC 5524		Glxy Spiral	15.2	MCG +6-31-81 CGCG 191-67 PGC 50868
NGC 5527		Glxy SB	16	MCG 6-31-85A PGC 50925
NGC 5529	H414-3	Glxy Sc: sp	12.8	UGC 9127 MCG 6-31-85 CGCG 191-69 IRAS 14134+3627 PGC 50942
NGC 5533	H418-2	Glxy SA(rs)ab	12.7	UGC 9133 MCG 6-31-89 CGCG 191-72 IRAS 14140+3534 PGC 50973
NGC 5544	H419-2	Glxy (R)SB(rs)0/a	14.2	UGC 9142 MCG 6-31-90 CGCG 191-73 VV 210 ARP 199 PGC 51018
NGC 5545		Glxy SA(s)bc:	16	UGC 9143 MCG 6-31-91 VV 210 ARP 199 IRAS 14149+3648 PGC 51023
NGC 5548	H194-2	Glxy (R')SA(s)0/a	13.3	UGC 9149 MCG 4-34-13 CGCG 133-25 IRAS 14156+2522 KUG 1415+253 PGC 51074
NGC 5557	H99-1	Glxy E1	11.9	UGC 9161 MCG 6-31-93 CGCG 191-74 PGC 51104
NGC 5579	H415-3	Glxy Sc	13.7	
NGC 5582	H754-2	Glxy E	12.5	UGC 9188 MCG 7-29-63 CGCG 220-3 CGCG 219-70 PGC 51251
NGC 5589	H416-3	Glxy SBa	14.2	PGC 51300 UGC 9197 MCG 6-32-5 CGCG 192-4
NGC 5590	H417-3	Glxy S0	13.3	PGC 51312 UGC 9200 MCG 6-32-6 CGCG 192-6
NGC 5600	H177-2	Glxy Sc pec	12.7	UGC 9220 MCG 3-37-13 CGCG 104-15 ARAK449 IRAS 14214+1451 8ZW410 PGC 51422
NGC 5602	H694-2	Glxy Sa	13.6	UGC 9210 MCG 9-24-2 CGCG 273-4 PGC 51340
NGC 5609		Glxy		
NGC 5613		Glxy (R)SAB(r)0+	14.5	UGC 9228 MCG 6-32-21 VV 77 ARP 178 PGC 51433
NGC 5614	H420-2	Glxy SA(r)ab pec	11.6	UGC 9226 MCG 6-32-22 CGCG 192-14 VV 77 ARP 178 IRAS 14220+3505 PGC 51439
NGC 5615		Glxy	15.5	MCG 6-32-23 VV 77 ARP 178 PGC 51435
NGC 5624		Glxy S?	14.1	UGC 9256 MCG 9-24-6 CGCG 273-6 IRAS 14248+5148 PGC 51568
NGC 5625		Glxy Sbc	14.8	MCG 7-30-13 CGCG 220-17 VV 25 PGC 51592
NGC 5633	H185-1	Glxy (R)SA(rs)b	13.1	UGC 9271 MCG 8-26-34 CGCG 247-30 1ZW89 IRAS 14255+4622 KARA631 PGC 51620
NGC 5641		Glxy (R')SAB(r)ab	13.1	UGC 9300 MCG 5-34-55 CGCG 163-63 IRAS 14270+2902 PGC 51758
NGC 5642	H126-3	Glxy E	13.6	UGC 9301 MCG 5-34-52 CGCG 163-64 PGC 51751
NGC 5653	H330-2	Glxy (R')SA(rs)b	12.9	IC 1026 PGC 51814 UGC 9318 MCG 5-34-58 CGCG 163-68 IRAS 14280+3126
NGC 5660	H695-2	Glxy SAB(rs)c	12.4	UGC 9325 MCG 8-26-39 CGCG 247-35 IRAS 14280+4950 PGC 51795
NGC 5665	H27-2	Glxy SAB(rs)c pec?	12.7	UGC 9352 MCG 1-37-24 CGCG 47-84 VV 412 ARP 49 IRAS 14299+817 PGC 51953
NGC 5669	H79-2	Glxy SAB(rs)cd	12	UGC 9353 MCG 2-37-21 CGCG 75-64 IRAS 14302+1006 PGC 51973
NGC 5676	H189-1	Glxy SA(rs)bc	11.9	UGC 9366 MCG 8-26-43 CGCG 248-3 CGCG 247-42 PGC 51978
NGC 5687	H808-2	Glxy S0-?	12.6	UGC 9395 MCG 9-24-20 CGCG 273-14 KARA637 PGC 52116
NGC 5689	H188-1	Glxy SB(s)0/a:	12.8	UGC 9399 MCG 8-27-4 CGCG 248-10 IRAS 14337+4857 PGC 52154
NGC 5707		Glxy Sab: sp	13.4	UGC 9428 MCG 9-24-23 CGCG 273-15 PGC 52266
NGC 5714	H675-3	Glxy Scd:	14.1	UGC 9431 MCG 8-27-11 CGCG 248-14 IRAS 14363+4651 PGC 52307
NGC 5717		Glxy S	15.3	MCG 8-27-12 CGCG 248-15 PGC 52332
NGC 5720		Glxy Sb	14.2	UGC 9439 MCG 9-24-25 CGCG 273-17 PGC 52328

## Bootes - The Herdsman

Observed: Yes

Object	Her	Type	Mag	Alias/Notes
NGC 5721		Glxy	16.9	MCG 8-27-13 CGCG 248-16 PGC 52346
NGC 5722		Glxy	14.4	MCG 8-27-14 PGC 52355
NGC 5723		Glxy E/S0	15.6	MCG 8-27-15 CGCG 248-16 PGC 52354
NGC 5739	H171-1	Glxy SAB(r)0+:	13.1	UGC 9486 MCG 7-30-52 CGCG 220-49 IRAS 14405+4203 PGC 52531
NGC 5751	H809-2	Glxy Scd:	13.9	UGC 9498 MCG 9-24-33 CGCG 273-24 IRAS 14422+5336 PGC 52607
NGC 5752		Glxy Sb	16.6	MCG 7-30-60 CGCG 220-52 ARP 297 PGC 52685
NGC 5753		Glxy	15.7	MCG 7-30-62 CGCG 220-53 IRAS 14434+3859 ARP 297 PGC 52695
NGC 5754	H687-3	Glxy SB(rs)b	13.9	UGC 9505 MCG 7-30-61 CGCG 220-52 ARP 297 IRAS 14432+3856 PGC 52686
NGC 5755		Glxy SBd	16	UGC 9507 MCG 7-30-63 CGCG 220-53 ARP 297 PGC 52690
NGC 5783		Glxy SBc	12.9	
NGC 5788		Glxy	15.6	MCG 9-24-49 CGCG 273-32 PGC 53189
NGC 5820	H756-2	Glxy S0 sp	13.4	UGC 9642 MCG 9-25-1 CGCG 273-38 CGCG 274-4 ARP 136 PGC 53511
NGC 5821	H811-3	Glxy S?	14.5	UGC 9648 MCG 9-25-2 CGCG 273-39 CGCG 274-5 PGC 53532
NGC 5829		Glxy SA(s)c	13.9	UGC 9673 MCG 4-35-27 CGCG 134-70 VV 7 ARP 42 Hickson 73A PGC 53709
NGC 5874		Glxy SAB(rs)c	13.1	UGC 9736 MCG 9-25-24 CGCG 274-20 IRAS 15064+5456 KUG 1506+549 PGC 54018
NGC 5875	H755-2	Glxy SAB:	13.2	UGC 9745 MCG 9-25-27 CGCG 274-27 IRAS 15077+5243 PGC 54095
NGC 5876		Glxy SB(r)ab:	13.6	UGC 9747 MCG 9-25-28 CGCG 274-28 PGC 54110
NGC 5899	H650-2	Glxy SAB(rs)c	12.5	UGC 9789 MCG 7-31-45 CGCG 221-43 IRAS 15132+4214 PGC 54428
NGC 5900	H660-3	Glxy Sb: sp	14.8	UGC 9790 MCG 7-31-46 CGCG 221-44 IRAS 15132+4223 PGC 54431
NGC 5902	H737-3	Glxy S	14	MCG 8-28-11 CGCG 274-35 PGC 54394
NGC 5914A		Glxy Sb	15.3	PGC 54654 MCG 7-31-55
NGC 5914B		Glxy S	16.6	MCG 7-31-56 PGC 54653
NGC 5918		Glxy Scd:	13.9	UGC 9817 MCG 8-28-17 CGCG 249-16 IRAS 15177+4603 PGC 54690
NGC 5923		Glxy SAB(s)bc	13.7	UGC 9823 MCG 7-32-1 CGCG 222-2 CGCG 221-52 IRAS 15194+4154 PGC 54780
NGC 5929		Glxy Sab: pec	14.4	UGC 9851 MCG 7-32-6 CGCG 222-7 1ZW112 VV 823 ARP 90 PGC 55076
NGC 5930	H651-2	Glxy Sa	13	UGC 9852 MCG 7-32-7 CGCG 222-7 1ZW112 VV 823 ARP 90 IRAS 15243+4150 PGC 55080
PGC 48024		Glxy S	15.7	UGC 8591 CGCG 102-21
PGC 48077		Glxy S	15.2	MCG 3-35-11 CGCG 102-25
PGC 48203		Glxy		
PGC 48479		Glxy S?	15	MCG 5-32-62 CGCG 161-122
PGC 48529		Glxy S	16	KUG 1339+245
PGC 48973		Glxy	16.1	MCG 4-33-4 CGCG 132-14 VV 190
PGC 48974		Glxy S	15.8	MCG 4-33-3 CGCG 132-14 VV 190
PGC 48980		Glxy S	16.6	MCG 4-33-5 CGCG 132-15 VV 191
PGC 48981		Glxy S	16.1	MCG 4-33-6 CGCG 132-15 VV 191
PGC 49499		Glxy S	16.4	Hickson 69D
PGC 49502		Glxy S?	15.8	UGC 8842 MCG 4-33-27 CGCG 132-47 VV 281 IRAS 13532+2517 Hickson 69A
PGC 49505		Glxy S0?	15.8	UGC 8842 MCG 4-33-28 CGCG 132-48 VV 281 Hickson 69C
PGC 50019		Glxy S	15.7	MCG 2-36-16 CGCG 74-58
PGC 50032		Glxy S	15.7	MCG 2-36-18 CGCG 74-62
PGC 50087		Glxy Sbc		UGC 8967 MCG 2-36-24 CGCG 74-70 IRAS 14009+942
PGC 50509		Glxy S?	14.6	UGC 9056 MCG 8-26-5 CGCG 247-6 IRAS 14074+4916
PGC 50552		Glxy	15.9	MCG 3-36-64 CGCG 103-93 ARAK441
PGC 50559		Glxy	15.6	CGCG 103-94

# Bootes - The Herdsman

Observed: Yes

Object	Her	Type	Mag	Alias/Notes
PGC 50572		Glxy S	15.6	MCG 3-36-67 CGCG 103-97
PGC 50581		Glxy Scd	14.9	UGC 9071 MCG 9-23-46 CGCG 272-38
PGC 50612		Glxy	15.5	CGCG 103-105
PGC 50640		Glxy S?	16.3	Hickson 71C
PGC 50641		Glxy E	17.2	Hickson 71D
PGC 50645		Glxy	15.5	CGCG 103-110
PGC 50664		Glxy Sdm	14.9	UGC 9083 MCG 8-26-9 CGCG 272-39 CGCG 247-9 VV 125
PGC 50716		Glxy S	15.2	MCG 3-36-79 IRAS 14098+1604
PGC 50784		Glxy Sb	14	UGC 9101 MCG 5-34-1 CGCG 163-7
PGC 50902		Glxy Sdm	14.5	UGC 9123 MCG 6-31-83
PGC 50944		Glxy Compact	15.6	MCG 6-31-86 CGCG 191-70
PGC 50952		Glxy Spiral	15.6	MCG 6-31-87 CGCG 191-71 KUG 1413+364
PGC 51181		Glxy S	15.6	MCG 9-23-60
PGC 51207		Glxy Im	13.5	UGC 9169 MCG 2-37-1 CGCG 75-8 ANON 1417+9
PGC 51214		Glxy SB?	15.4	UGC 9178 MCG 9-23-64 CGCG 272-47 CGCG 273-2 VV 2 ARP 45
PGC 51279		Glxy S	15.4	UGC 9194 MCG 7-30-2 CGCG 219-72 CGCG 220-5
PGC 51285		Glxy S	16.2	MCG 6-32-4
PGC 51296		Glxy S	16.5	KUG 1419+352
PGC 51503		Glxy Sd	14.1	UGC 9242 MCG 7-30-11 CGCG 220-15 1ZW88
PGC 51587		Glxy Sd:	14.7	UGC 9249 CGCG 75-33
PGC 51621		Glxy SBc-IRR	15	UGC 9266 MCG 5-34-44 CGCG 163-53
PGC 51747		Glxy S-Irr	15.7	UGC 9302 MCG 5-34-54 CGCG 163-65
PGC 51748		Glxy S R	15.5	MCG 5-34-53 CGCG 163-62
PGC 52098		Glxy	14.1	MCG 9-24-19
PGC 52120		Glxy S	15.8	MCG 5-34-76 VV 303 ARP 95
PGC 52226		Glxy Spiral	12.9	MCG 9-24-22
PGC 52269		Glxy S	14.1	MCG 9-24-24
PGC 52283		Glxy S?	15	UGC 9425 MCG 5-34-83 CGCG 163-89 CGCG 164-2 VV 264 ARP 241 IRAS 14356+3041
PGC 52675		Glxy C	15.5	MCG 3-38-6 CGCG 105-16 ARAK458
PGC 52698		Glxy Sb	15	UGC 9503 MCG 3-38-7 CGCG 105-19 VV 471 ARP 64 IRAS 14431+1940
PGC 52773		Glxy SB	15.2	MCG 2-38-7 CGCG 76-32
PGC 52778		Glxy S0	15.2	MCG 2-38-8 CGCG 76-33
PGC 52781		Glxy SBa:	14.4	UGC 9521 MCG 2-38-9 CGCG 76-36
PGC 52788		Glxy S0/a	14.4	UGC 9523 MCG 2-38-10 CGCG 76-38
PGC 52794		Glxy	15.5	CGCG 76-40
PGC 52803		Glxy SB	15.4	MCG 3-38-14 CGCG 105-26 VV 435 ARP 47
PGC 52844		Glxy S0?	16.1	MCG 3-38-17 CGCG 105-30 VV 165 ARP 328 Hickson 72A
PGC 52848		Glxy S	15.9	UGC 9532 MCG 3-38-20 CGCG 105-30 VV 165 ARP 328 Hickson 72B
PGC 52851		Glxy L	16	UGC 9532 MCG 3-38-21 CGCG 105-30 VV 165 ARP 328 Hickson 72D
PGC 52854		Glxy S0?	15.8	UGC 9532 MCG 3-38-22 CGCG 105-30 VV 165 ARP 328 Hickson 72C
PGC 53053		Glxy S0	15.7	MCG 2-38-20 VV 296 ARP 173
PGC 53054		Glxy Sab	16.7	UGC 9561 MCG 2-38-19 CGCG 76-76 VV 296 ARP 173 IRAS 14490+932
PGC 53371		Glxy S	18	MCG 4-35-16 VV 840 ARP 177 IRAS 14535+2447
PGC 53372		Glxy S	17.3	MCG 4-35-17 VV 840 ARP 177
PGC 53376		Glxy Sb	16.2	UGC 9606

## Bootes - The Herdsman

Observed: Yes

Object	Her	Type	Mag	Alias/Notes
PGC 53432		Glxy S	15.8	UGC 9618 MCG 4-35-19 CGCG 134-58 VV 340 ARP 302
PGC 53433		Glxy Double System	14.9	UGC 9618 MCG 4-35-18 CGCG 134-58 VV 340 ARP 302
PGC 53476		Glxy SAd	14.9	UGC 9632 MCG 9-24-59 CGCG 273-36 CGCG 274-2
PGC 53720		Glxy S	16.9	Hickson 73C
PGC 54377		Glxy Scd:	15.3	UGC 9780 MCG 8-28-9 CGCG 249-13 IRAS 15122+4446 KARA668
PGC 55095		Glxy IBm	15.8	UGC 9857 MCG 7-32-9

**Sub Total: 215****Total: 623**