



Messier Deep Sky Catalogue

Jim Cornmell

v0.1 - January 2013

INTRODUCTION

Welcome to my Messier Deep Sky Catalogue. This is designed to complement the information available from my website <http://www.JimsCosmos.com/> and being a lightweight deep sky guide for use at the eyepiece. It does not contain exhaustive information for each object, see the references section sec:references to obtain more detailed information. However this pocket guide does contain enough information to find the objects, see a little information on each object including images from DSS.

1.1 Layout and Key concept

The remainder of the pocket guide displays each object in turn with the following information:

- Star chart
- Key facts
- Image from the DSS
- Links into my site which intrun link to key sources

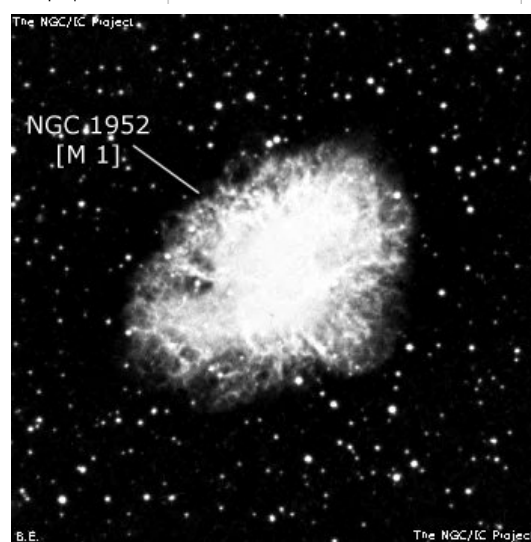
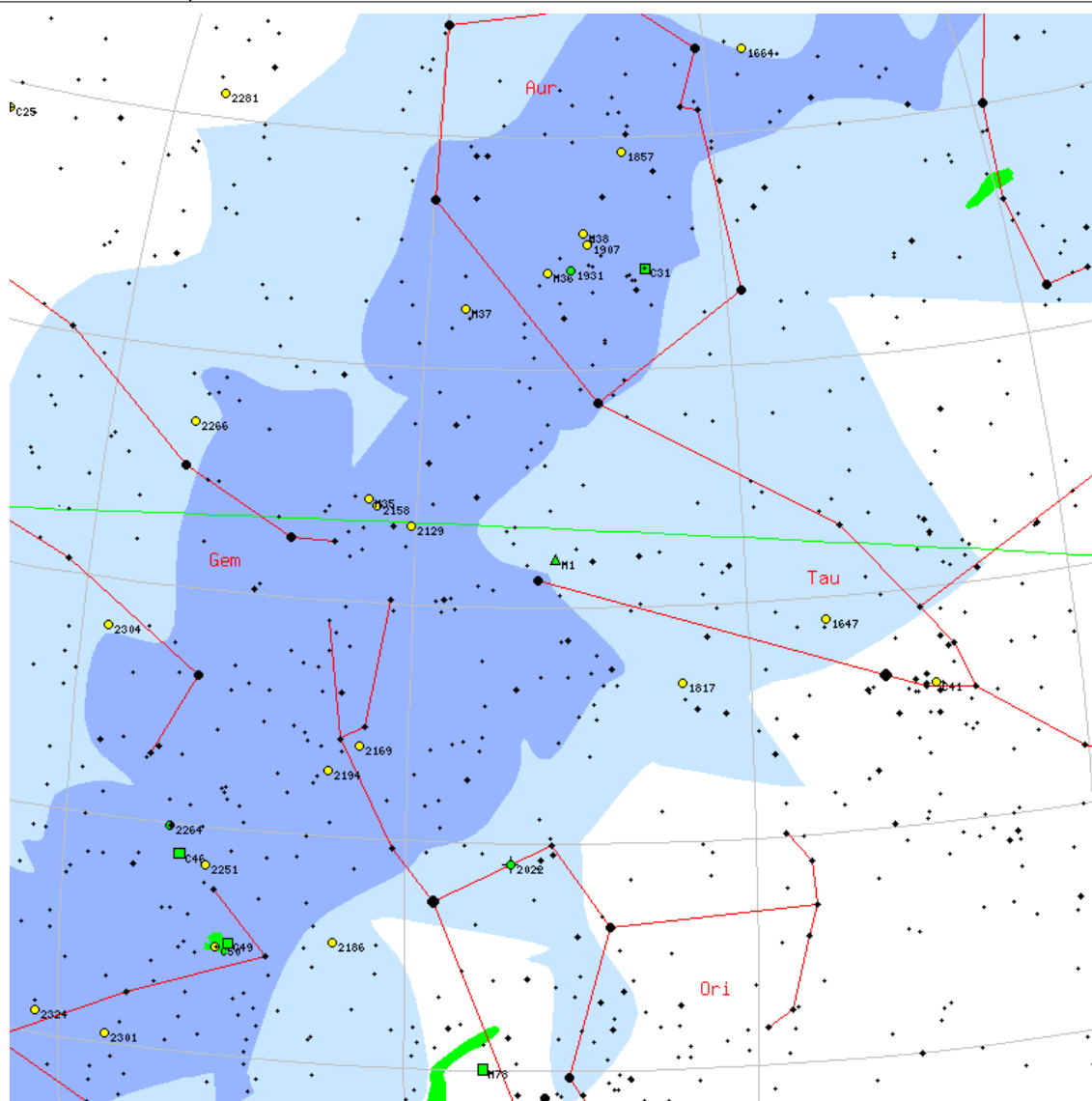
Also note that:

- The page number councides with the objects ID
- Each page has the same layout
- All information coincides with information from my website <http://www.JimsCosmos.com/>

1.2 Printing

This pocket guide is designed to be printed as a double sided A5 booklet (4 pages a sheet), or kept as a PDF document.

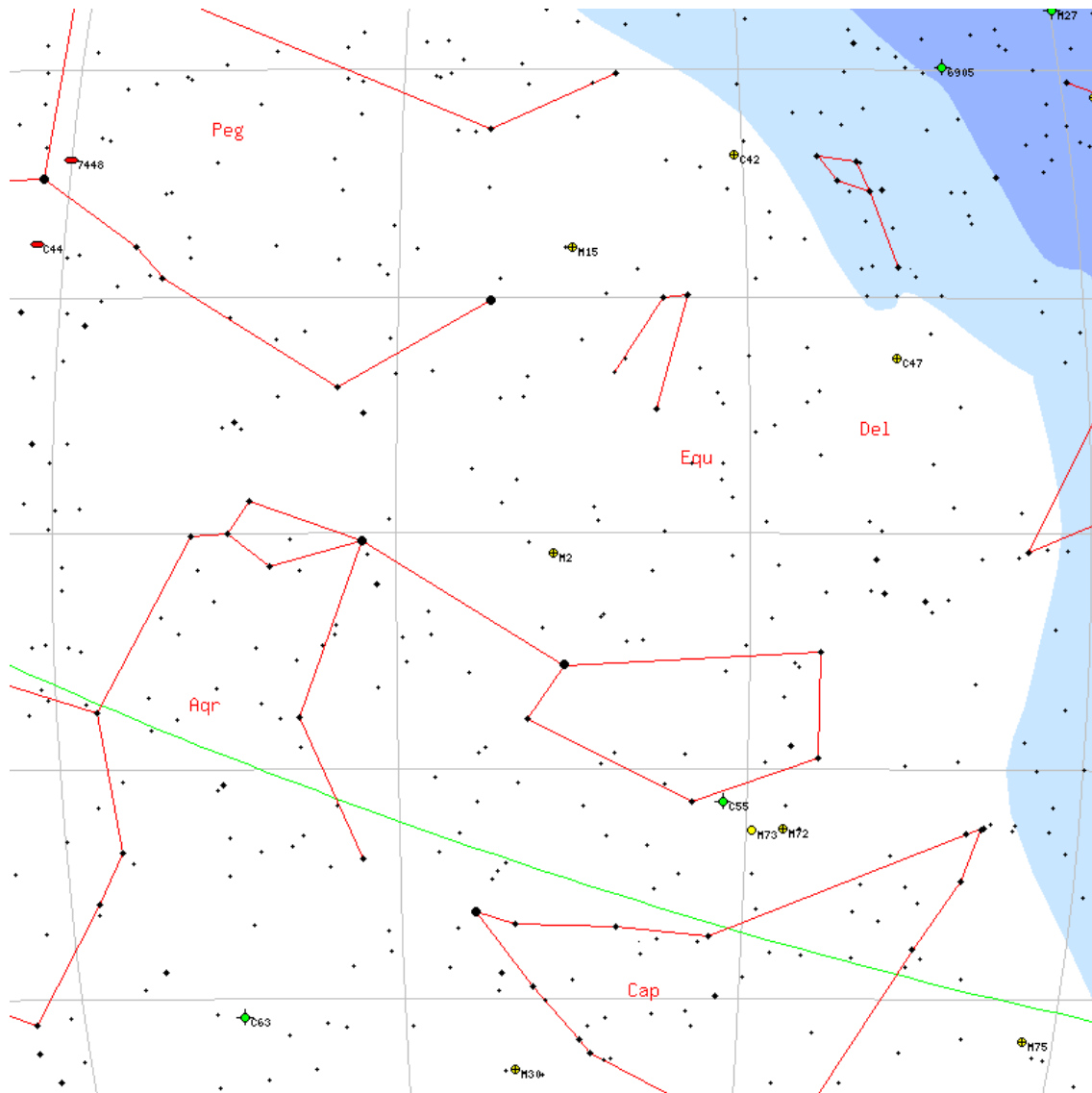
M	M1	ID	NGC1952
Constellation	Tau	Type	SNR
Magnitude	8.4	Size	6 x 6
RA	05h 34m	Dec	+22d 01m
Name	Crab Nebula		
Description	vB, vL, E 135deg +/- , vglbM, r		



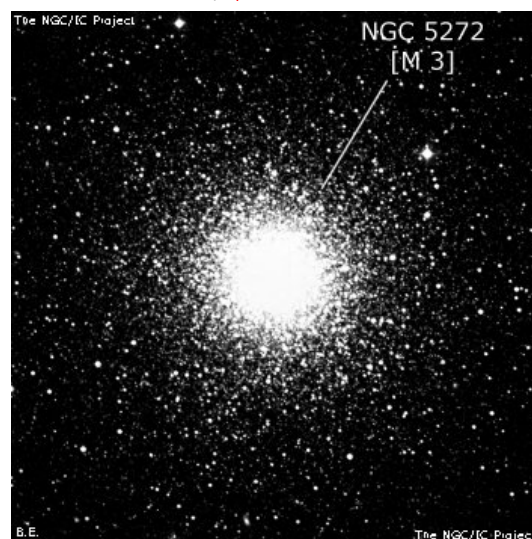
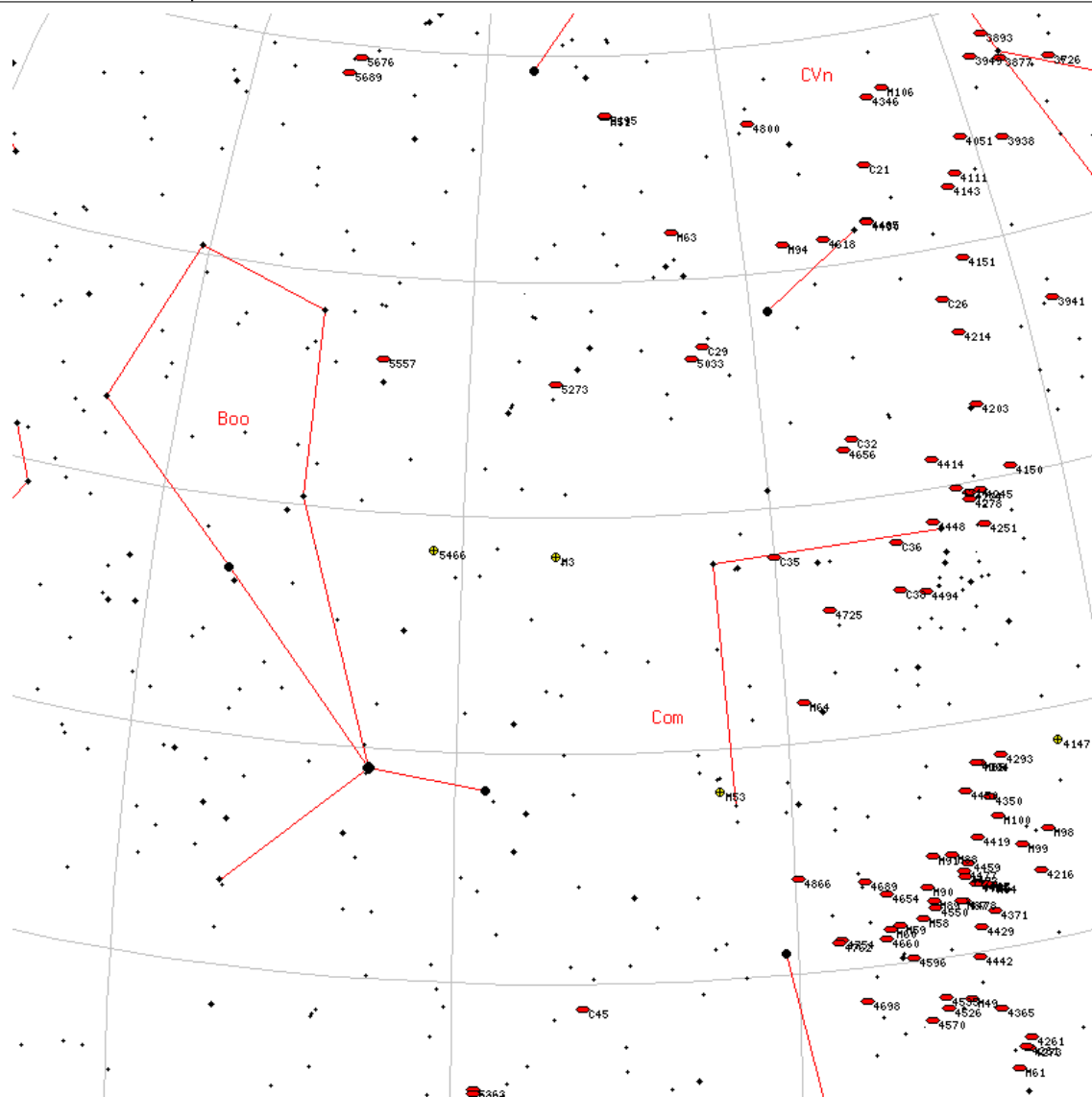
Messier 1 is a nice easy object located near one of the horns of Taurus, Zeta Tauri.

M2

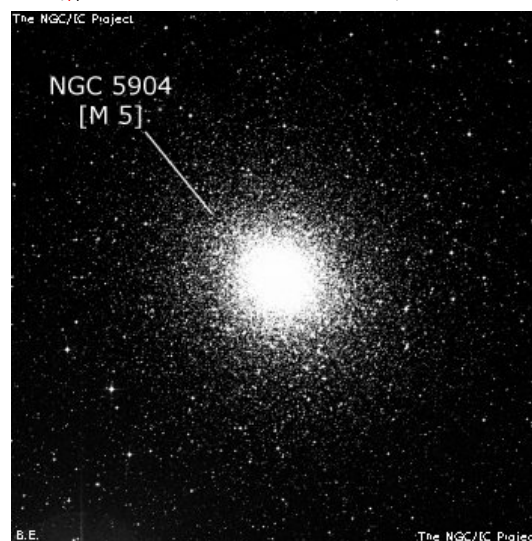
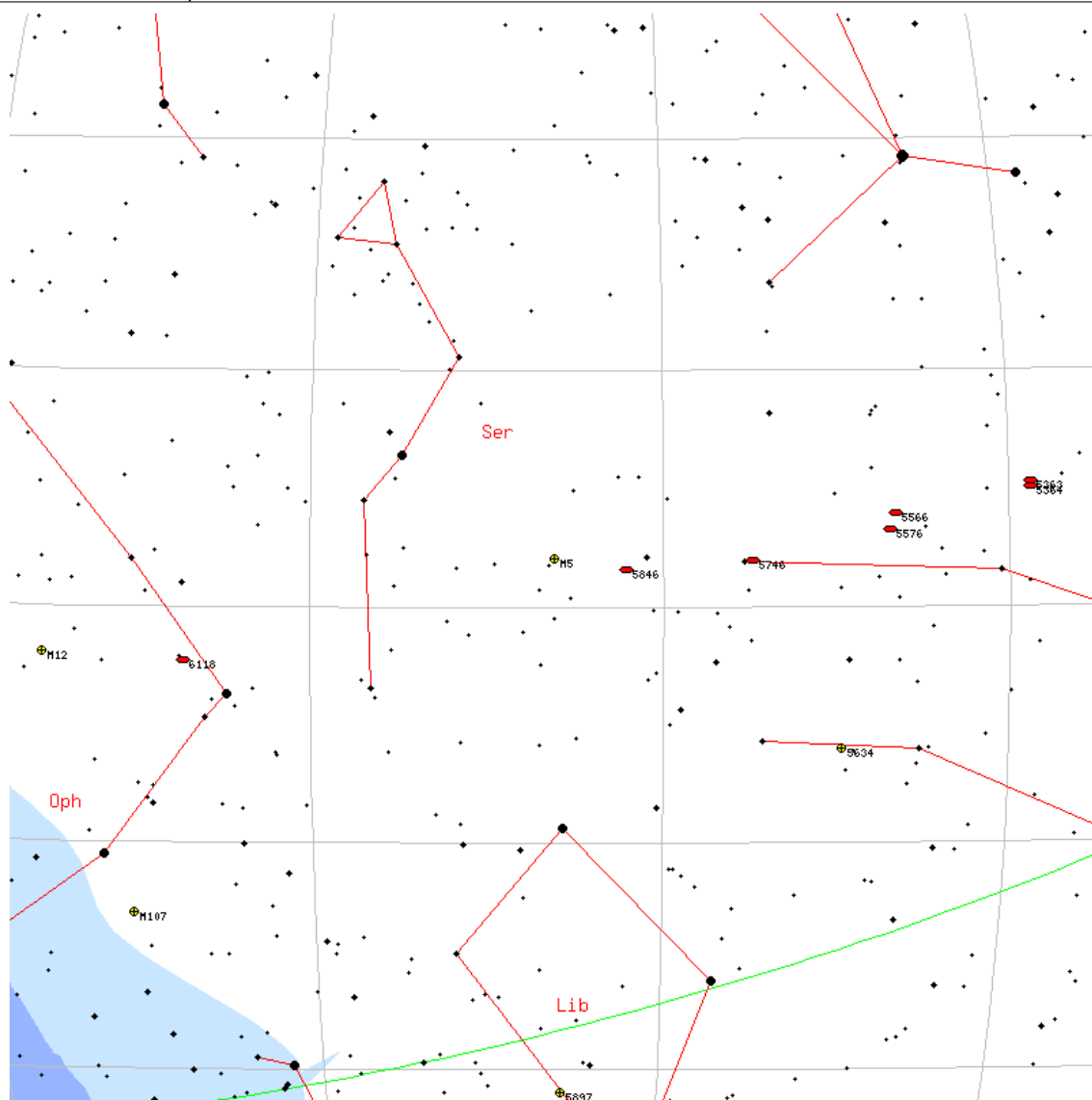
M	M2	ID	NGC7089
Constellation	Aqr	Type	Gb
Magnitude	6.5	Size	12.9 x 12.9
RA	21h 33m	Dec	-00d 49m
Name			
Description	!!, glob. cl. , B, vL, gpmbM, rrr, st eS		



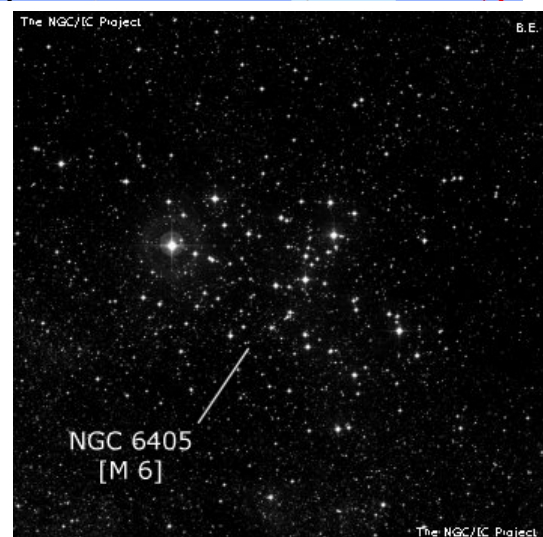
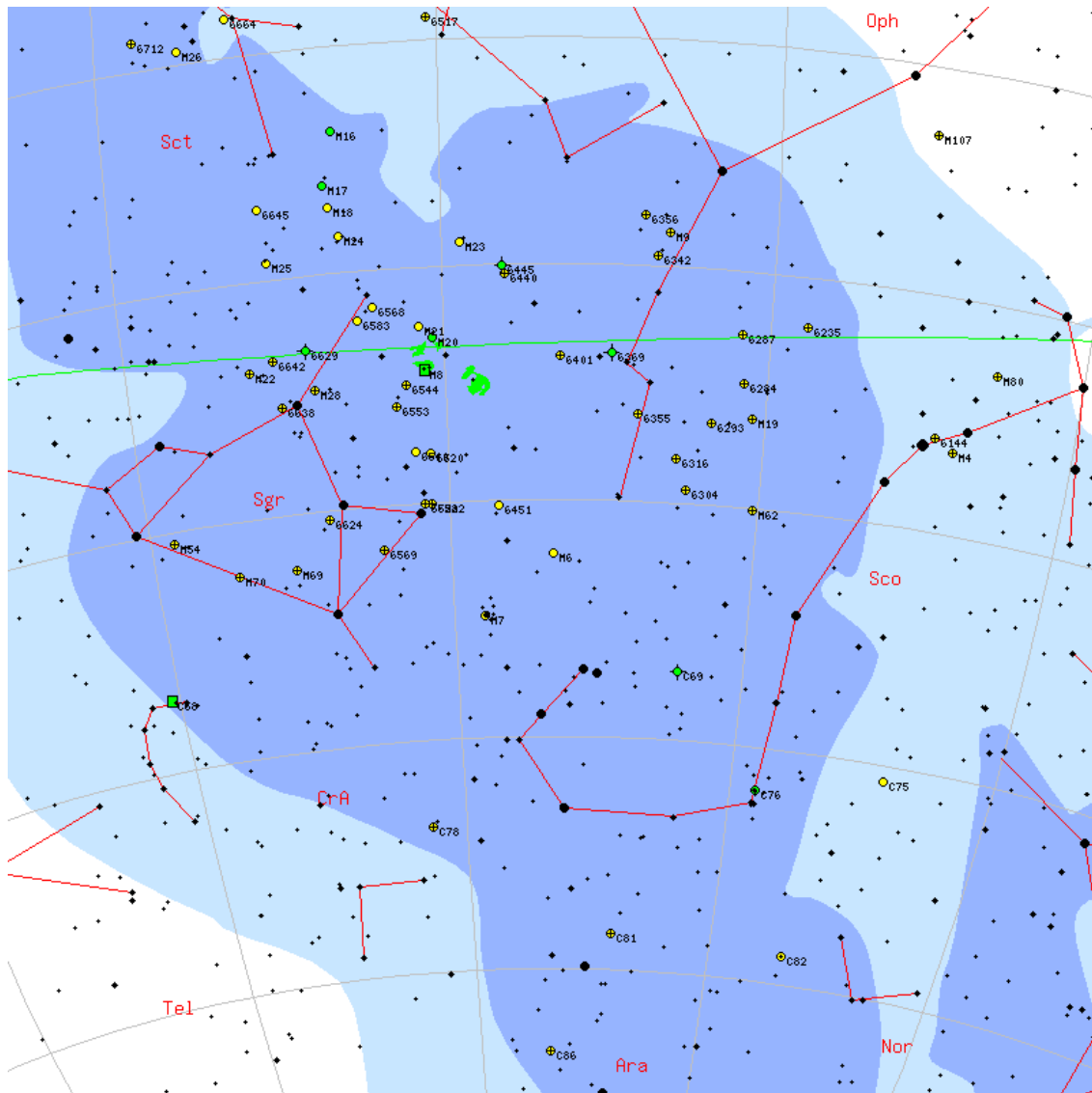
M	M3	ID	NGC5272
Constellation	CVn	Type	Gb
Magnitude	6.4	Size	16.2 x 16.2
RA	13h 42m	Dec	+28d 22m
Name			
Description	!!, glob. cl. , eB, vL, vsmbM, st 11...		



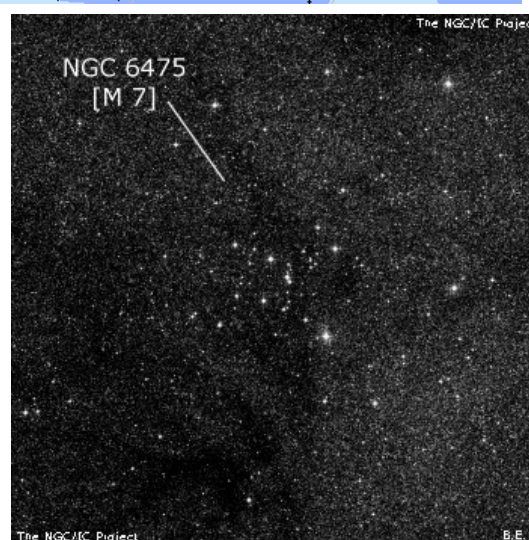
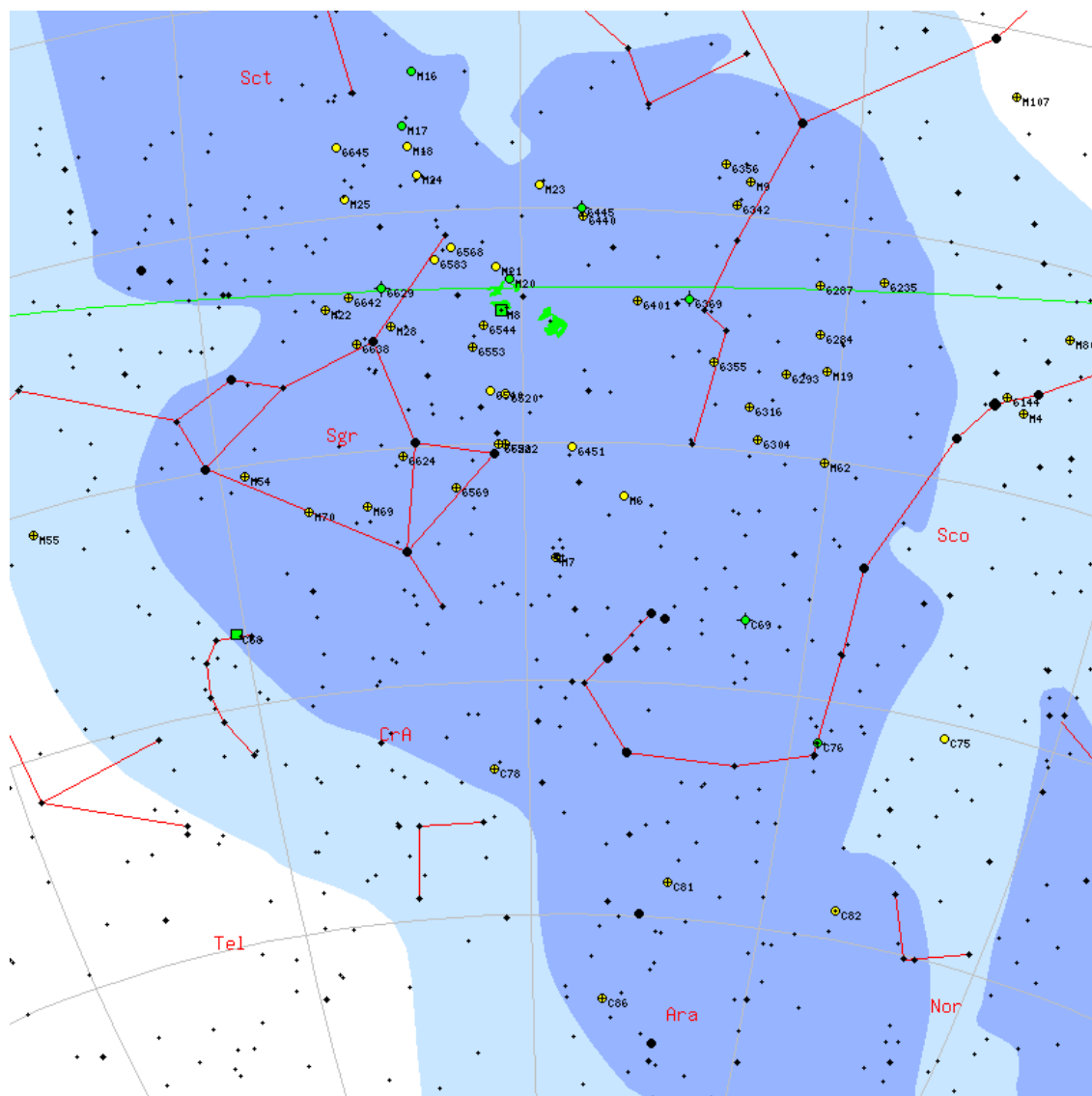
M	M5	ID	NGC5904
Constellation	Ser	Type	Gb
Magnitude	5.8	Size	17.4 x 17.4
RA	15h 18m	Dec	+02d 04m
Name			
Description	!!, glob. cl. , vB, L, eCM, st 11...15		



M	M6	ID	NGC6405
Constellation	Sco	Type	OC
Magnitude	4.2	Size	15 x 15
RA	17h 40m	Dec	-32d 13m
Name	Butterfly Cluster		
Description	Cl, L, iR, IC, st 7, 10...		

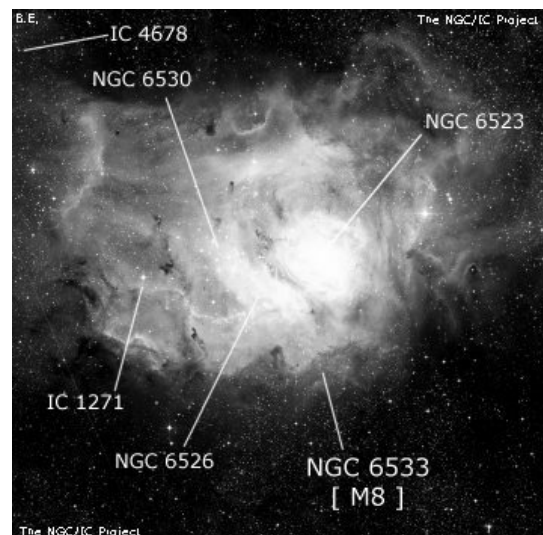
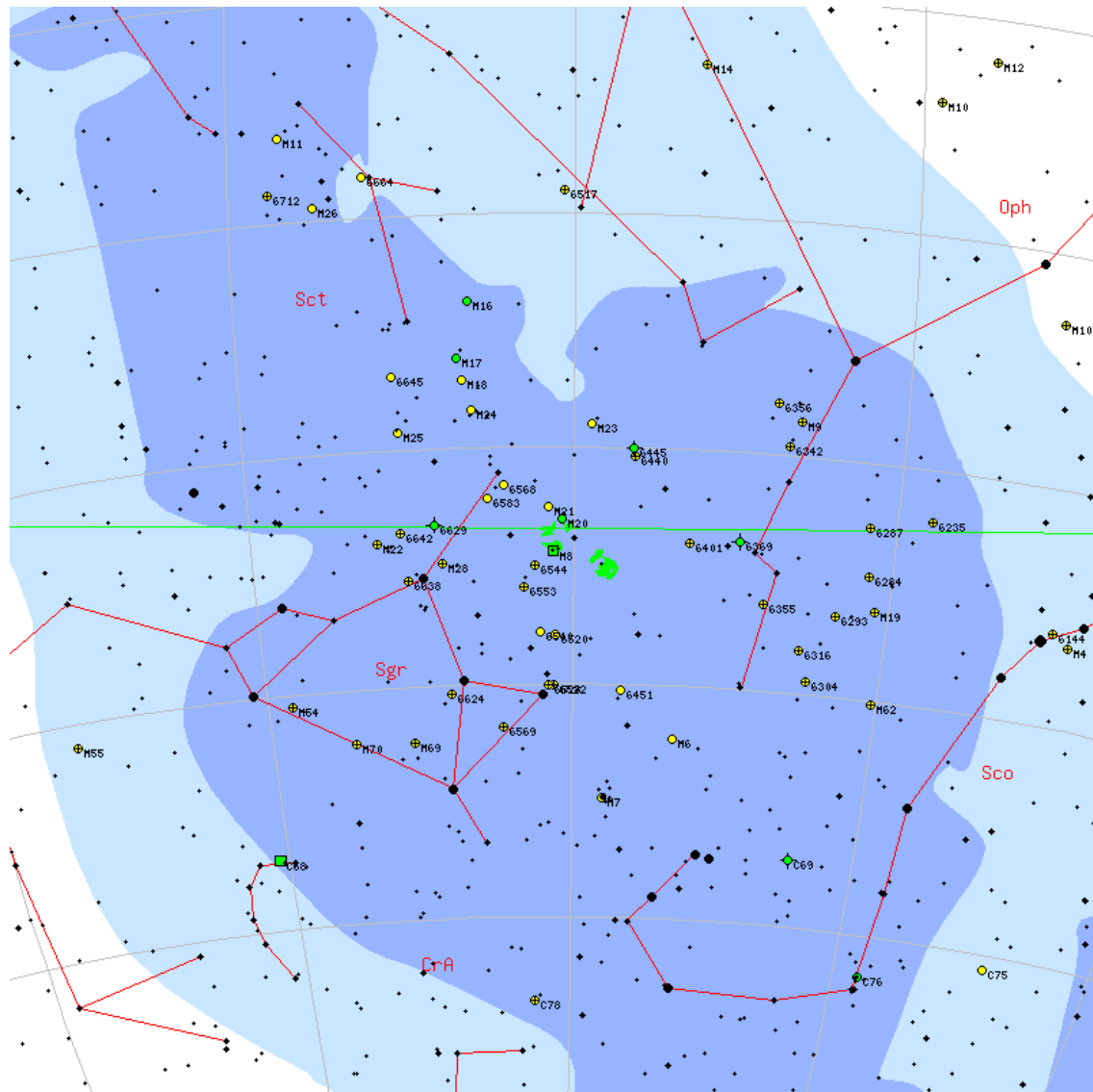


M	M7	ID	NGC6475
Constellation	Sco	Type	OC
Magnitude	3.3	Size	80 x 80
RA	17h 53m	Dec	-34d 49m
Name	Ptolemy's Cluster		
Description	Cl, vB, pRi, IC, st 7...12		

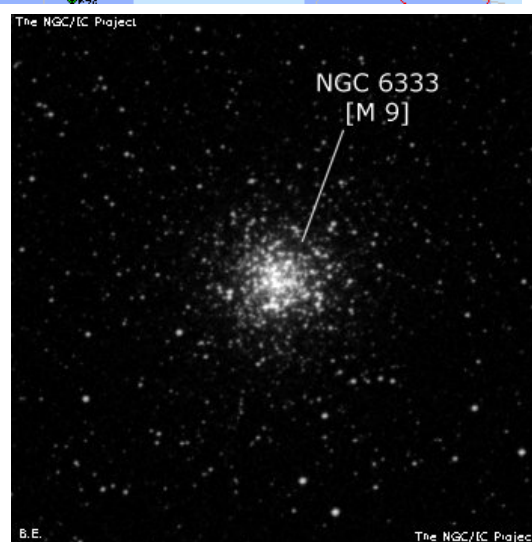
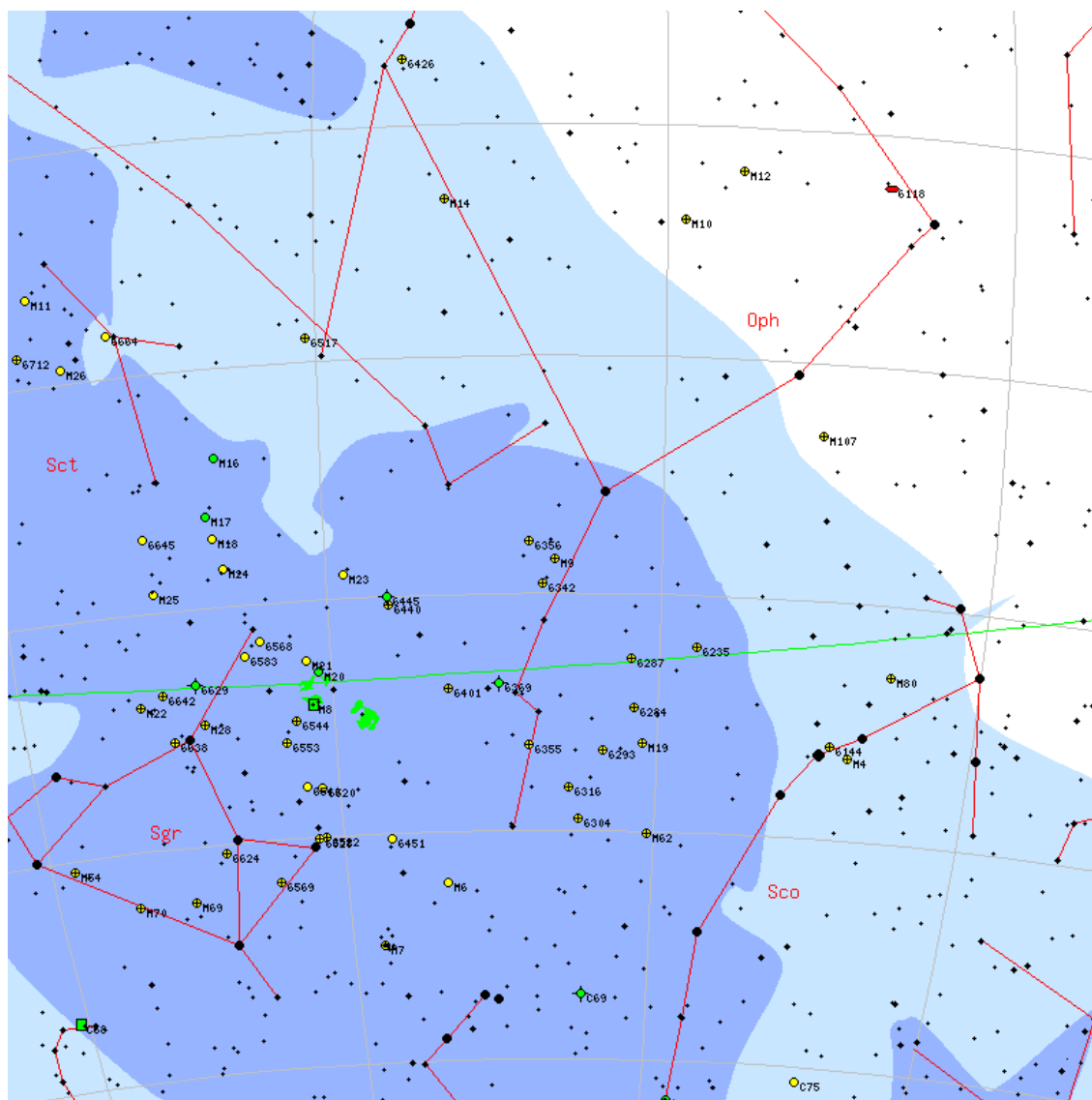


M8

M	M8	ID	NGC6523
Constellation	Sgr	Type	Nb
Magnitude	5.8	Size	90 x 90
RA	18h 03m	Dec	-24d 22m
Name	Lagoon Nebula/Hourglass Nebula		
Description	!!! vB, eL, eiF, with L Cl		

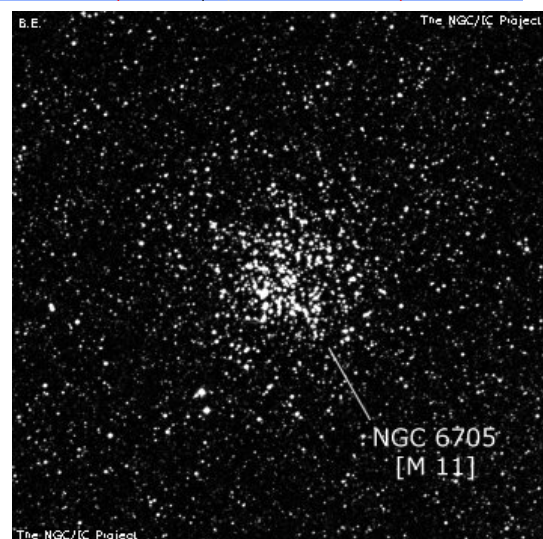
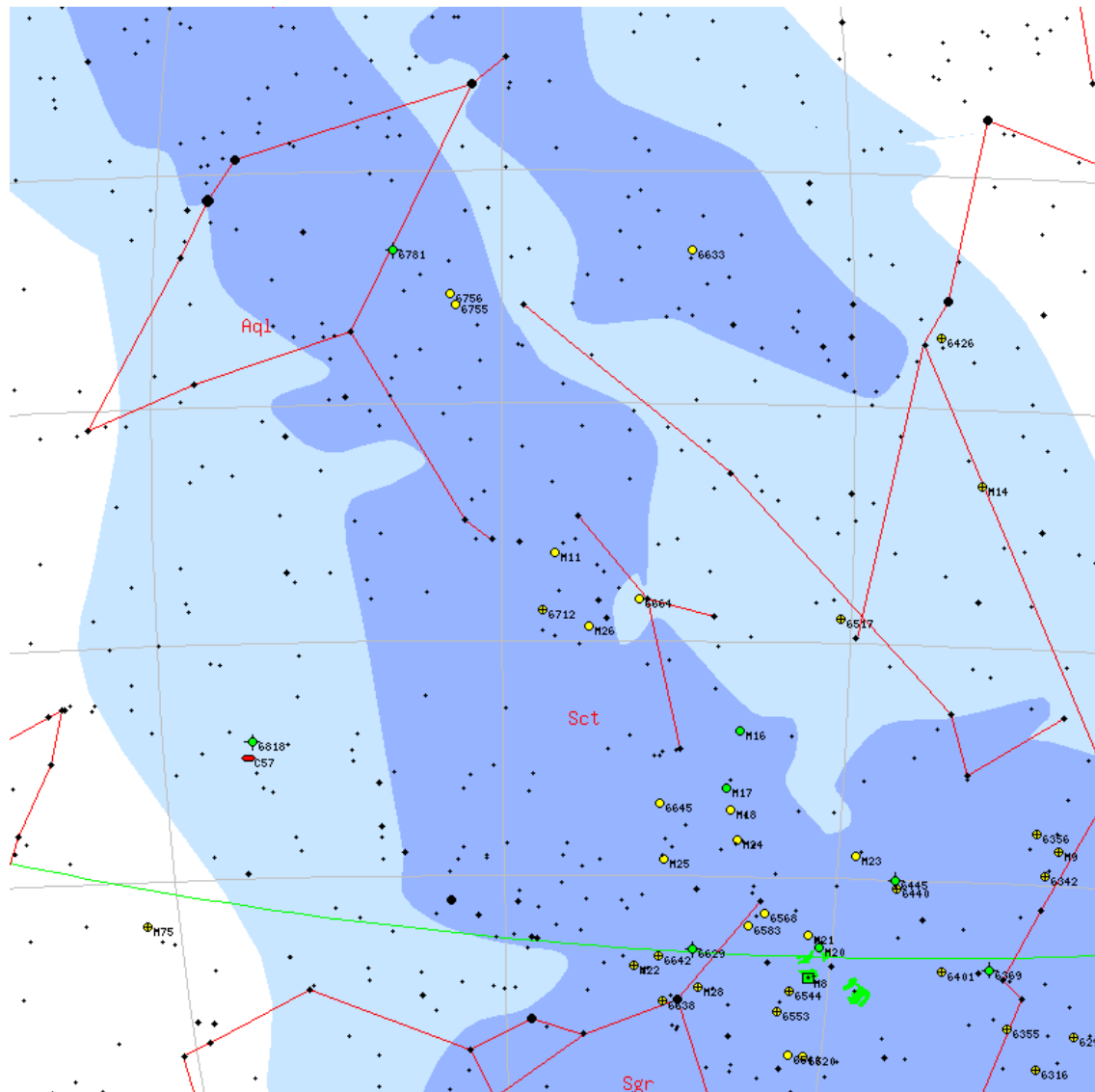


M	M9	ID	NGC6333
Constellation	Oph	Type	Gb
Magnitude	7.9	Size	9.3 x 9.3
RA	17h 19m	Dec	-18d 31m
Name			
Description	glob. cl. , B, L, R, eCM, rrr, st 14		

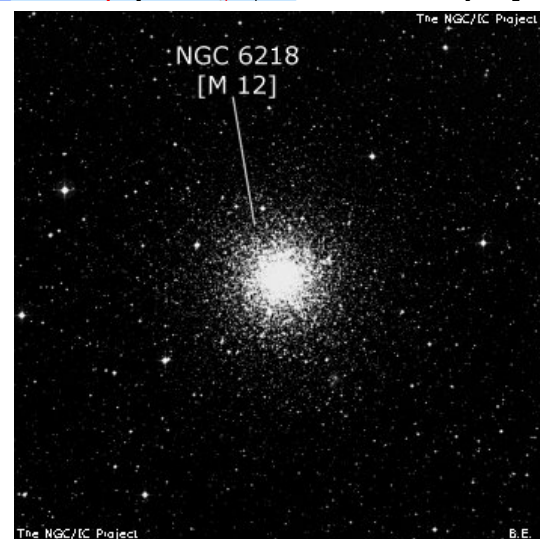
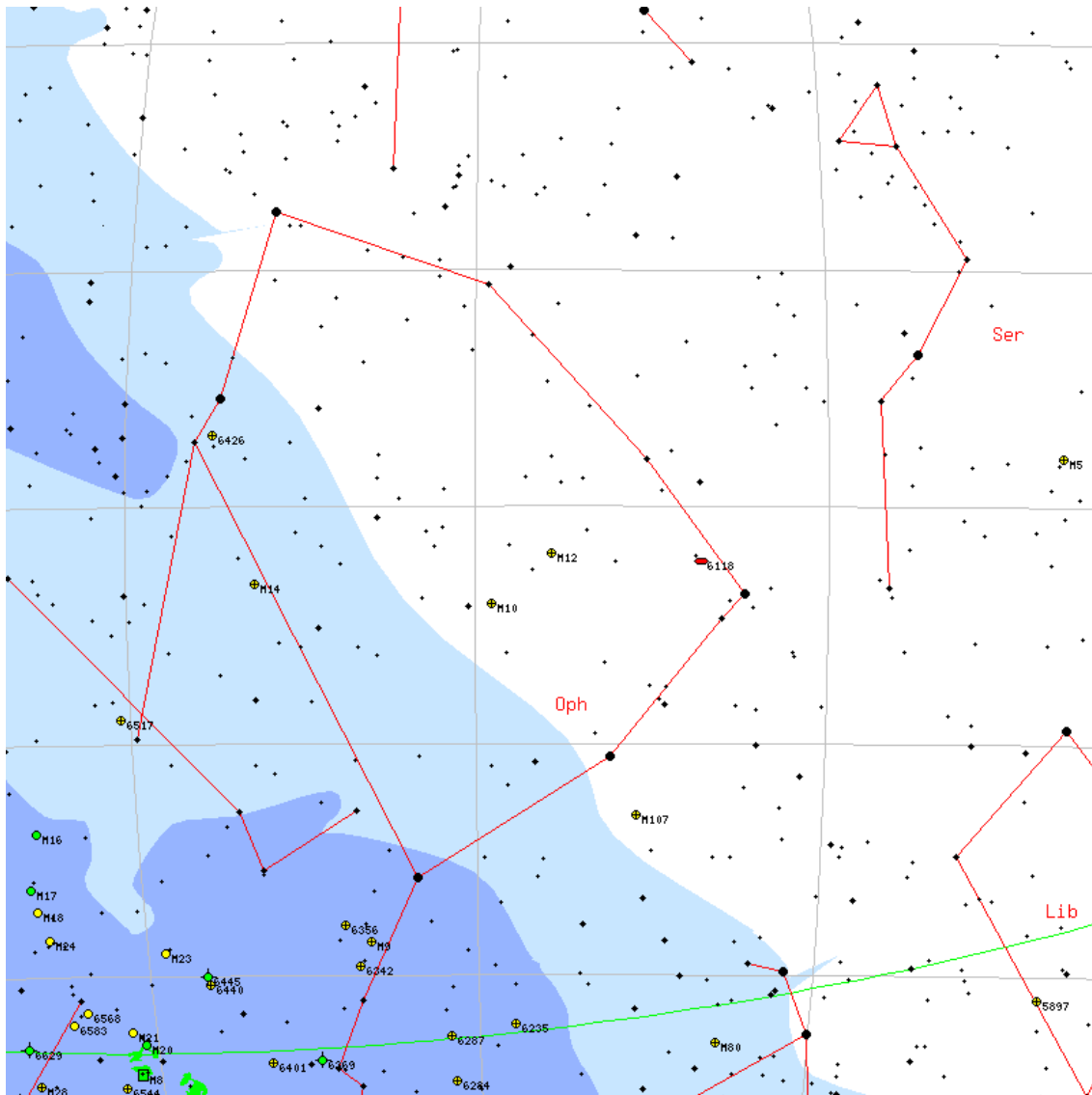




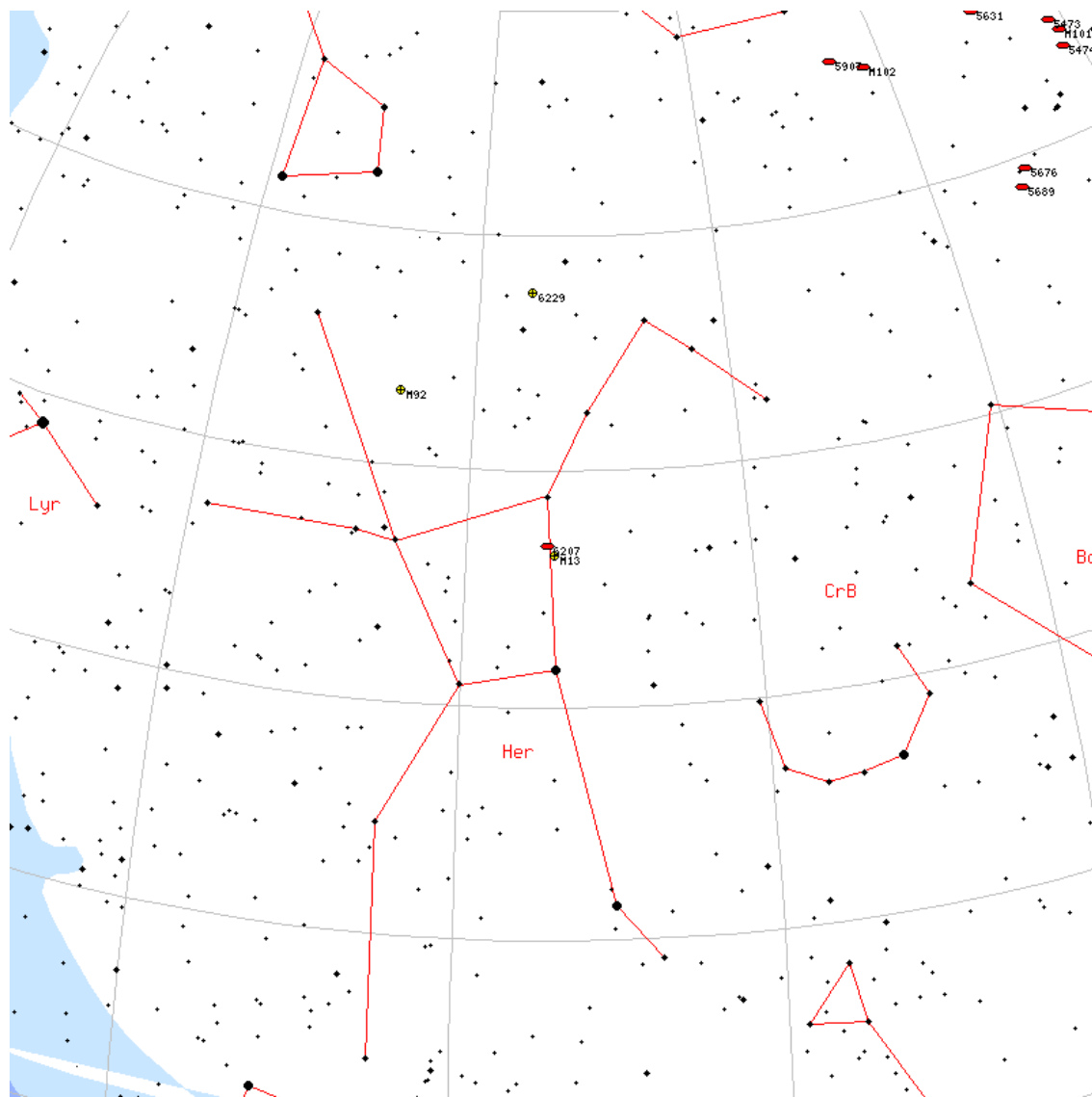
M	M11	ID	NGC6705
Constellation	Sct	Type	OC
Magnitude	5.8	Size	14 x 14
RA	18h 51m	Dec	-06d 16m
Name	Wild Duck Cluster		
Description	!, Cl, vB, L, iR, Ri, *9, st 11...		



M	M12	ID	NGC6218
Constellation	Oph	Type	Gb
Magnitude	6.6	Size	14.5 x 14.5
RA	16h 47m	Dec	-01d 57m
Name			
Description	!! glob. cl. , vB, vL, iR, gmbM, rrr, st 10...; =		

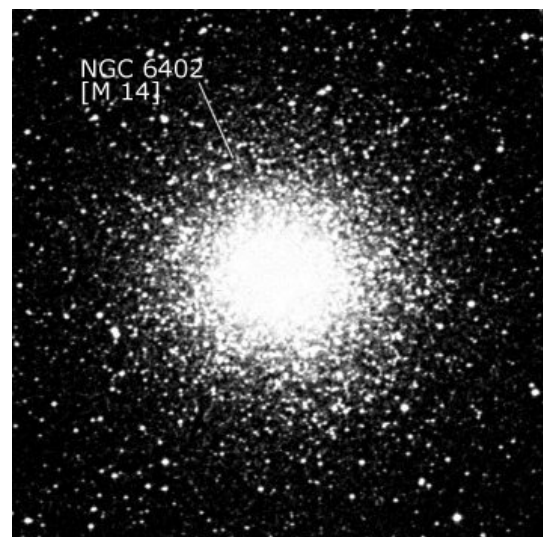
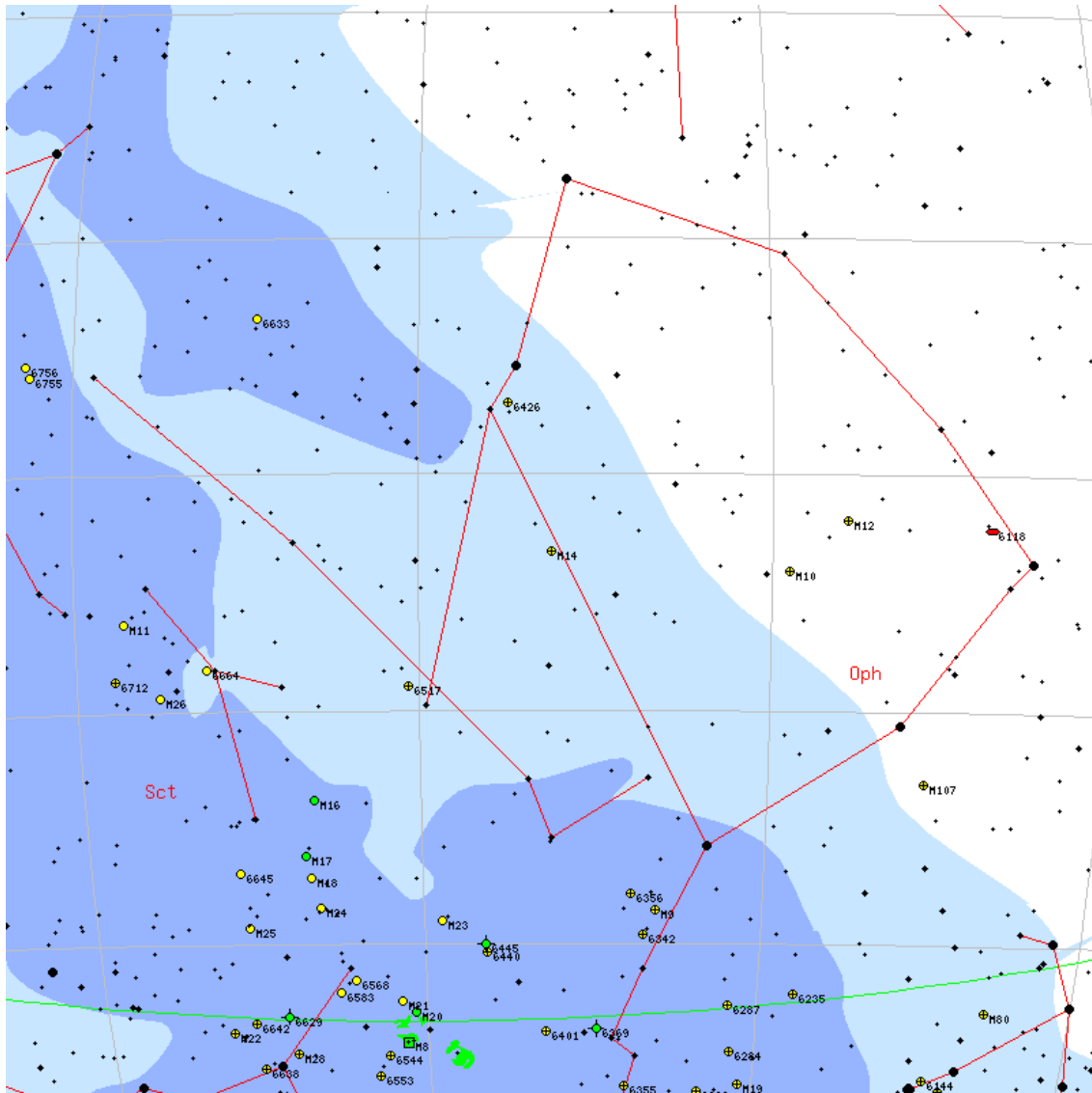


M	M13	ID	NGC6205
Constellation	Her	Type	Gb
Magnitude	5.9	Size	16.6 x 16.6
RA	16h 41m	Dec	+36d 28m
Name	Great Cluster In Hercules		
Description	!! glob. cl. , eB, vRi, vgeCM, st 11...		

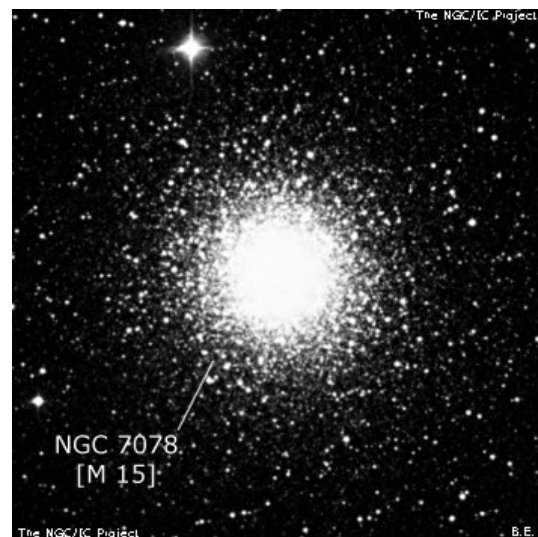
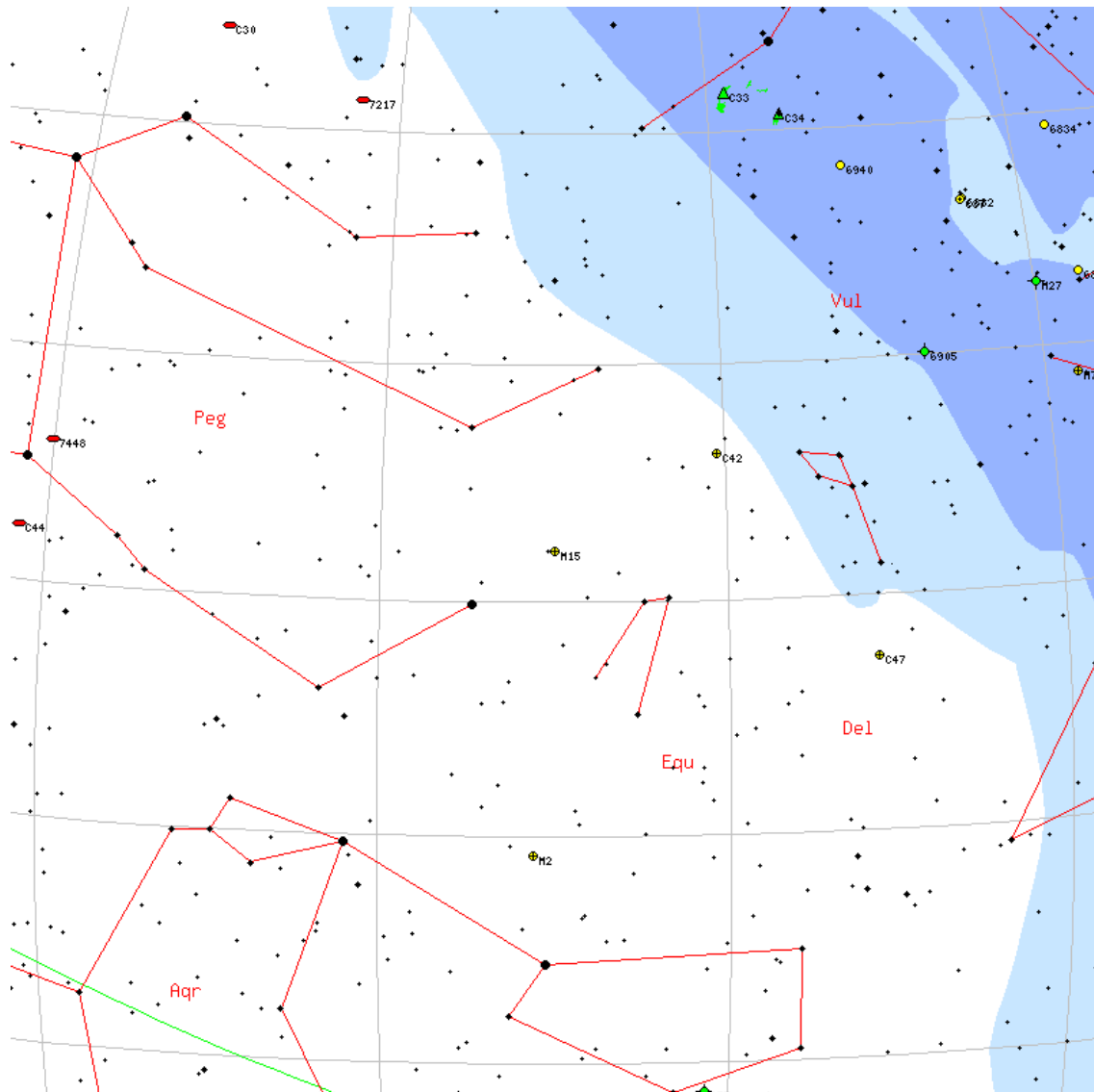


M14

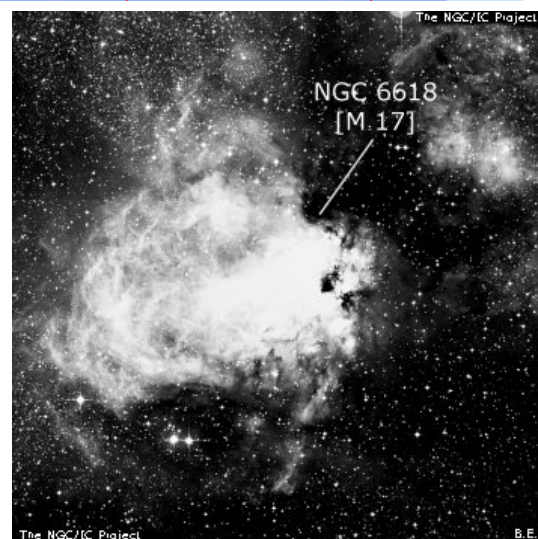
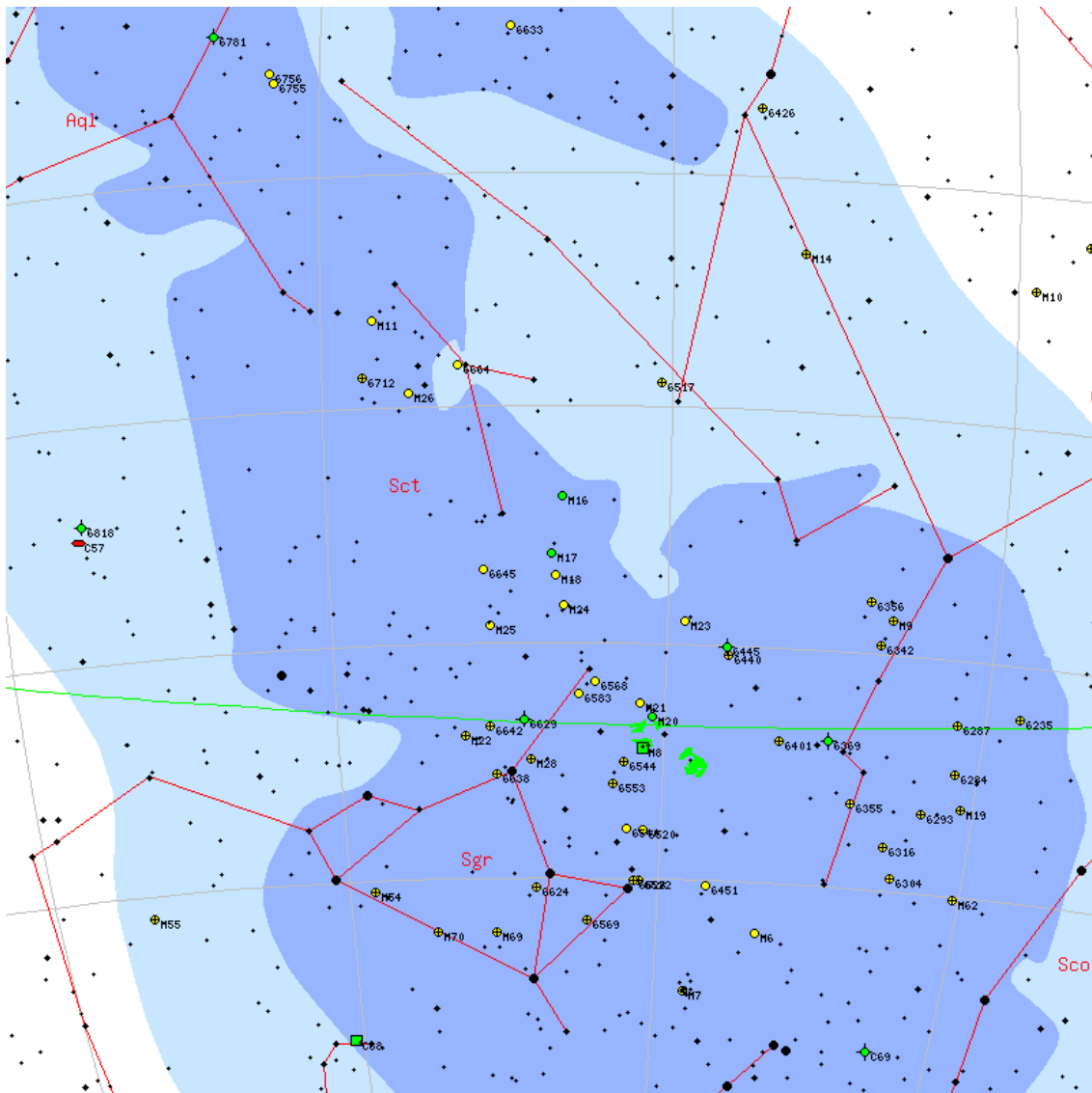
M	M14	ID	NGC6402
Constellation	Oph	Type	Gb
Magnitude	7.6	Size	11.7 x 11.7
RA	17h 37m	Dec	-03d 15m
Name			
Description	! glob. cl. , B, vL, R, eRi, vgmbM, rrr, st 15; =		



M	M15	ID	NGC7078
Constellation	Peg	Type	Gb
Magnitude	6.4	Size	12.3 x 12.3
RA	21h 30m	Dec	+12d 10m
Name			
Description	!, glob. cl. , vB, vL, iR, vsmbM, rrr, st vS		

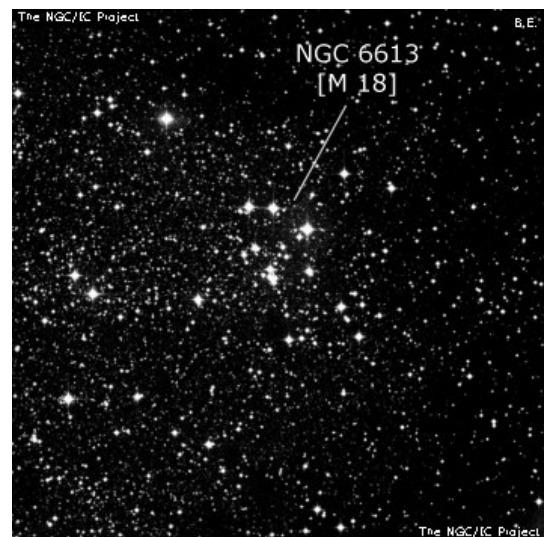
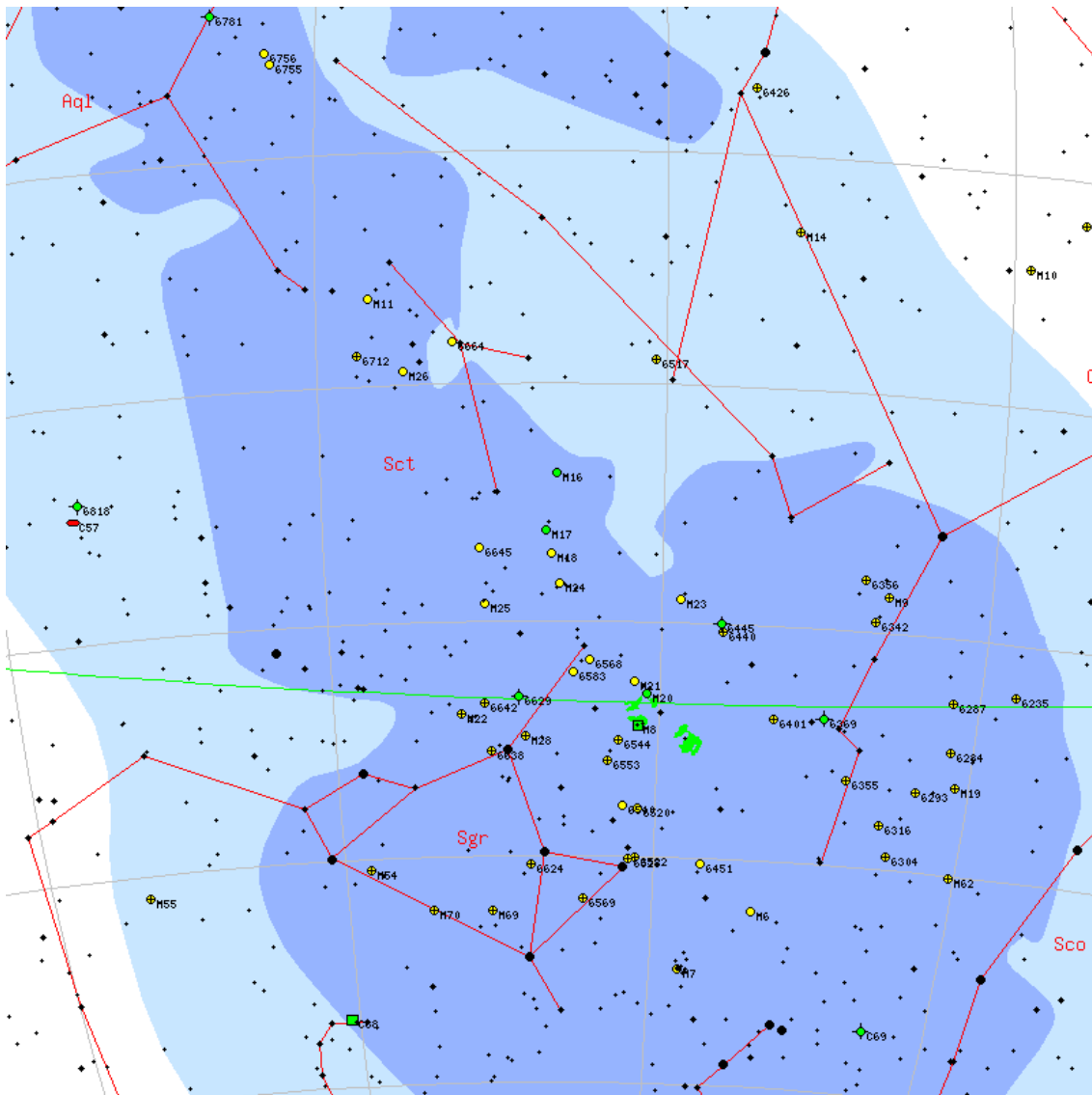


M	M17	ID	NGC6618
Constellation	Sgr	Type	CN
Magnitude	6	Size	46 x 46
RA	18h 20m	Dec	-16d 10m
Name	Omega Nebula/Checkmark Nebula/Swan Nebula/Horseshoe Nebula		
Description	!!!, B, eL, eiF, 2 hooked		

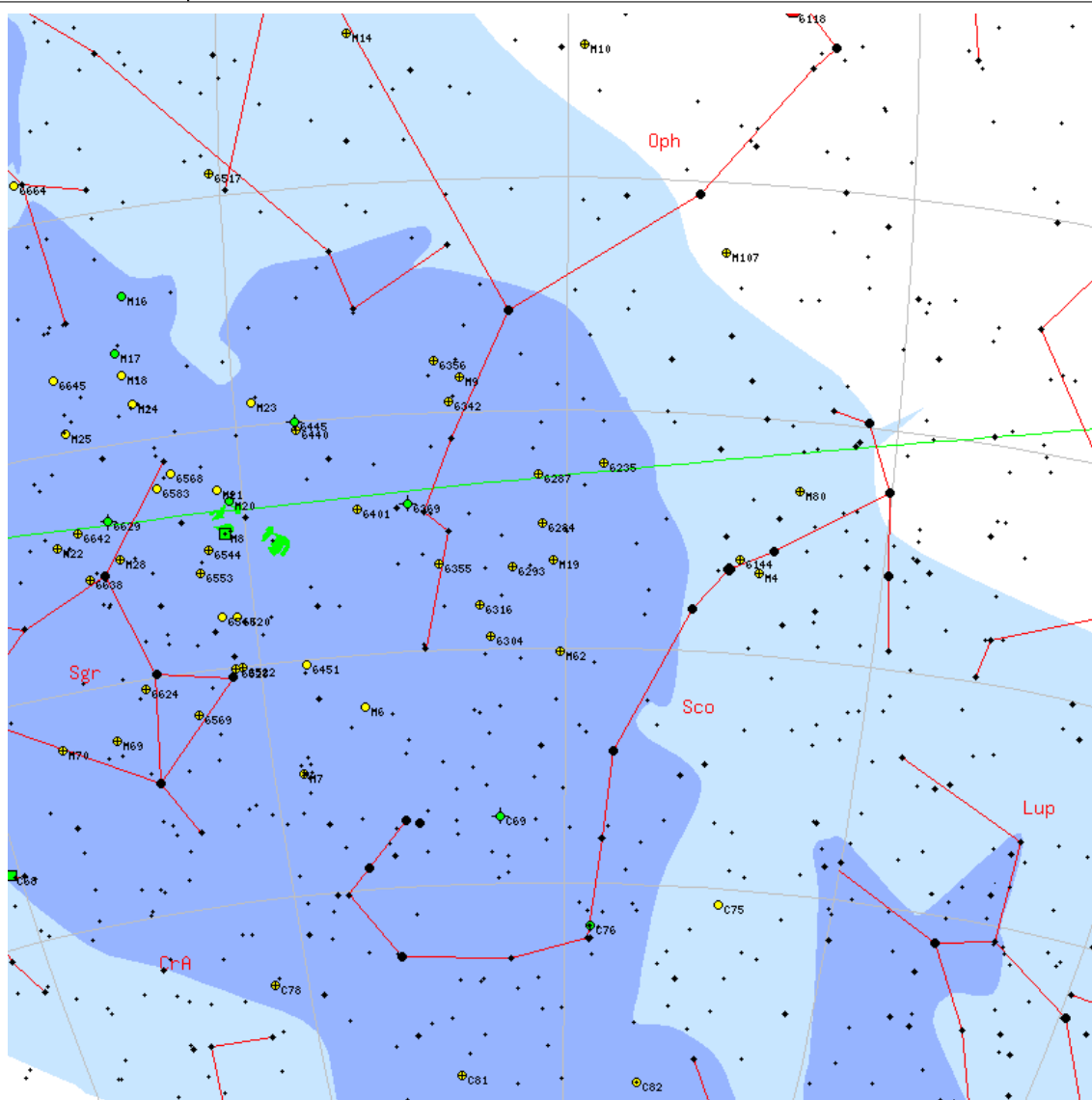


M18

M	M18	ID	NGC6613
Constellation	Sgr	Type	OC
Magnitude	6.9	Size	9 x 9
RA	18h 19m	Dec	-17d 07m
Name			
Description	Cl, P, vC		

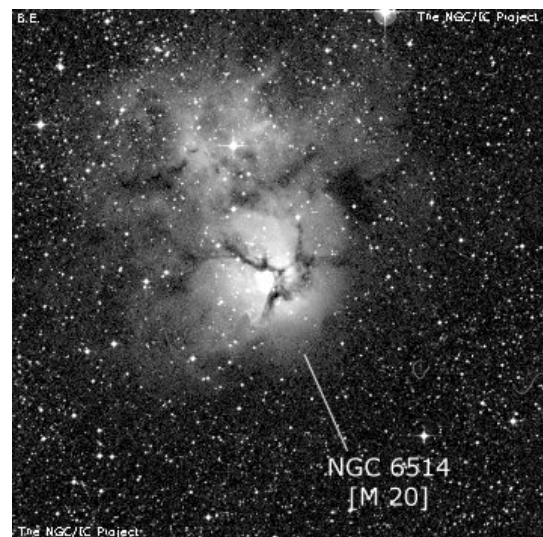
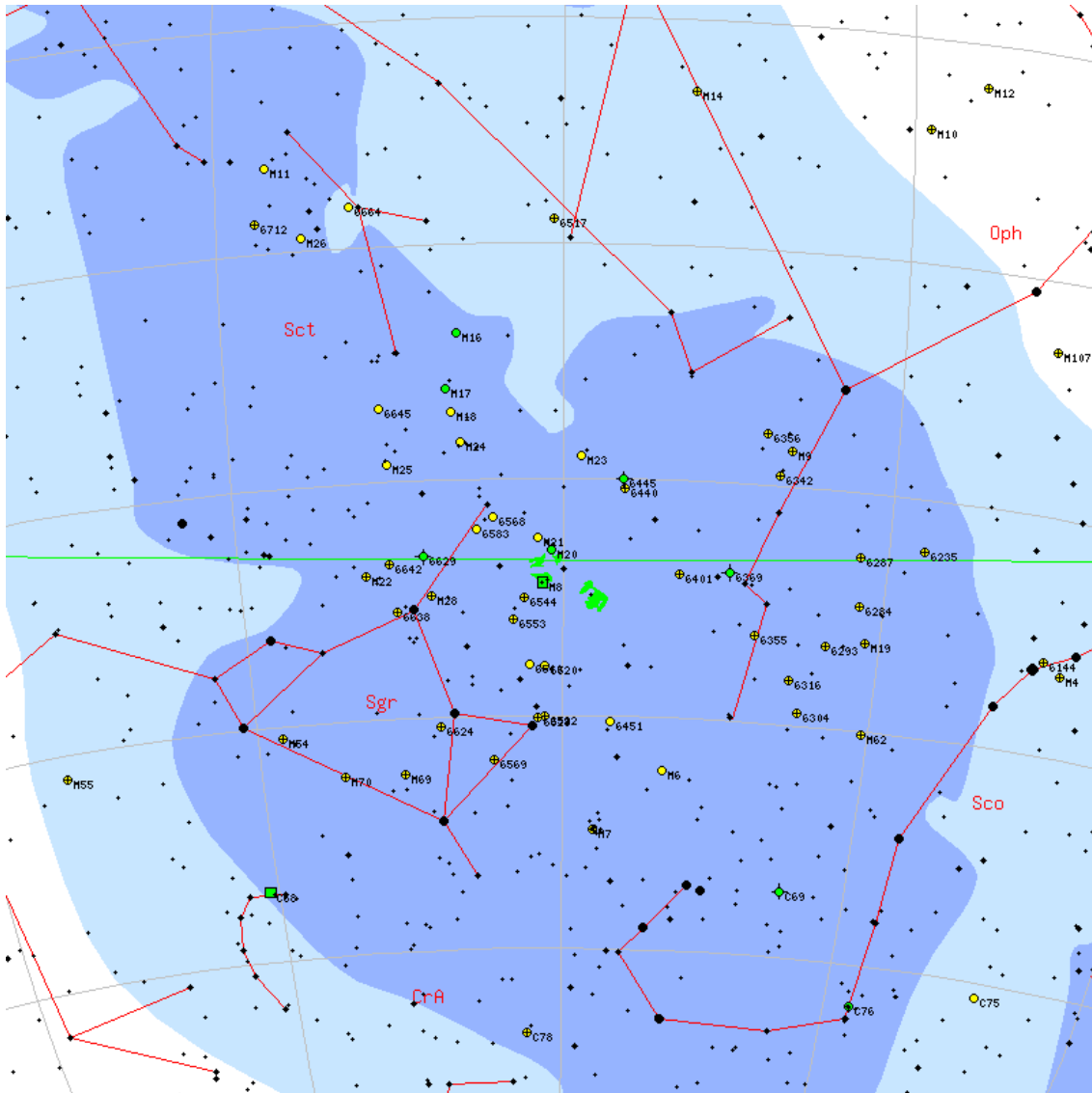


M	M19	ID	NGC6273
Constellation	Oph	Type	Gb
Magnitude	7.2	Size	13.5 x 13.5
RA	17h 02m	Dec	-26d 16m
Name			
Description	glob. cl. , vB, L, R, vCM, rrr, st 16		

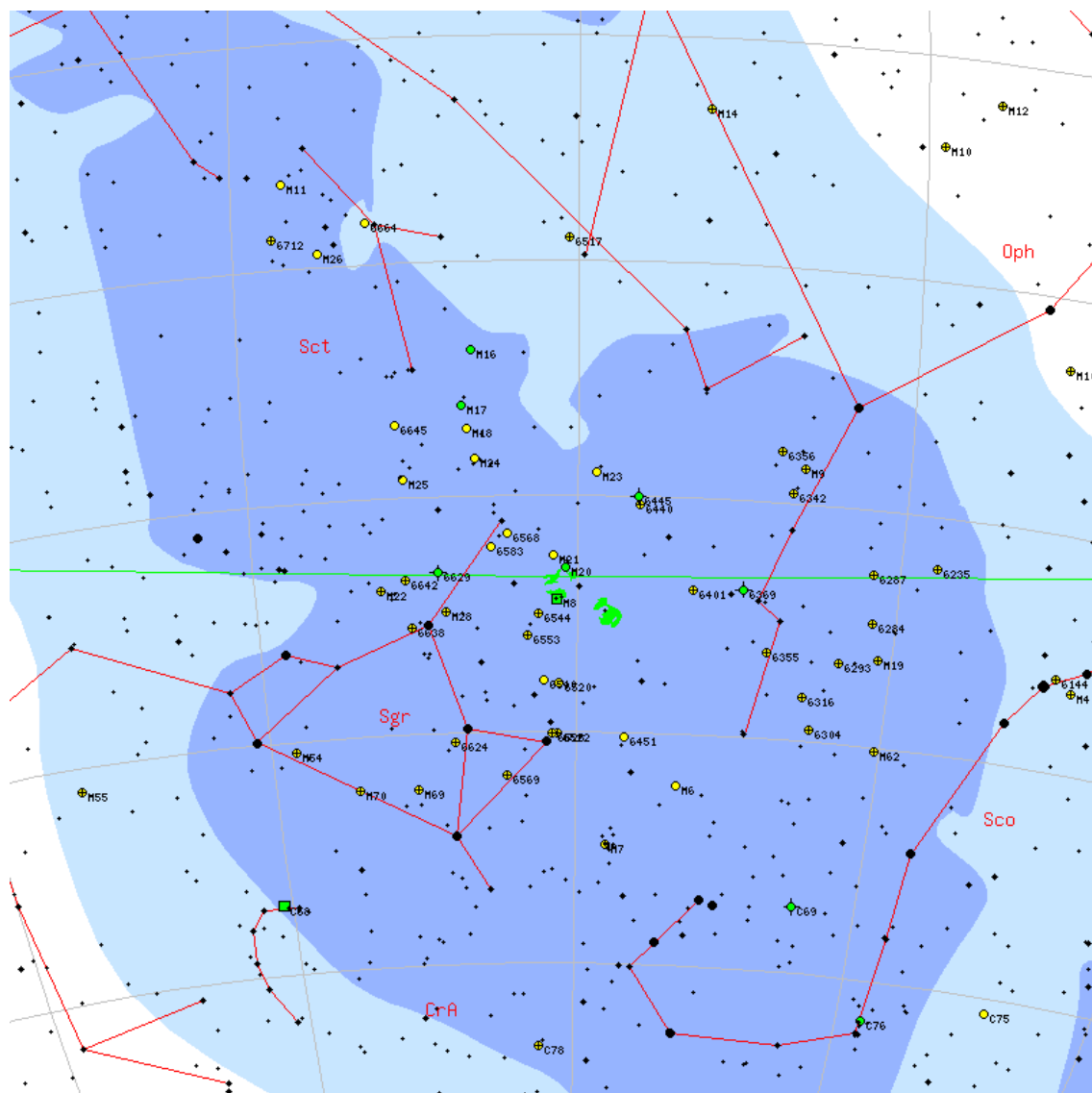


M20

M	M20	ID	NGC6514
Constellation	Sgr	Type	CN
Magnitude	6.3	Size	29 x 29
RA	18h 02m	Dec	-23d 01m
Name	Trifid Nebula		
Description	!!! vB, vL, trifid, D* inv		

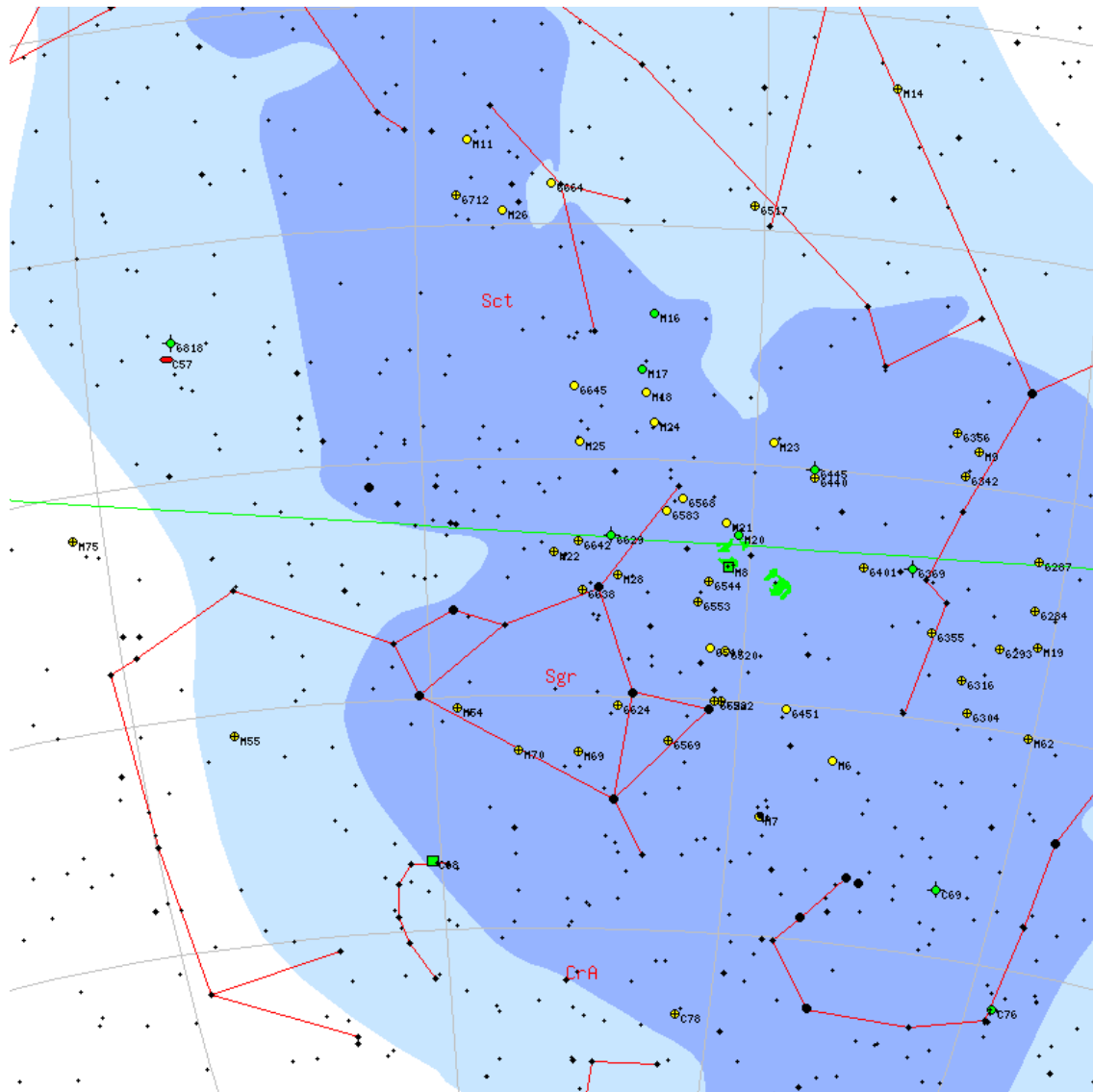


M	M21	ID	NGC6531
Constellation	Sgr	Type	OC
Magnitude	5.9	Size	13 x 13
RA	18h 04m	Dec	-22d 30m
Name			
Description	Cl, pRi, IC, st 9...12		

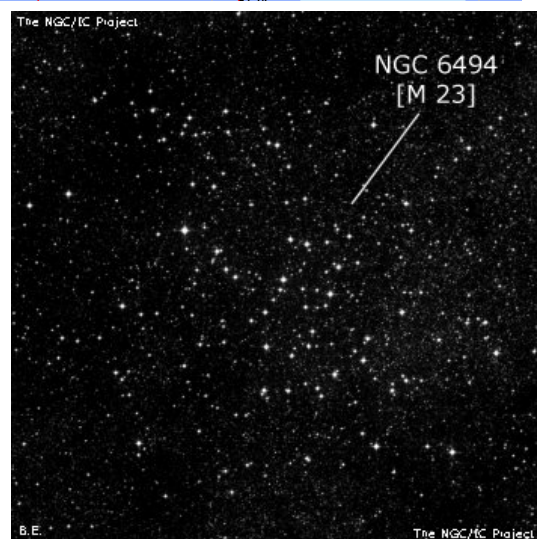
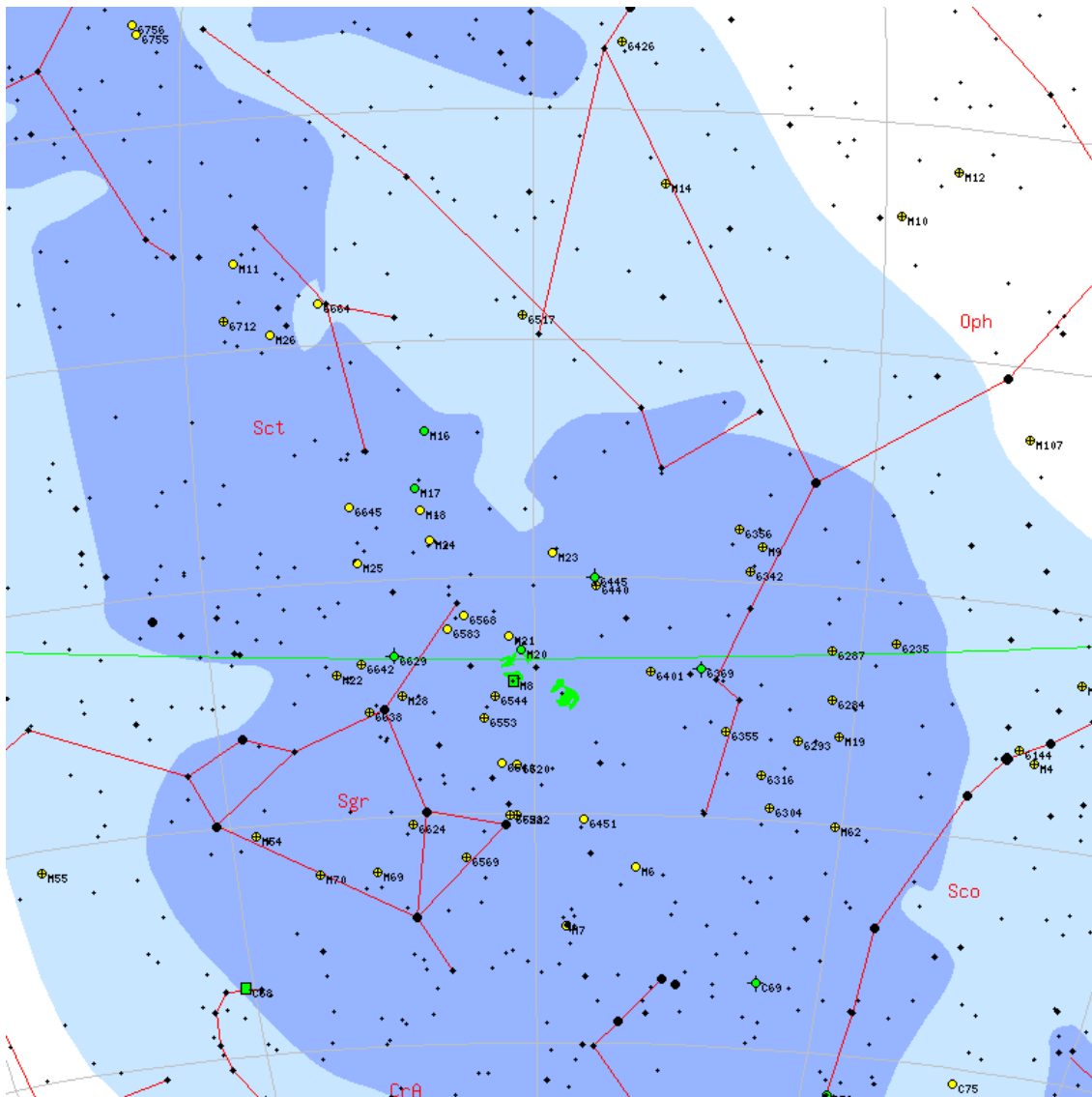


M22

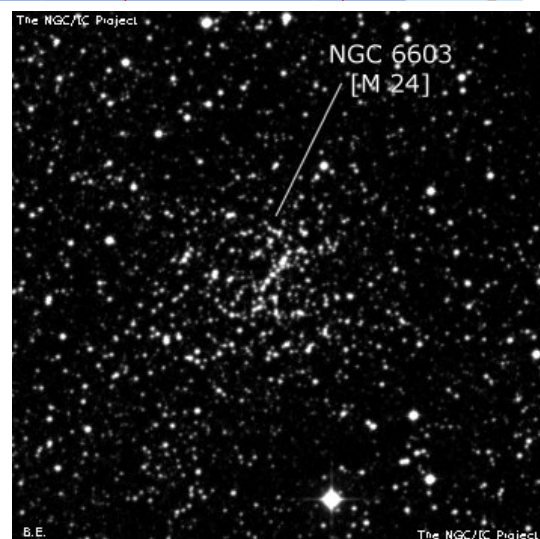
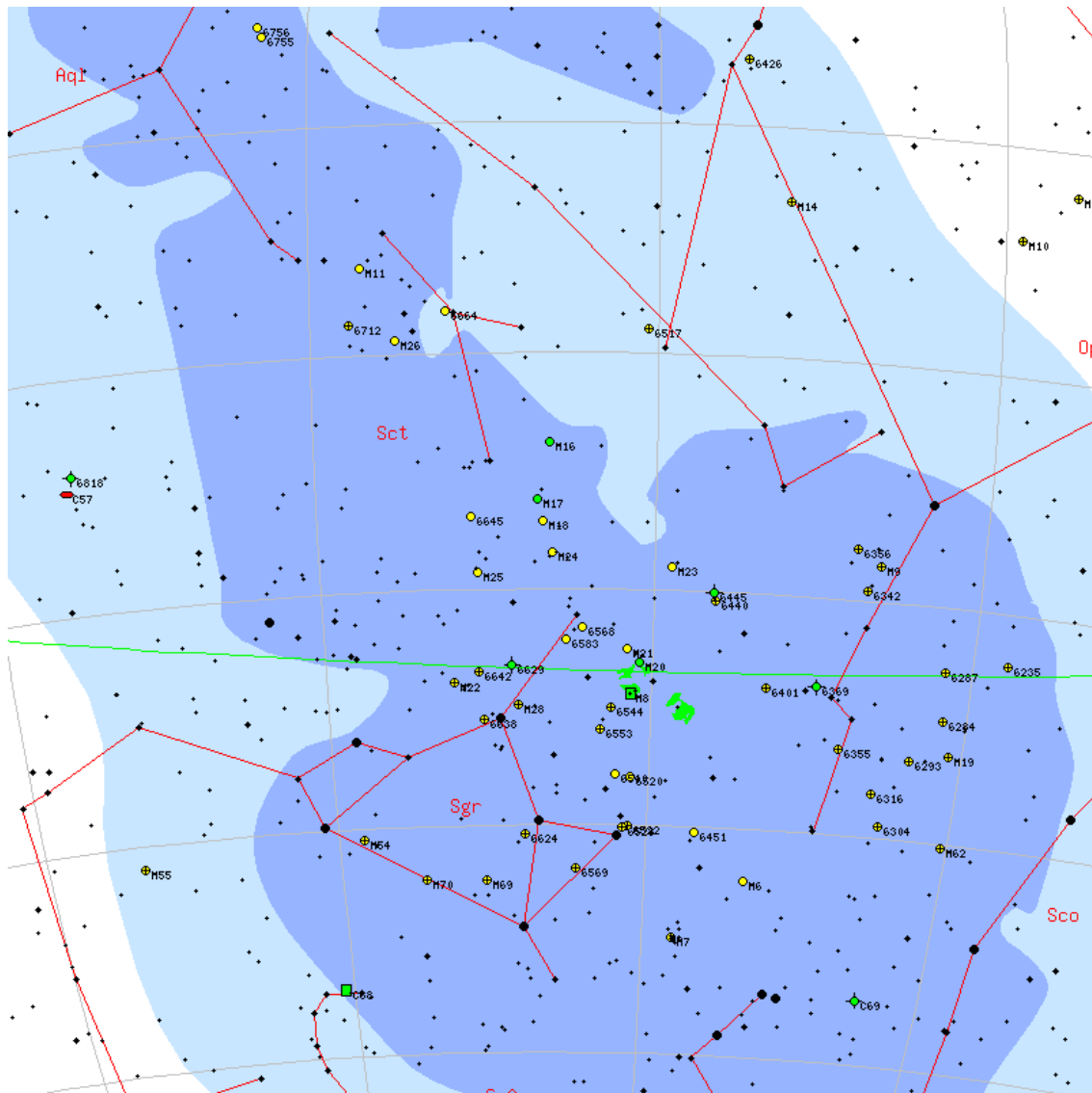
M	M22	ID	NGC6656
Constellation	Sgr	Type	Gb
Magnitude	5.1	Size	24 x 24
RA	18h 36m	Dec	-23d 53m
Name			
Description	!!, glob. cl. , vB, vL, R, vRi, vmC, st 11...15; M		



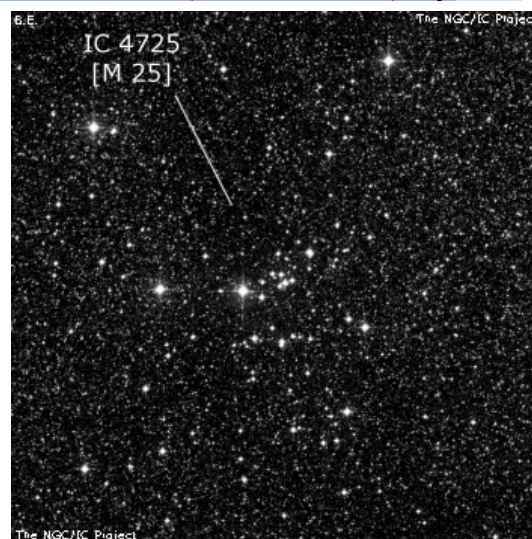
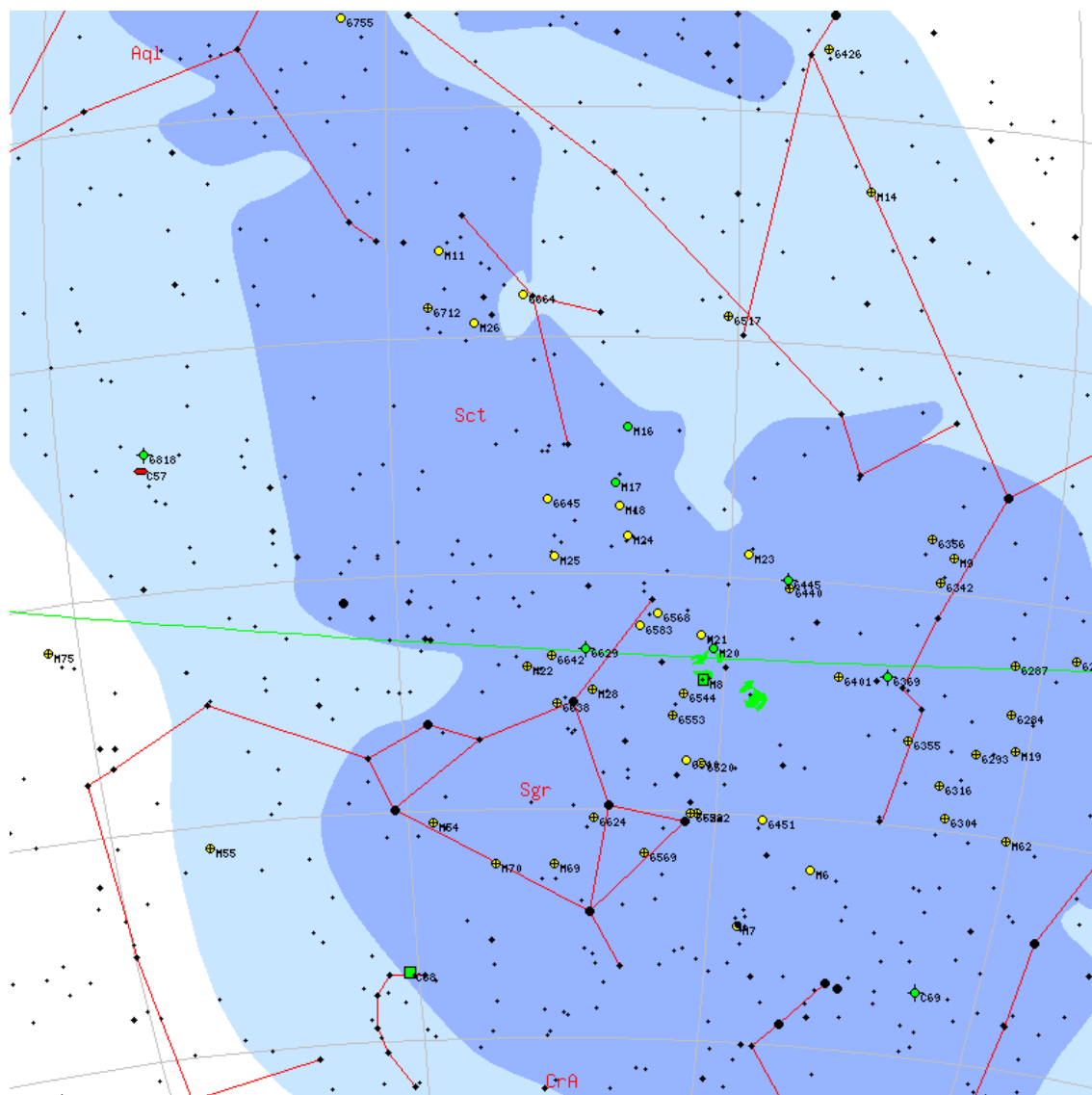
M	M23	ID	NGC6494
Constellation	Sgr	Type	OC
Magnitude	5.5	Size	27 x 27
RA	17h 56m	Dec	-19d 01m
Name			
Description	Cl, B, vL, pRi, IC, st 10...		



M	M24	ID	NGC6603
Constellation	Sgr	Type	OC
Magnitude	11	Size	5 x 5
RA	18h 18m	Dec	-18d 25m
Name	Milky Way Patch/Delle Caustiche		
Description	!, Cl, vRi, vmC, R, st 15 (Milky Way)		

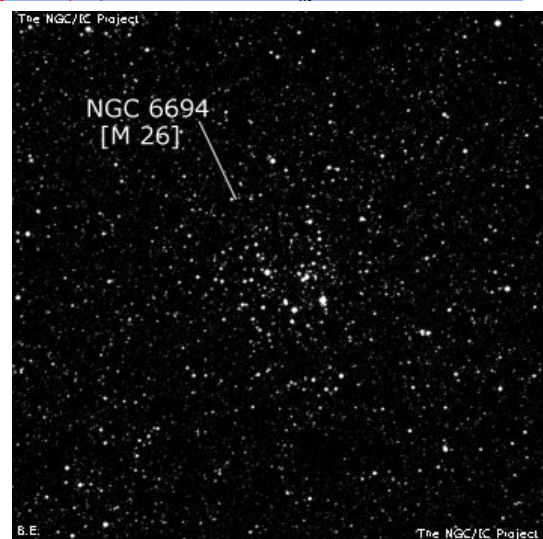
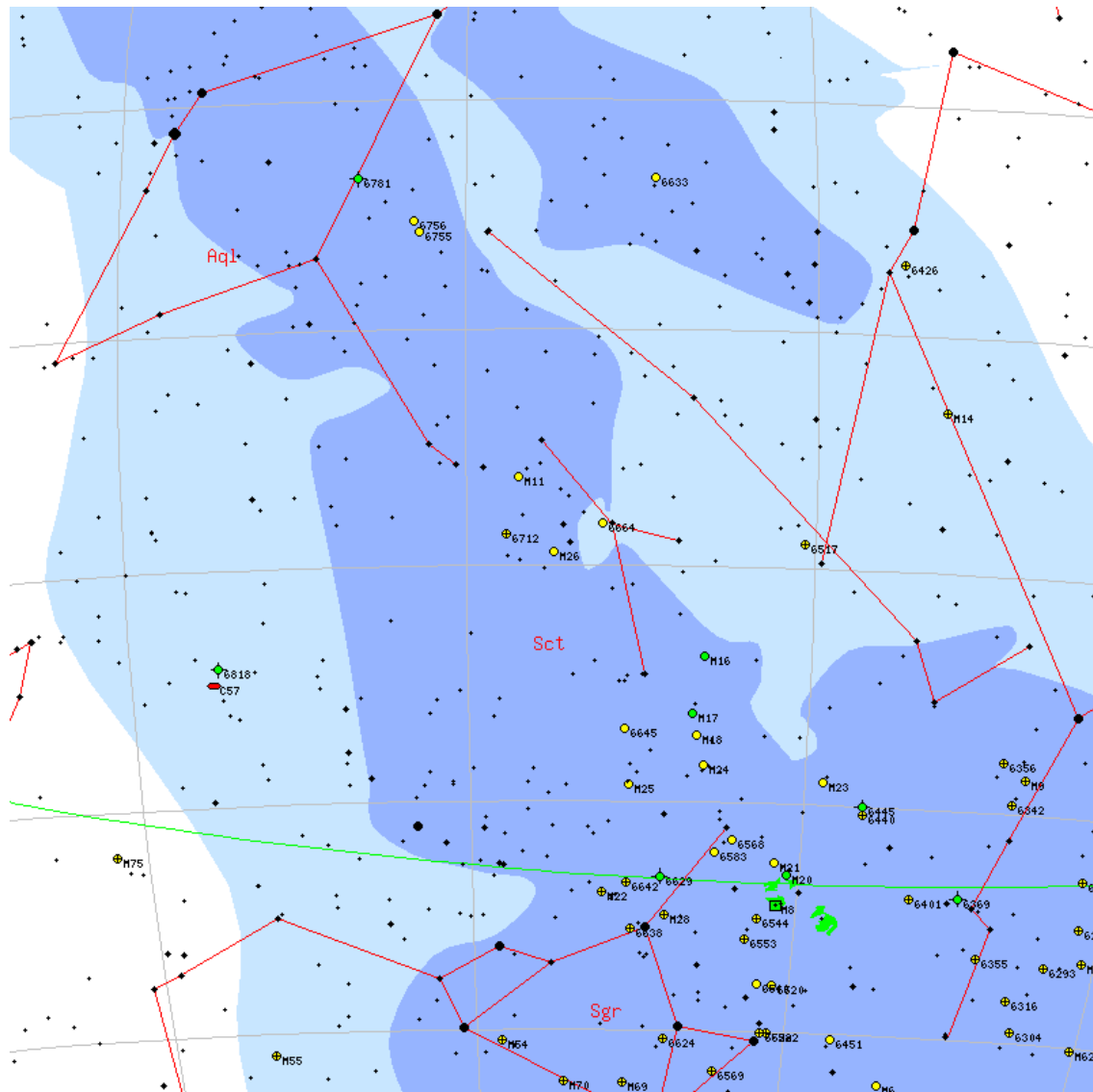


M	M25	ID	IC4725
Constellation	Sgr	Type	OC
Magnitude	4.6	Size	32 x 32
RA	18h 31m	Dec	-19d 15m
Name			
Description	Cl, pC		

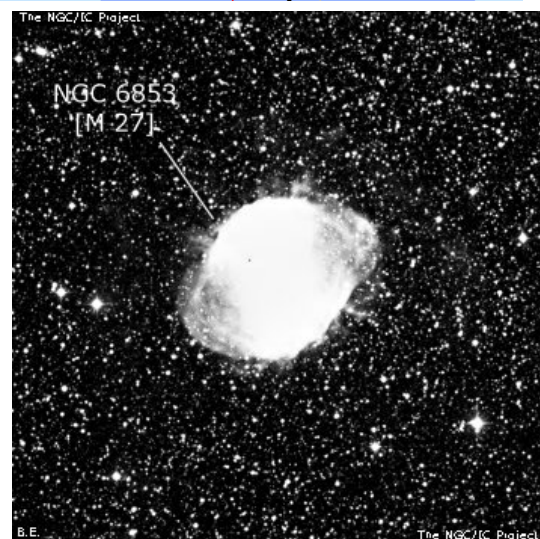
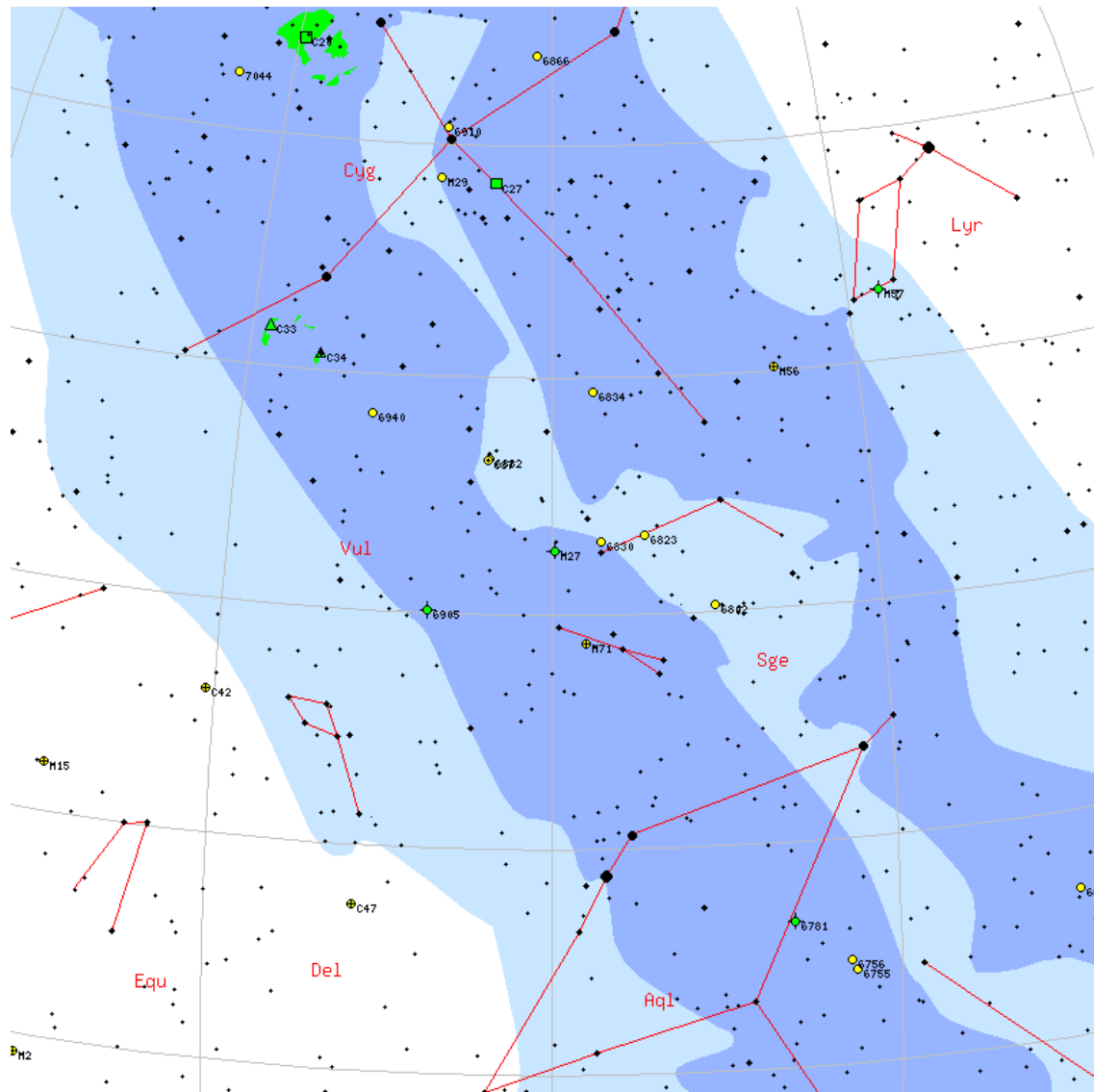


M26

M	M26	ID	NGC6694
Constellation	Sct	Type	OC
Magnitude	8	Size	15 x 15
RA	18h 45m	Dec	-09d 24m
Name			
Description	Cl, cL, pRi, pC, st 12...15		

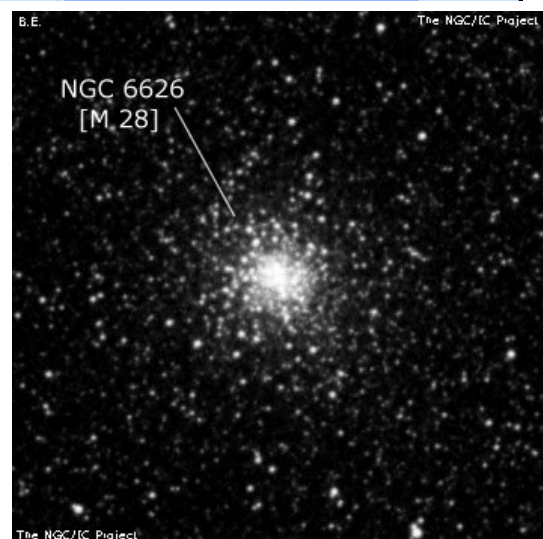
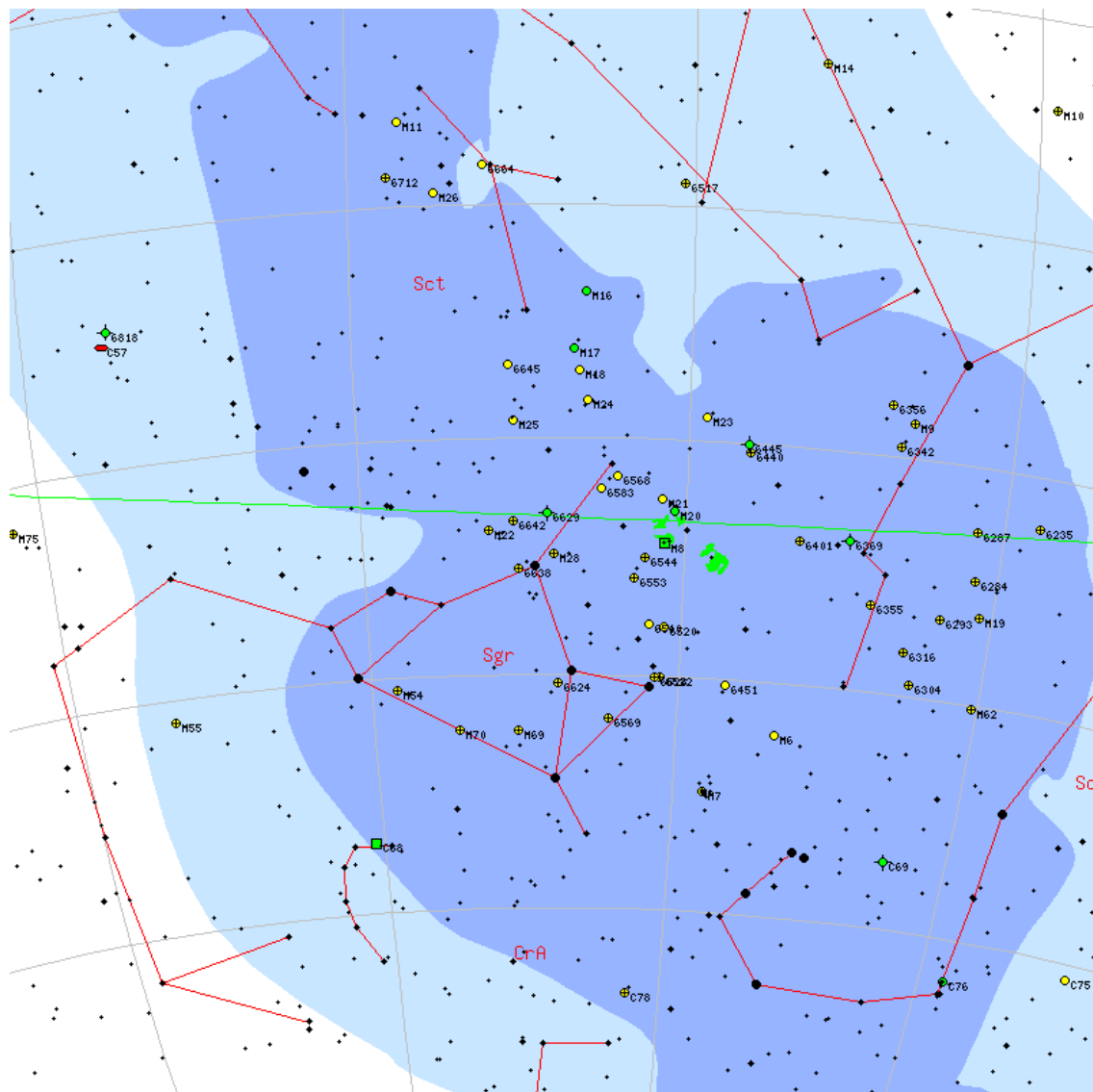


M	M27	ID	NGC6853
Constellation	Vul	Type	PI
Magnitude	8.1	Size	15.2 x 15.2
RA	20h 00m	Dec	+22d 43m
Name	Dumbbell Nebula		
Description	!!!, vB, vL, biN, iE (Dumbbell)		

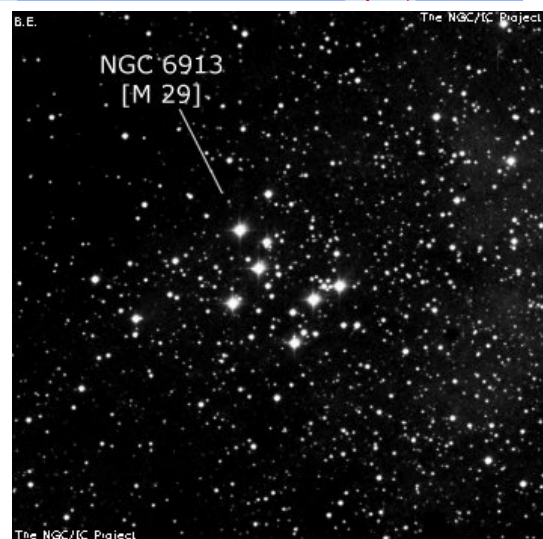
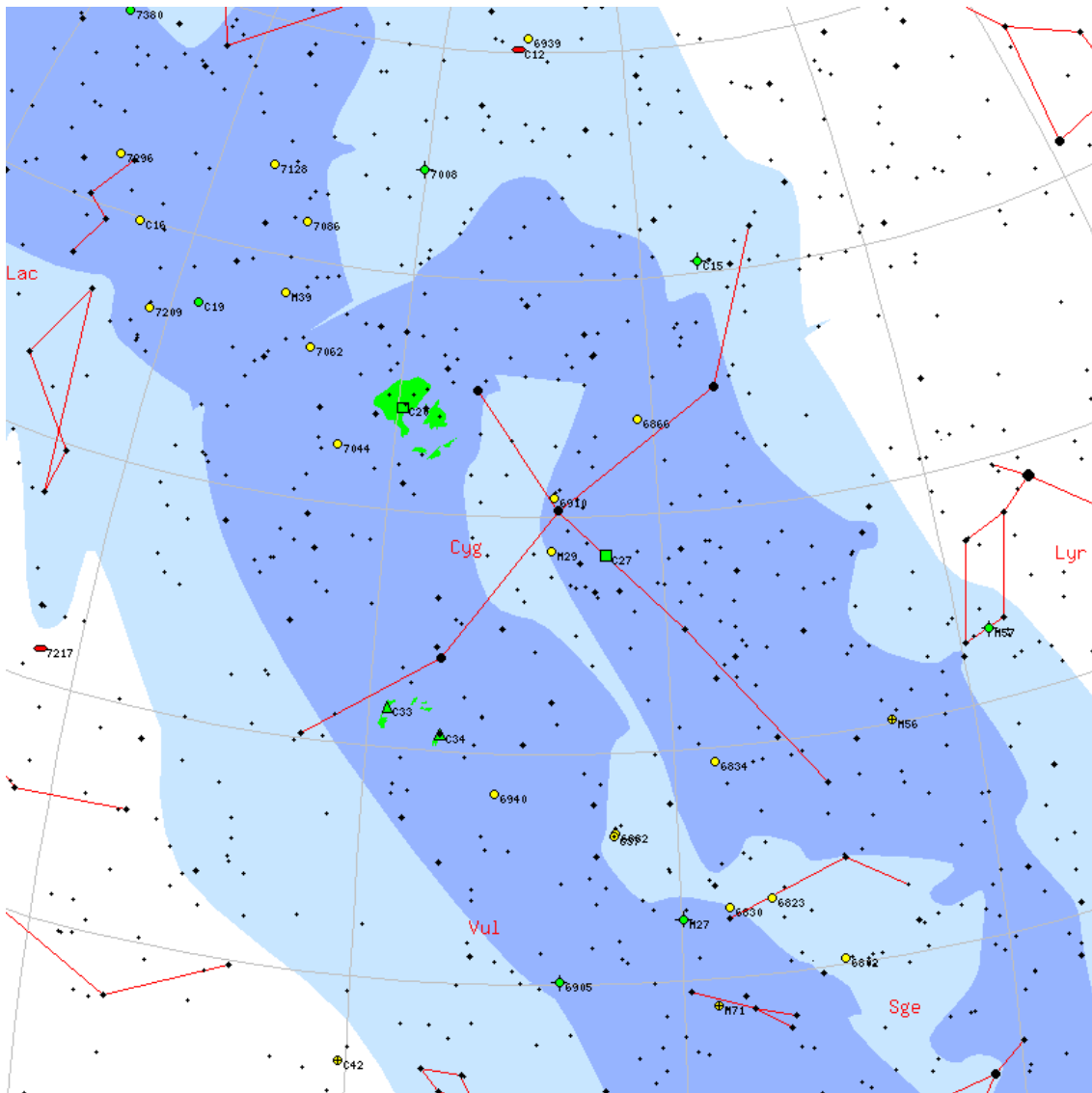


M28

M	M28	ID	NGC6626
Constellation	Sgr	Type	Gb
Magnitude	6.9	Size	11.2 x 11.2
RA	18h 24m	Dec	-24d 52m
Name			
Description	!, glob. cl. , vB, L, R, geCM, rrr, st 14...16; =		

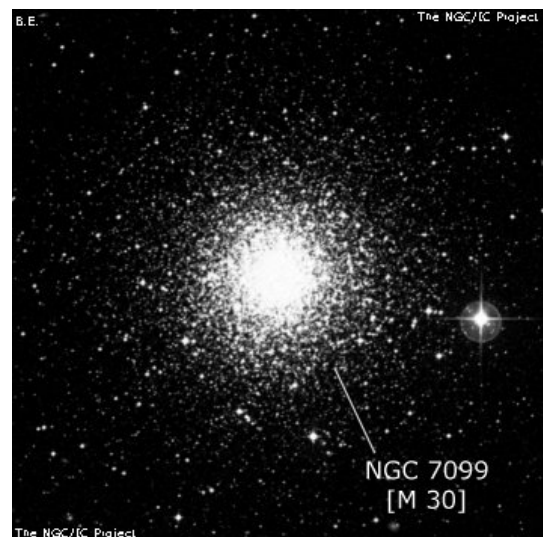
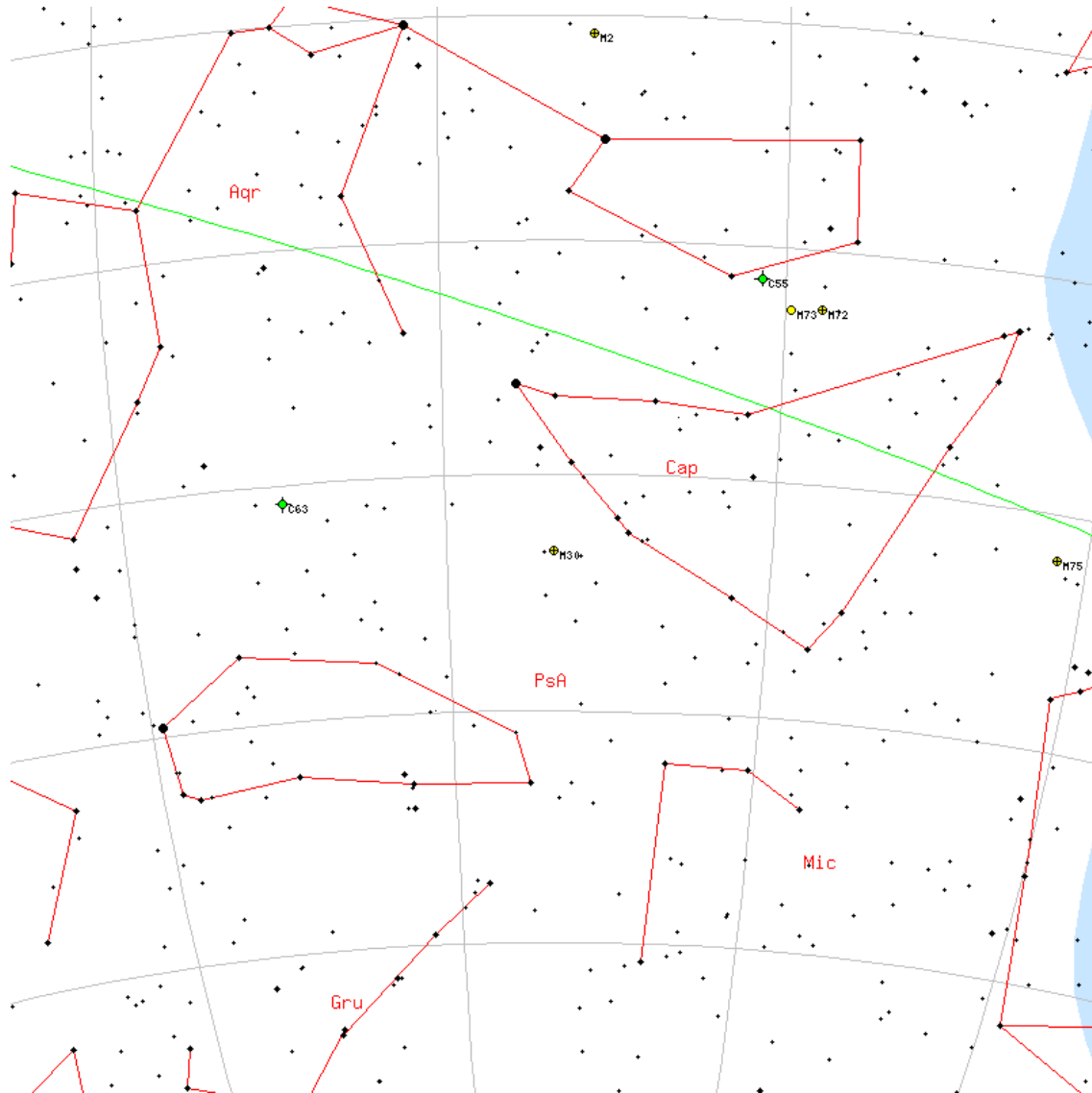


M	M29	ID	NGC6913
Constellation	Cyg	Type	OC
Magnitude	6.6	Size	7 x 7
RA	20h 23m	Dec	+38d 31m
Name			
Description	Cl, P, IC, st L and S		

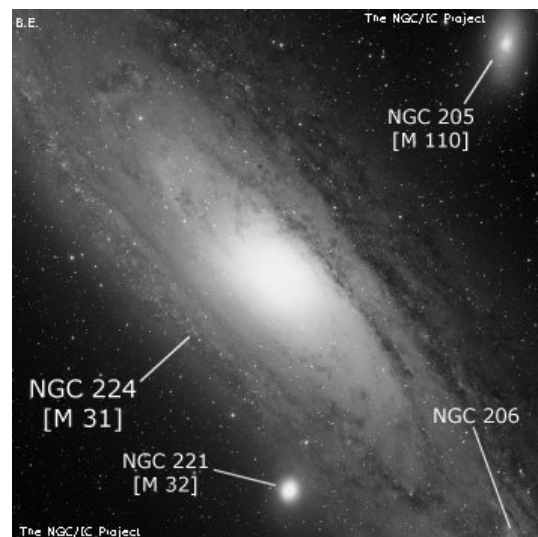
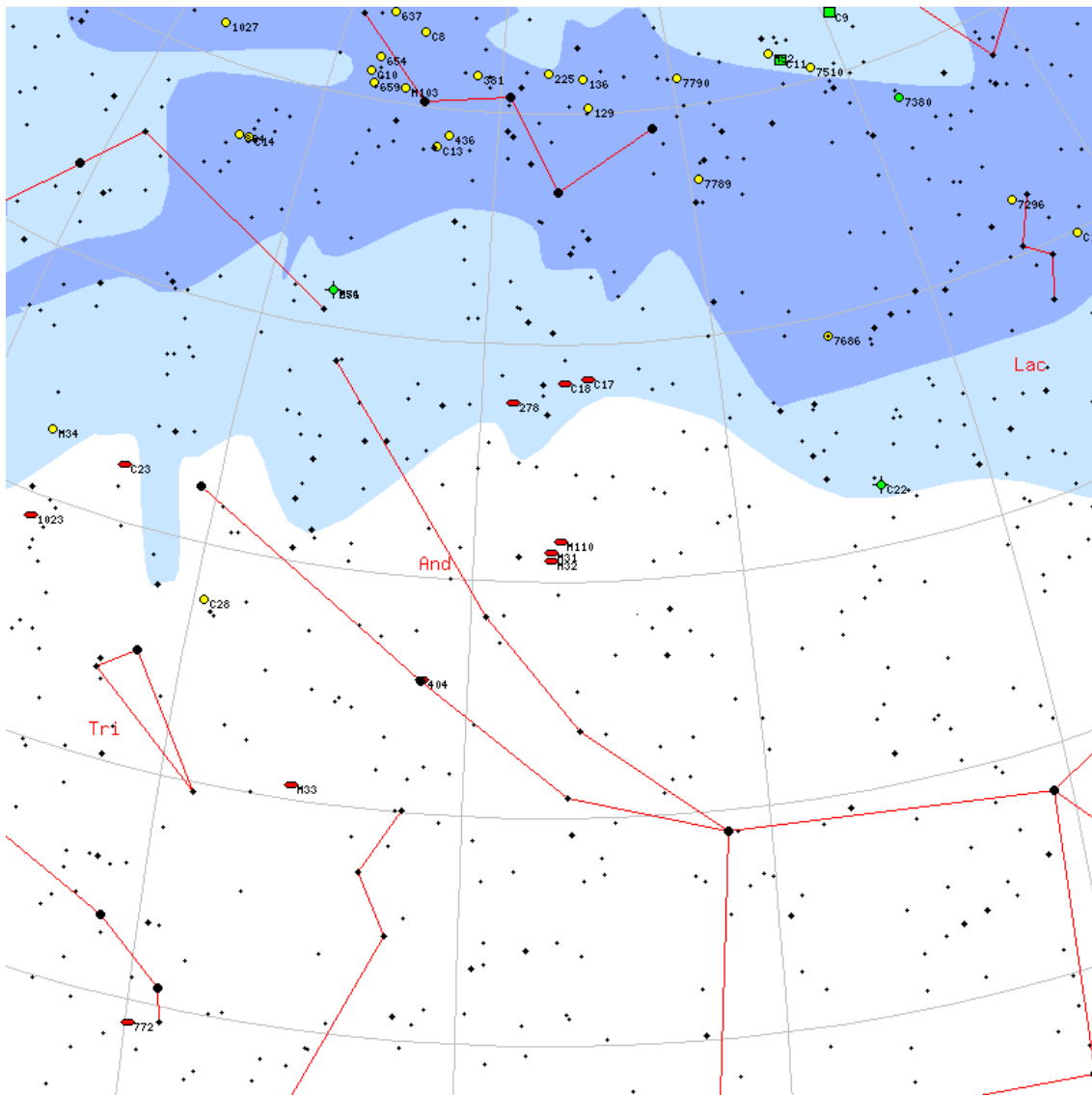


M30

M	M30	ID	NGC7099
Constellation	Cap	Type	Gb
Magnitude	7.5	Size	11 x 11
RA	21h 40m	Dec	-23d 10m
Name			
Description	!, glob. cl. , B, L, IE, gpmbM, st 12...16		

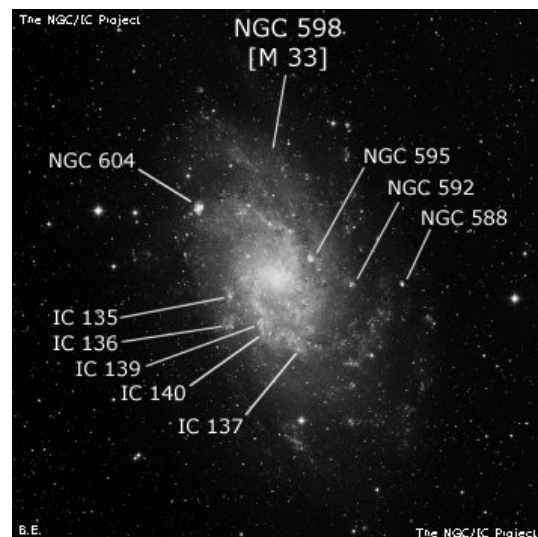
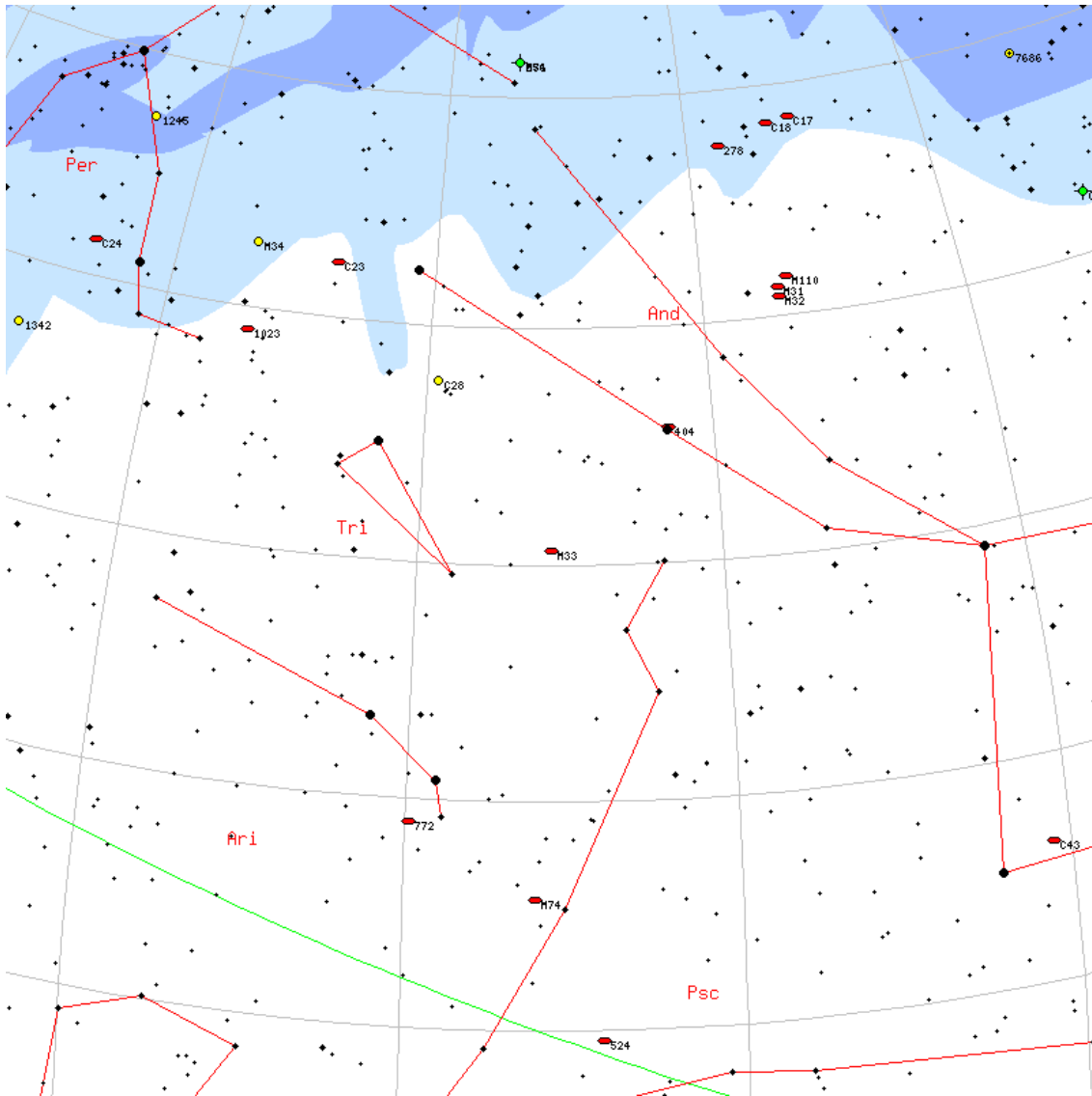


M	M31	ID	NGC224
Constellation	And	Type	Gx
Magnitude	3.5	Size	95.3 x 30.8
RA	00h 42m	Dec	+41d 16m
Name	Andromeda Galaxy		
Description	!!! eeB, eL, vmE (Andromeda)		



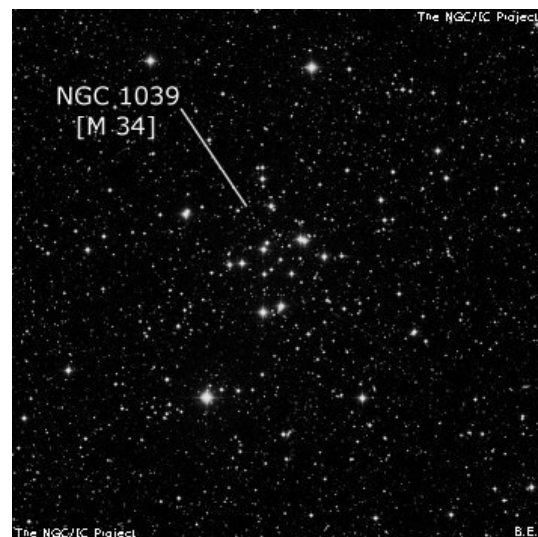
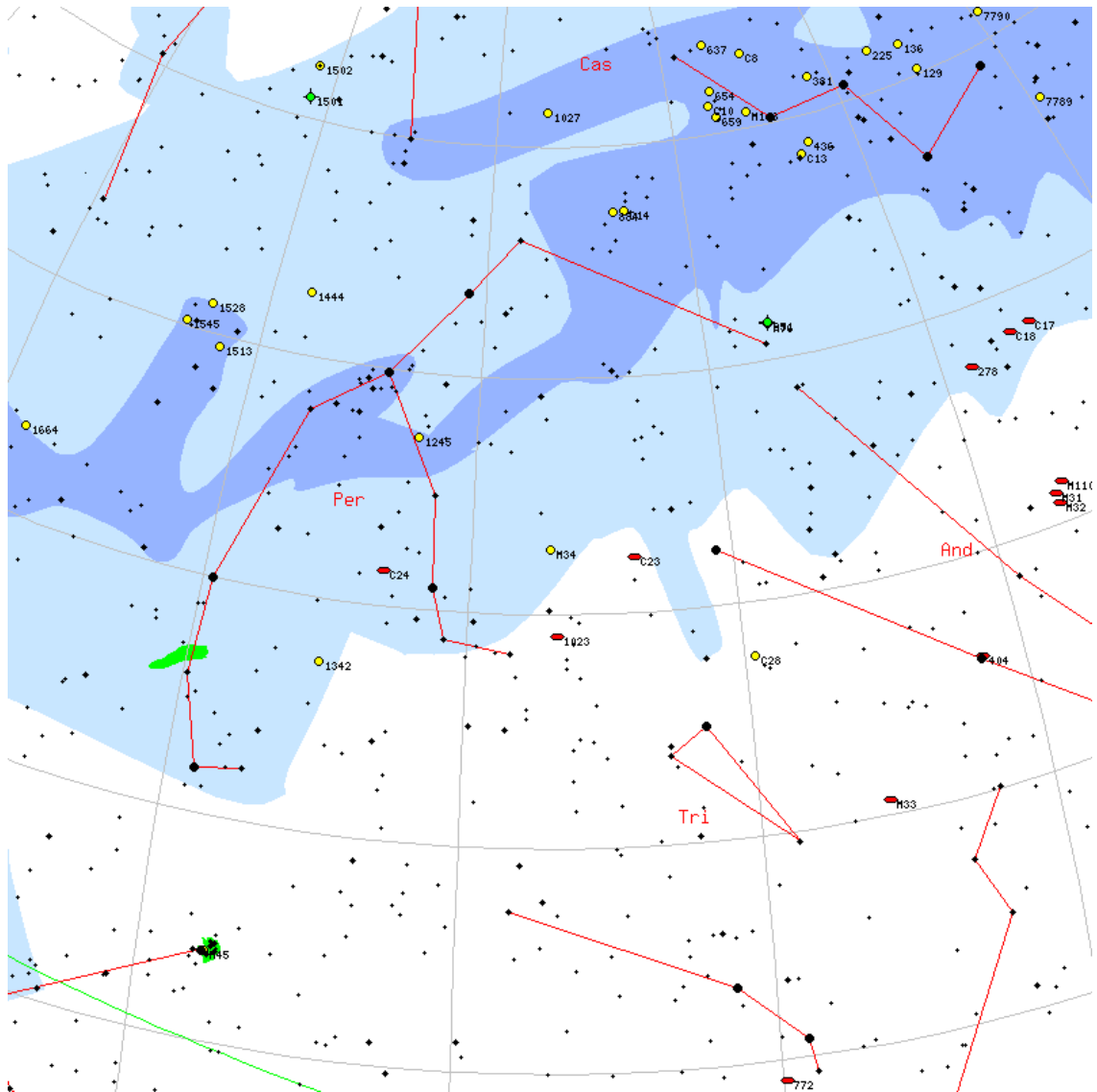


M	M33	ID	NGC598
Constellation	Tri	Type	Gx
Magnitude	5.7	Size	35.4 x 20.8
RA	01h 33m	Dec	+30d 38m
Name	Triangulum Galaxy/Pinwheel galaxy		
Description	! eB, eL, R, vgbMN		

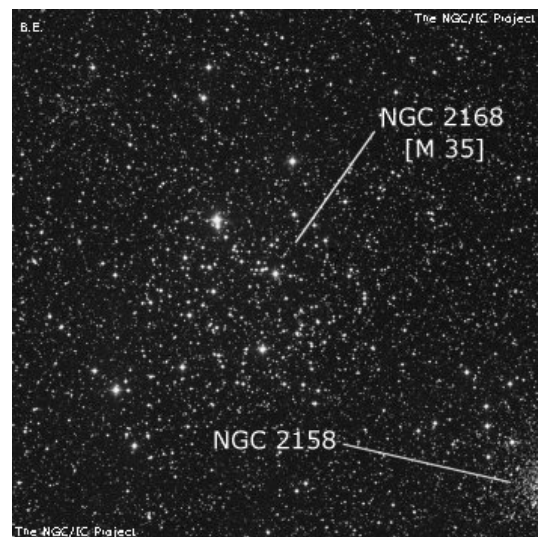
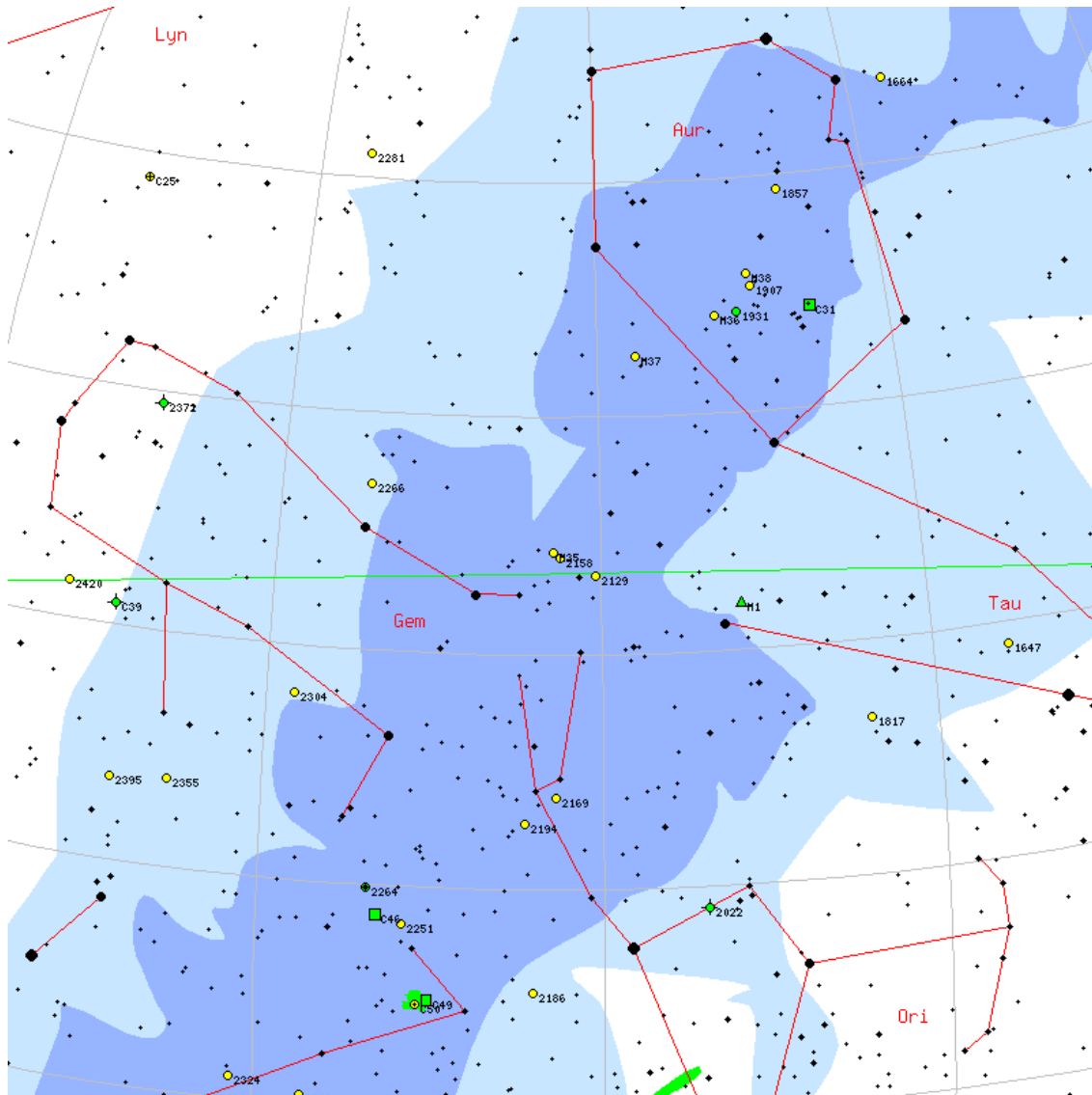


M34

M	M34	ID	NGC1039
Constellation	Per	Type	OC
Magnitude	5.2	Size	35 x 35
RA	02h 42m	Dec	+42d 46m
Name			
Description	Cl, B, vL, IC, sc st 9		

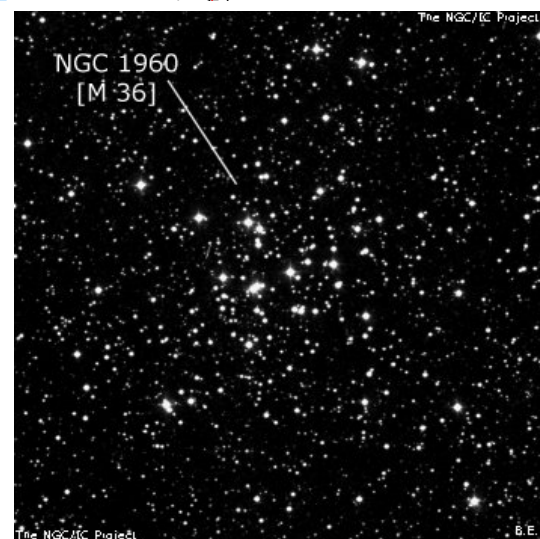
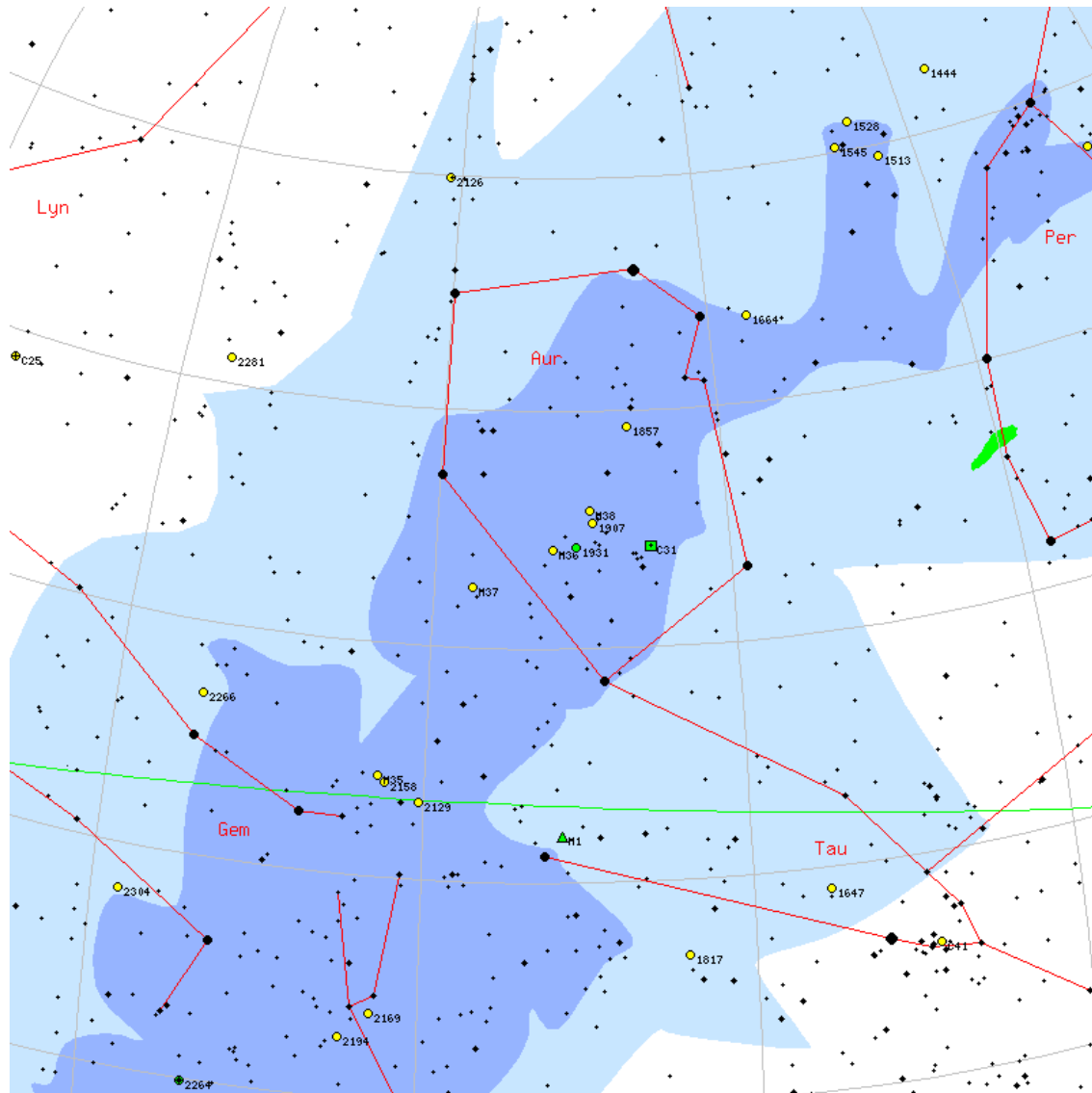


M	M35	ID	NGC2168
Constellation	Gem	Type	OC
Magnitude	5.1	Size	28 x 28
RA	06h 08m	Dec	+24d 19m
Name			
Description	Cl, vL, cRi, pC, st 9...16		



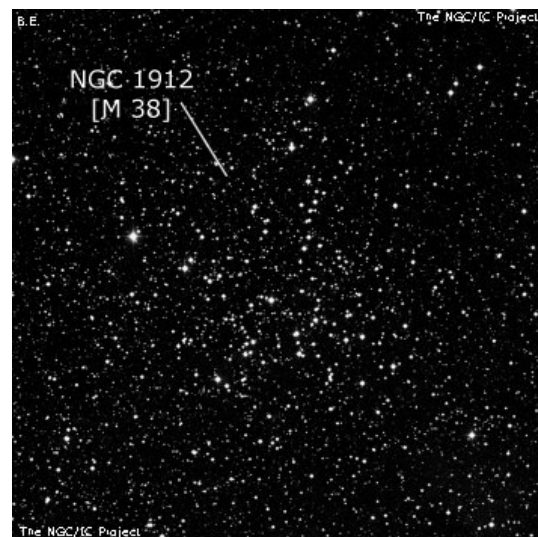
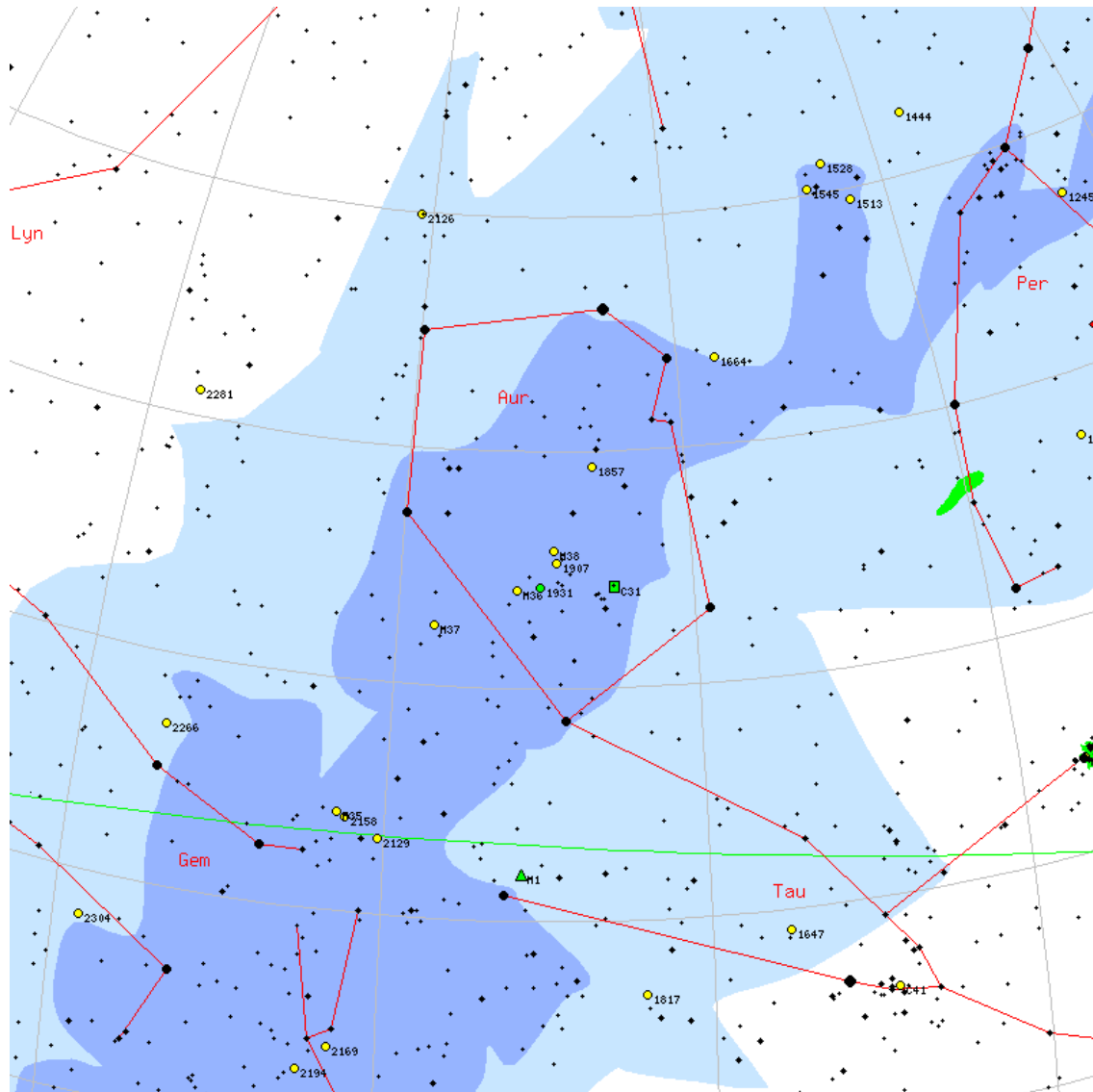
M36

M	M36	ID	NGC1960
Constellation	Aur	Type	OC
Magnitude	6	Size	12 x 12
RA	05h 36m	Dec	+34d 07m
Name			
Description	Cl, B, vL, vRi, IC, st 9...11 sc		

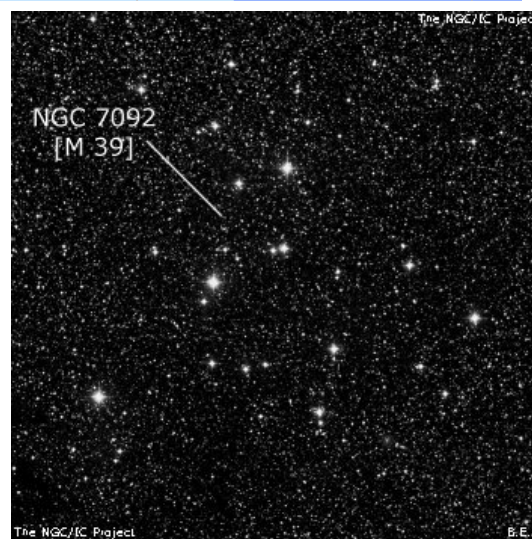
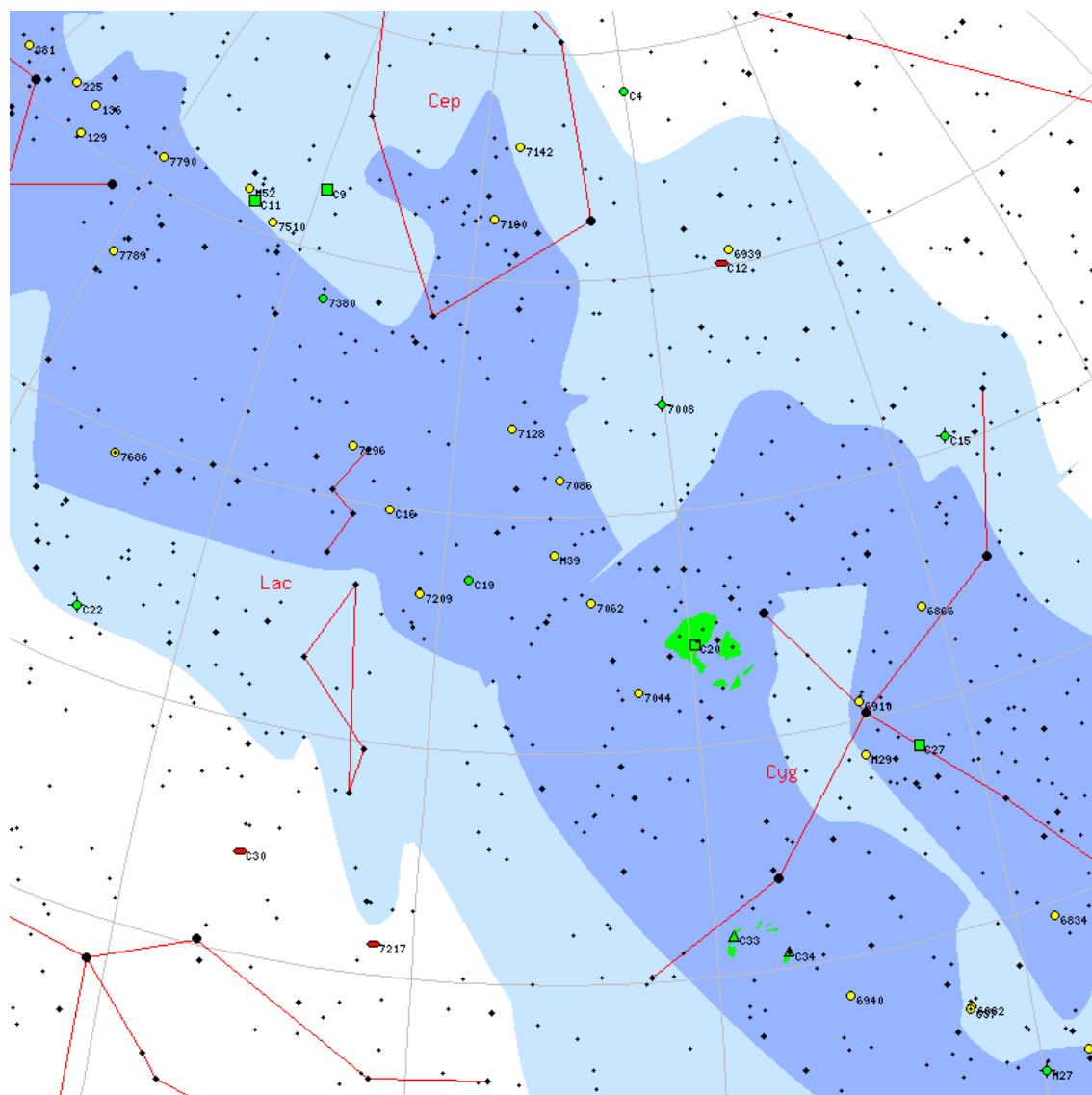


M38

M	M38	ID	NGC1912
Constellation	Aur	Type	OC
Magnitude	6.4	Size	21 x 21
RA	05h 28m	Dec	+35d 49m
Name			
Description	Cl, B, vL, vRi, iF, st L & S		

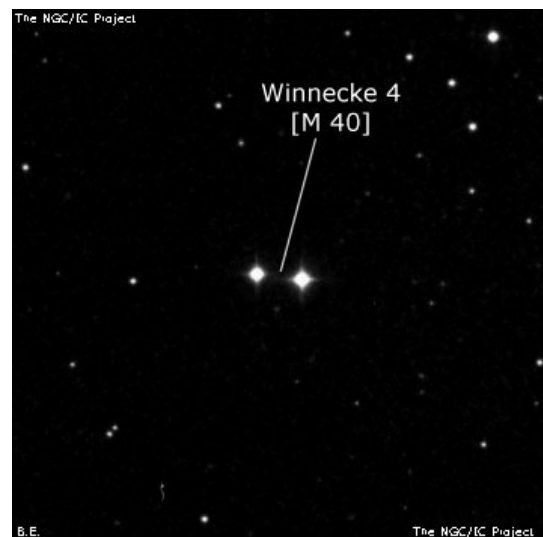
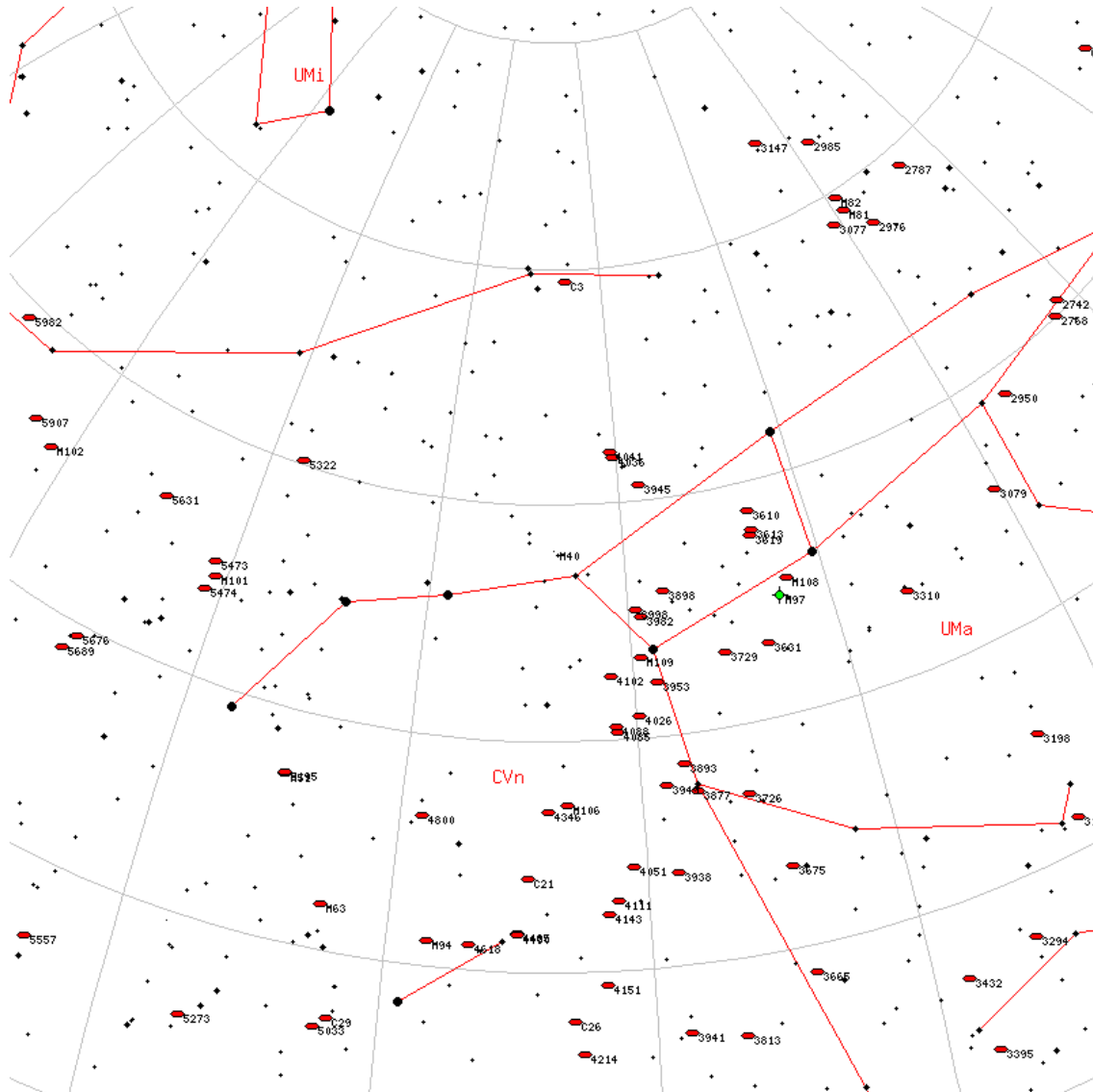


M	M39	ID	NGC7092
Constellation	Cyg	Type	OC
Magnitude	4.6	Size	32 x 32
RA	21h 32m	Dec	+48d 25m
Name			
Description	Cl, vL, vP, vLC, st 7...10		

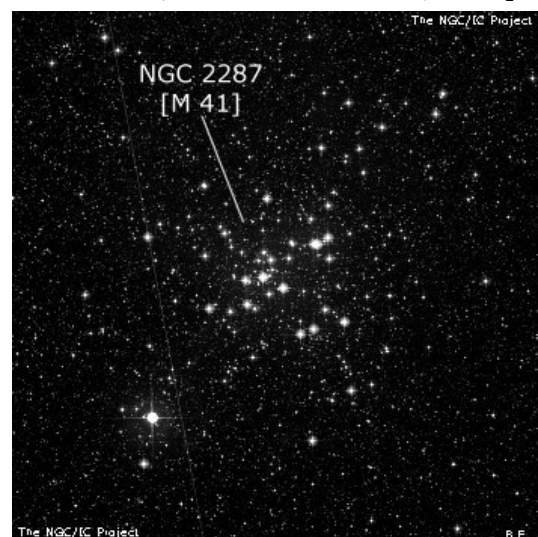
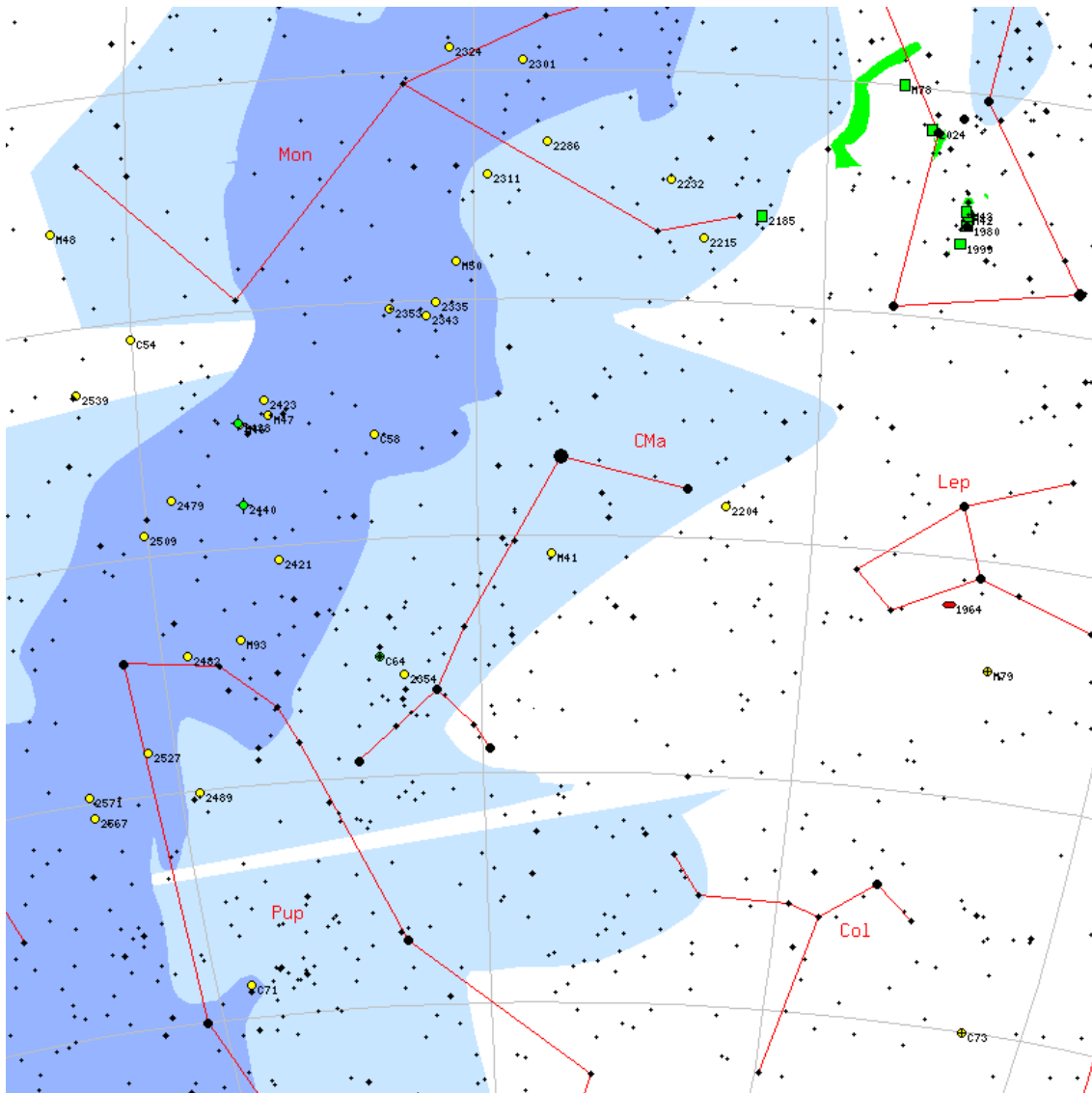


M40

M	M40	ID	-
Constellation	UMa	Type	D*
Magnitude	9.1	Size	0.8 x 0.8
RA	12h 22m	Dec	+58d 04m
Name	Winnecke 4		
Description	Double star Winnecke 4 separation of 50seconds.		



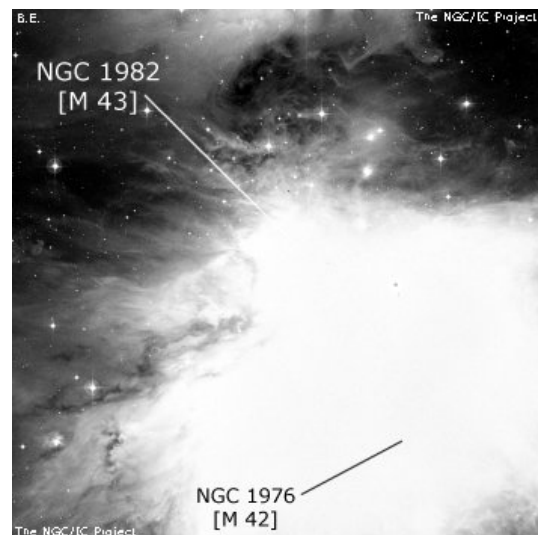
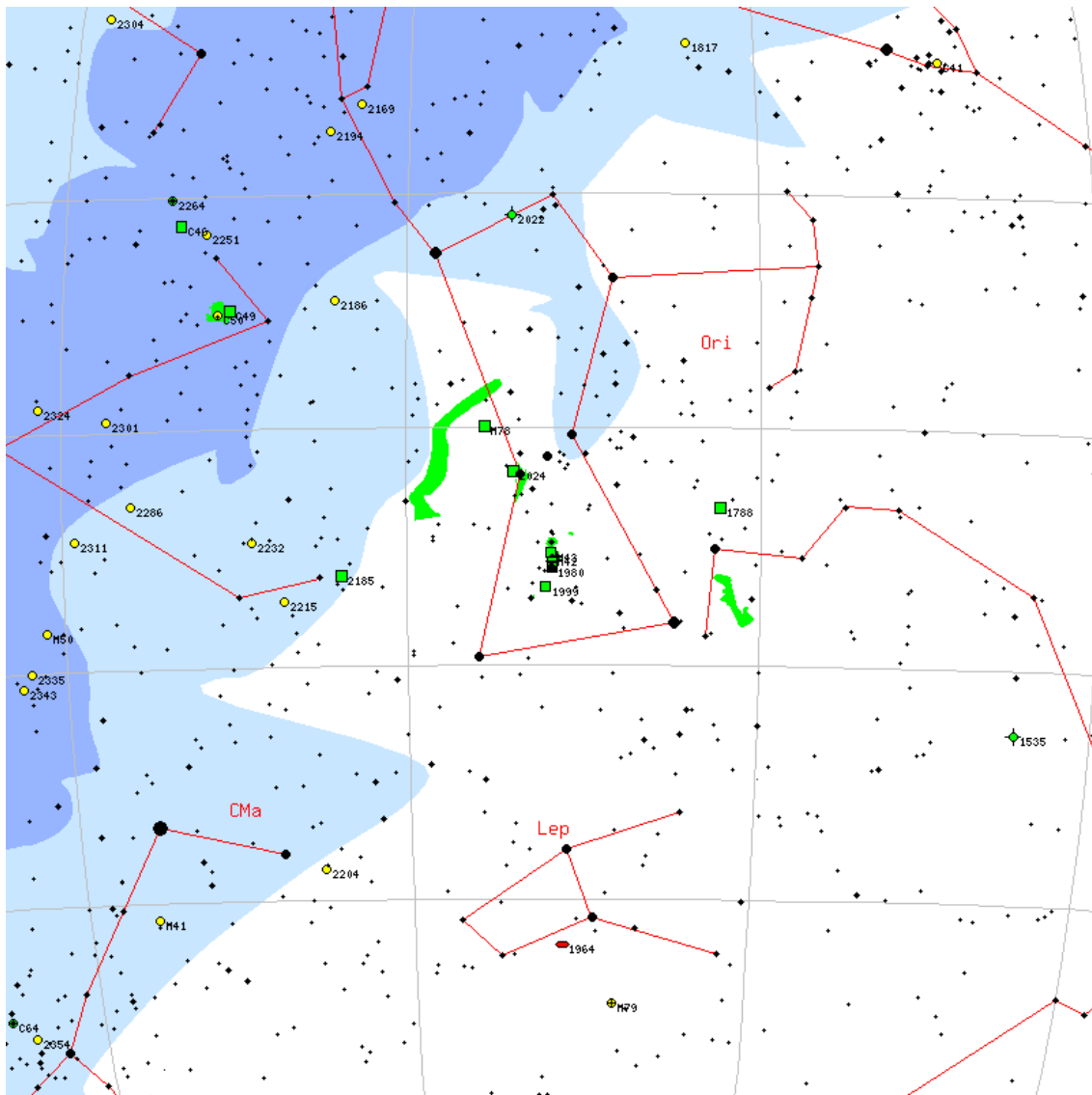
M	M41	ID	NGC2287
Constellation	CMa	Type	OC
Magnitude	4.5	Size	38 x 38
RA	06h 46m	Dec	-20d 43m
Name			
Description	Cl, vL, B, IC, st 8...		





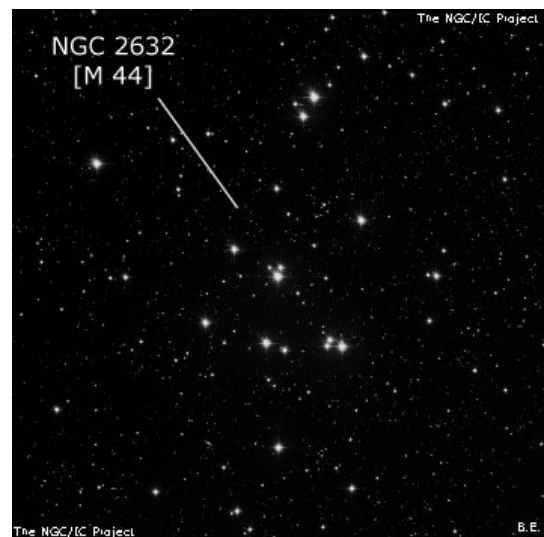
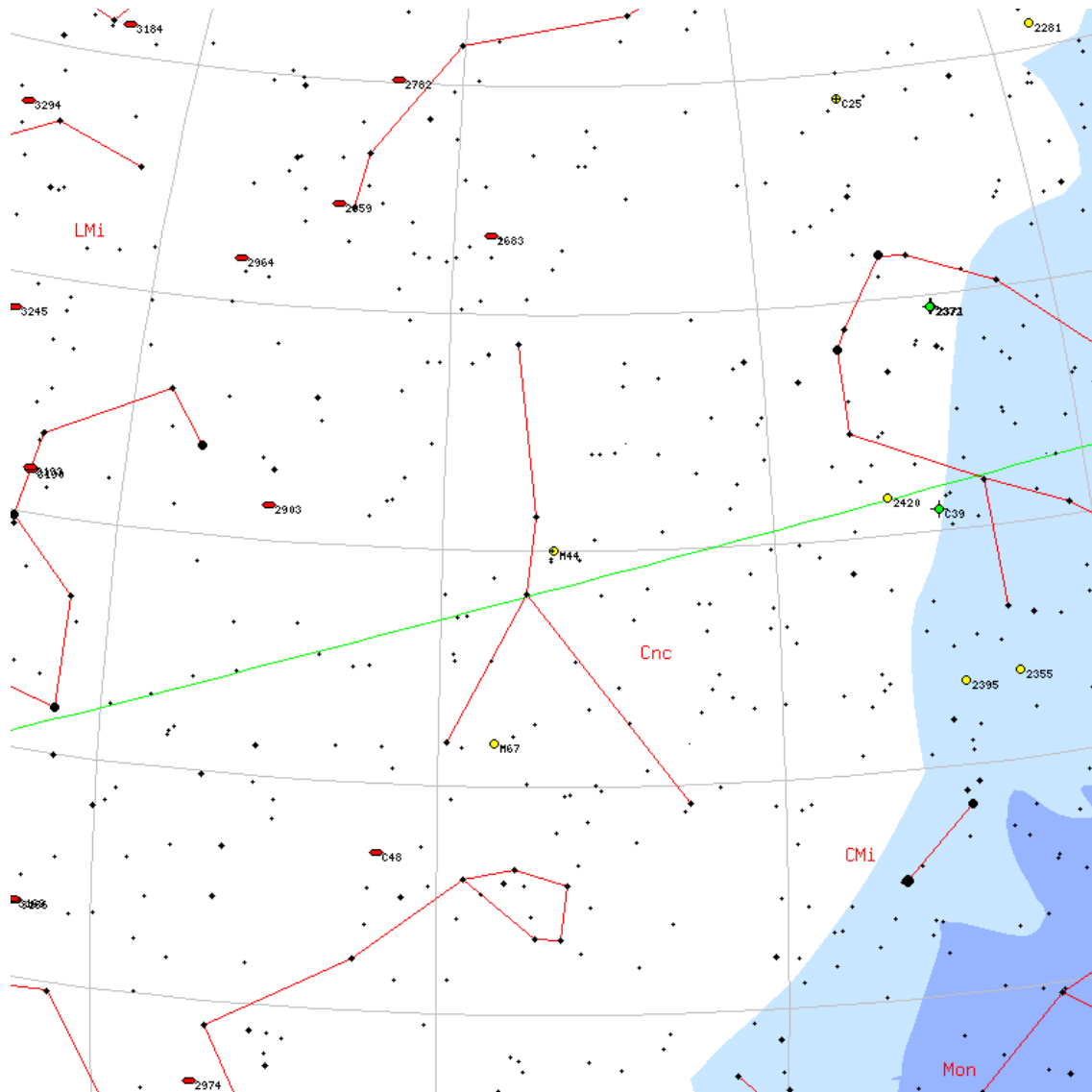
M43

M	M43	ID	NGC1982
Constellation	Ori	Type	Nb
Magnitude	9	Size	20 x 20
RA	05h 35m	Dec	-05d 16m
Name	de Mairan's Nebula		
Description	! vB, vL, R with tail, mbM *8-9		



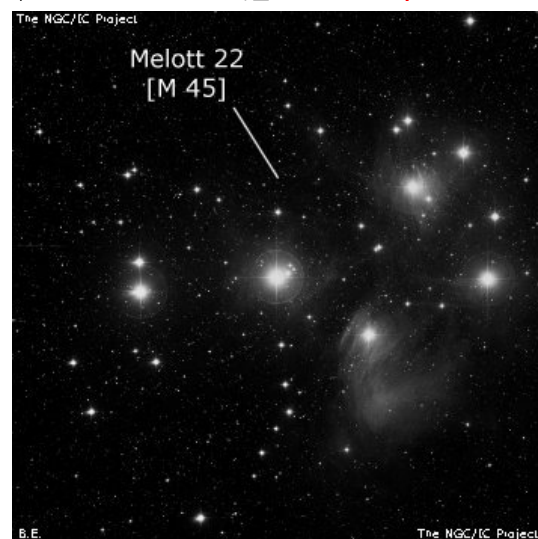
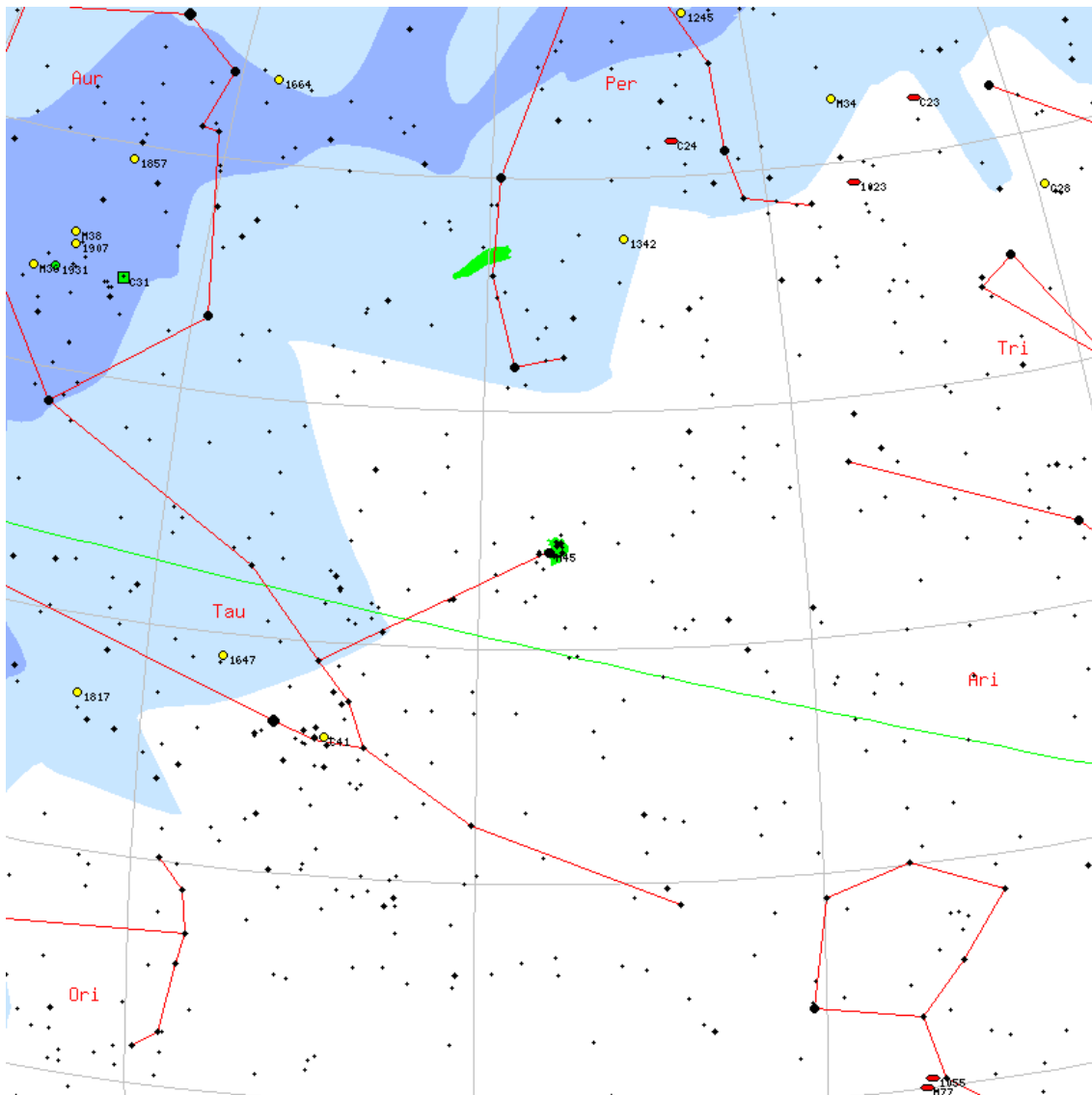
M44

M	M44	ID	NGC2632
Constellation	Cnc	Type	OC
Magnitude	3.1	Size	95 x 95
RA	08h 40m	Dec	+19d 58m
Name	Beehive Cluster/Praesepe		
Description			



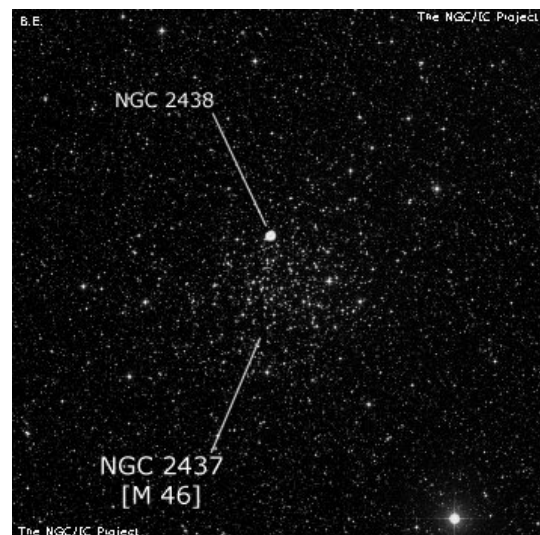
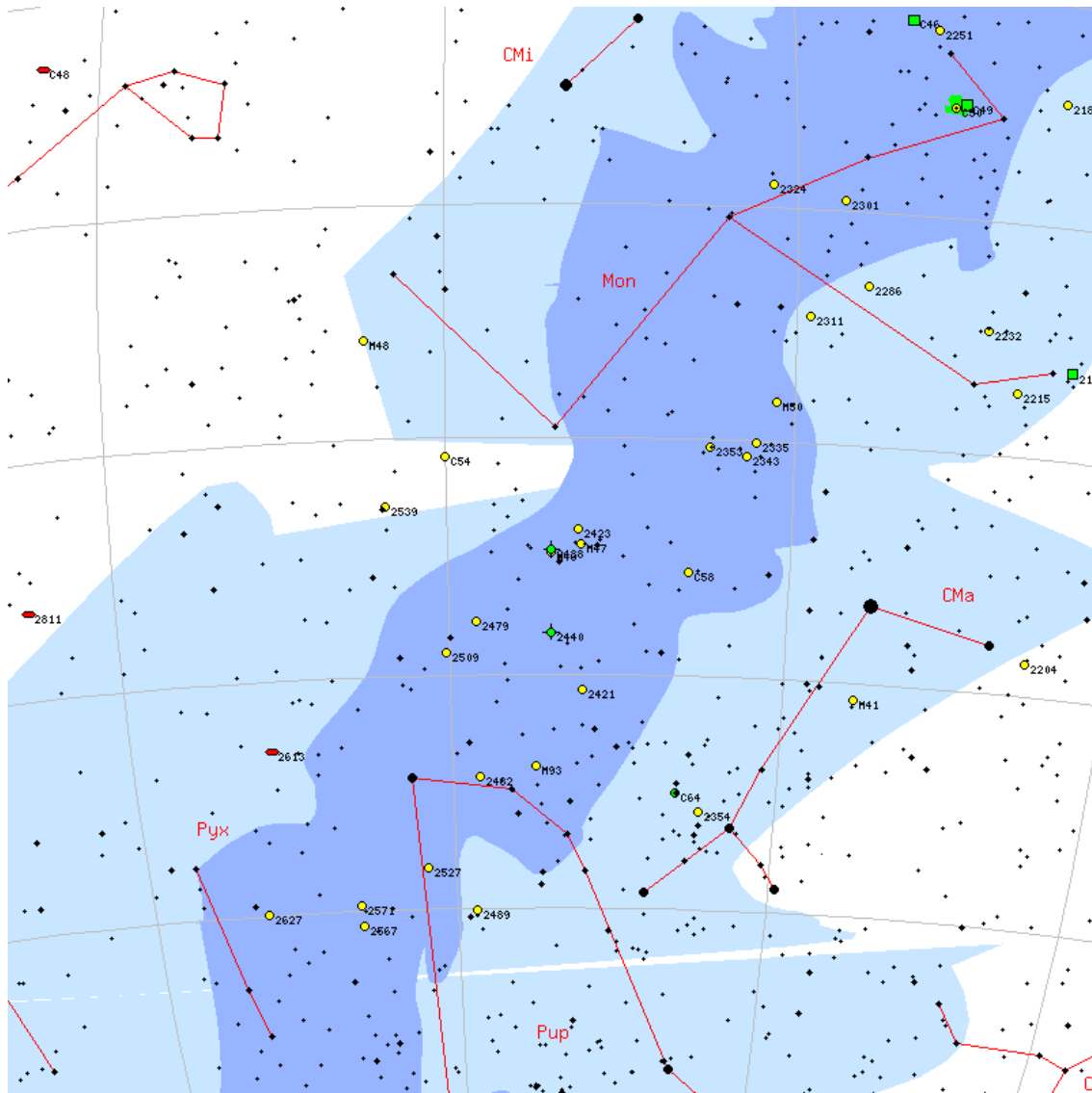
M45

M	M45	ID	-
Constellation	Tau	Type	OC
Magnitude	1.6	Size	110 x 110
RA	03h 46m	Dec	+24d 07m
Name	Pleiades		
Description	Look for nebulosity.		

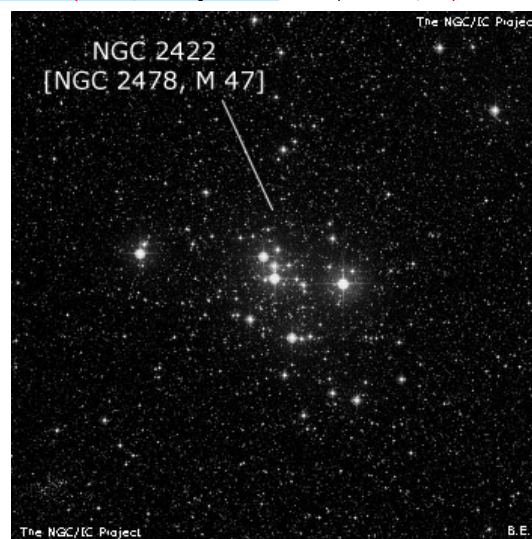
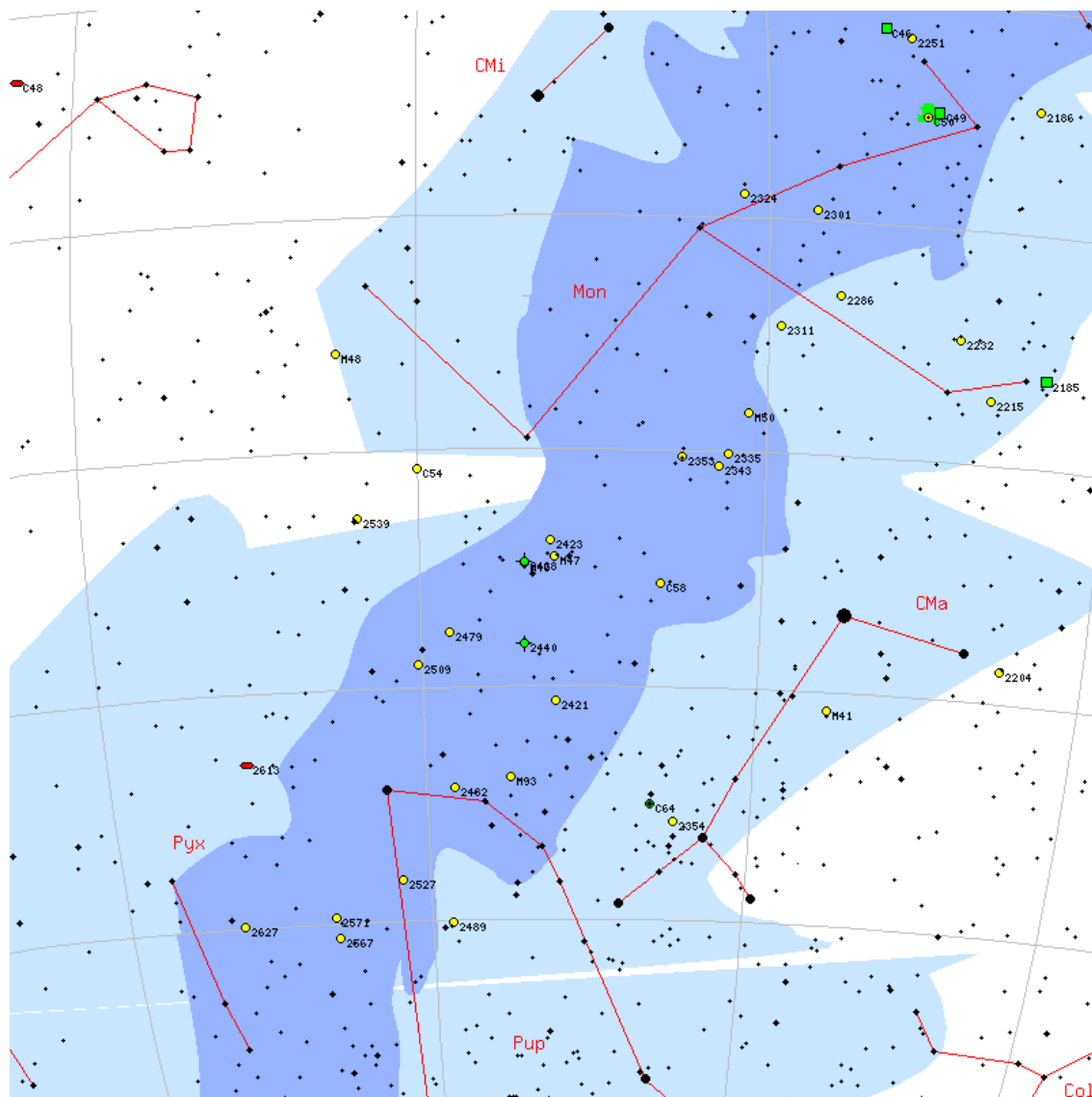


M46

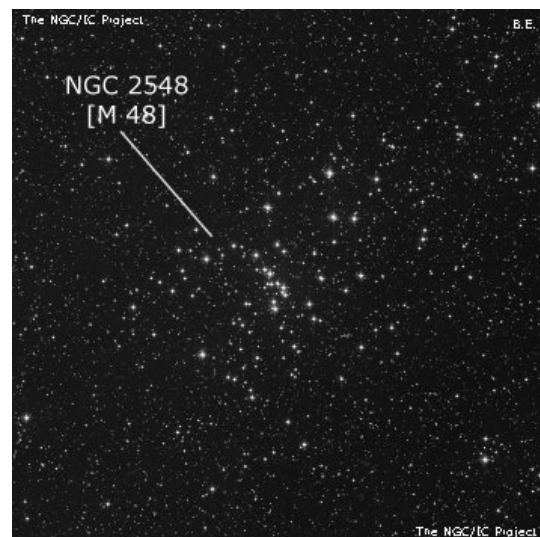
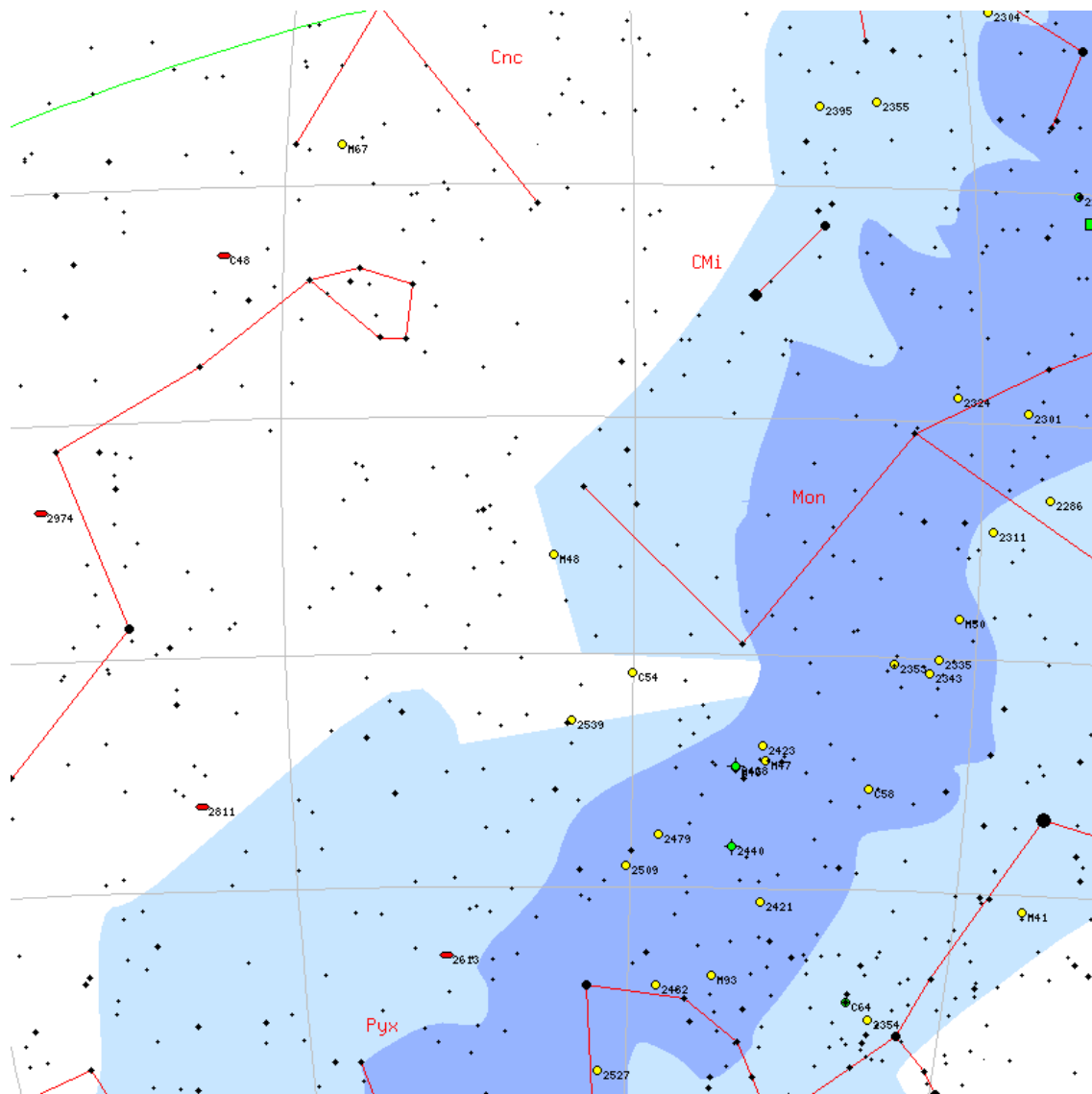
M	M46	ID	NGC2437
Constellation	Pup	Type	OC
Magnitude	6.1	Size	27 x 27
RA	07h 41m	Dec	-14d 49m
Name			
Description	!, Cl, vB, vRi, vL, inv PN		



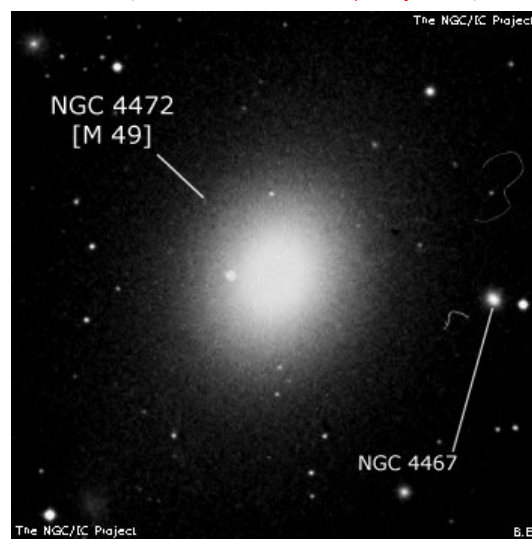
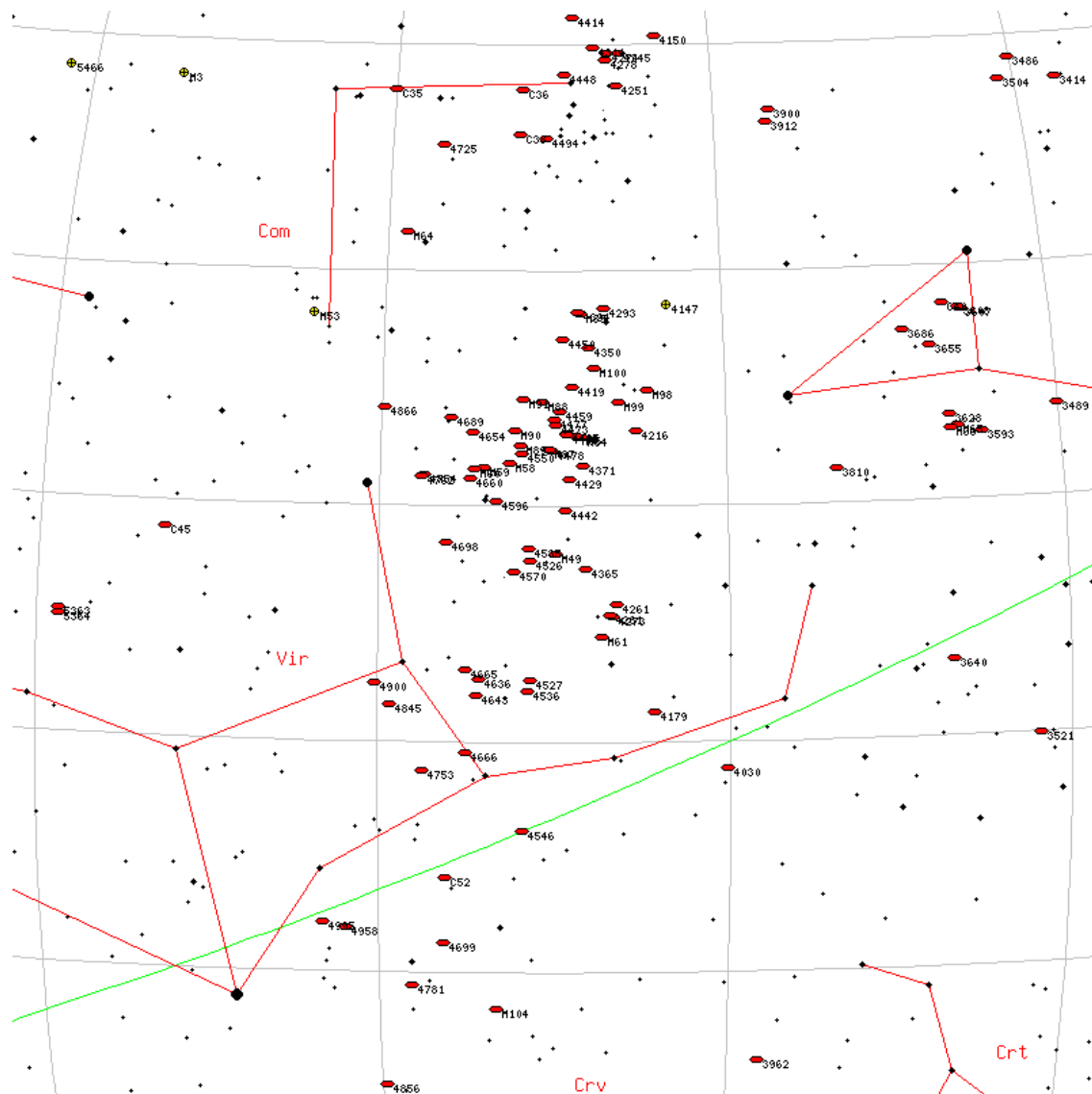
M	M47	ID	NGC2422
Constellation	Pup	Type	OC
Magnitude	4.4	Size	30 x 30
RA	07h 36m	Dec	-14d 30m
Name			
Description	Cl, B, vL, pRi, st L and S		



M	M48	ID	NGC2548
Constellation	Hya	Type	OC
Magnitude	5.8	Size	54 x 54
RA	08h 13m	Dec	-05d 47m
Name			
Description	Cl, vL, pRi, pmC, st 9...13		

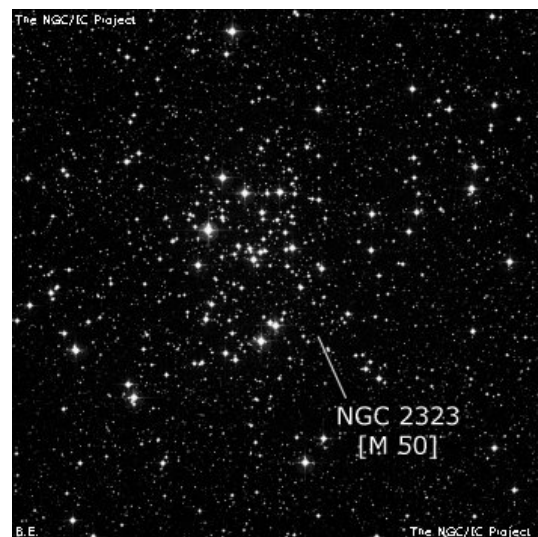
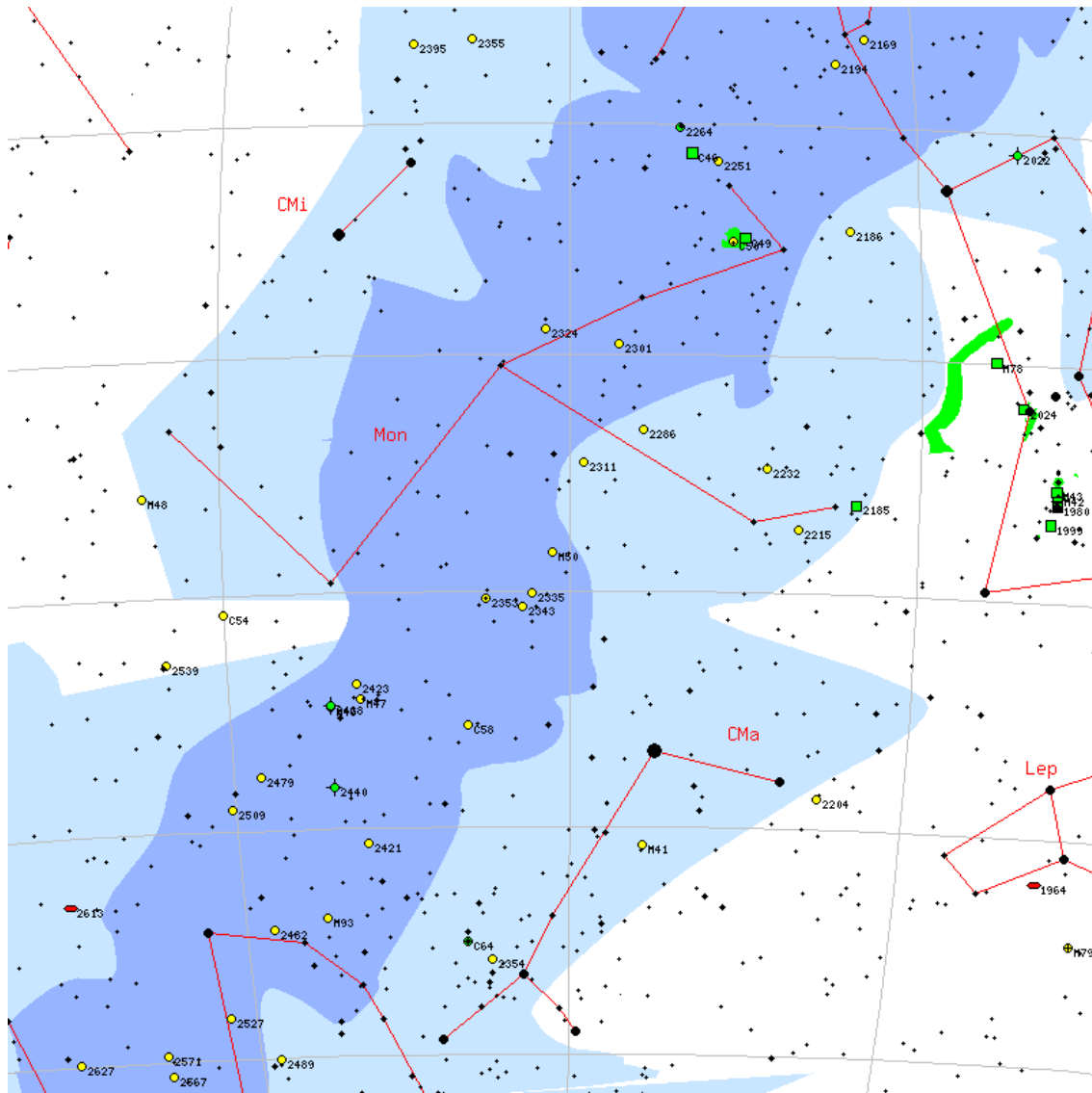


M	M49	ID	NGC4472
Constellation	Vir	Type	Gx
Magnitude	8.4	Size	5.1 x 4.2
RA	12h 29m	Dec	+08d 00m
Name			
Description	vB, L, R, mbM, r		

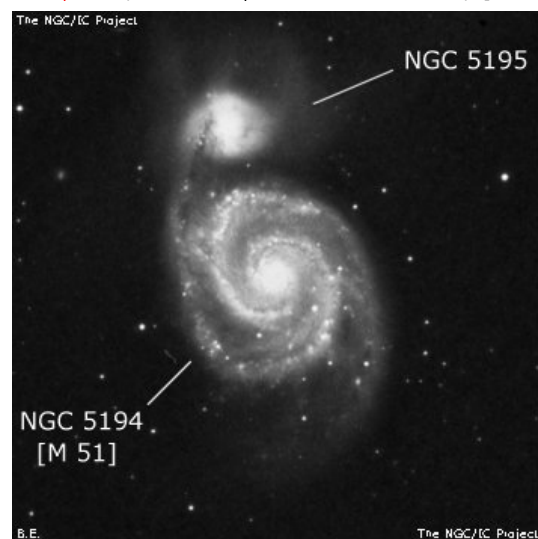
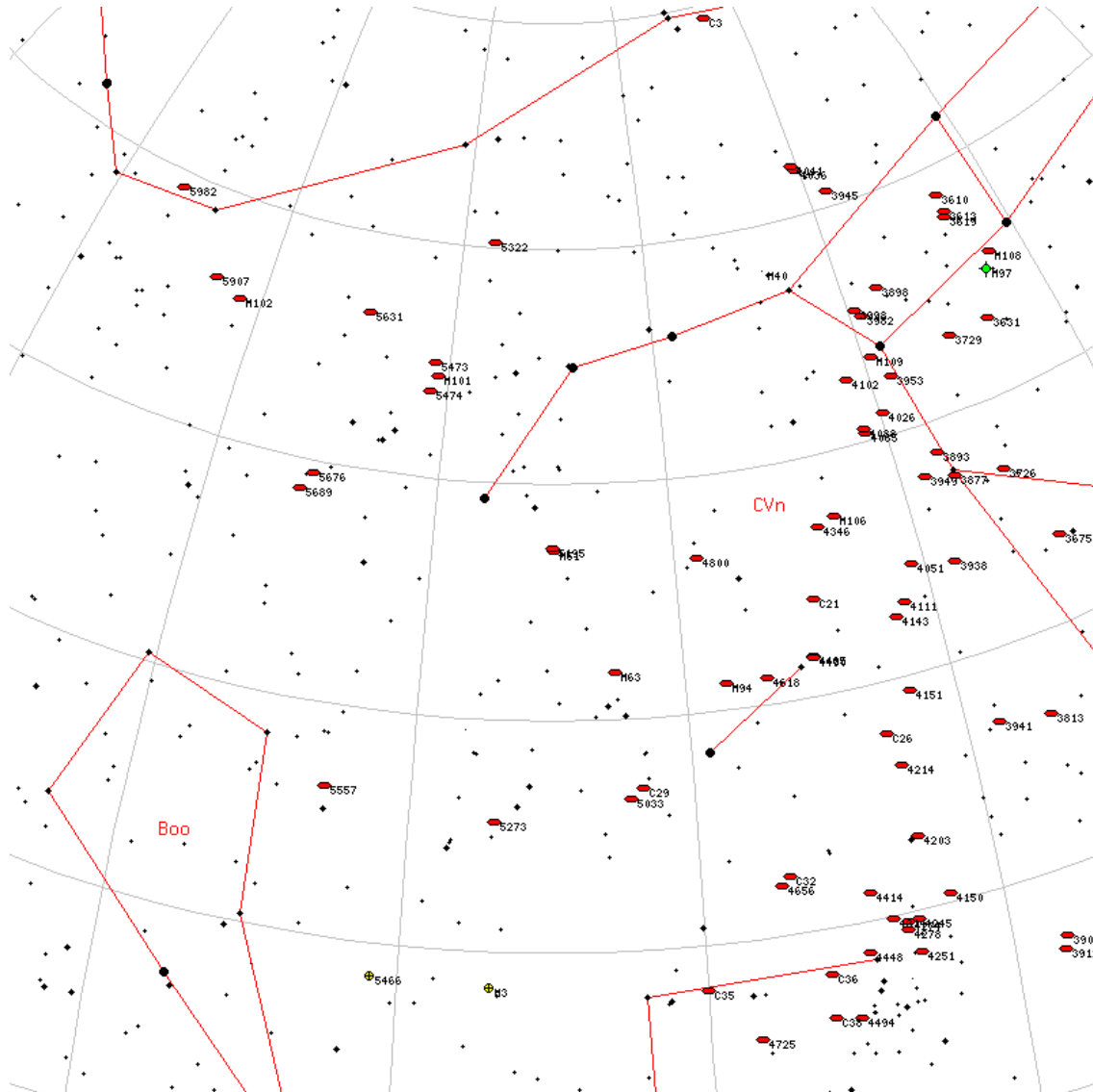


M50

M	M50	ID	NGC2323
Constellation	Mon	Type	OC
Magnitude	5.9	Size	16 x 16
RA	07h 03m	Dec	-08d 19m
Name			
Description	! Cl, vL, Ri, pC, E, st 12...16		

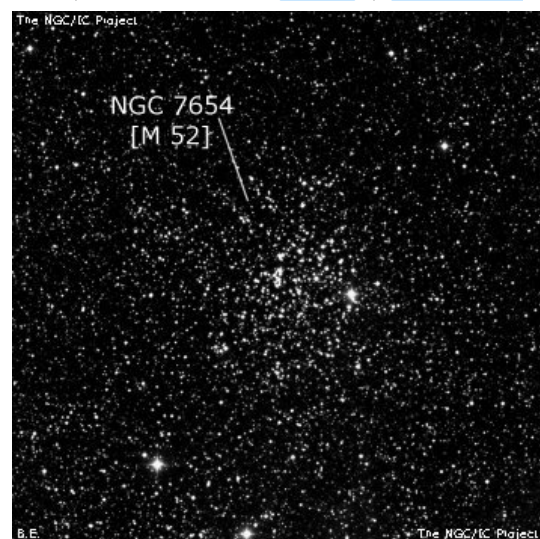
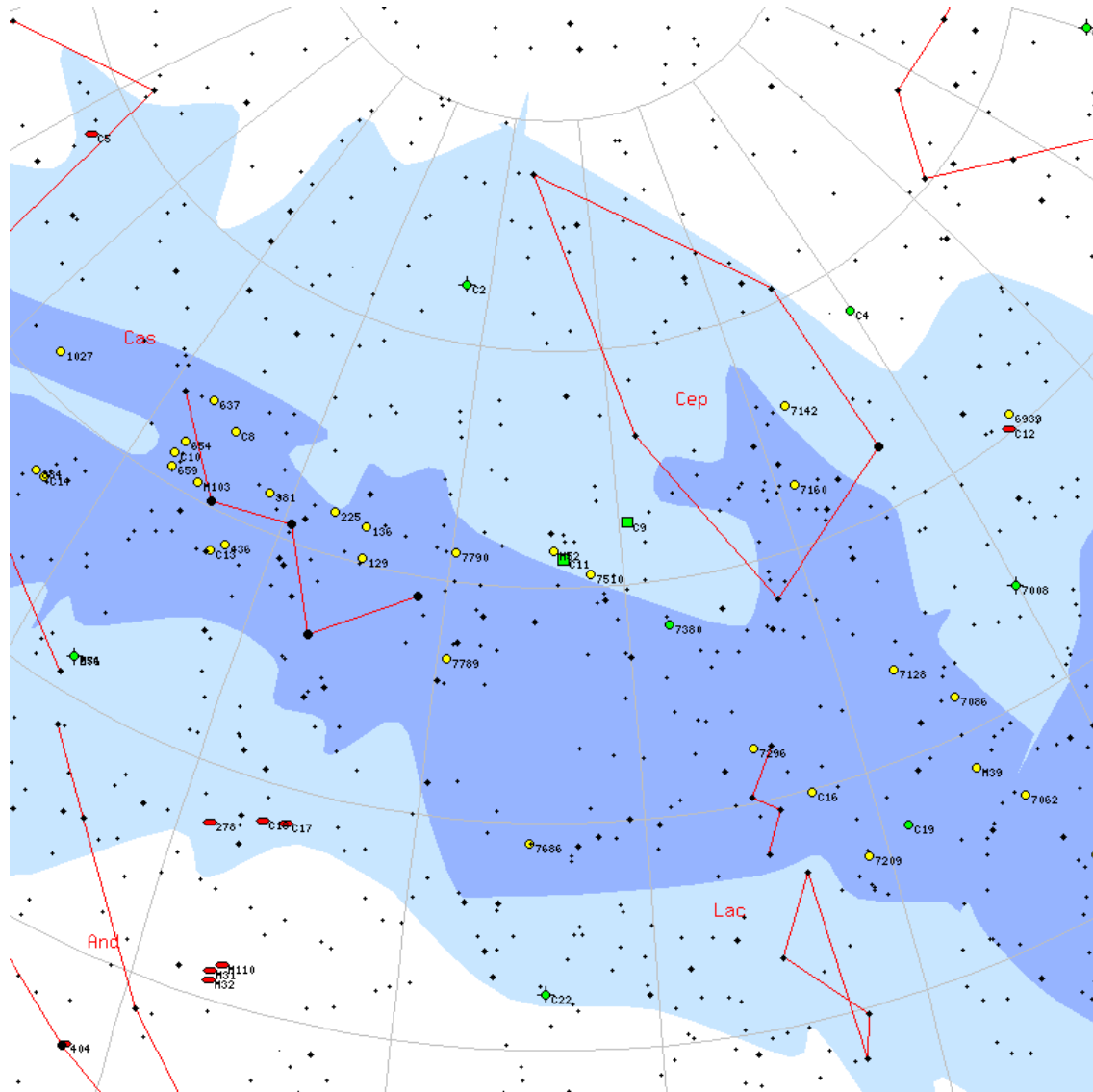


M	M51	ID	NGC5194
Constellation	CVn	Type	Gx
Magnitude	8.4	Size	5.6 x 3.5
RA	13h 29m	Dec	+47d 12m
Name	Whirlpool Galaxy		
Description	!!!, great spiral neb M51		

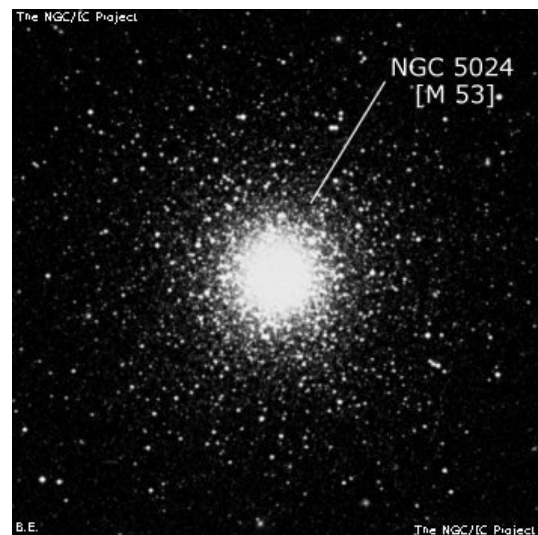
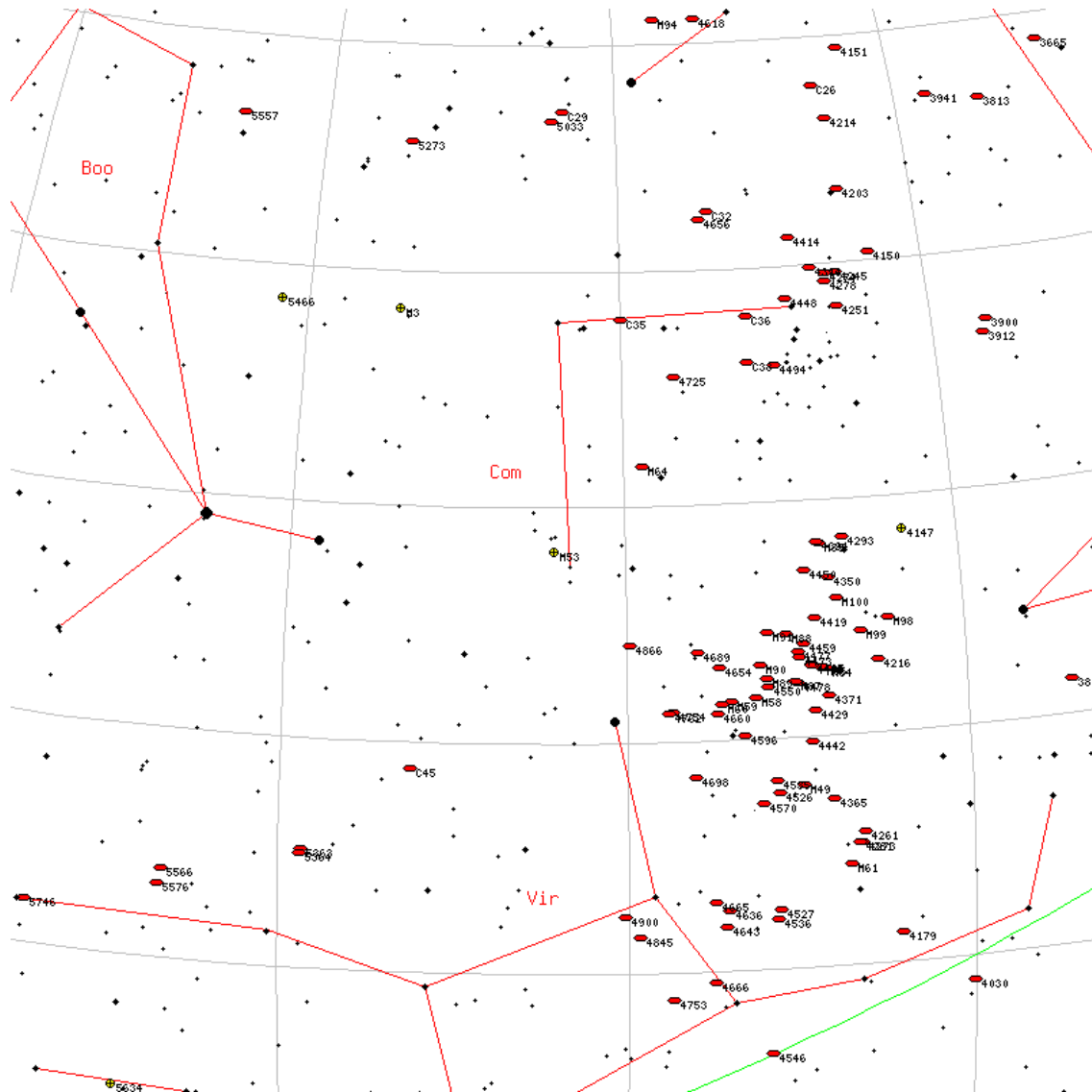


M52

M	M52	ID	NGC7654
Constellation	Cas	Type	OC
Magnitude	6.9	Size	13 x 13
RA	23h 24m	Dec	+61d 34m
Name			
Description	Cl, L, Ri, mCM, R, st 9...13, Look for Czernik 43 to SE		

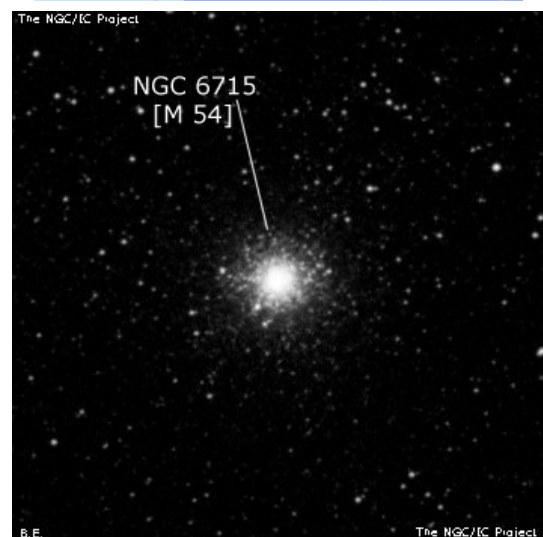
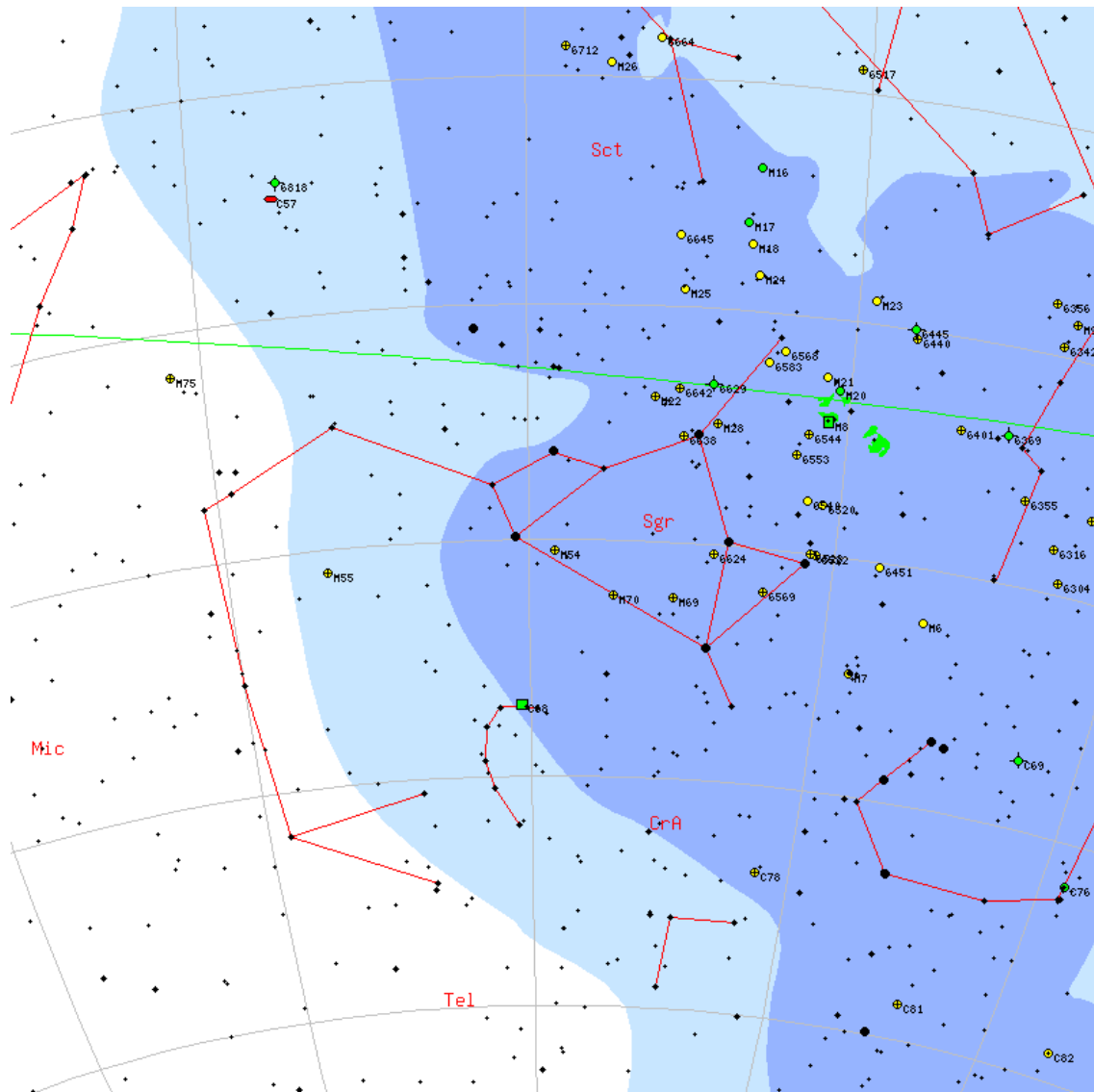


M	M53	ID	NGC5024
Constellation	Com	Type	Gb
Magnitude	7.7	Size	12.6 x 12.6
RA	13h 12m	Dec	+18d 10m
Name			
Description	!, glob. cl. , B, vC, iR, vvmbM, st 12		

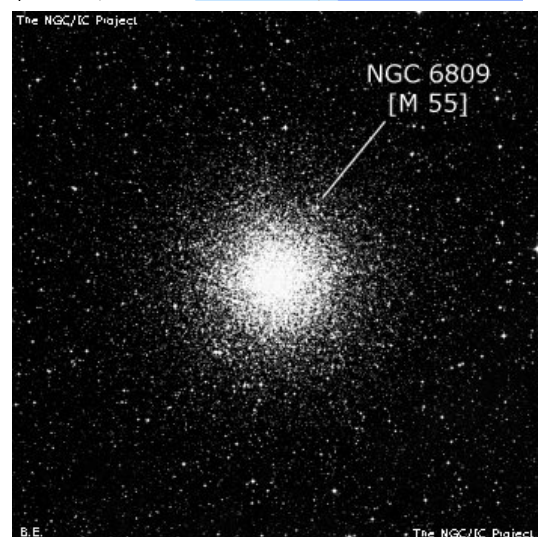
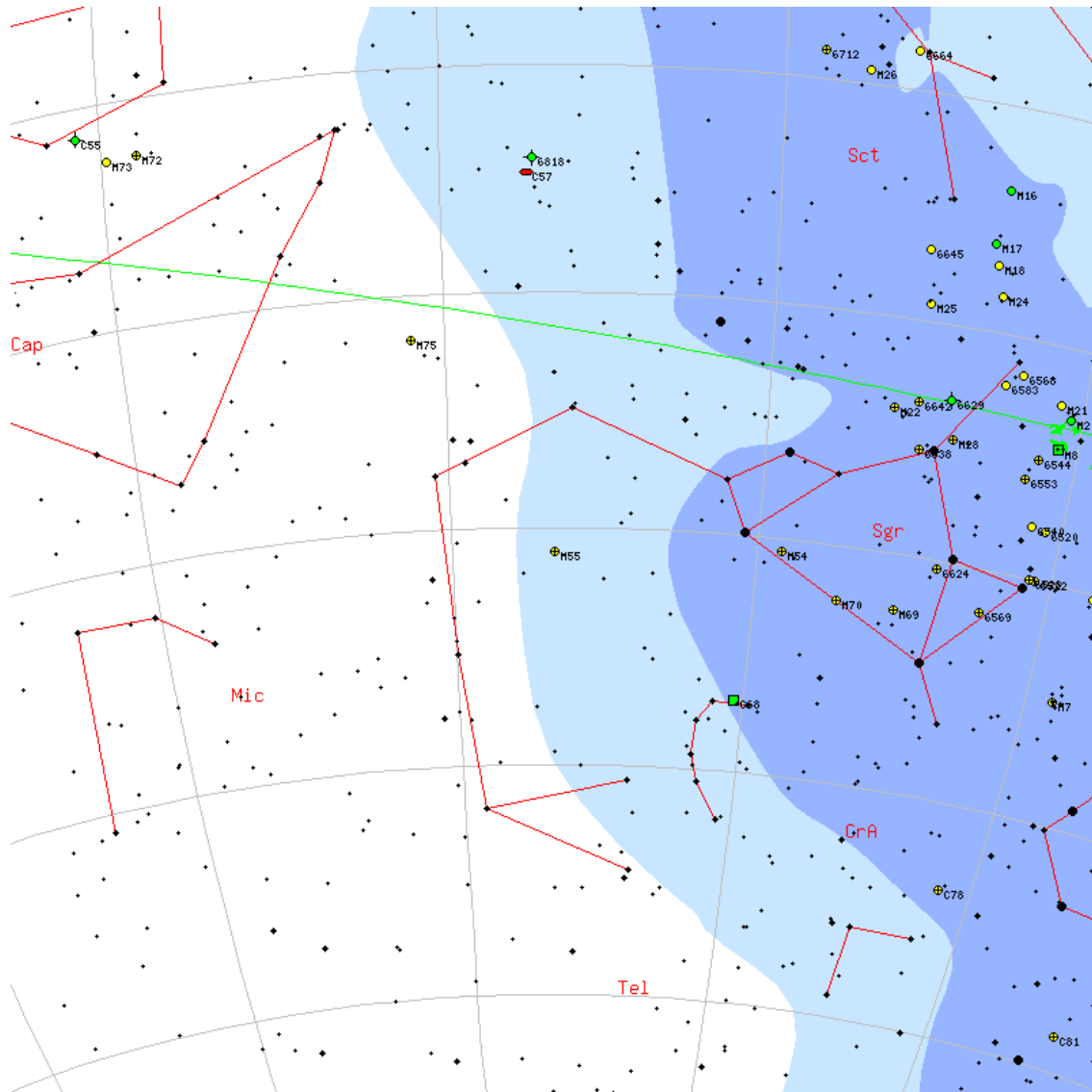


M54

M	M54	ID	NGC6715
Constellation	Sgr	Type	Gb
Magnitude	7.7	Size	9.1 x 9.1
RA	18h 55m	Dec	-30d 28m
Name			
Description	glob. cl. , vB, L, R, g, smbM, rrr, st 15		

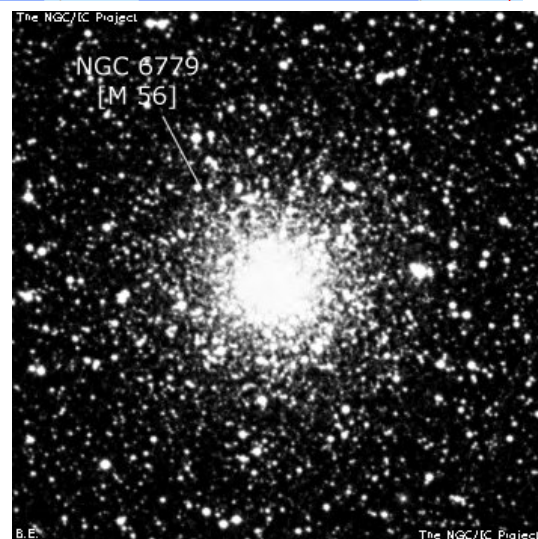
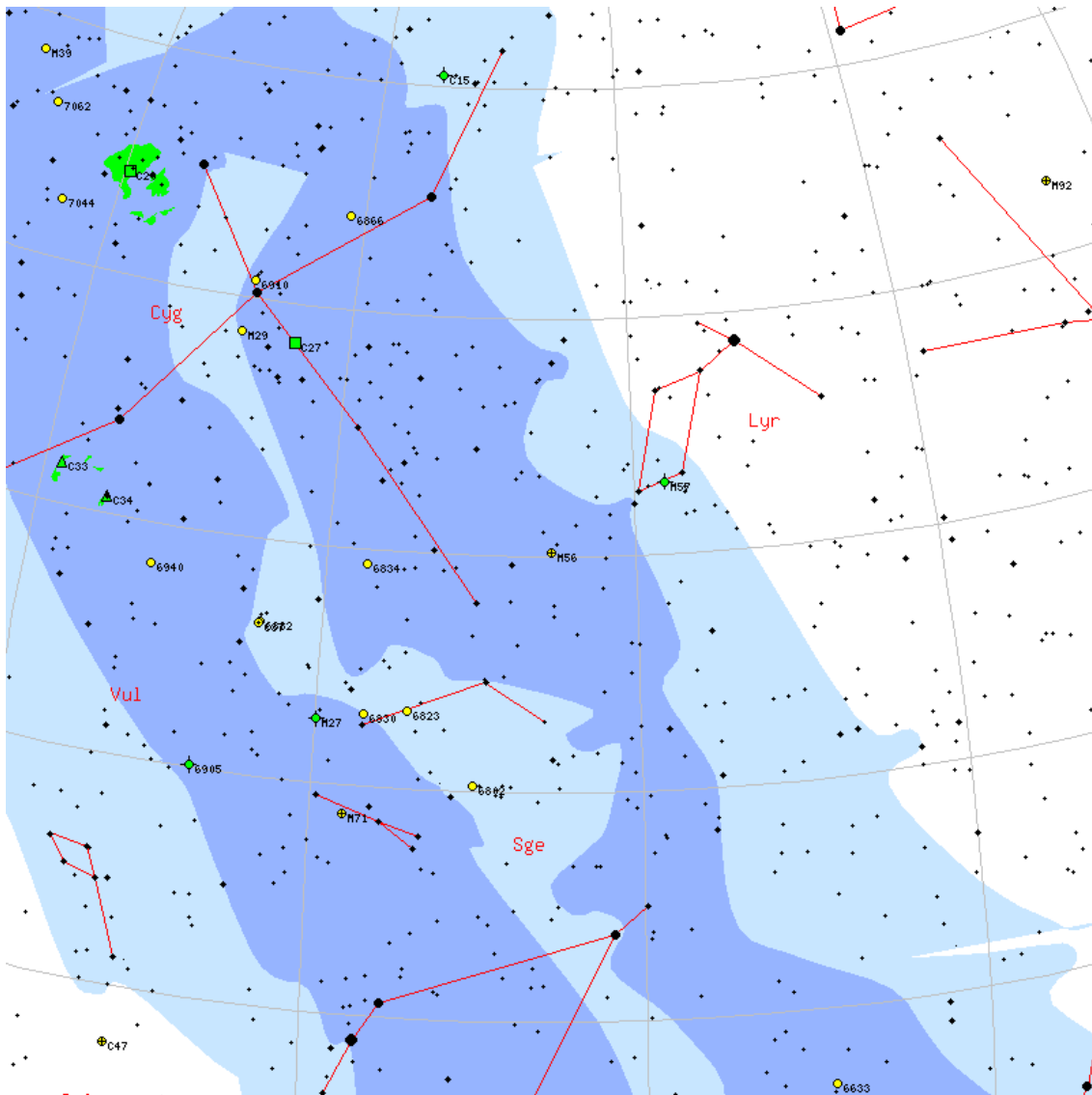


M	M55	ID	NGC6809
Constellation	Sgr	Type	Gb
Magnitude	7	Size	19 x 19
RA	19h 40m	Dec	-30d 58m
Name			
Description	glob. cl. , pB, L, R, vRi, vgbM, st 12...15		



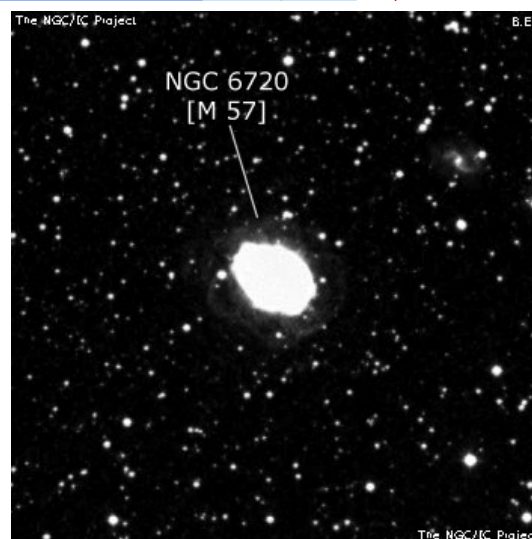
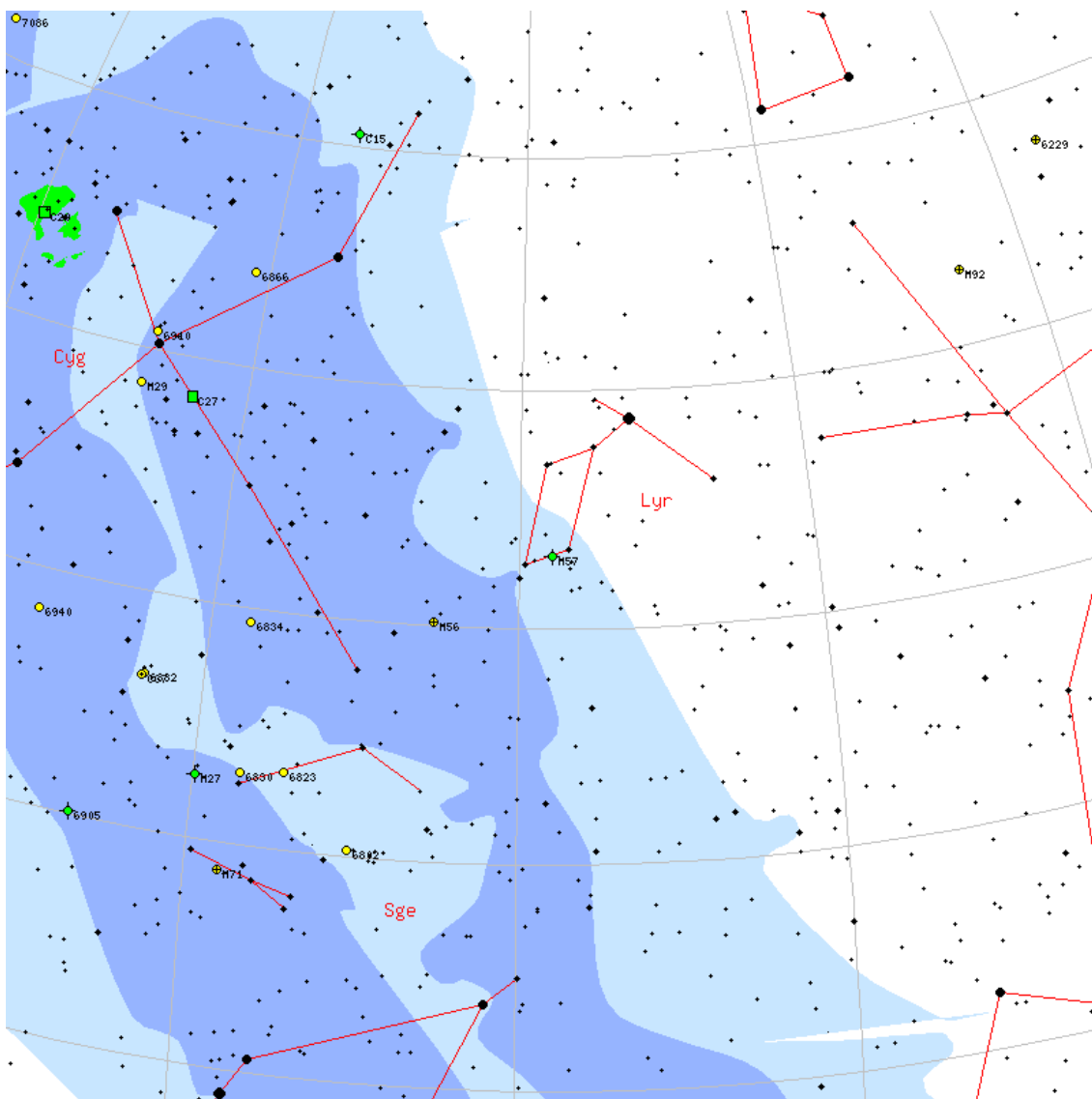
M56

M	M56	ID	NGC6779
Constellation	Lyr	Type	Gb
Magnitude	8.3	Size	7.1 x 7.1
RA	19h 16m	Dec	+30d 10m
Name			
Description	glob. cl. , B, L, iR, gvmCM, rrr, st 11...14		



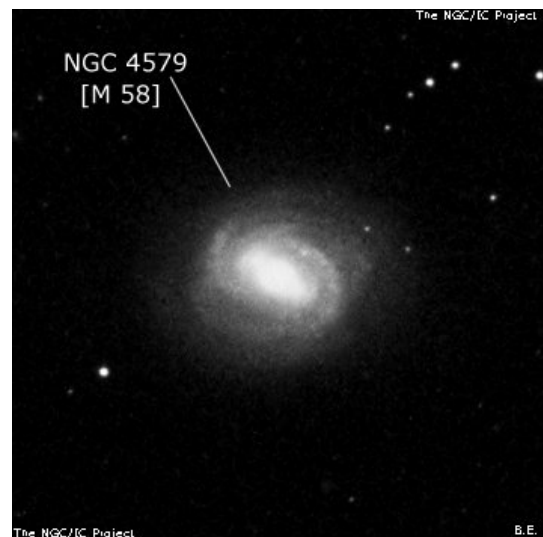
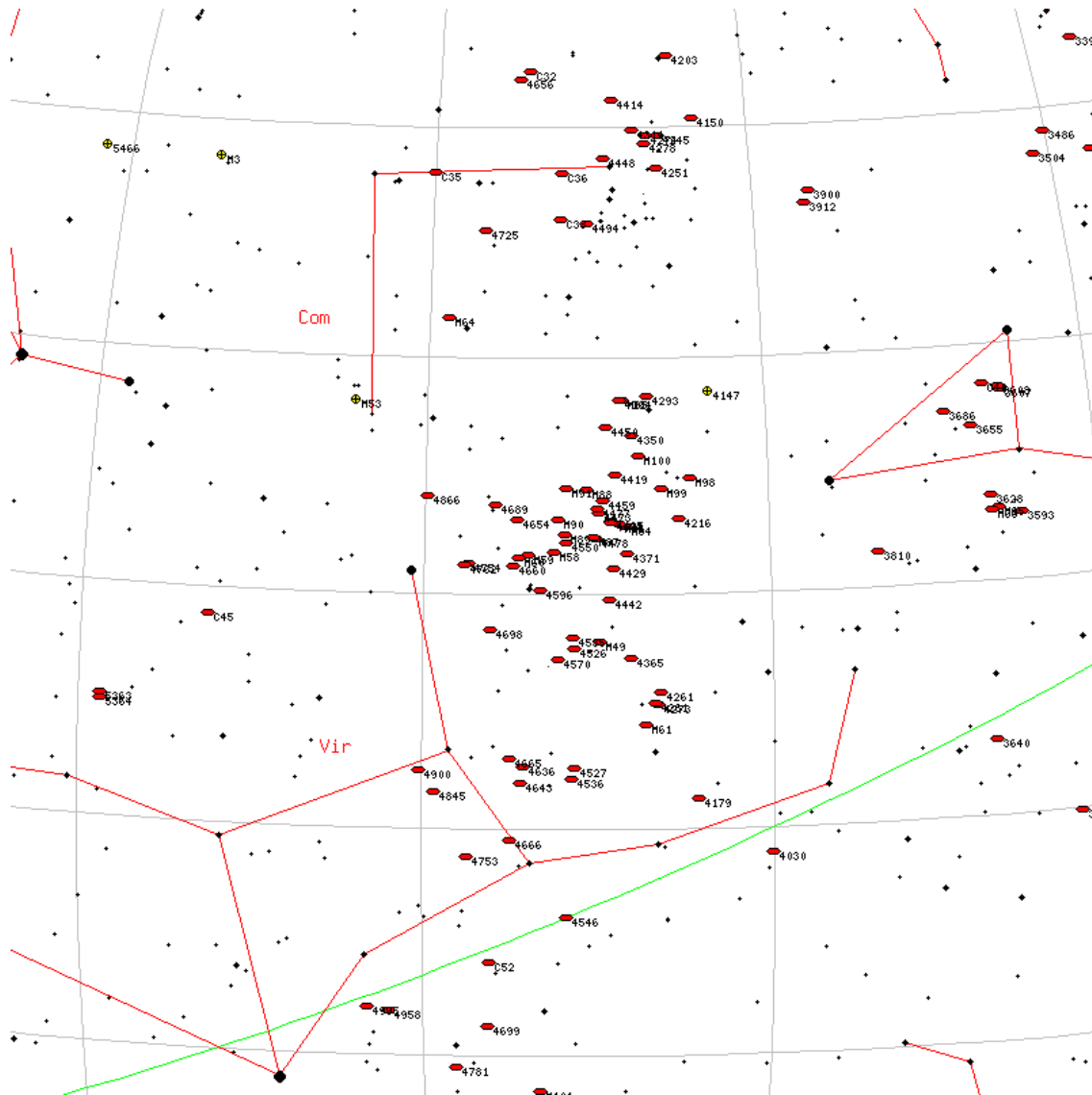
M57

M	M57	ID	NGC6720
Constellation	Lyr	Type	PI
Magnitude	9	Size	2.5 x 2.5
RA	18h 53m	Dec	+33d 01m
Name	Ring Nebula		
Description	!!!, ring , B, pL, cE (in Lyr)		

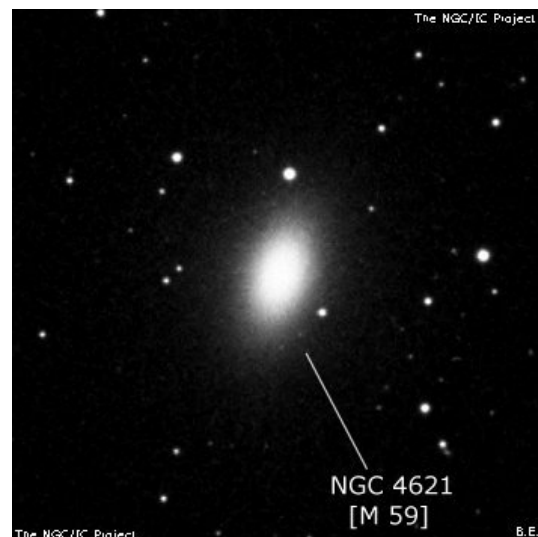
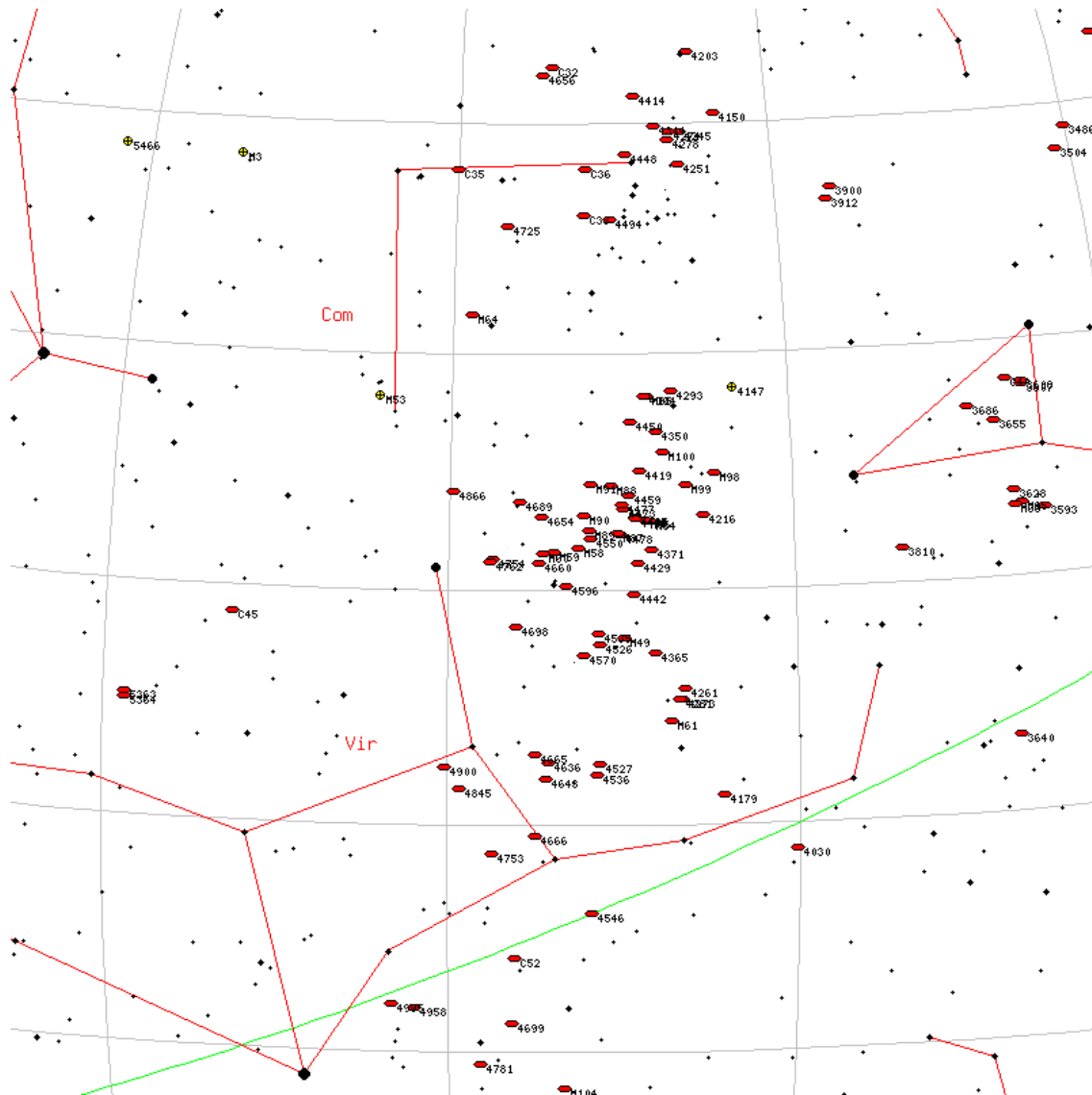


M58

M	M58	ID	NGC4579
Constellation	Vir	Type	Gx
Magnitude	9.8	Size	2.9 x 2.3
RA	12h 37m	Dec	+11d 49m
Name			
Description	B, L, iR, vmbM, r		



M	M59	ID	NGC4621
Constellation	Vir	Type	Gx
Magnitude	9.8	Size	2.7 x 1.9
RA	12h 41m	Dec	+11d 39m
Name			
Description	B, pL, IE, vsvmbM, 2 st p		

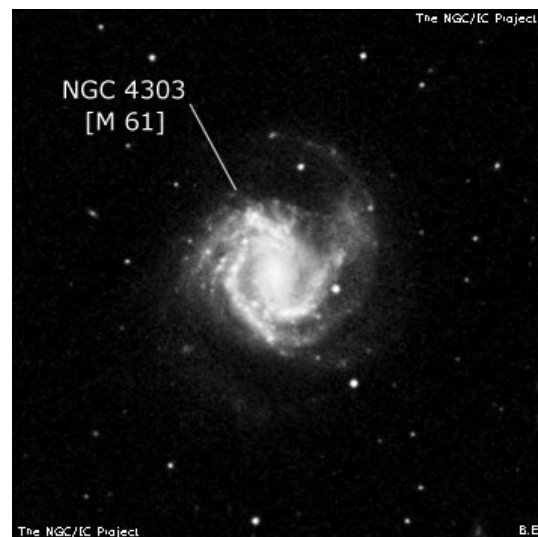
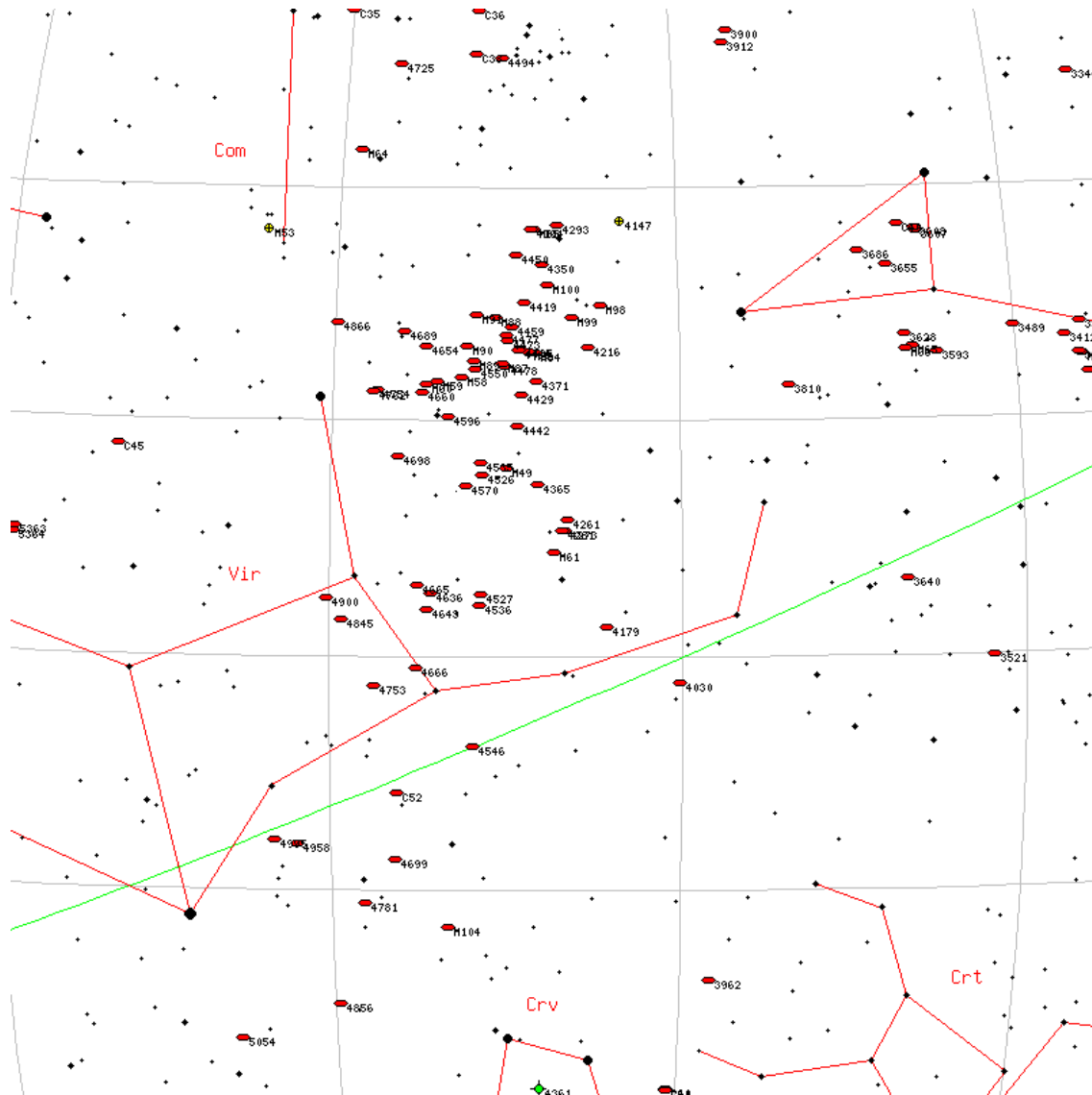


1

1

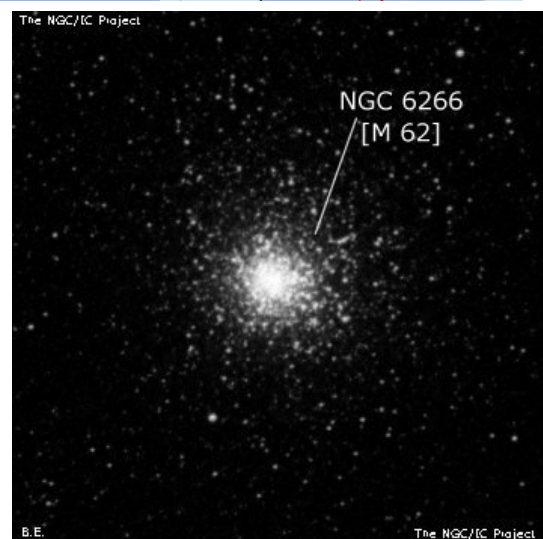
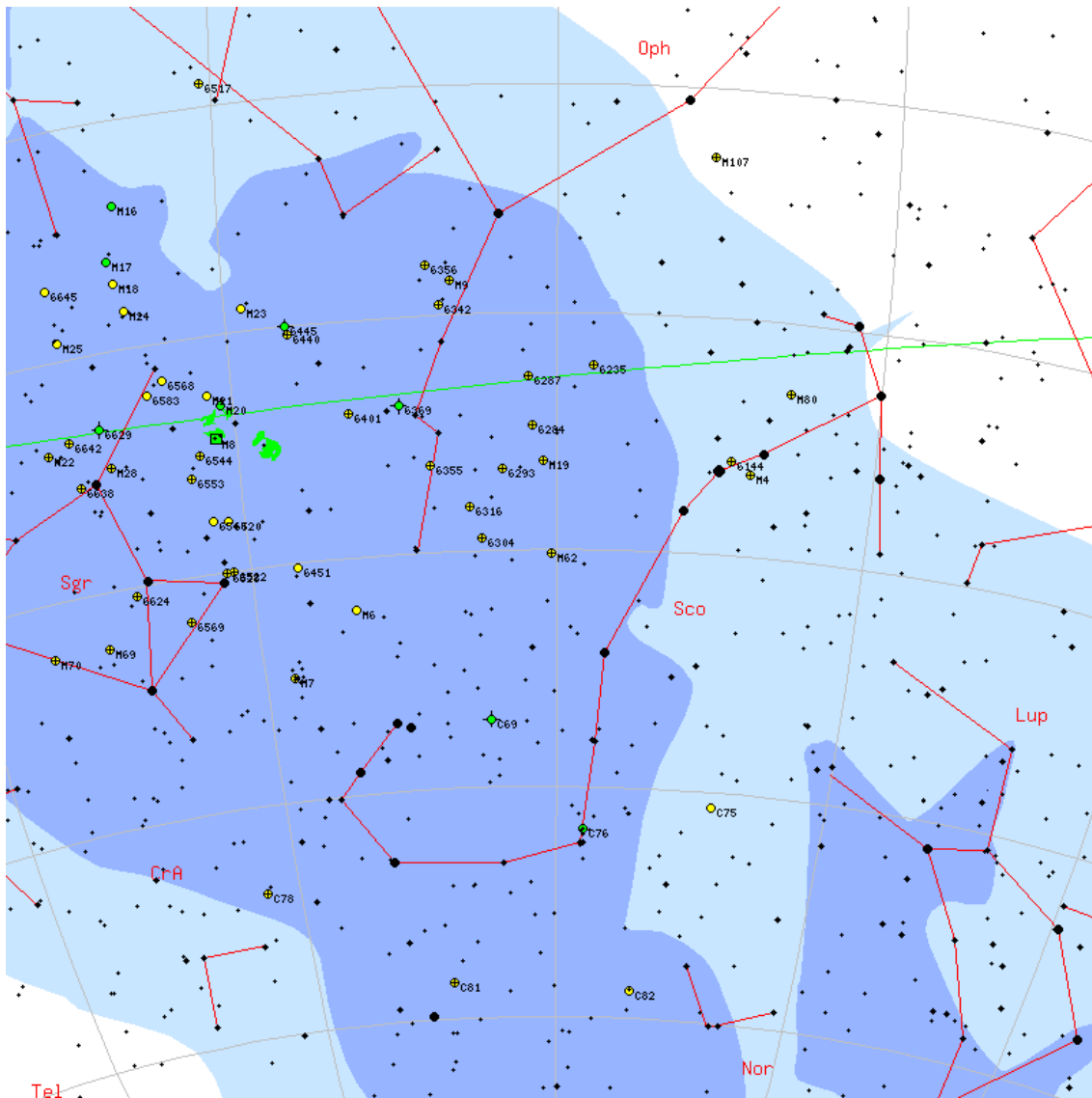


M	M61	ID	NGC4303
Constellation	Vir	Type	Gx
Magnitude	9.7	Size	6 x 6
RA	12h 21m	Dec	+04d 28m
Name			
Description	vB, vL, vsbM*, biN		

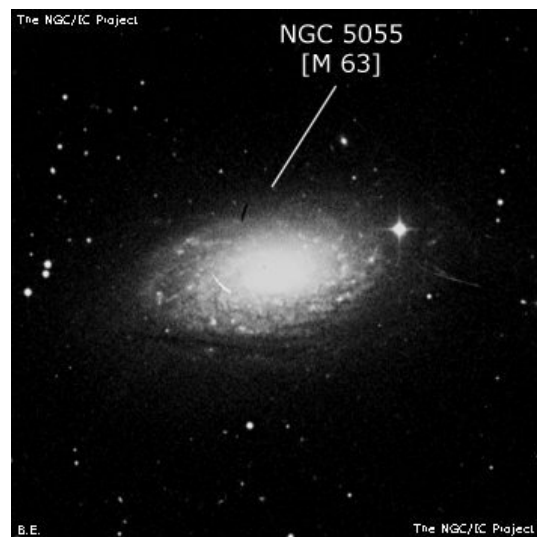
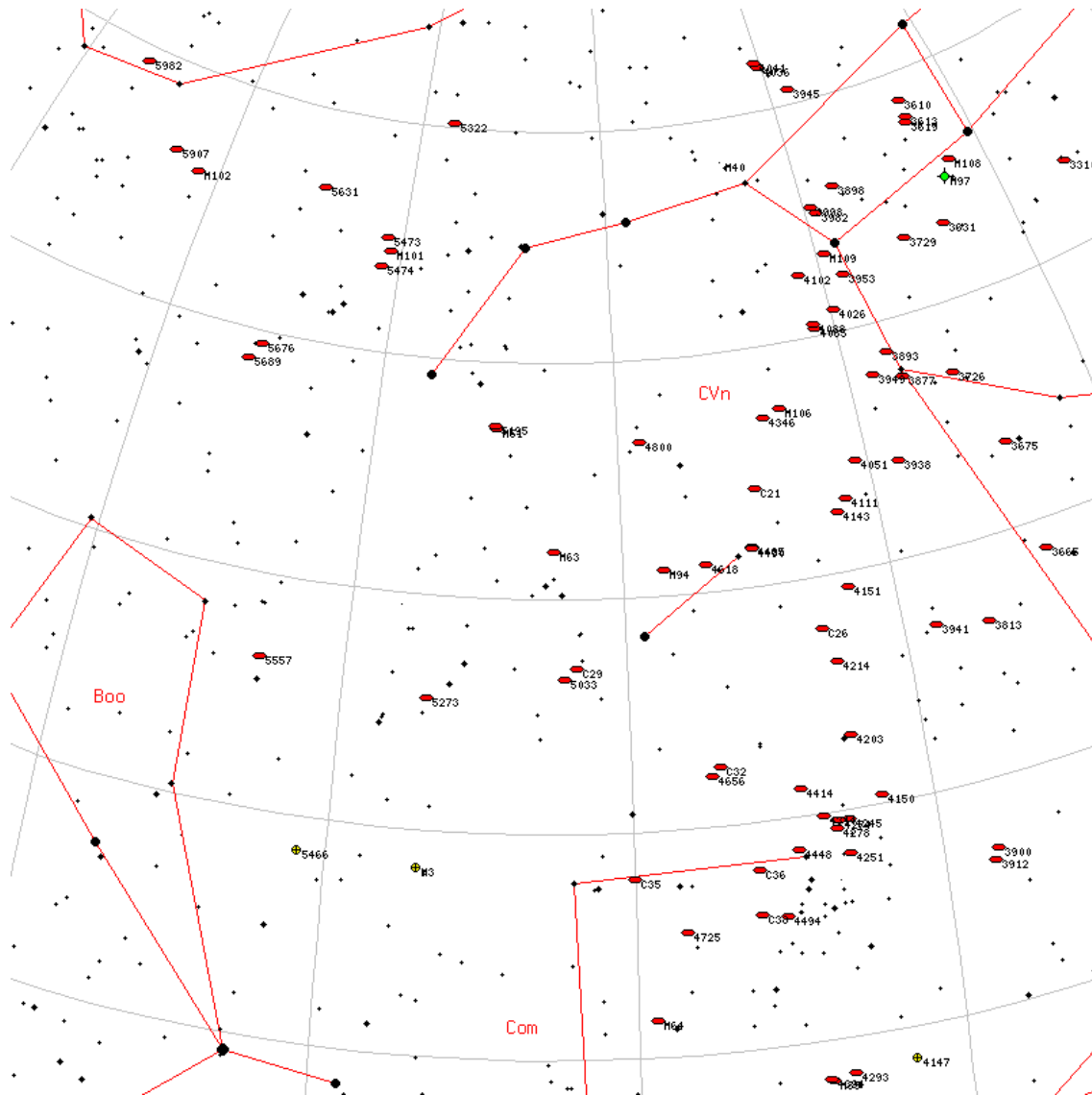


M62

M	M62	ID	NGC6266
Constellation	Oph	Type	Gb
Magnitude	6.6	Size	14.1 x 14.1
RA	17h 01m	Dec	-30d 07m
Name			
Description	! glob. cl. , vB, L, gmbM, rrr, st 14...16		

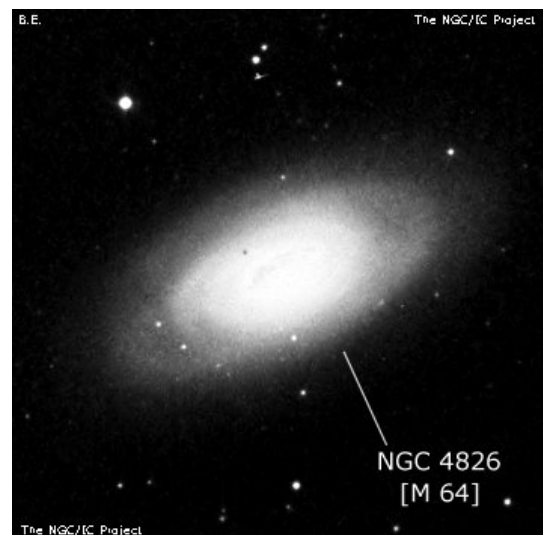
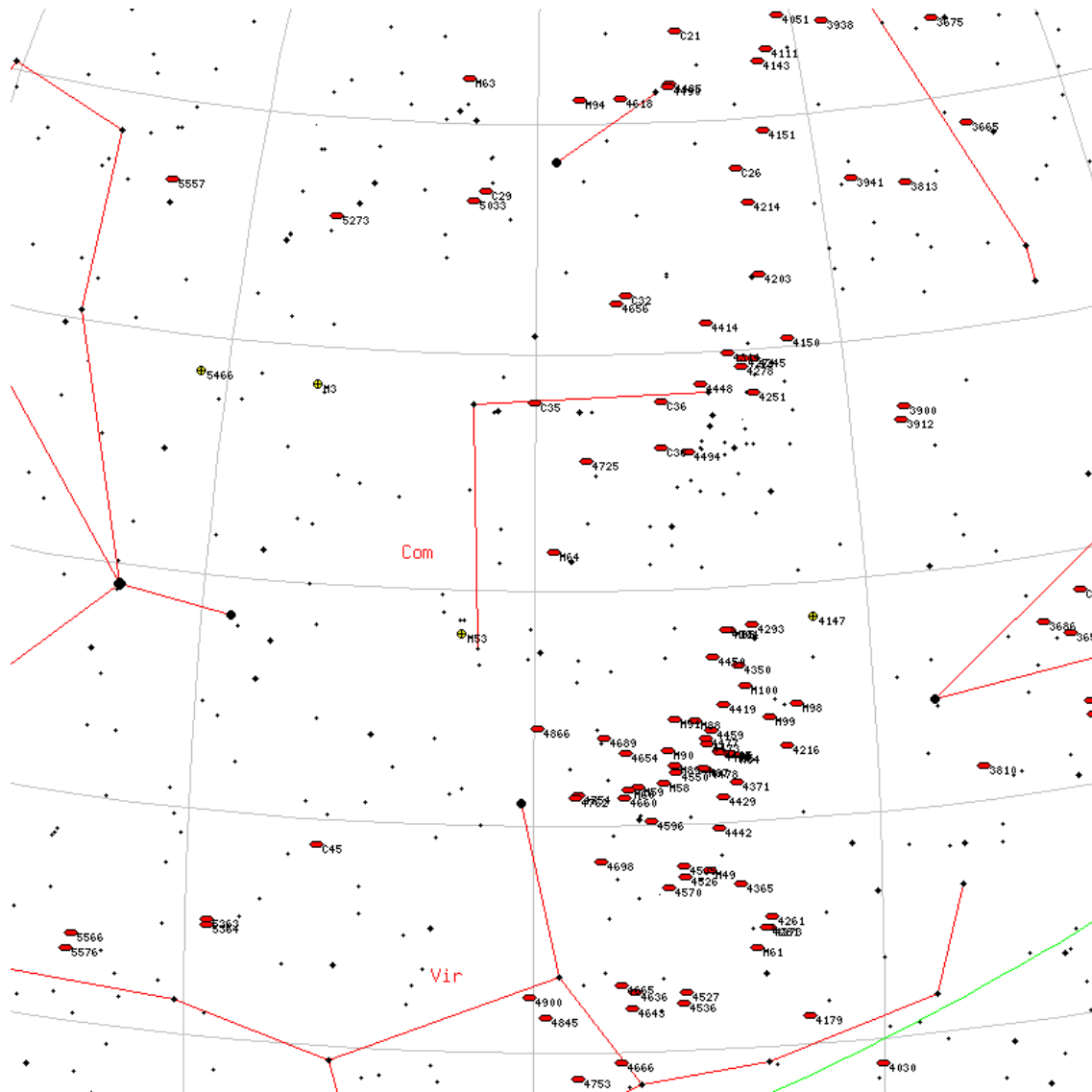


M	M63	ID	NGC5055
Constellation	CVn	Type	Gx
Magnitude	8.6	Size	6.3 x 3.6
RA	13h 15m	Dec	+42d 01m
Name	Sunflower Galaxy		
Description	vB, L, pmE 120deg +/- , vsmbMBN		

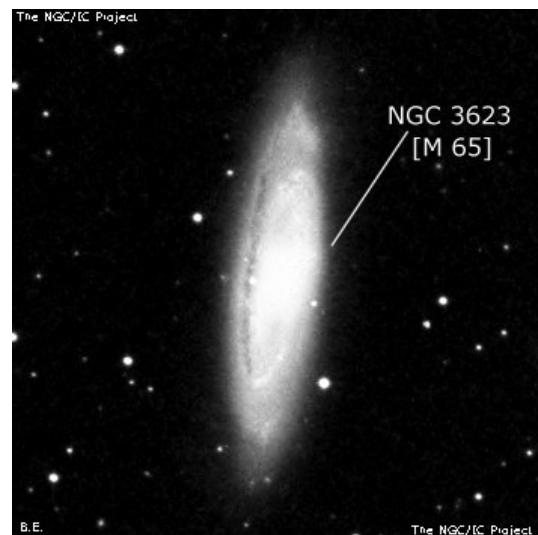
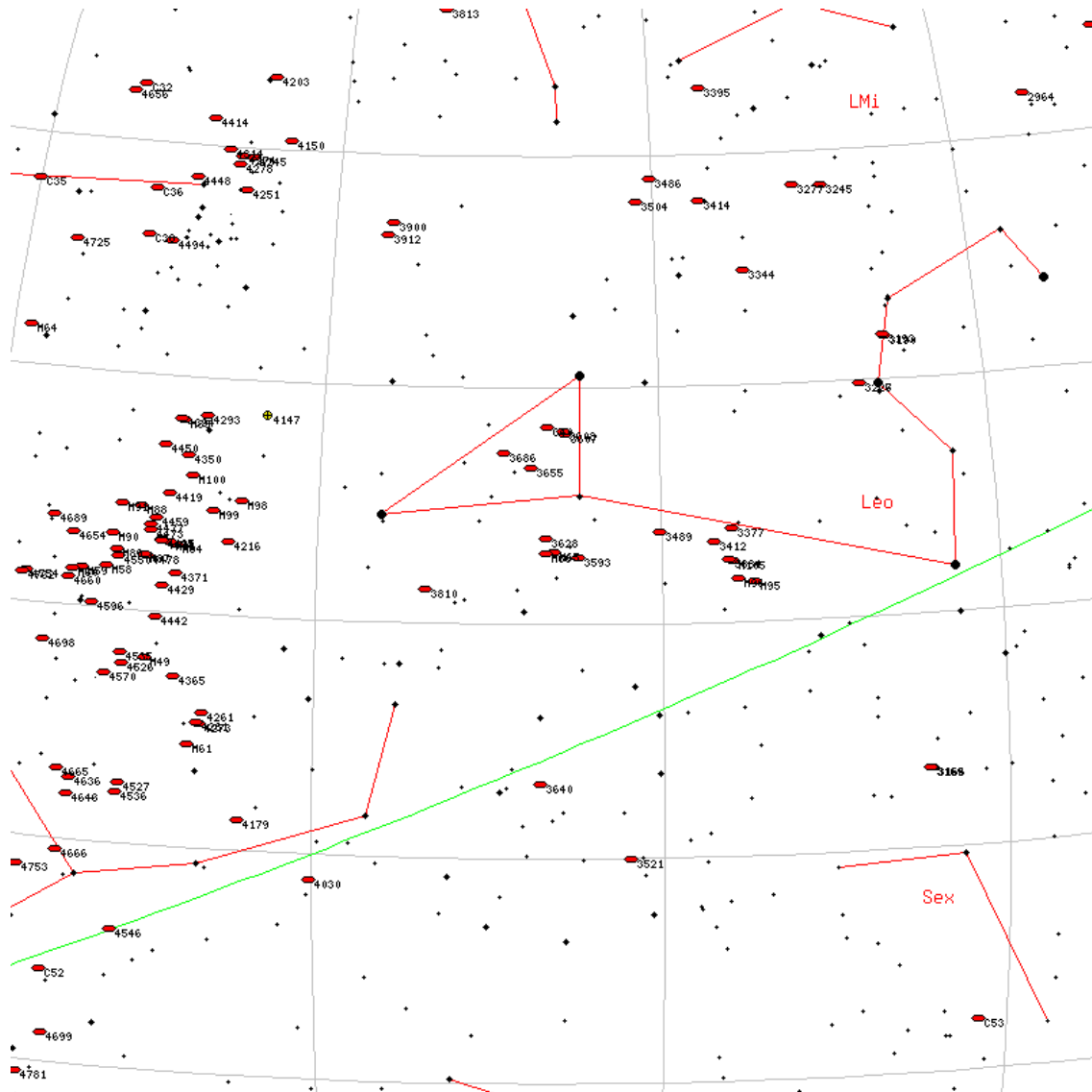


M64

M	M64	ID	NGC4826
Constellation	Com	Type	Gx
Magnitude	8.5	Size	5 x 2.7
RA	12h 56m	Dec	+21d 40m
Name	Black-Eye Galaxy		
Description	! vB, vL, vmE 120deg +/- , bMSBN		

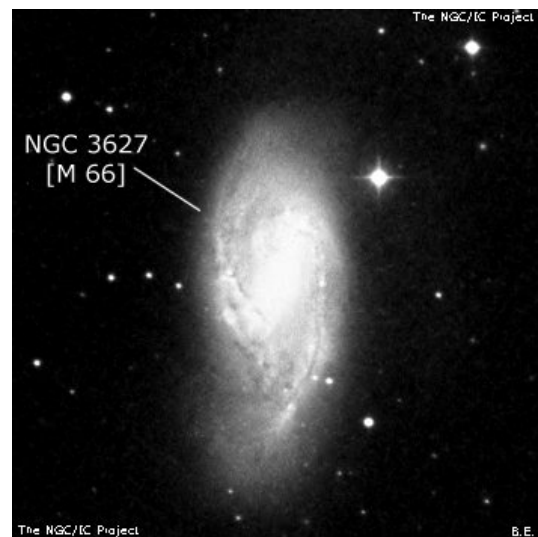
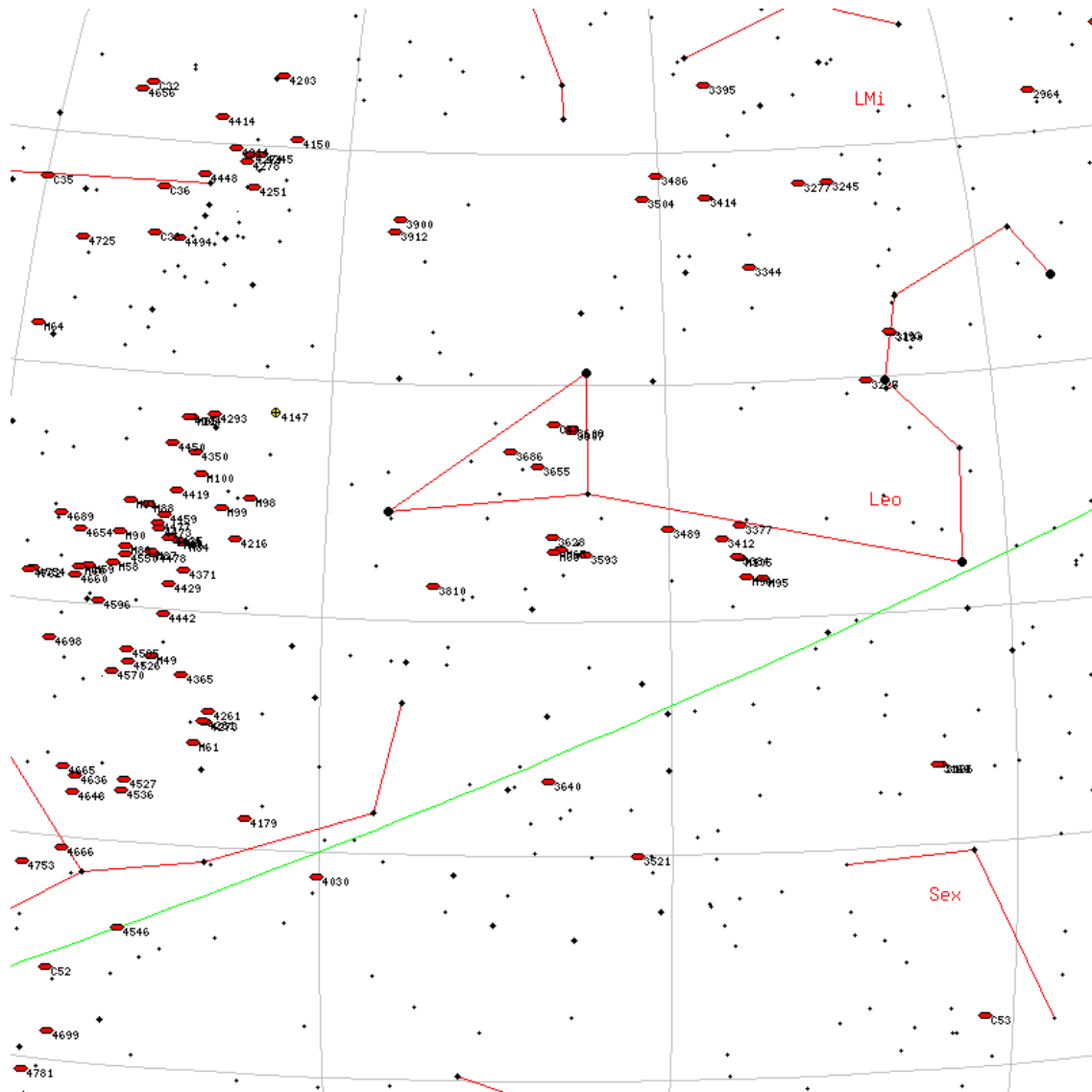


M	M65	ID	NGC3623
Constellation	Leo	Type	Gx
Magnitude	9.3	Size	4.9 x 1.4
RA	11h 18m	Dec	+13d 04m
Name			
Description	B, vL, mE 165deg +/- , gbMBN		

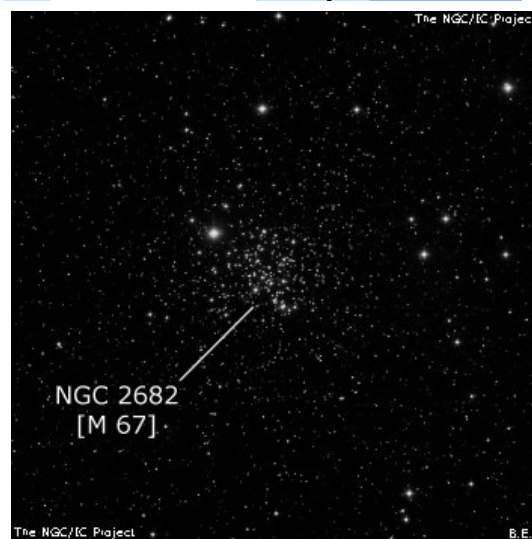
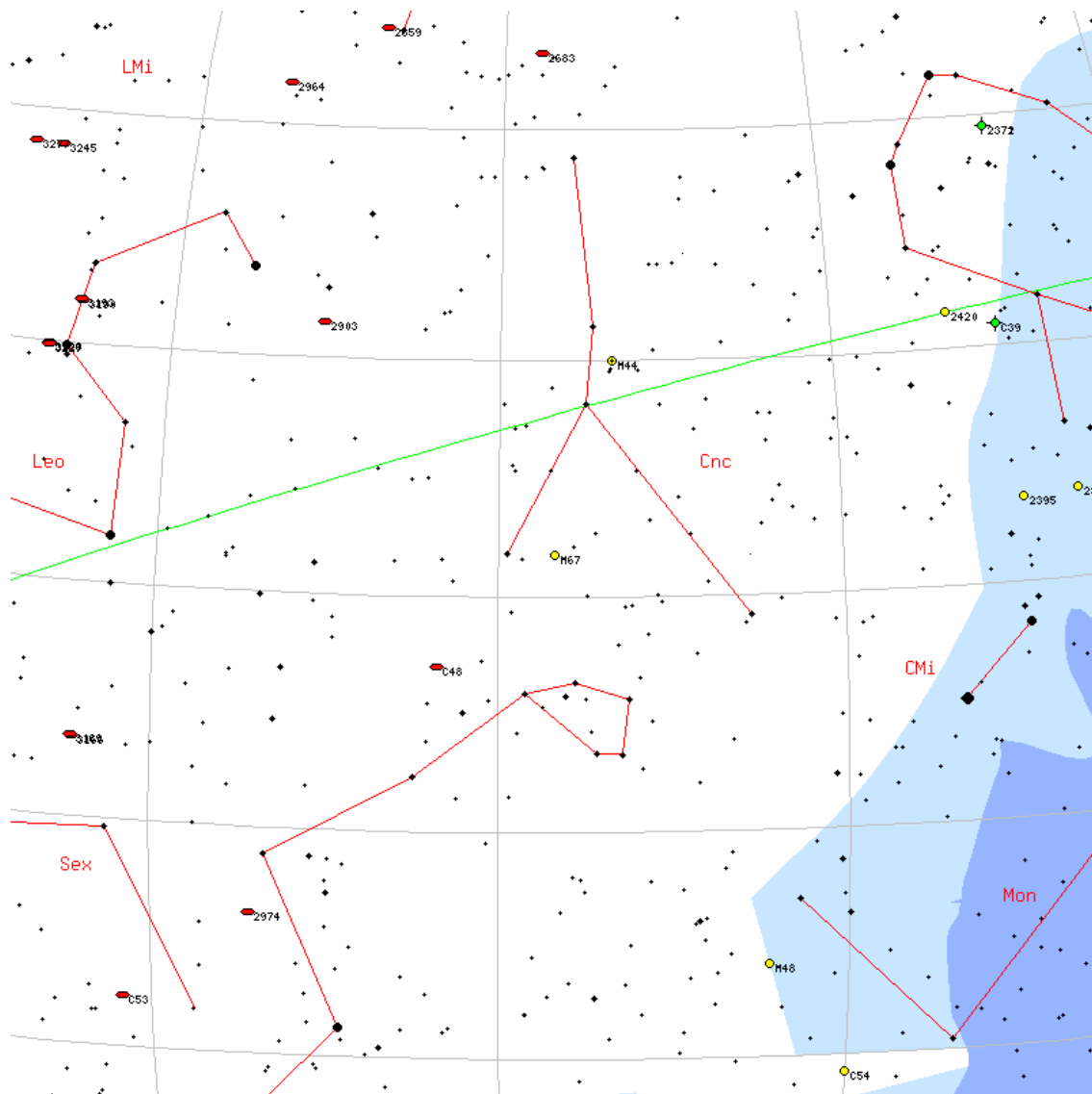


M66

M	M66	ID	NGC3627
Constellation	Leo	Type	Gx
Magnitude	9	Size	4.6 x 2.1
RA	11h 20m	Dec	+12d 58m
Name			
Description	B, vL, mE 150deg , mbM, 2 st np		

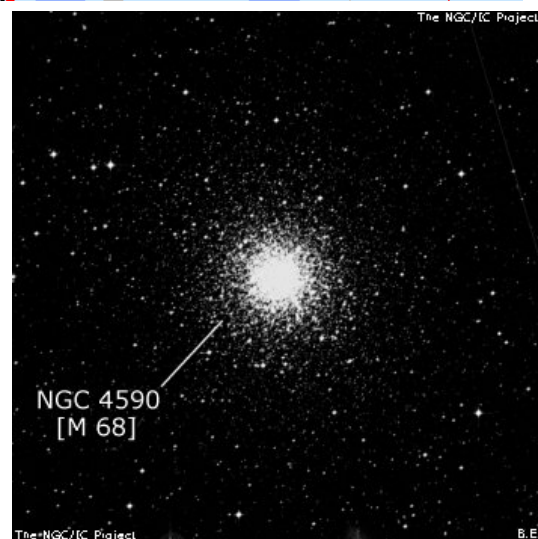
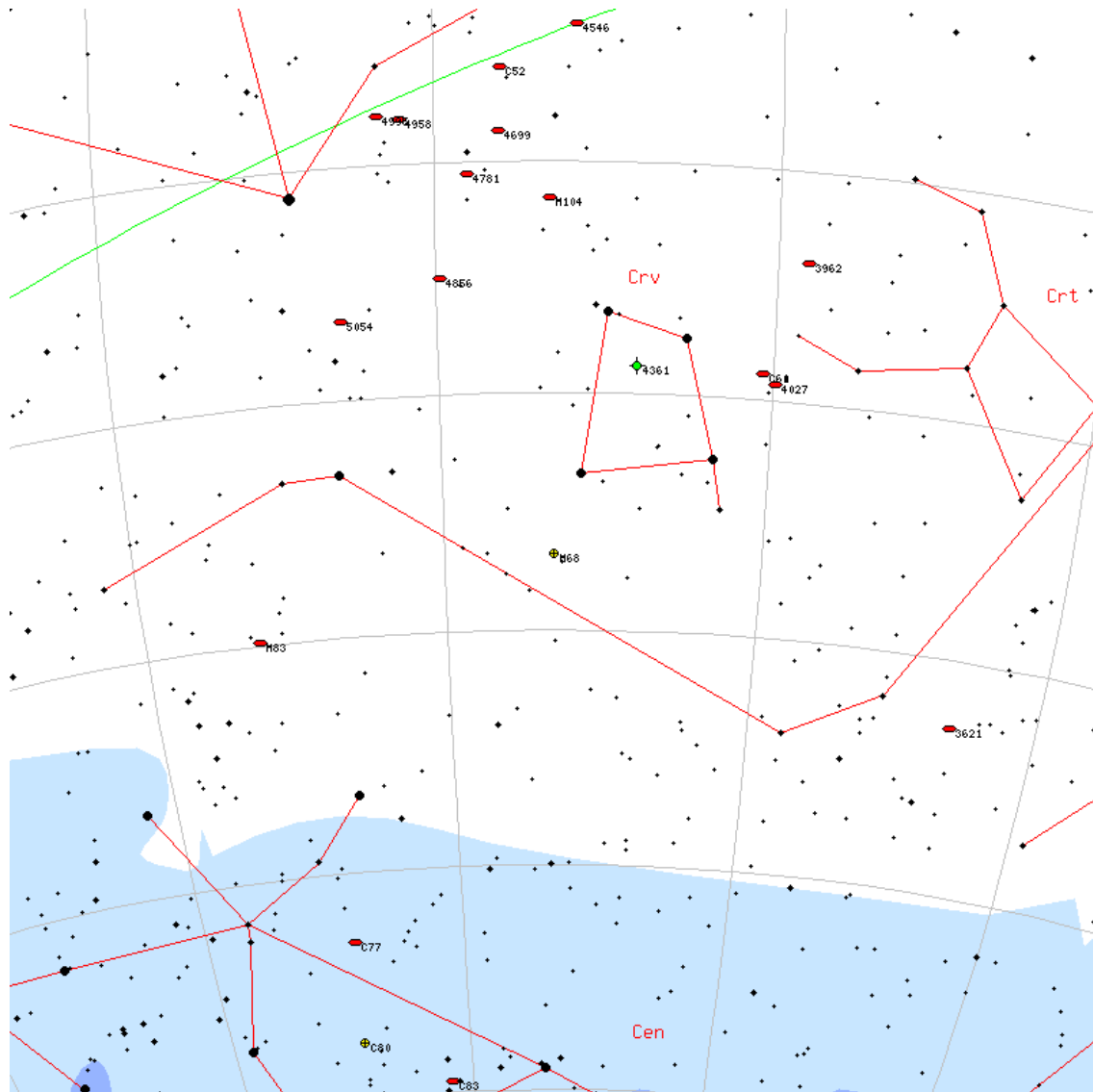


M	M67	ID	NGC2682
Constellation	Cnc	Type	OC
Magnitude	6.9	Size	30 x 30
RA	08h 50m	Dec	+11d 49m
Name			
Description	! Cl, vB, vL, eRi, IC, st 10...15		

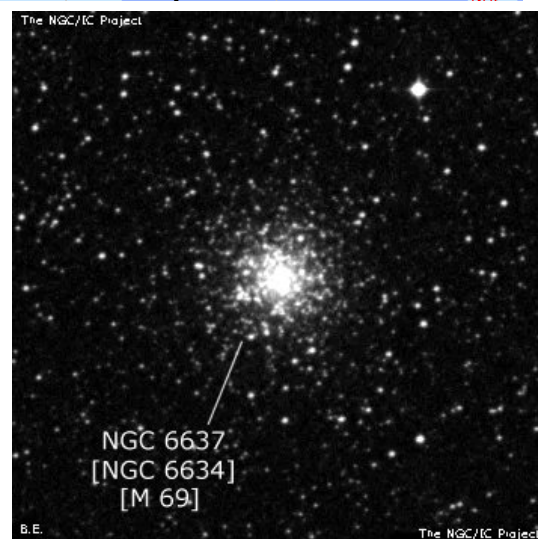
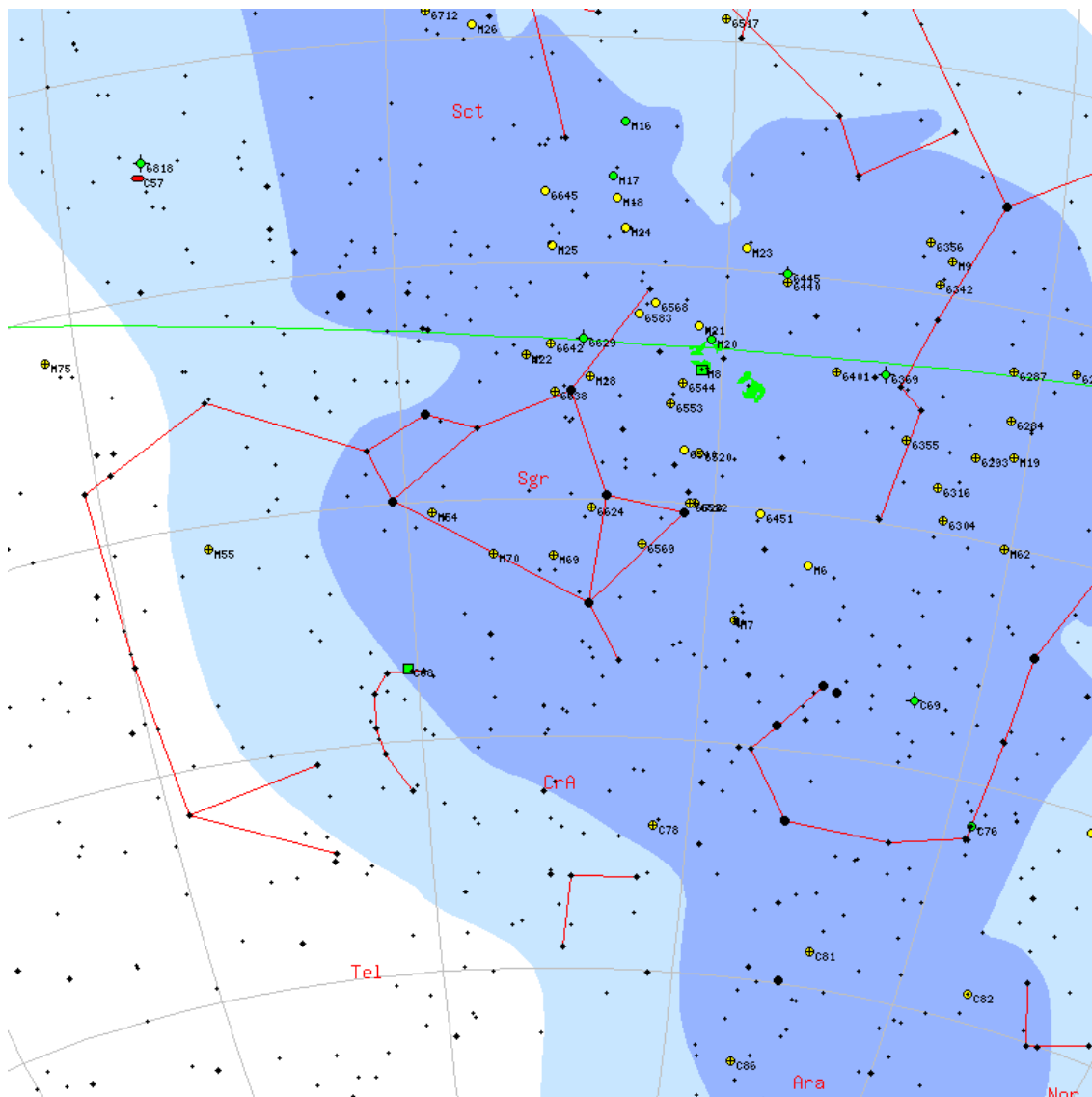


M68

M	M68	ID	NGC4590
Constellation	Hya	Type	Gb
Magnitude	8.2	Size	12 x 12
RA	12h 39m	Dec	-26d 45m
Name			
Description	glob. cl. , L, eRi, vC, iR, rrr, st 12		

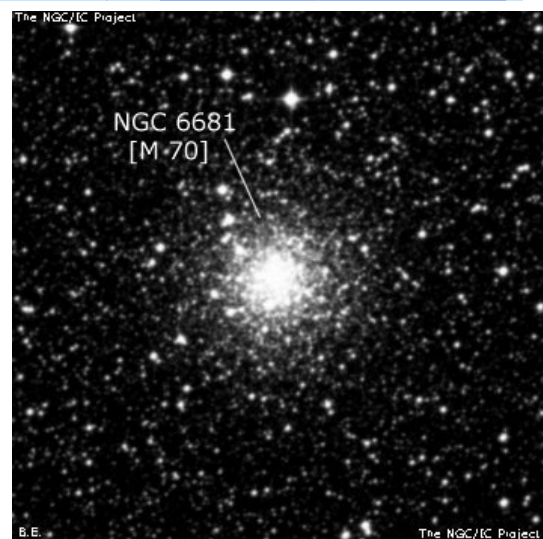
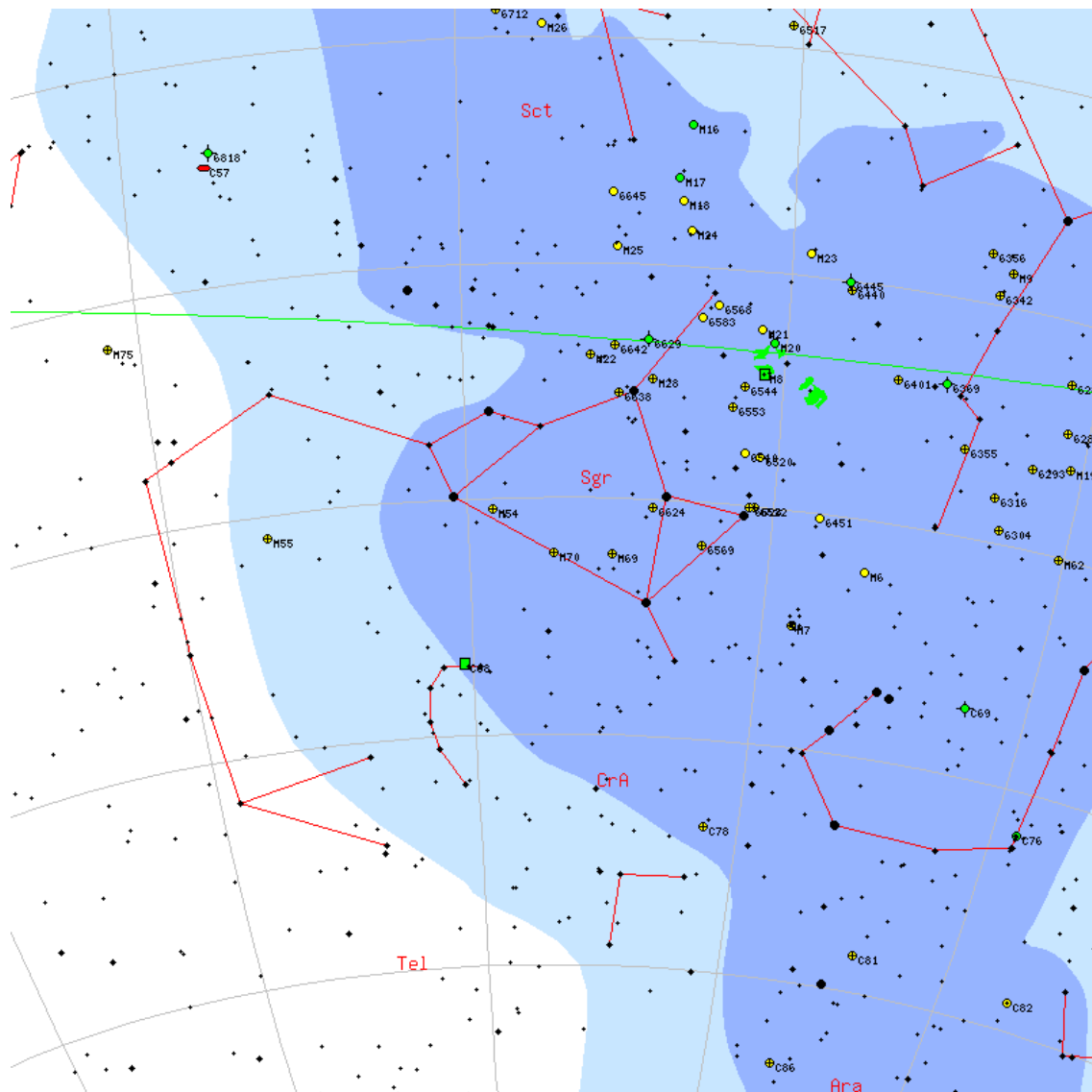


M	M69	ID	NGC6637
Constellation	Sgr	Type	Gb
Magnitude	7.7	Size	7.1 x 7.1
RA	18h 31m	Dec	-32d 21m
Name			
Description	glob. cl. , B, L, R, rrr, st 14...16		

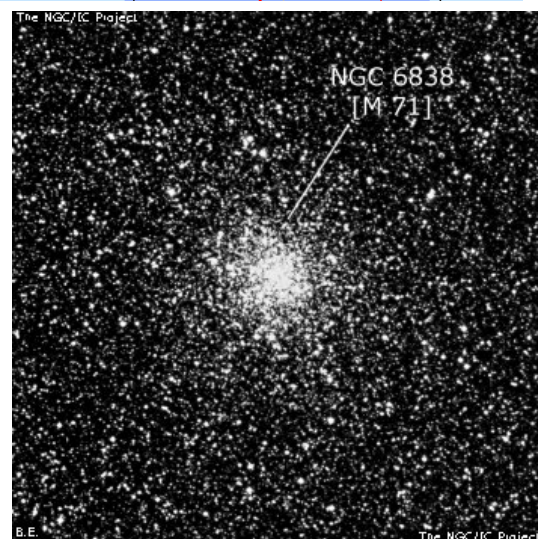
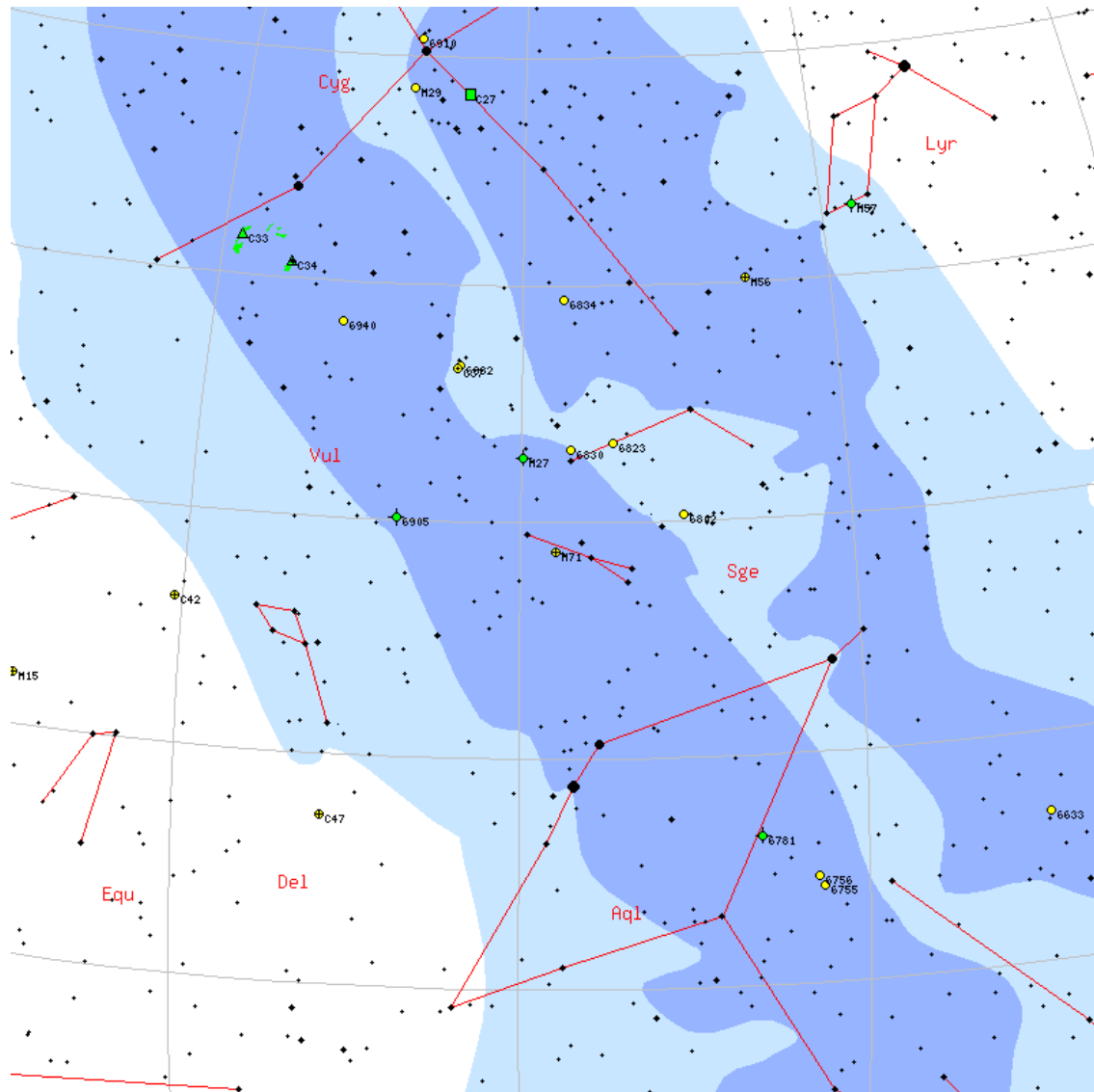


M70

M	M70	ID	NGC6681
Constellation	Sgr	Type	Gb
Magnitude	8.1	Size	7.8 x 7.8
RA	18h 43m	Dec	-32d 17m
Name			
Description	glob. cl. , B, pL, R, gbM, st 14...17		

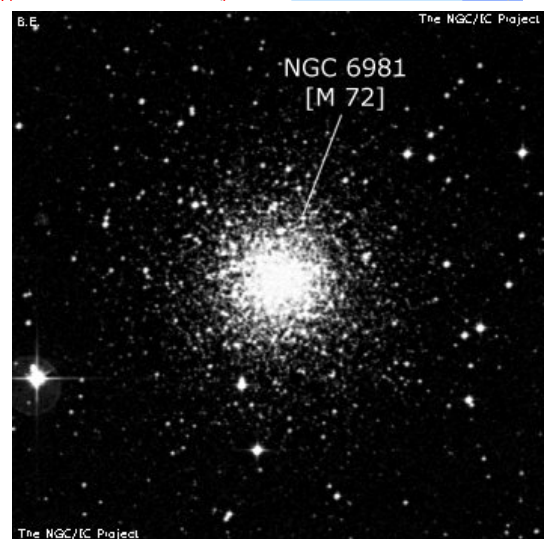
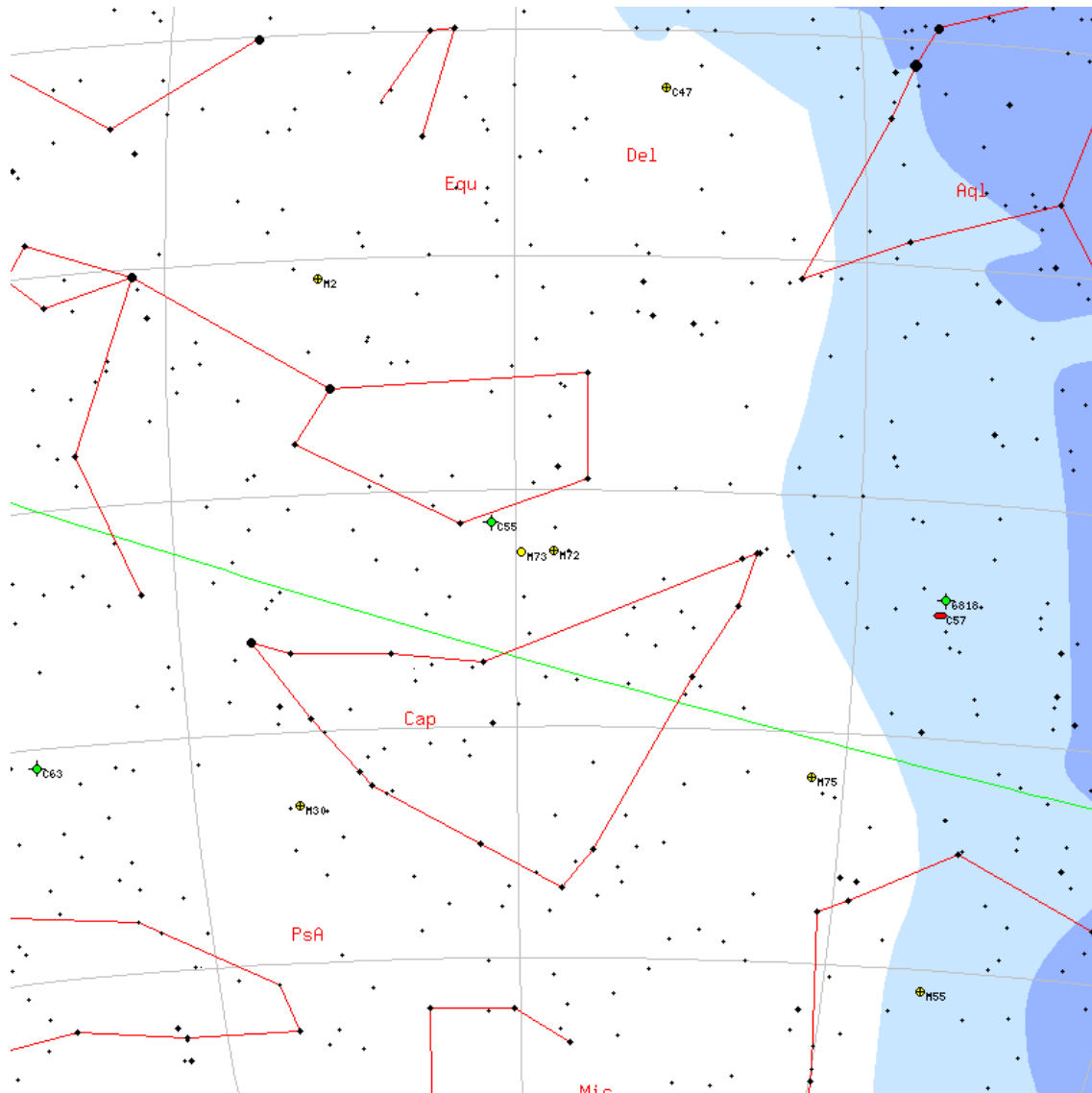


M	M71	ID	NGC6838
Constellation	Sge	Type	Gb
Magnitude	8.3	Size	7.2 x 7.2
RA	19h 53m	Dec	+18d 46m
Name			
Description	Cl, vL, vRi, pmC, st 11...16		

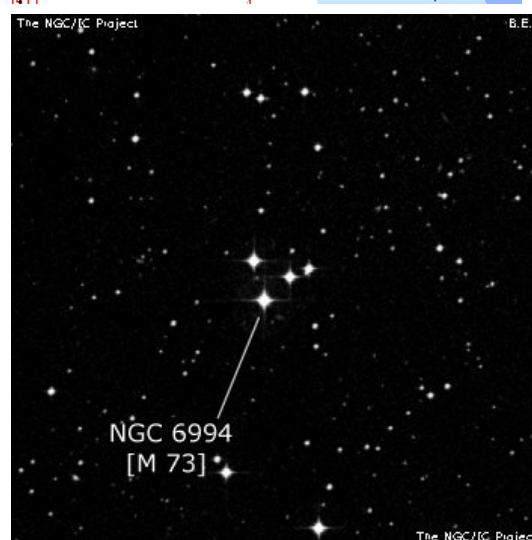
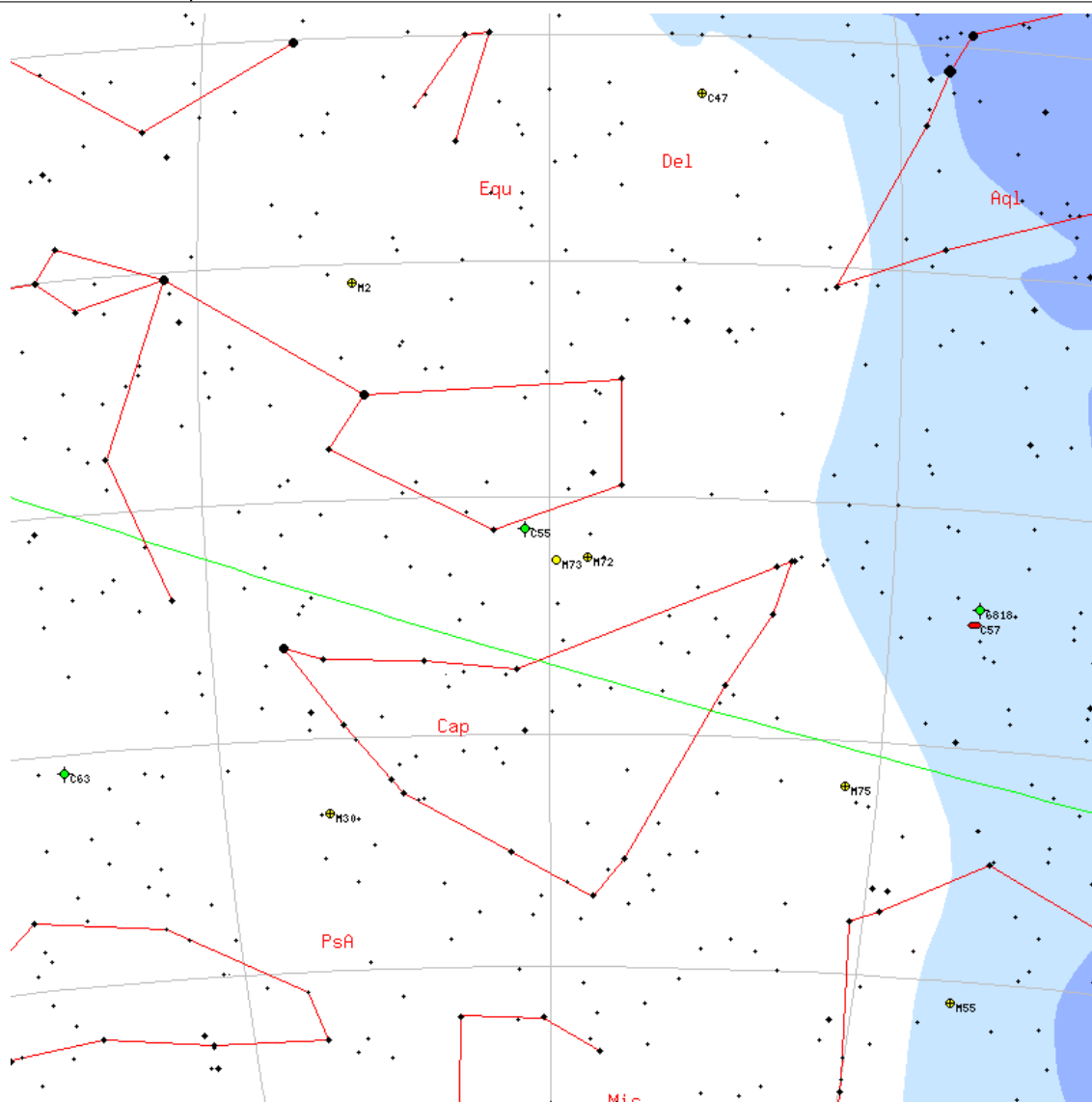


M72

M	M72	ID	NGC6981
Constellation	Aqr	Type	Gb
Magnitude	9.4	Size	5.9 x 5.9
RA	20h 53m	Dec	-12d 31m
Name			
Description	glob. cl. , pB, pL, R, gmCM, rrr		

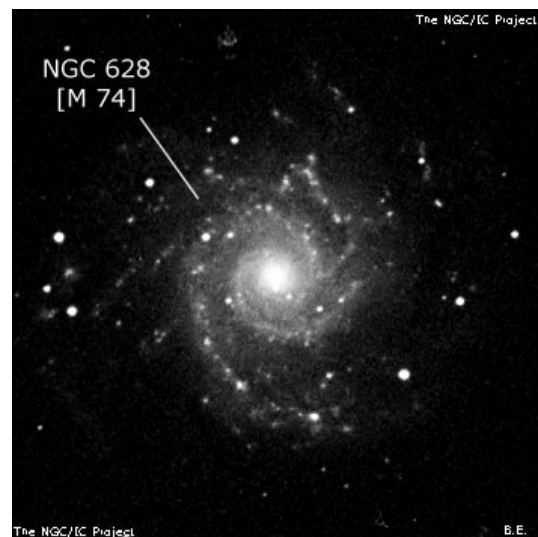
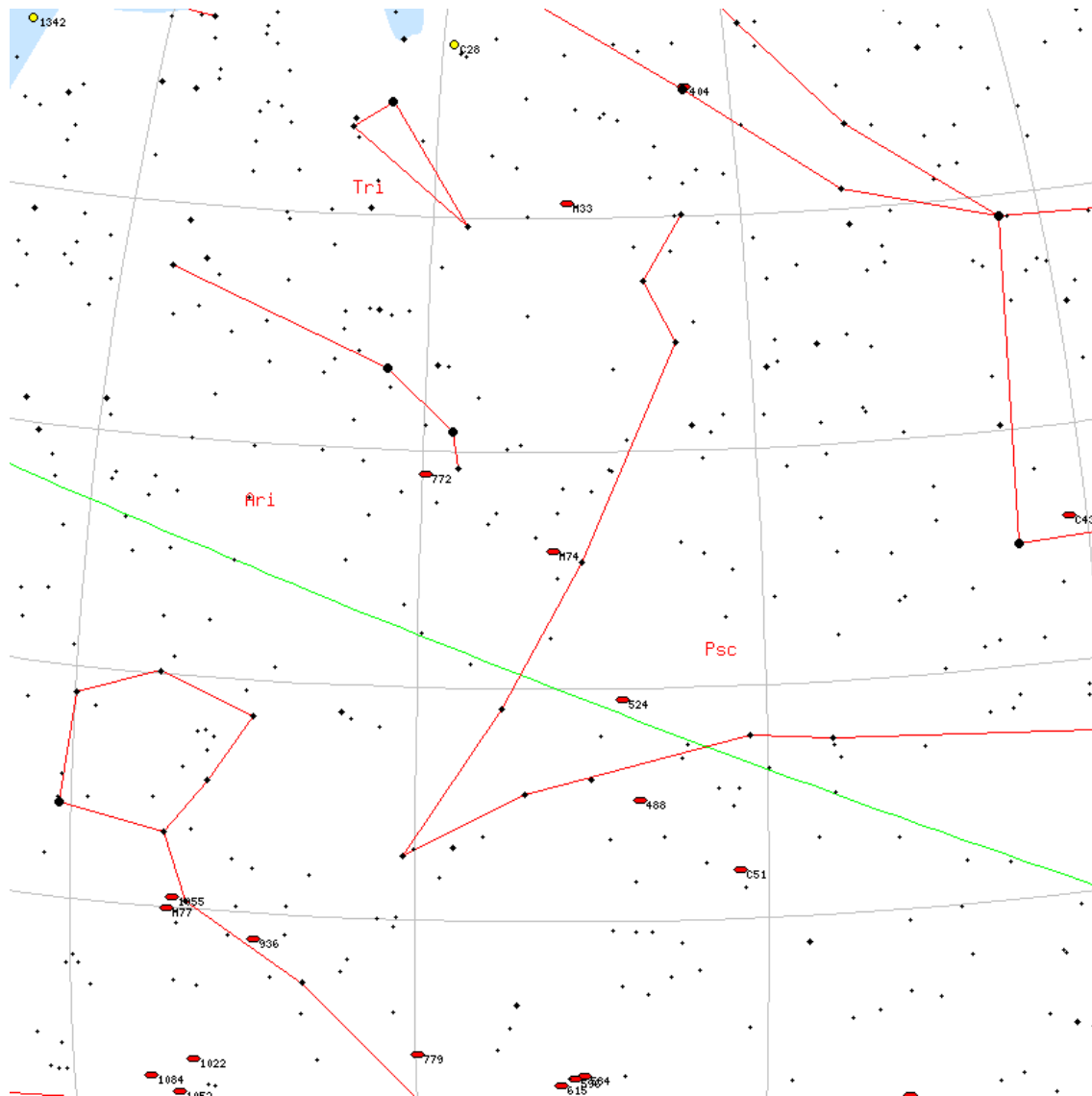


M	M73	ID	NGC6994
Constellation	Aqr	Type	OC
Magnitude	9	Size	3 x 3
RA	20h 58m	Dec	-12d 37m
Name			
Description	Cl, eP, vIC, no neb		

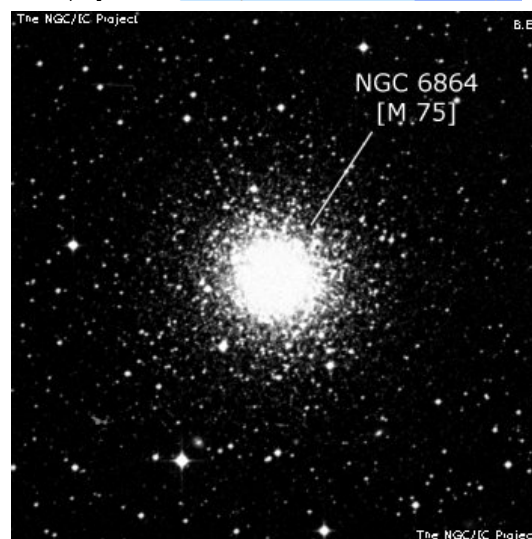
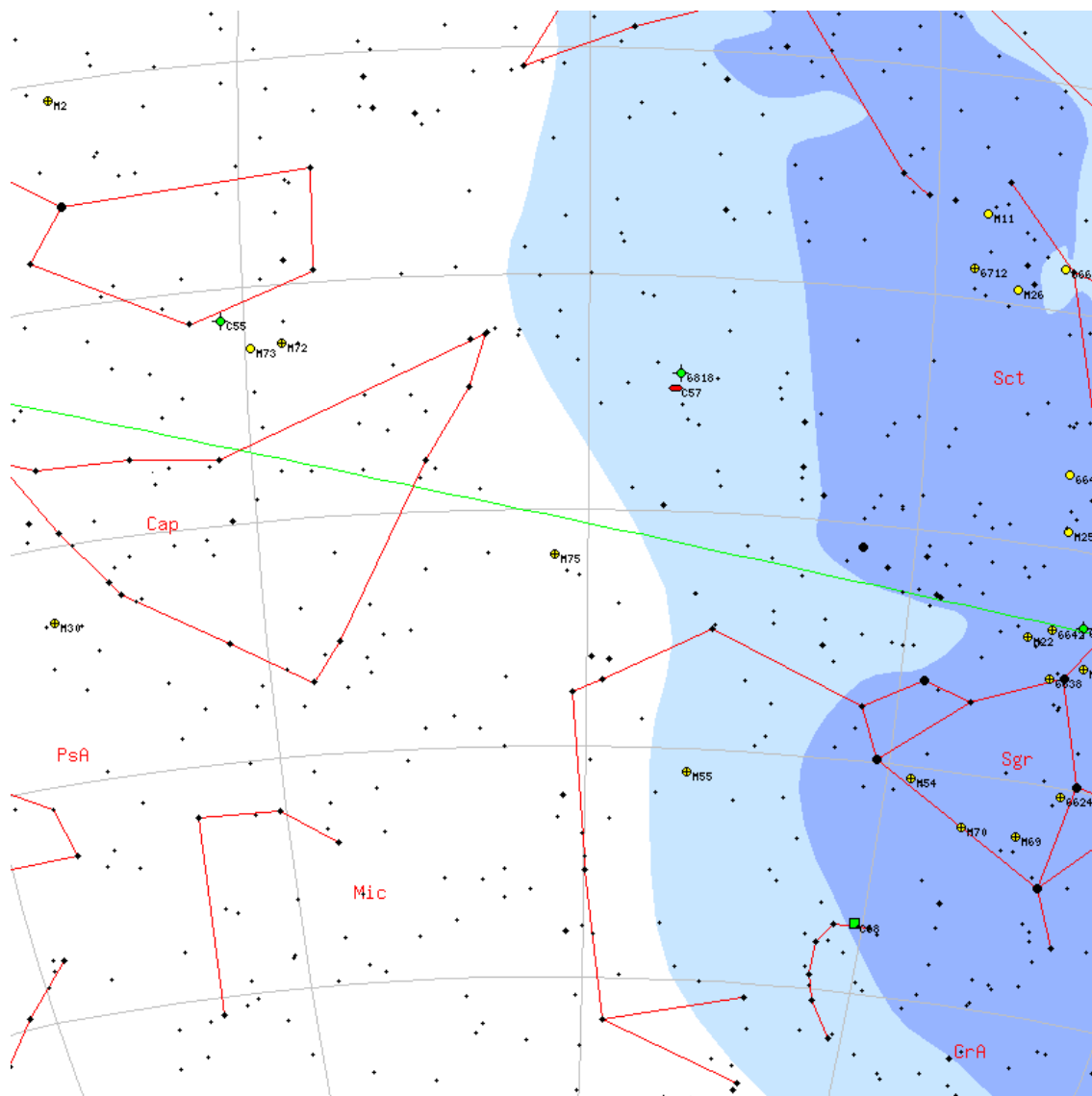


M74

M	M74	ID	NGC628
Constellation	Psc	Type	Gx
Magnitude	9.2	Size	5.2 x 4.8
RA	01h 36m	Dec	+15d 46m
Name			
Description	glob. cl. , F, vL, R, vg, psmbM, rr		

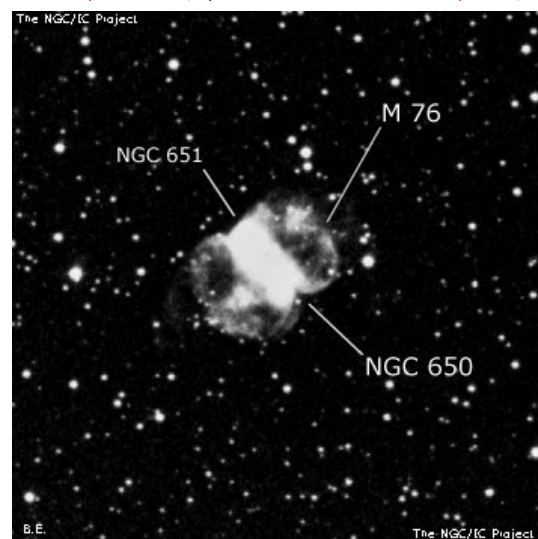
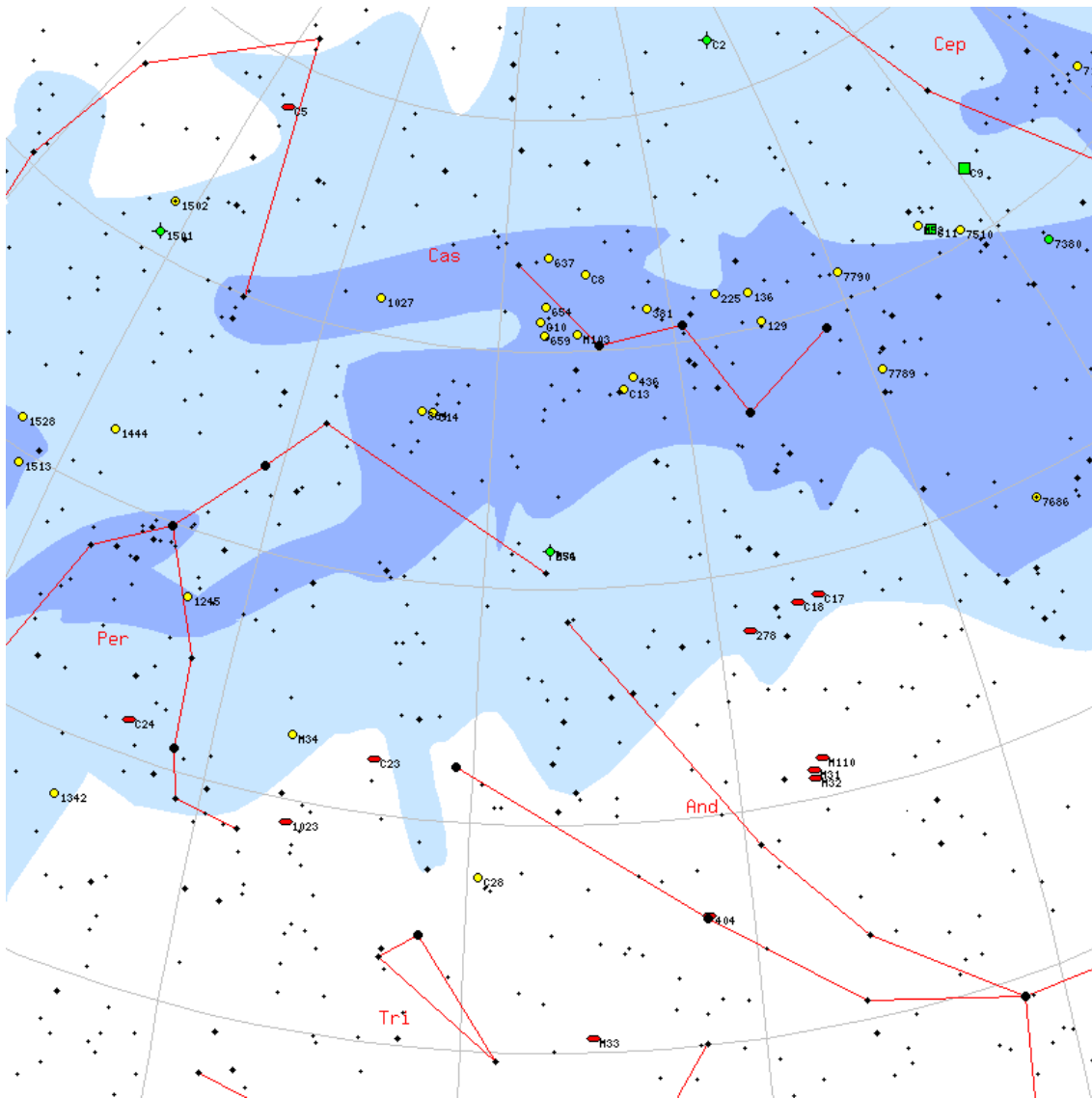


M	M75	ID	NGC6864
Constellation	Sgr	Type	Gb
Magnitude	8.6	Size	6 x 6
RA	20h 06m	Dec	-21d 55m
Name			
Description	glob. cl. , B, pL, R, vmbMBN, rr		

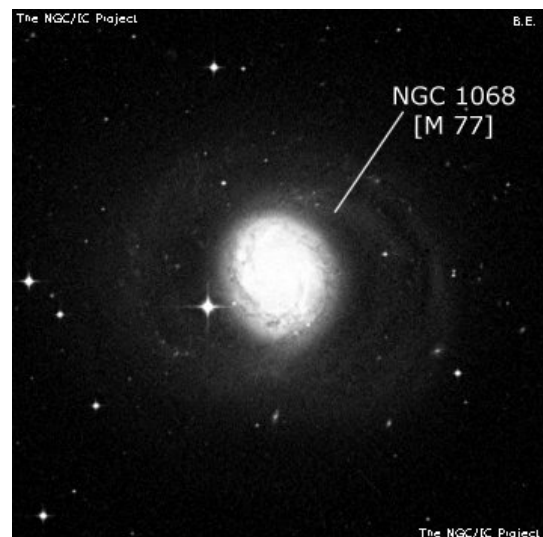
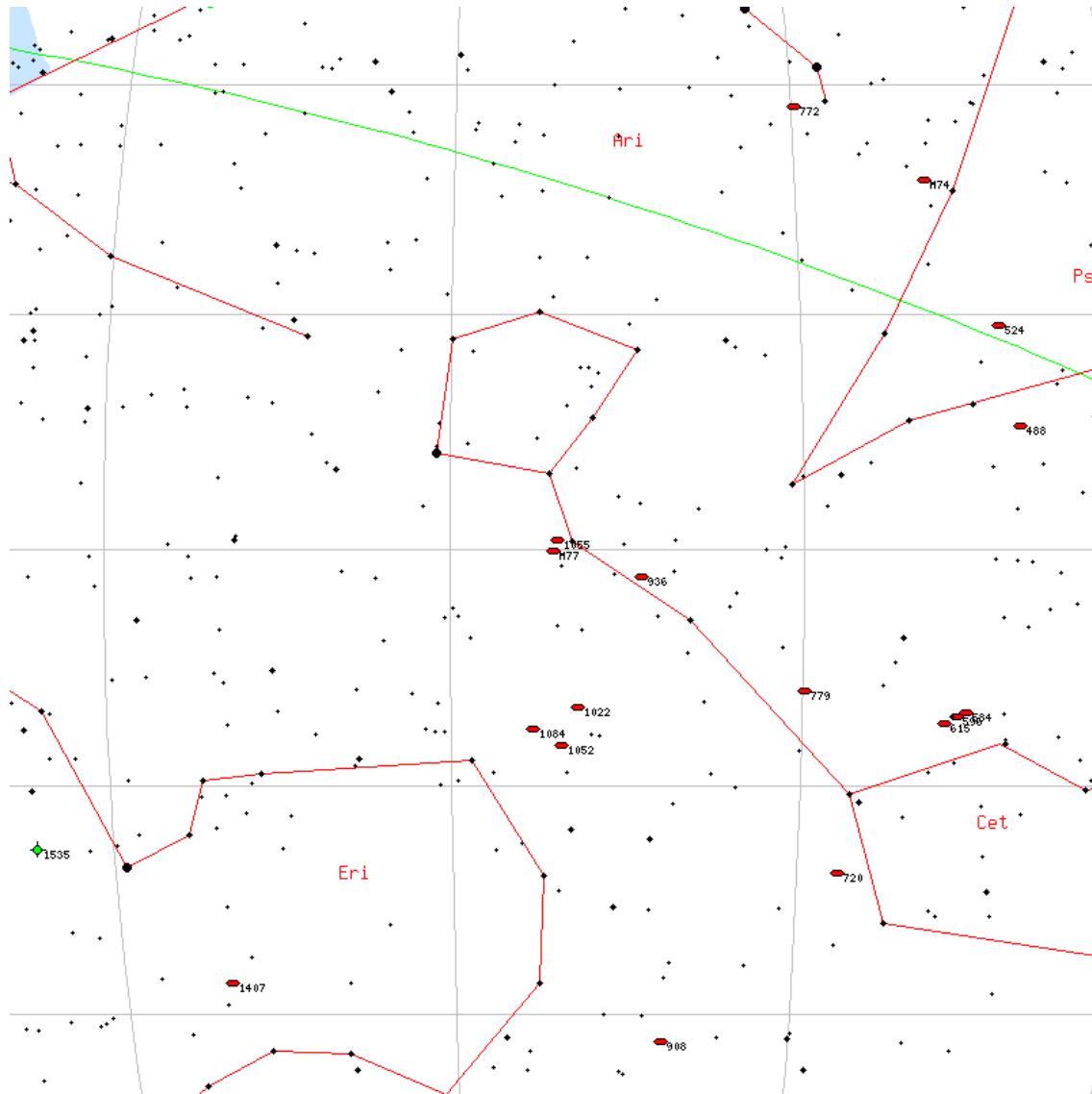


M76

M	M76	ID	NGC650
Constellation	Per	Type	PI
Magnitude	12	Size	4.8 x 4.8
RA	01h 42m	Dec	+51d 34m
Name	Butterfly Nebula/Little Dumbbell Nebula/Barbell Nebula/Cork Nebula		
Description	vB, p of Dneb =M76		

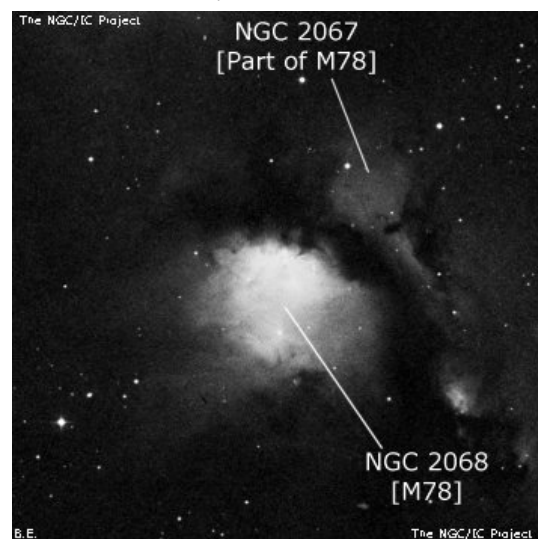
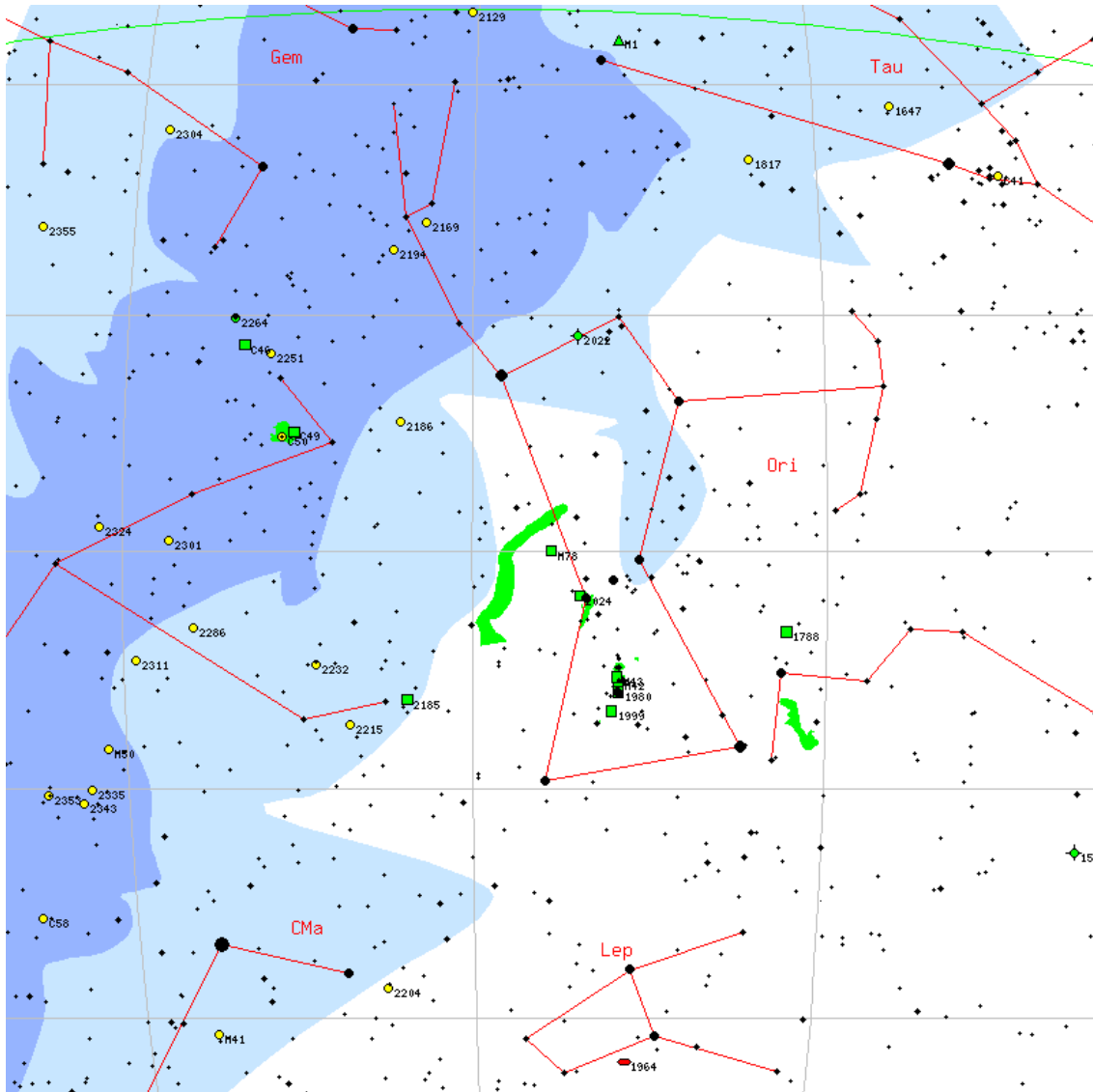


M	M77	ID	NGC1068
Constellation	Cet	Type	Gx
Magnitude	8.8	Size	3.5 x 3
RA	02h 42m	Dec	-00d 01m
Name			
Description	vB, pL, iR, sbMrrN		

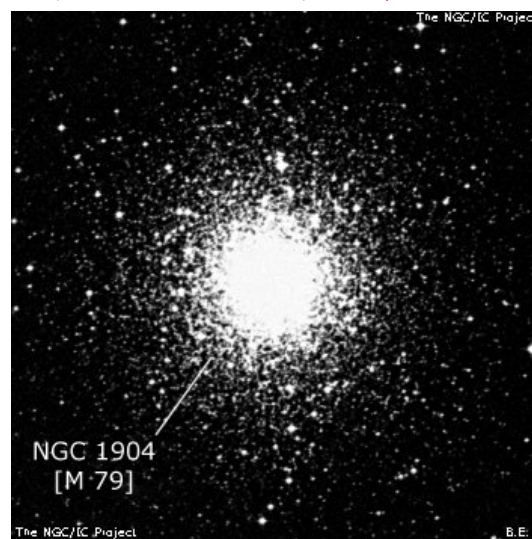
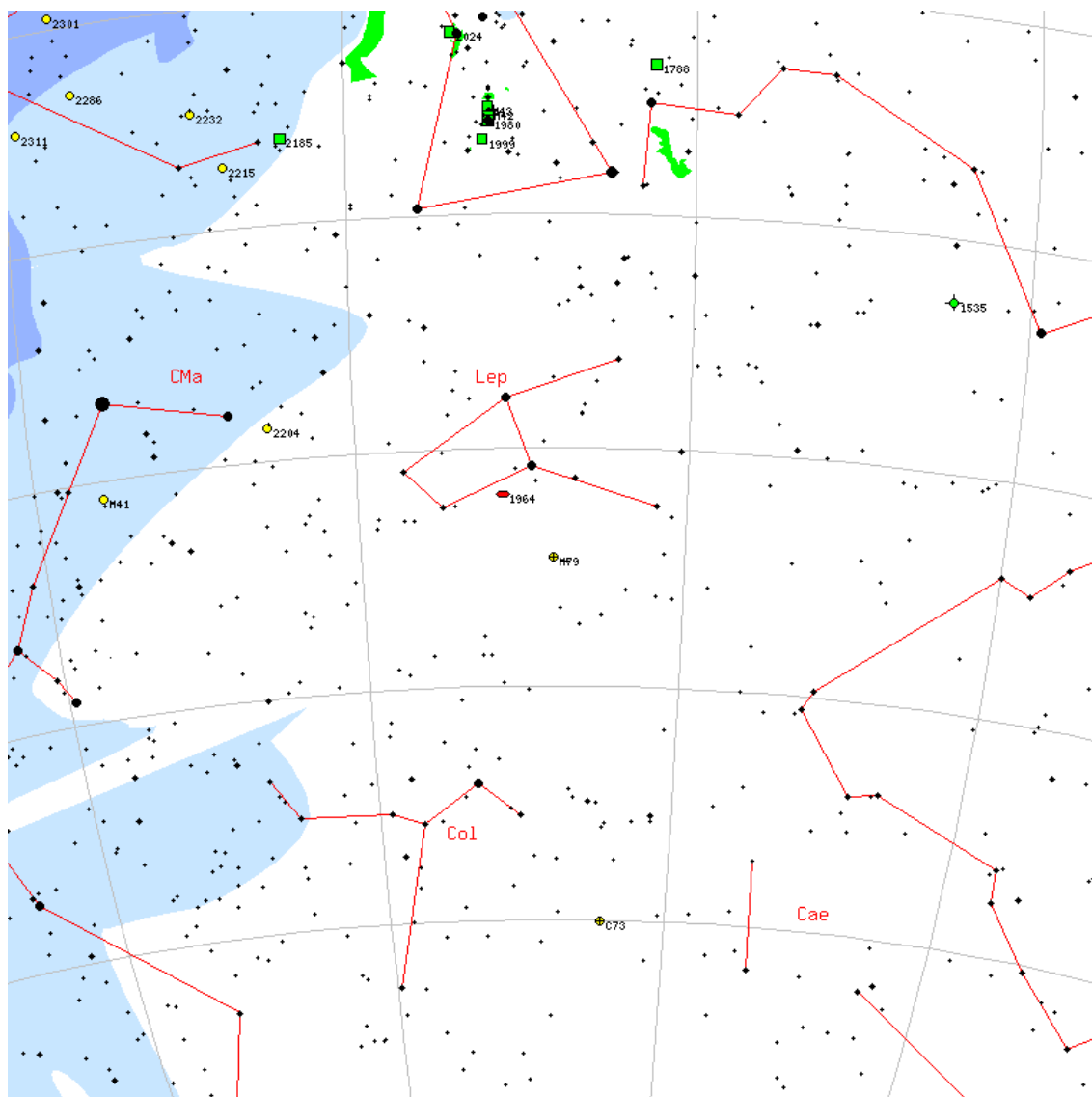


1

M	M78	ID	NGC2068
Constellation	Ori	Type	Nb
Magnitude	8	Size	8 x 8
RA	05h 46m	Dec	+00d 03m
Name			
Description	B, L, wisp, gmbN, 3 st inv, r		

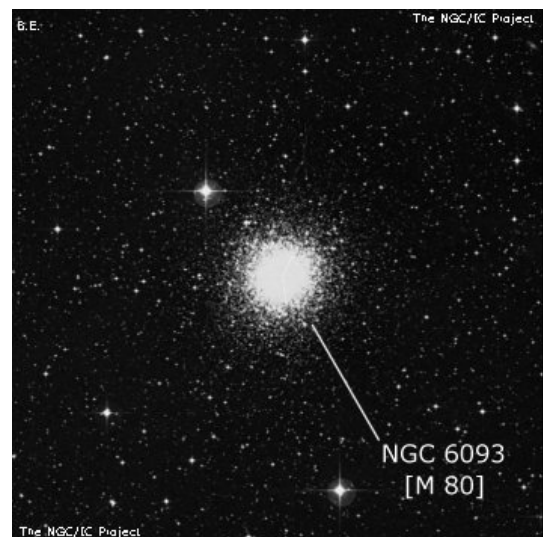
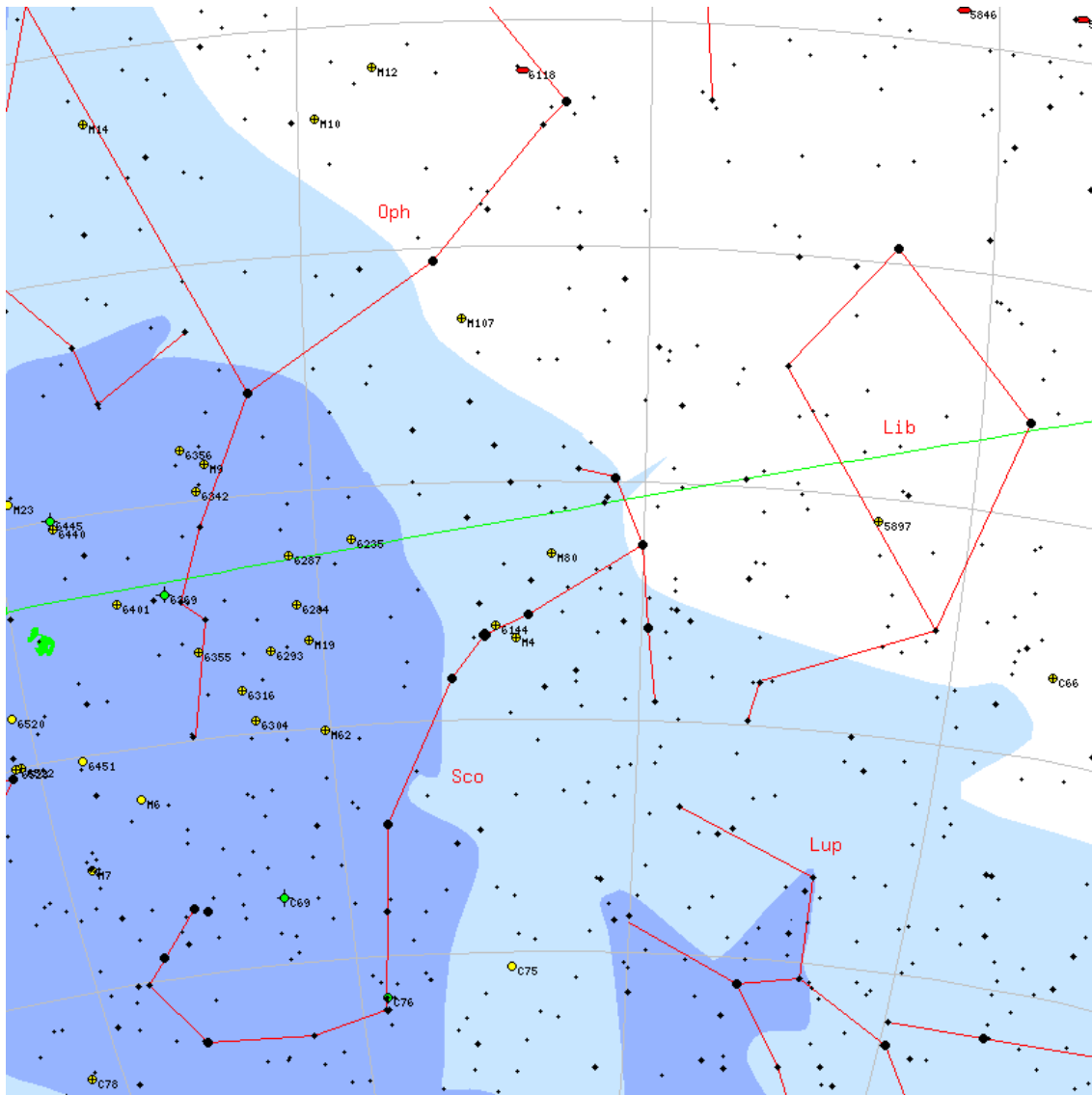


M	M79	ID	NGC1904
Constellation	Lep	Type	Gb
Magnitude	8	Size	8.7 x 8.7
RA	05h 24m	Dec	-24d 33m
Name			
Description	glob. cl. , pL, eRi, eC, rrr		



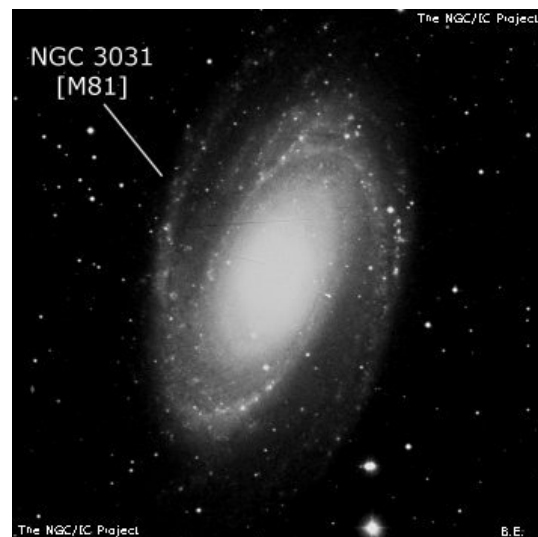
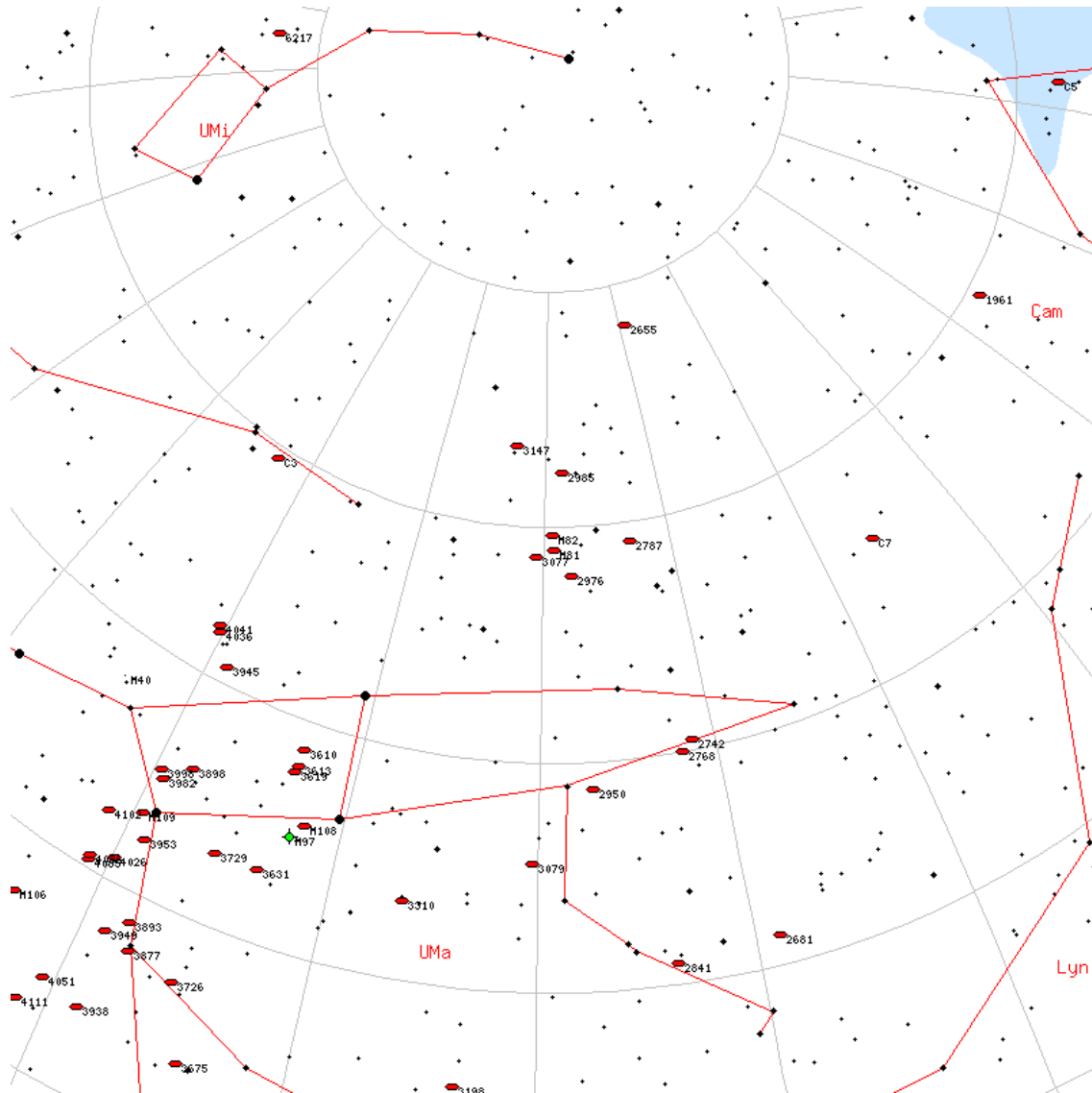
M80

M	M80	ID	NGC6093
Constellation	Sco	Type	Gb
Magnitude	7.2	Size	8.9 x 8.9
RA	16h 16m	Dec	-22d 58m
Name			
Description	!! glob. cl. , vB, L, vmbM (var*), rrr, st 14		



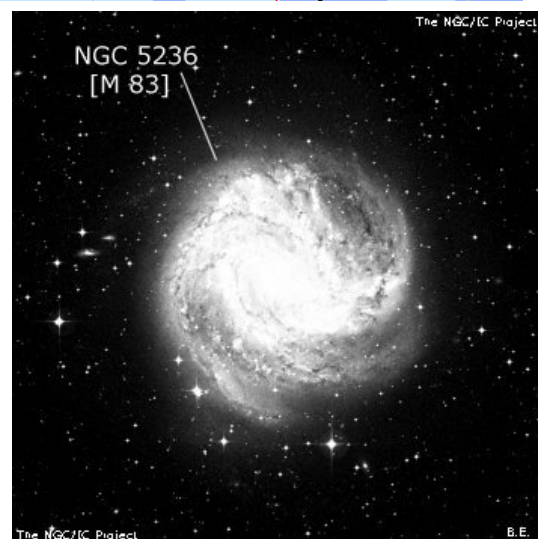
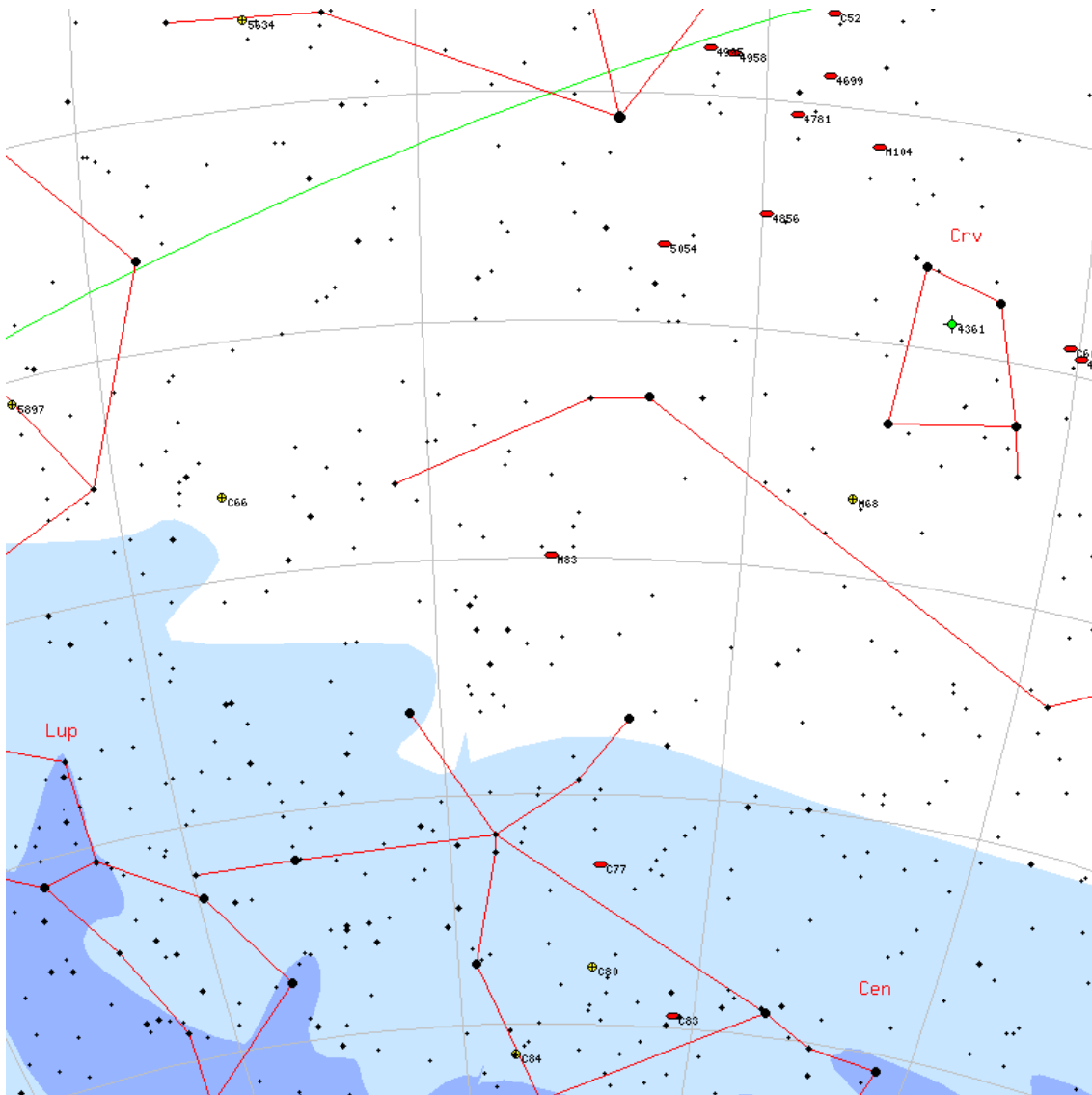
M81

M	M81	ID	NGC3031
Constellation	UMa	Type	Gx
Magnitude	6.9	Size	13.5 x 7.1
RA	09h 55m	Dec	+69d 04m
Name	Bode's Galaxy or Bode's Nebula		
Description	! eB, eL, E 156deg , gsvmbMBN		



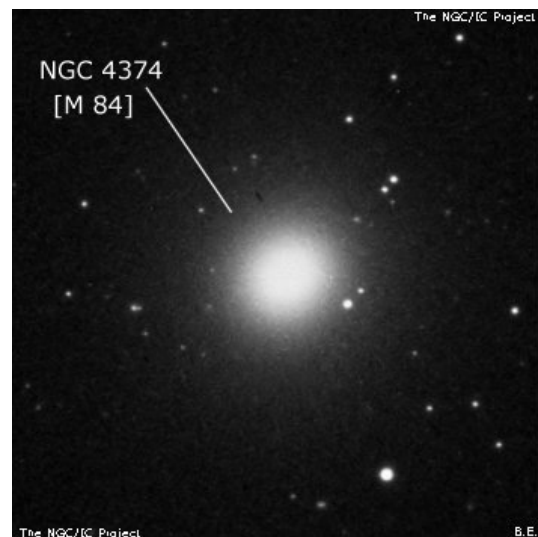
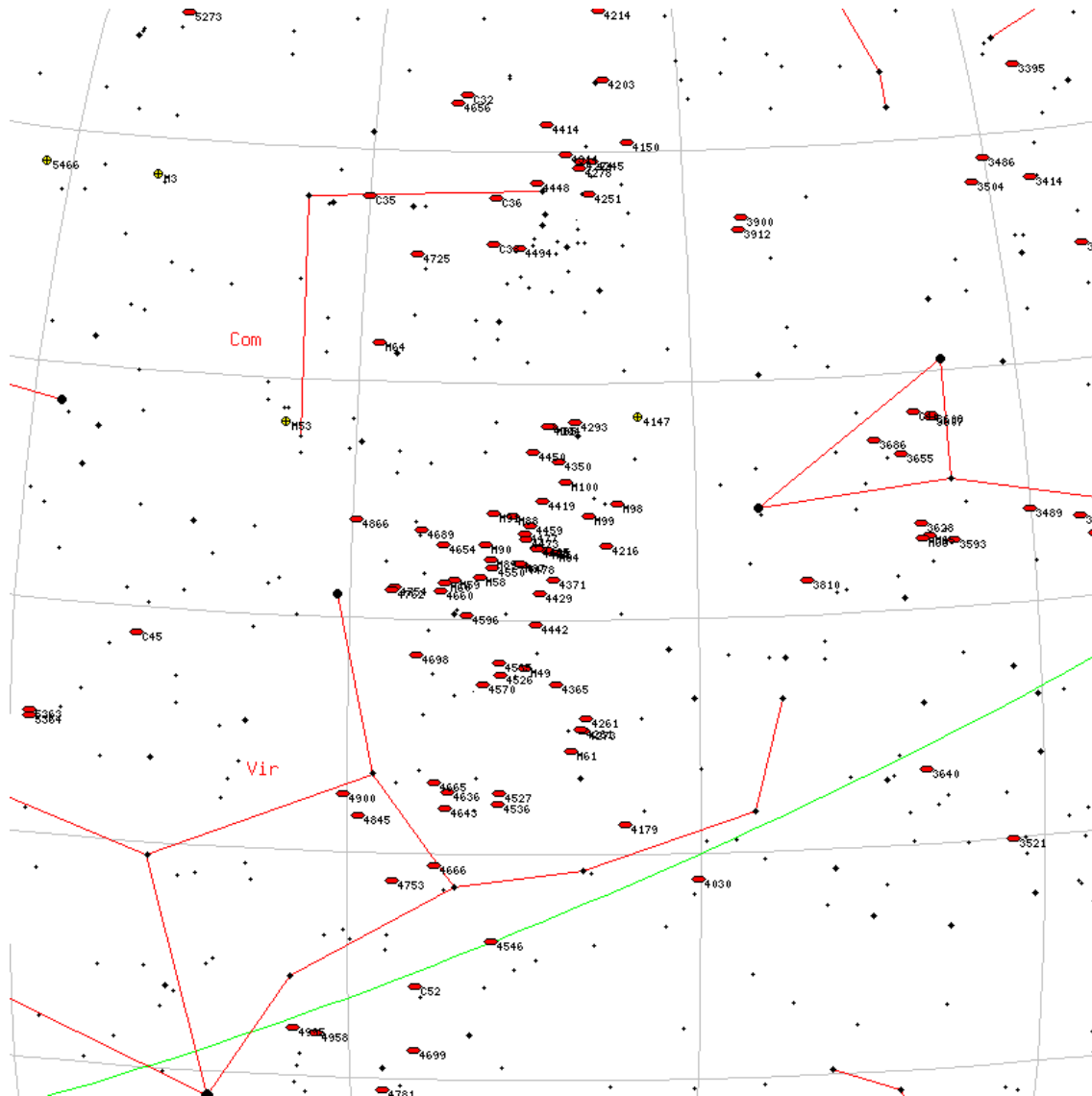


M	M83	ID	NGC5236
Constellation	Hya	Type	Gx
Magnitude	7.6	Size	11.2 x 11.2
RA	13h 37m	Dec	-29d 52m
Name			
Description	!! vB, vL, E 55deg , esbMN, 3-br spir		

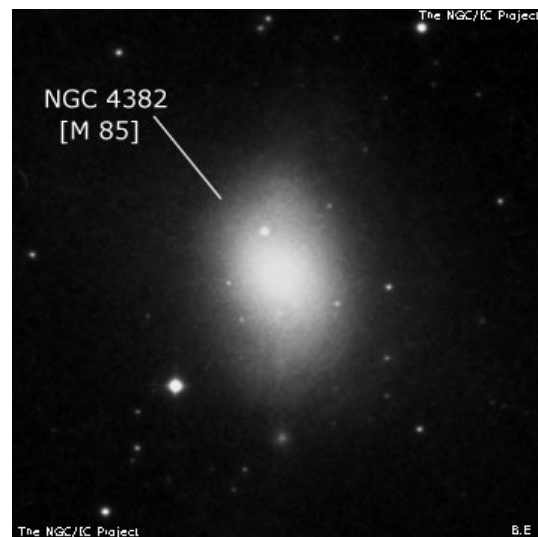
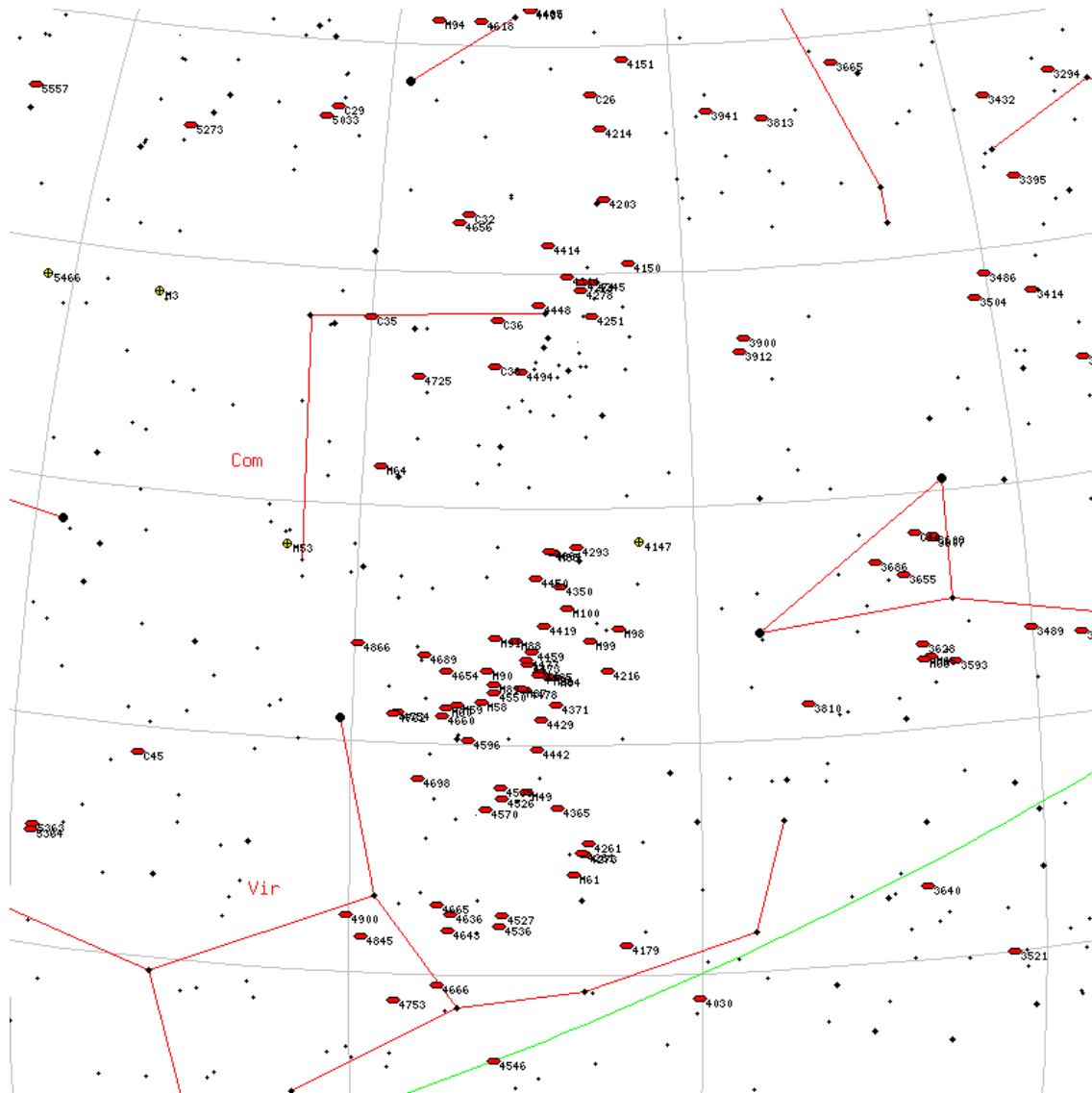


M84

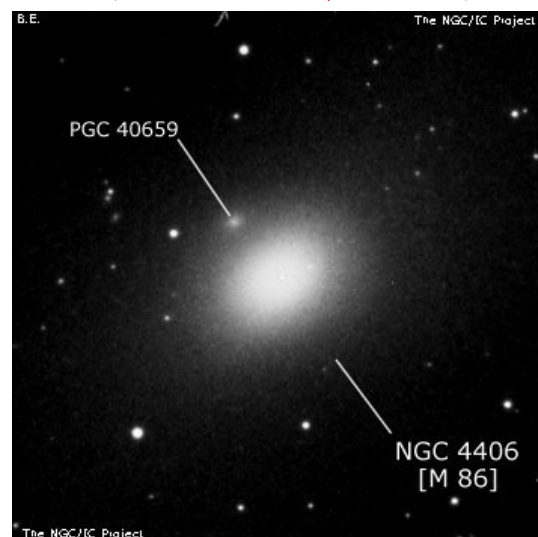
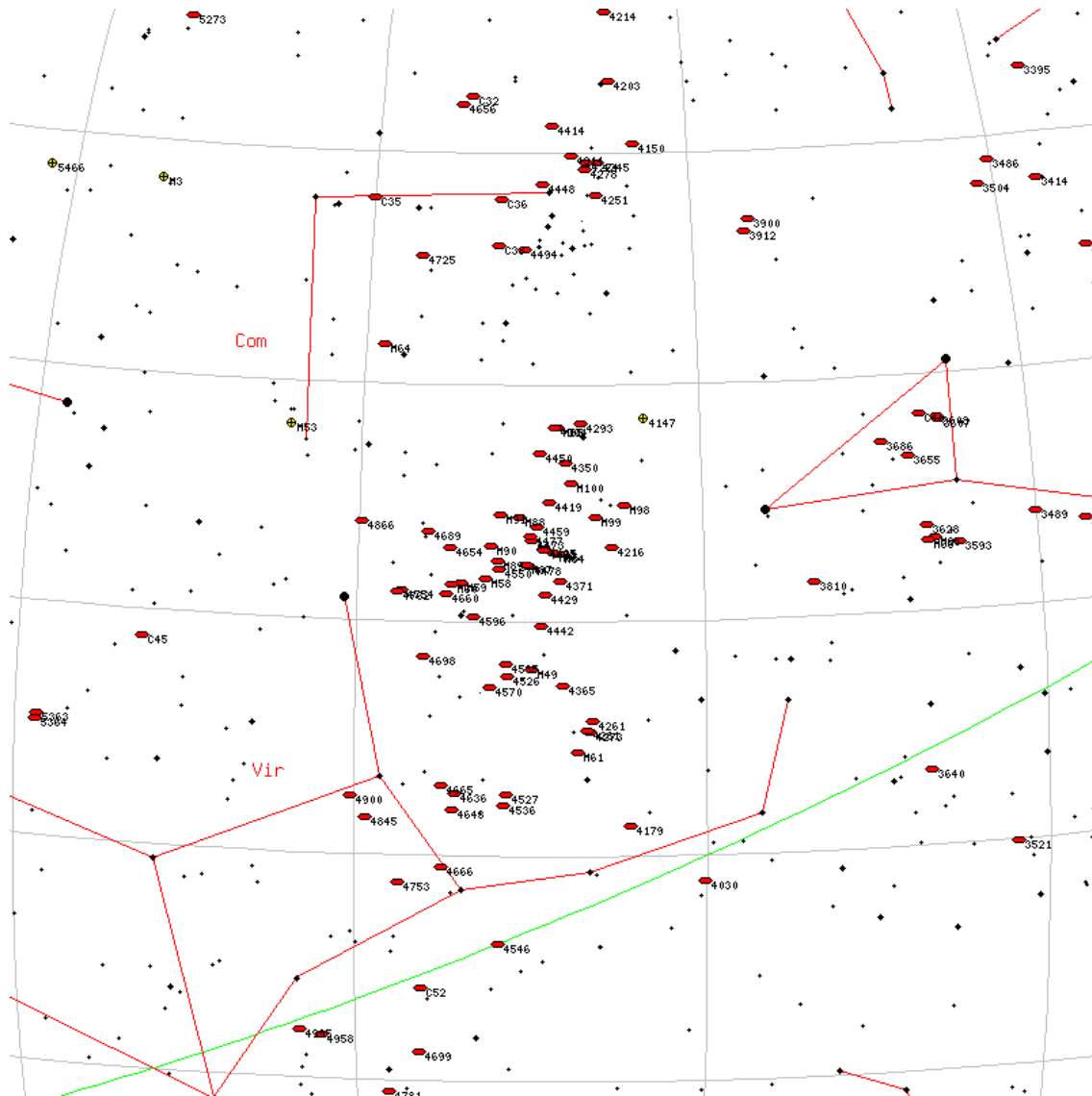
M	M84	ID	NGC4374
Constellation	Vir	Type	Gx
Magnitude	9.3	Size	3.2 x 2.8
RA	12h 25m	Dec	+12d 52m
Name			
Description	vB, pL, R, psbM, r		



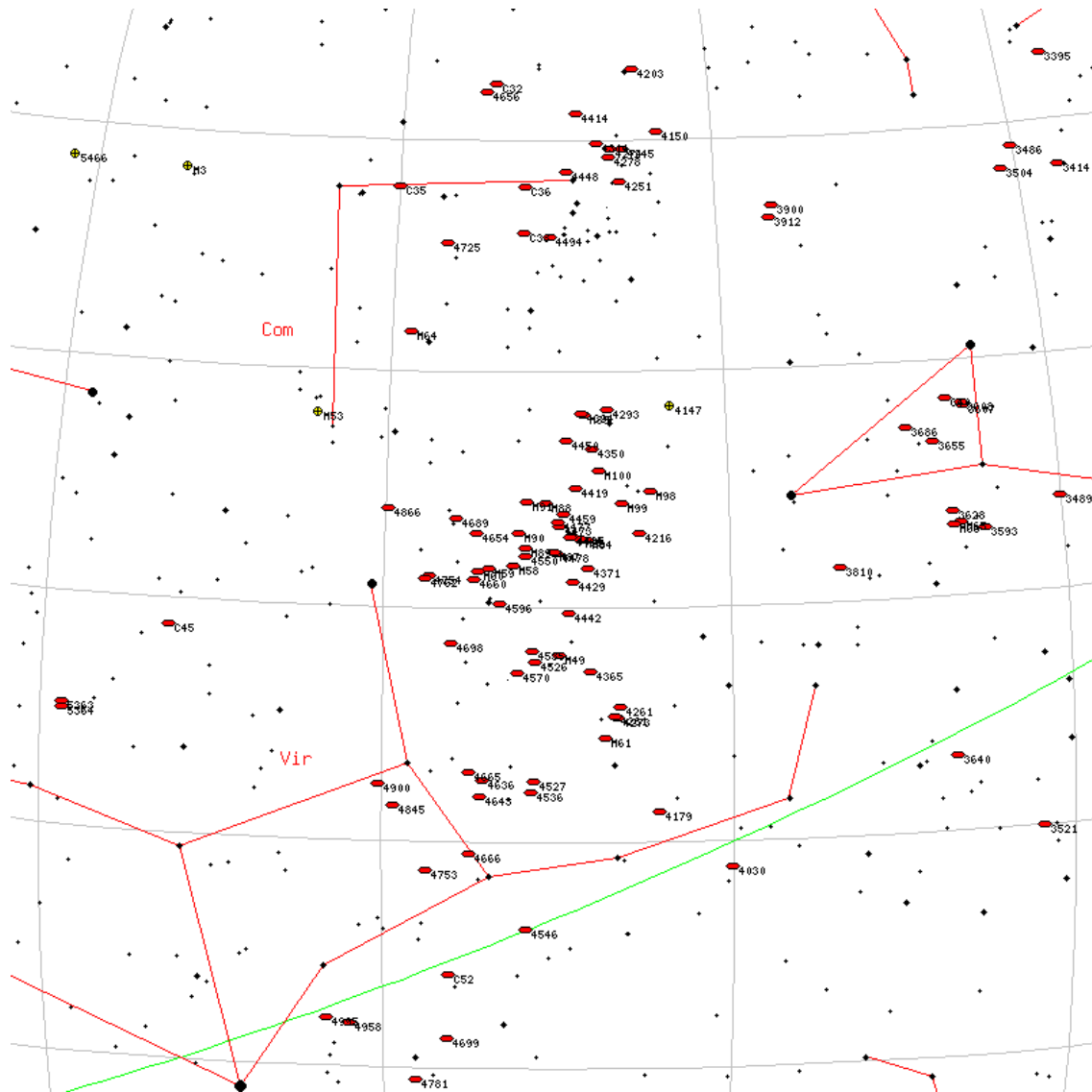
M	M85	ID	NGC4382
Constellation	Com	Type	Gx
Magnitude	9.2	Size	7.1 x 7.1
RA	12h 25m	Dec	+18d 10m
Name			
Description	vB, pL, R, bM, * np		



M	M86	ID	NGC4406
Constellation	Vir	Type	Gx
Magnitude	9.2	Size	4.5 x 2.9
RA	12h 26m	Dec	+12d 56m
Name			
Description	vB, L, R, gbMN, r		

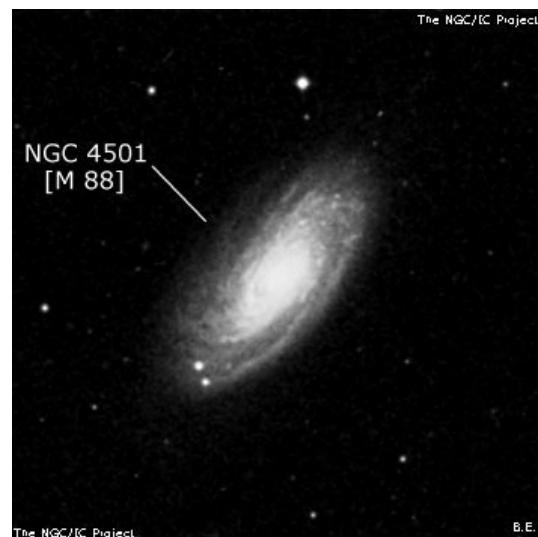
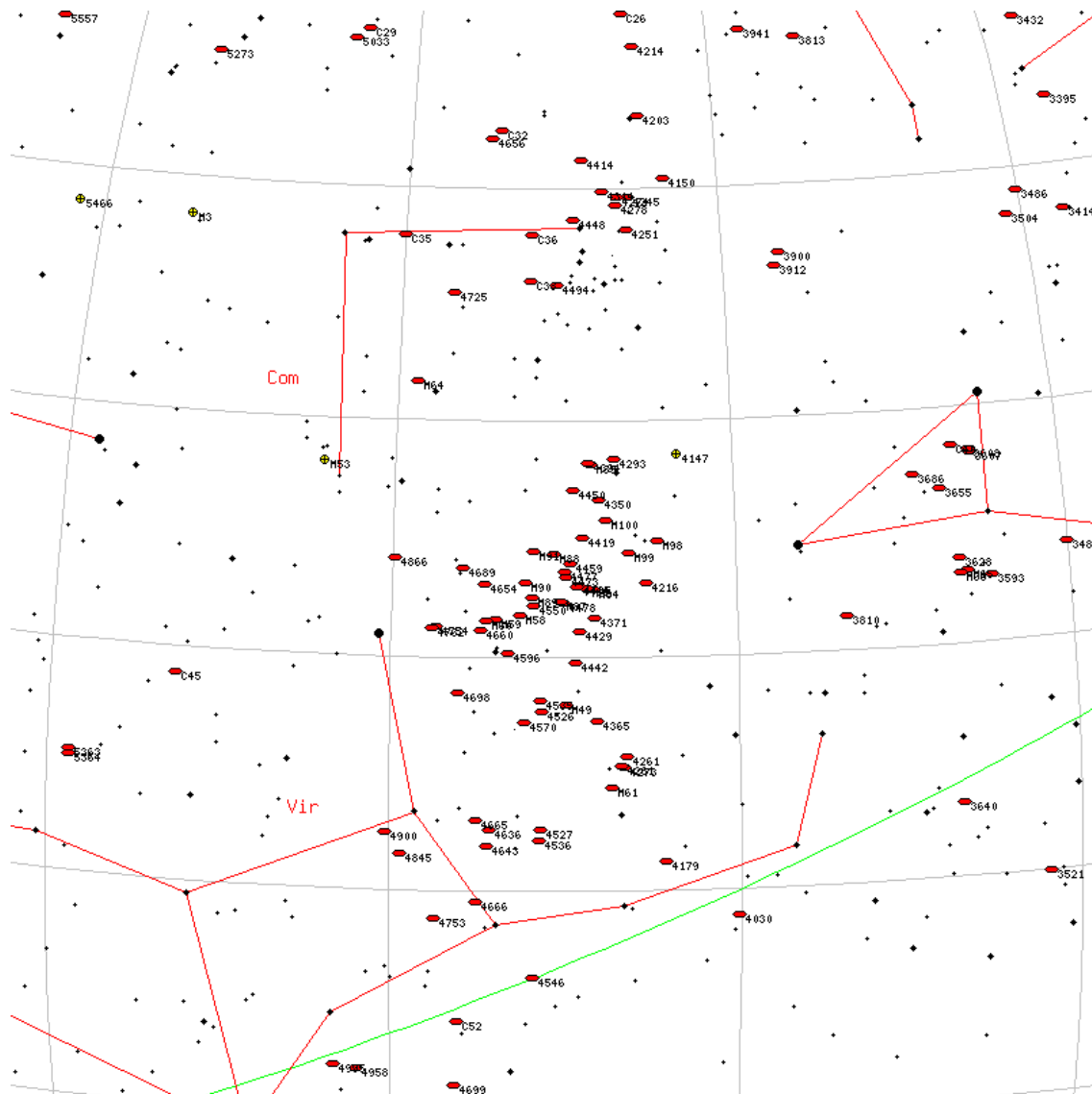


M	M87	ID	NGC4486
Constellation	Vir	Type	Gx
Magnitude	8.6	Size	7.2 x 7.2
RA	12h 30m	Dec	+12d 24m
Name	Virgo A		
Description	vB, vL, R, mbM, 3rd of 3		



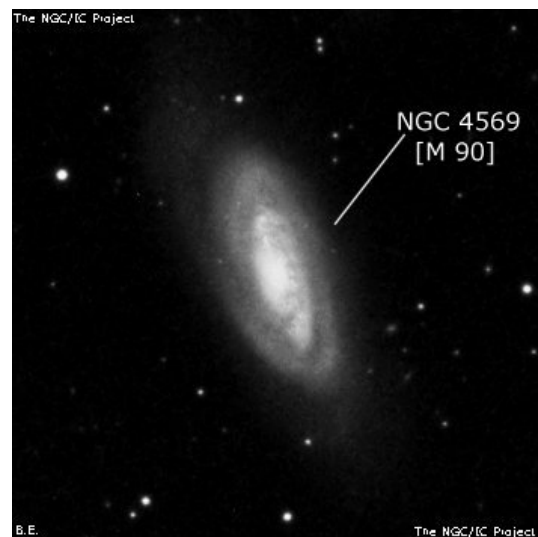
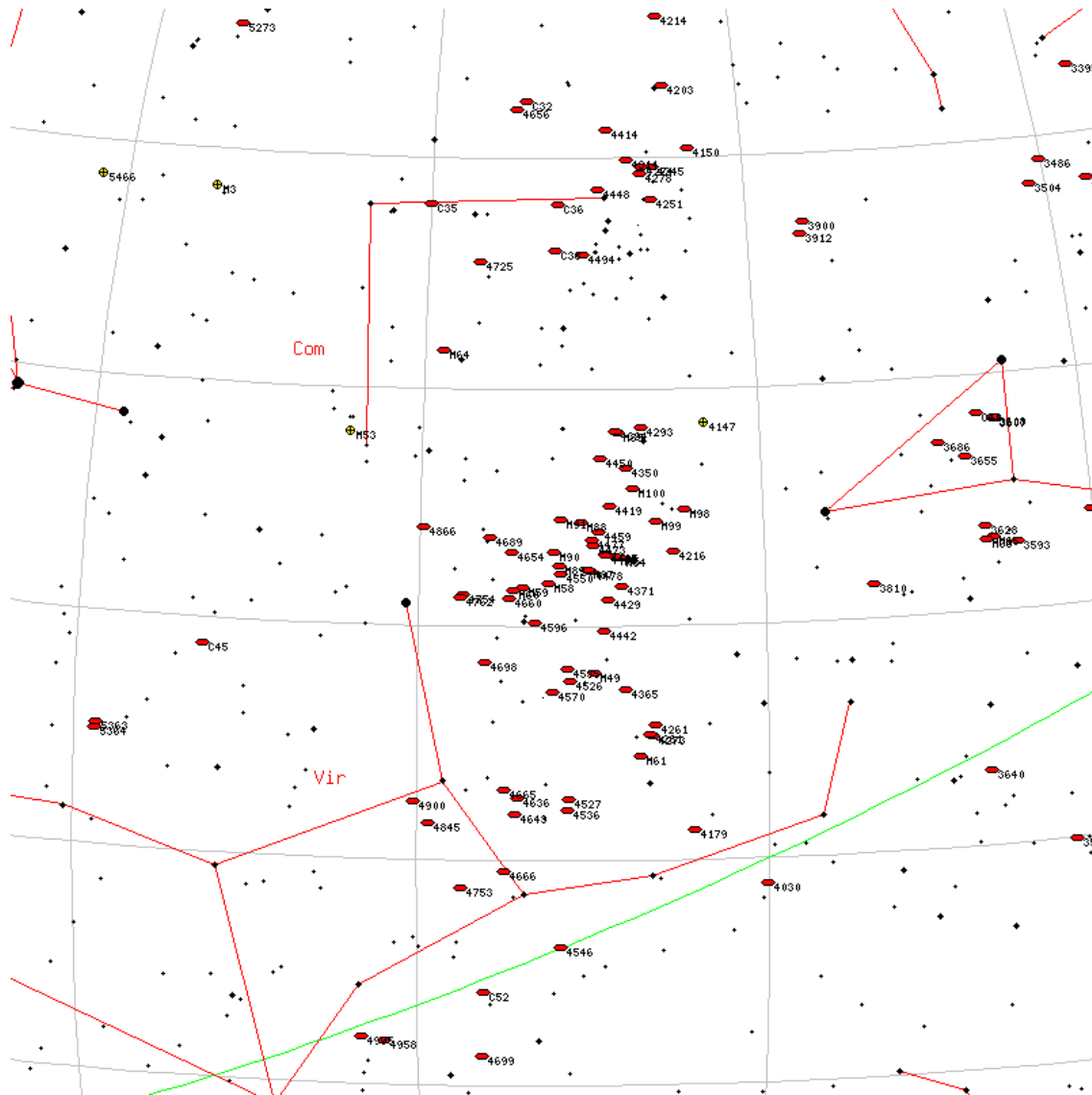
M88

M	M88	ID	NGC4501
Constellation	Com	Type	Gx
Magnitude	9.5	Size	3.5 x 1.9
RA	12h 31m	Dec	+14d 25m
Name			
Description	B, vL, vmE		

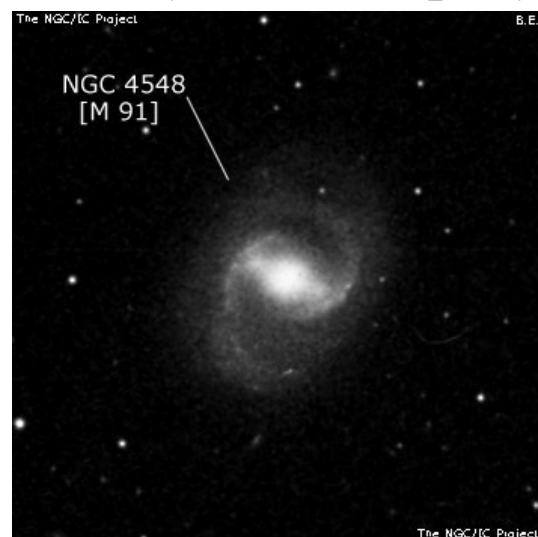
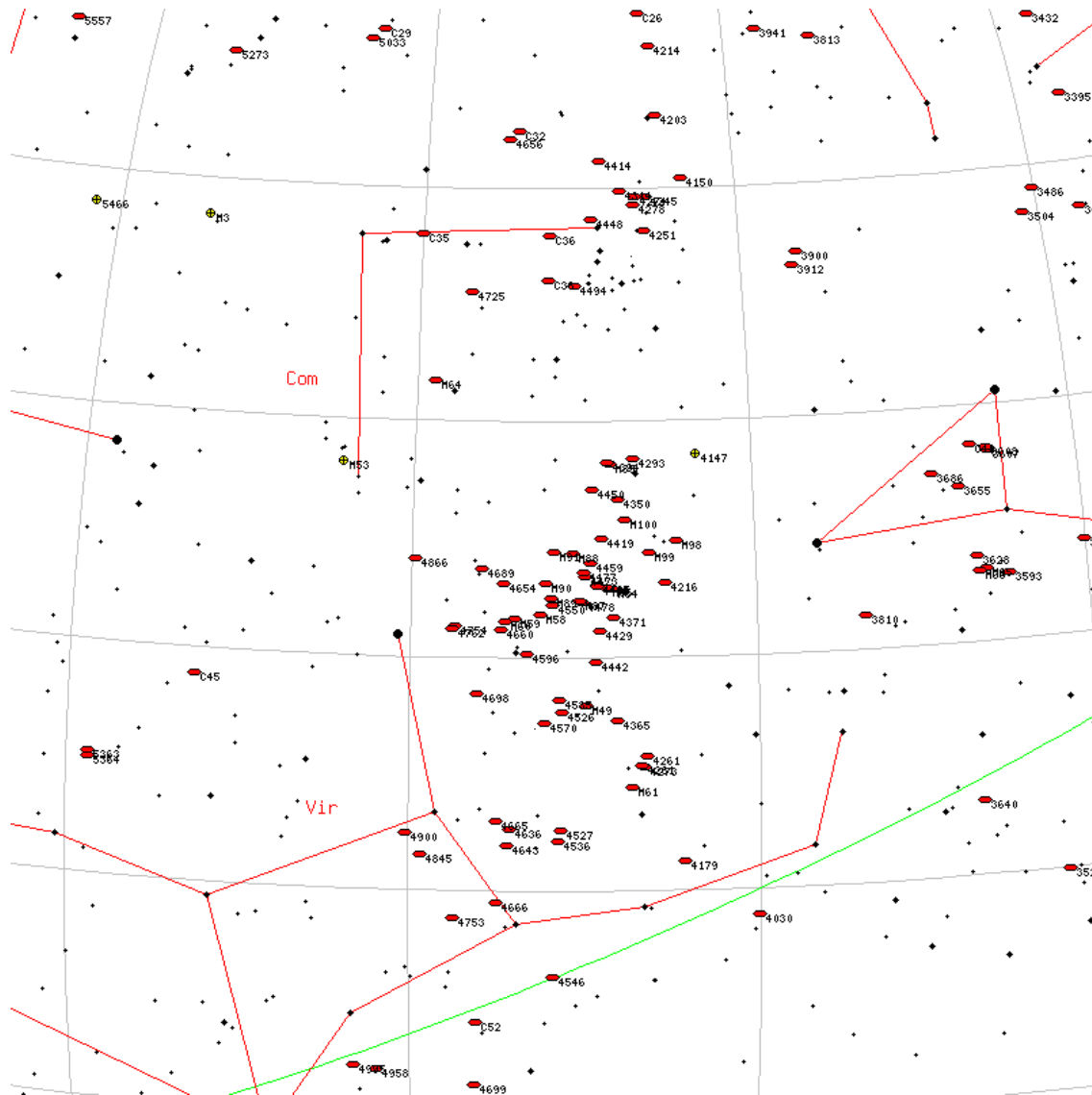


M90

M	M90	ID	NGC4569
Constellation	Vir	Type	Gx
Magnitude	9.5	Size	4.8 x 2.2
RA	12h 36m	Dec	+13d 10m
Name			
Description	pL, bMN		

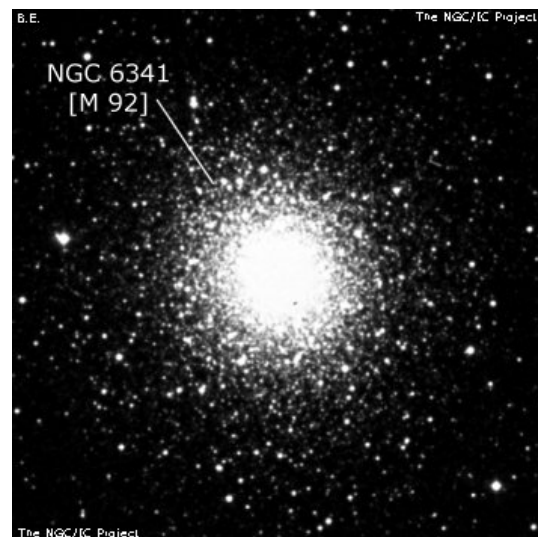
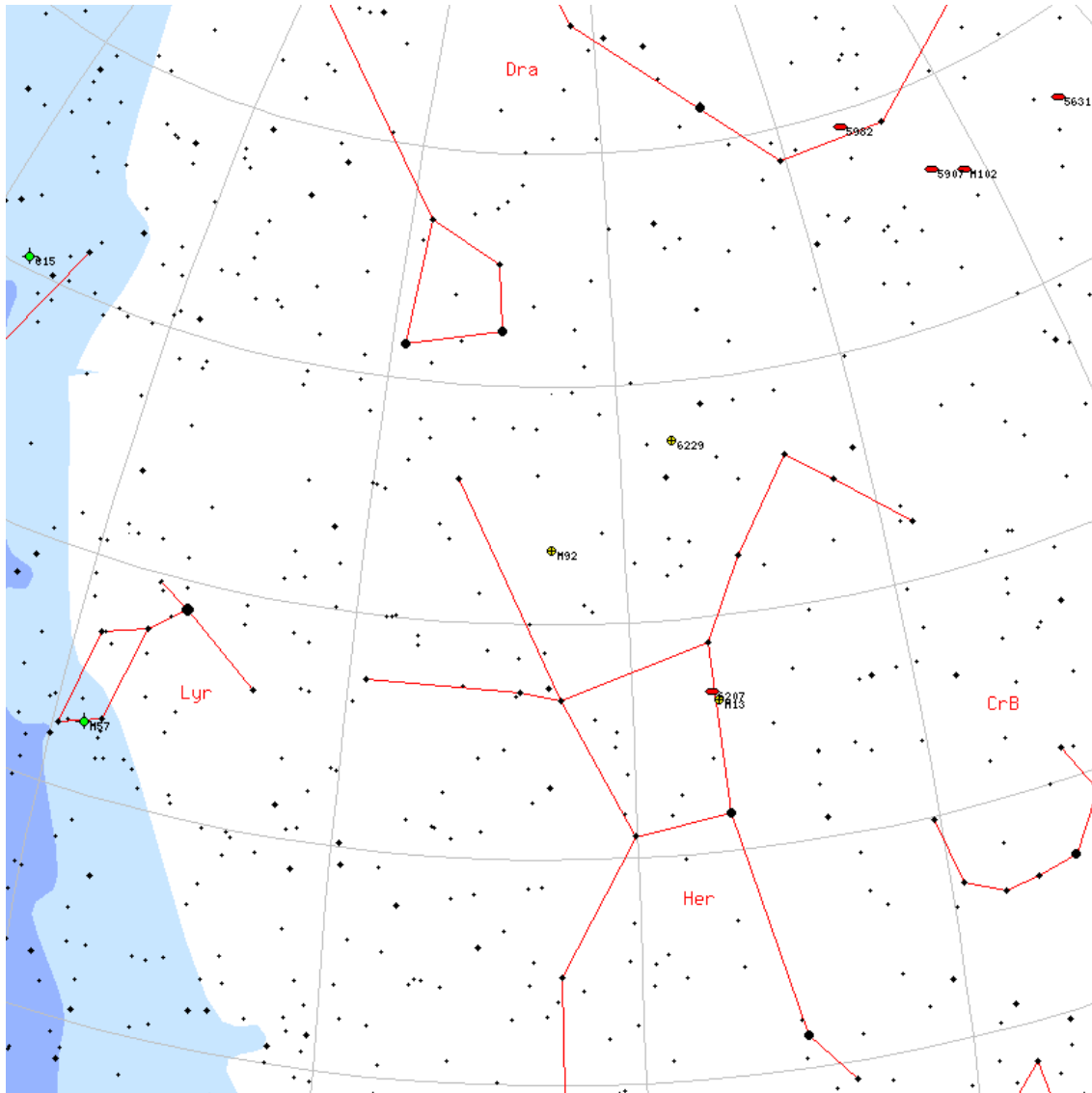


M	M91	ID	NGC4548
Constellation	Com	Type	Gx
Magnitude	10.2	Size	2.7 x 2.1
RA	12h 35m	Dec	+14d 30m
Name			
Description	B, L, IE, IbM		

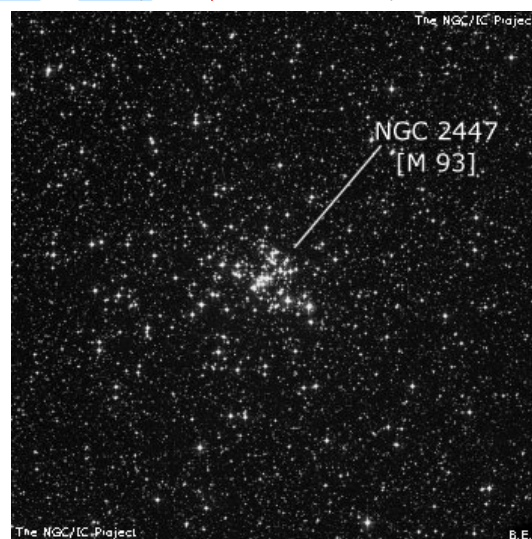
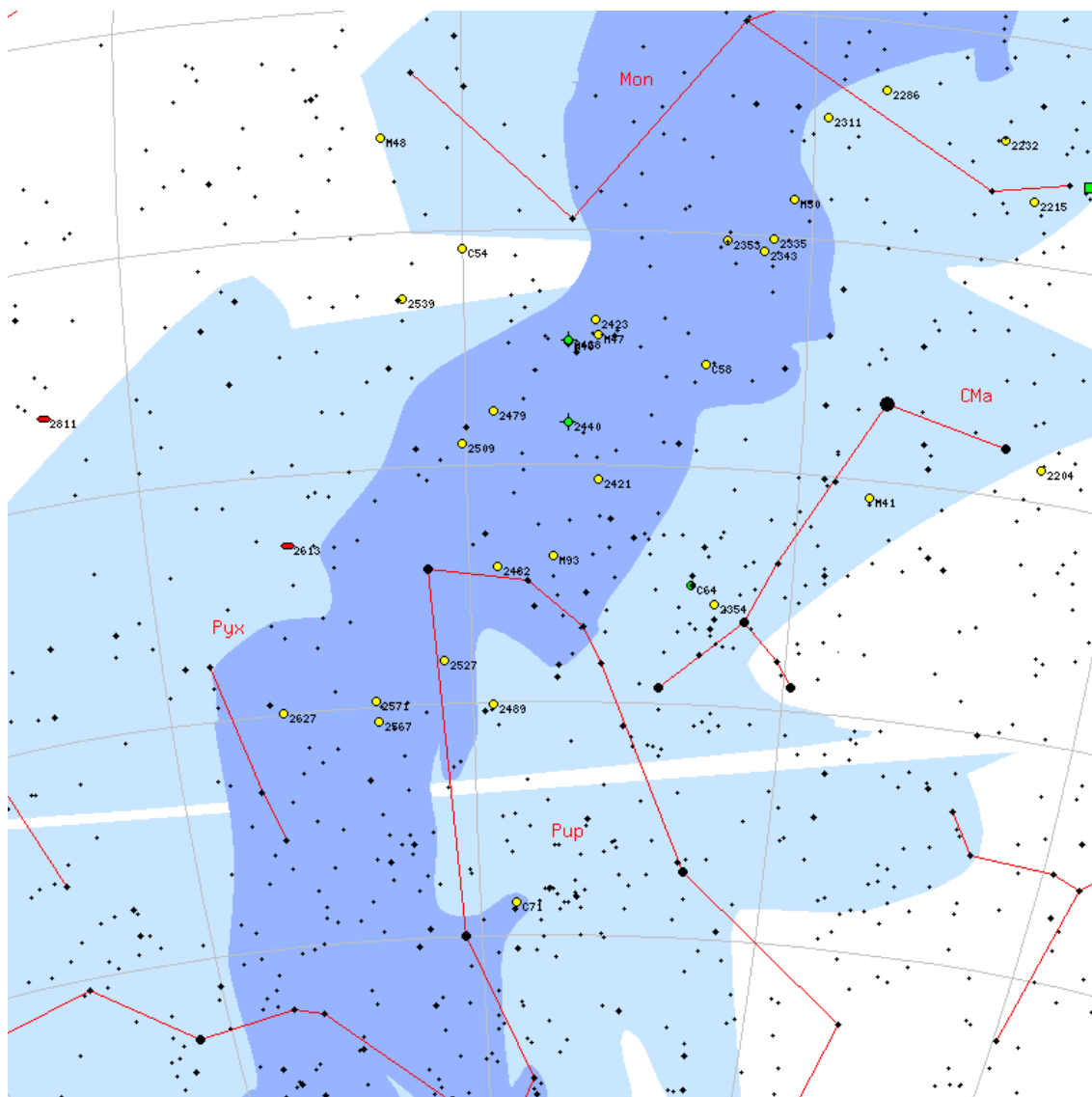


M92

M	M92	ID	NGC6341
Constellation	Her	Type	Gb
Magnitude	6.5	Size	11.2 x 11.2
RA	17h 17m	Dec	+43d 07m
Name			
Description	glob. cl. , vB, vL, eCM, rrr, st S		

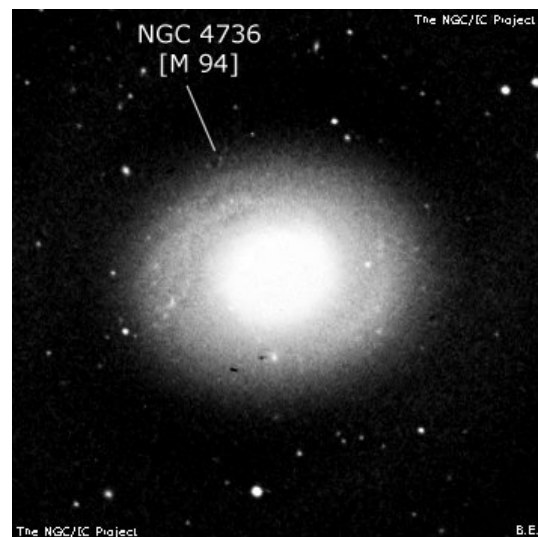
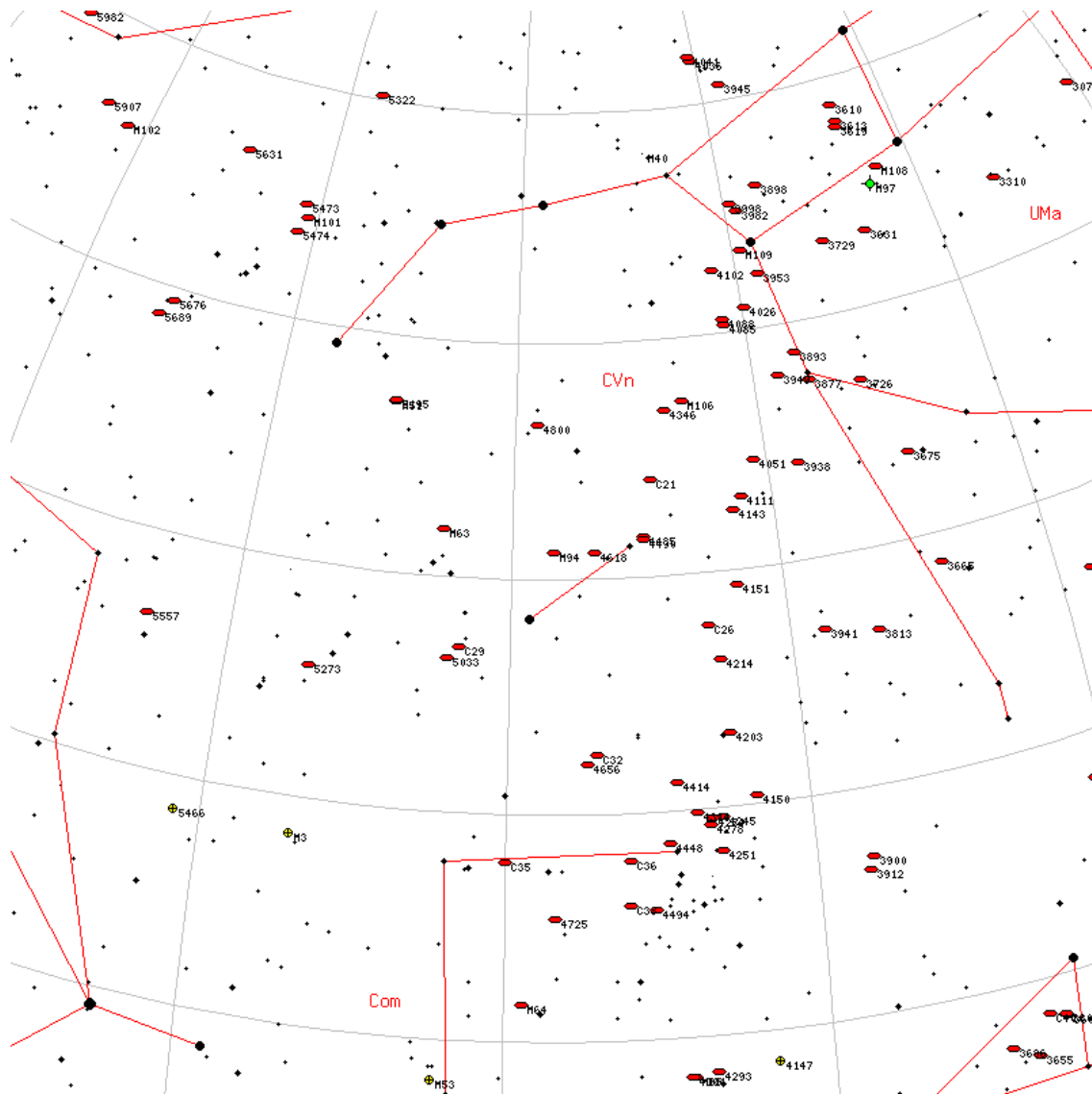


M	M93	ID	NGC2447
Constellation	Pup	Type	OC
Magnitude	6.2	Size	22 x 22
RA	07h 44m	Dec	-23d 52m
Name			
Description	Cl, L, pRi, IC, st 8...13		

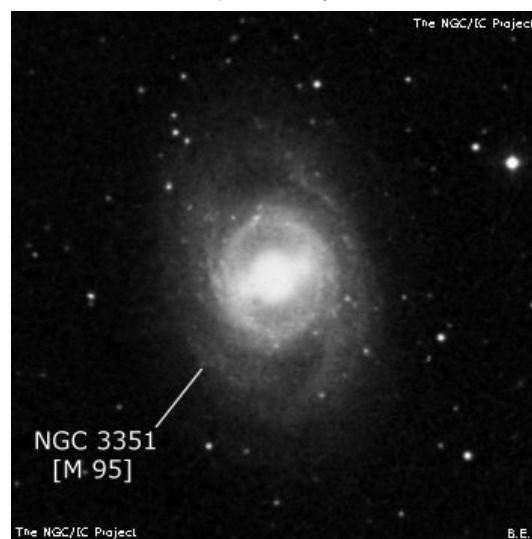
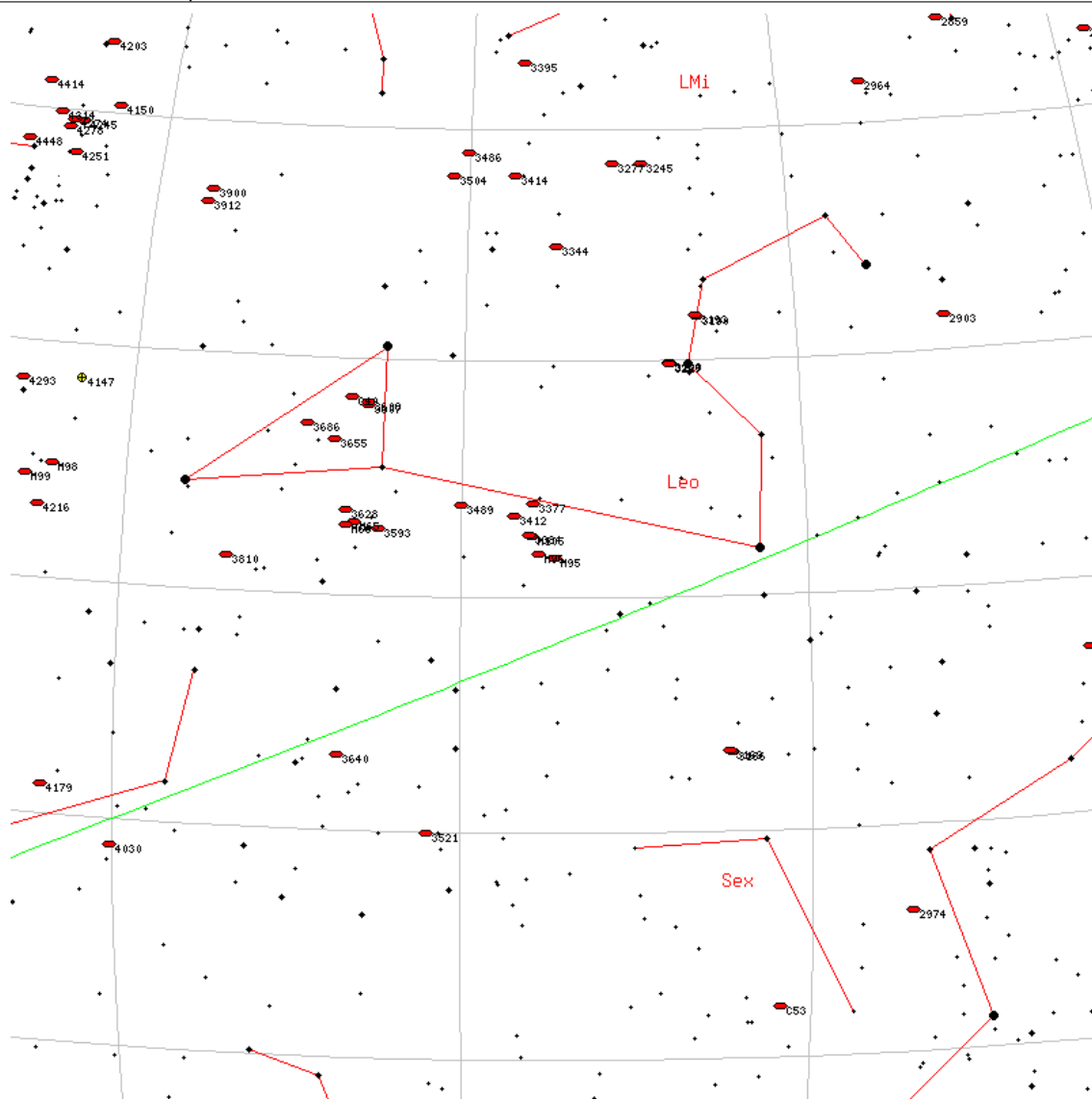


M94

M	M94	ID	NGC4736
Constellation	CVn	Type	Gx
Magnitude	8.2	Size	5.6 x 4.6
RA	12h 50m	Dec	+41d 07m
Name			
Description	vB, L, iR, vsvmbMBN, r		

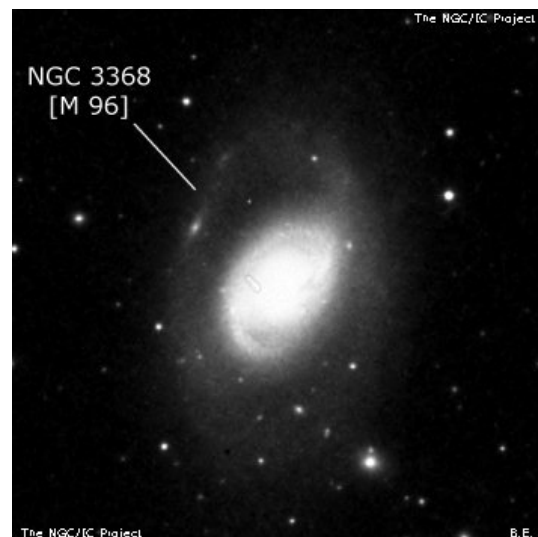
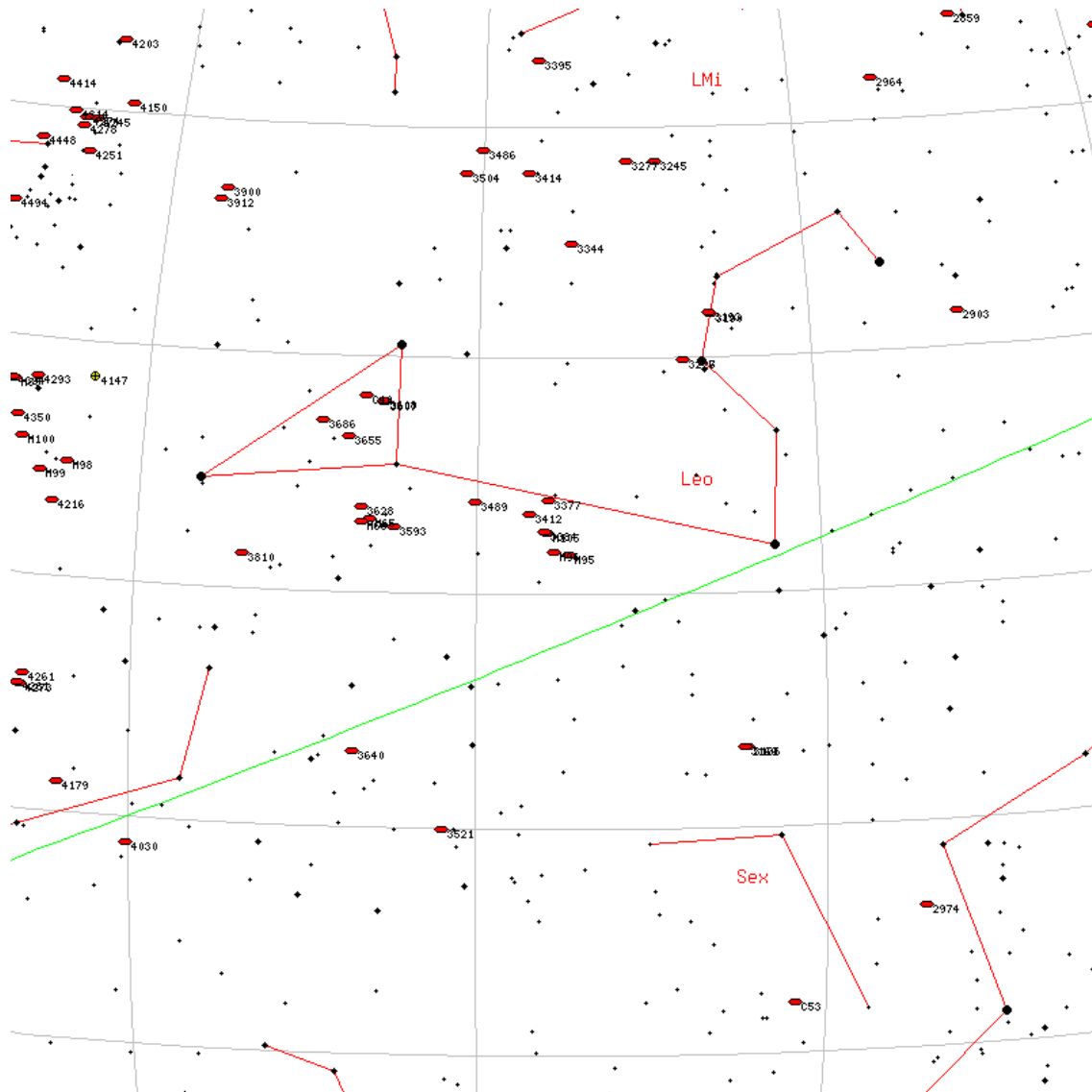


M	M95	ID	NGC3351
Constellation	Leo	Type	Gx
Magnitude	9.7	Size	3.7 x 2.5
RA	10h 43m	Dec	+11d 41m
Name			
Description	B, L, R, pgmbMN		

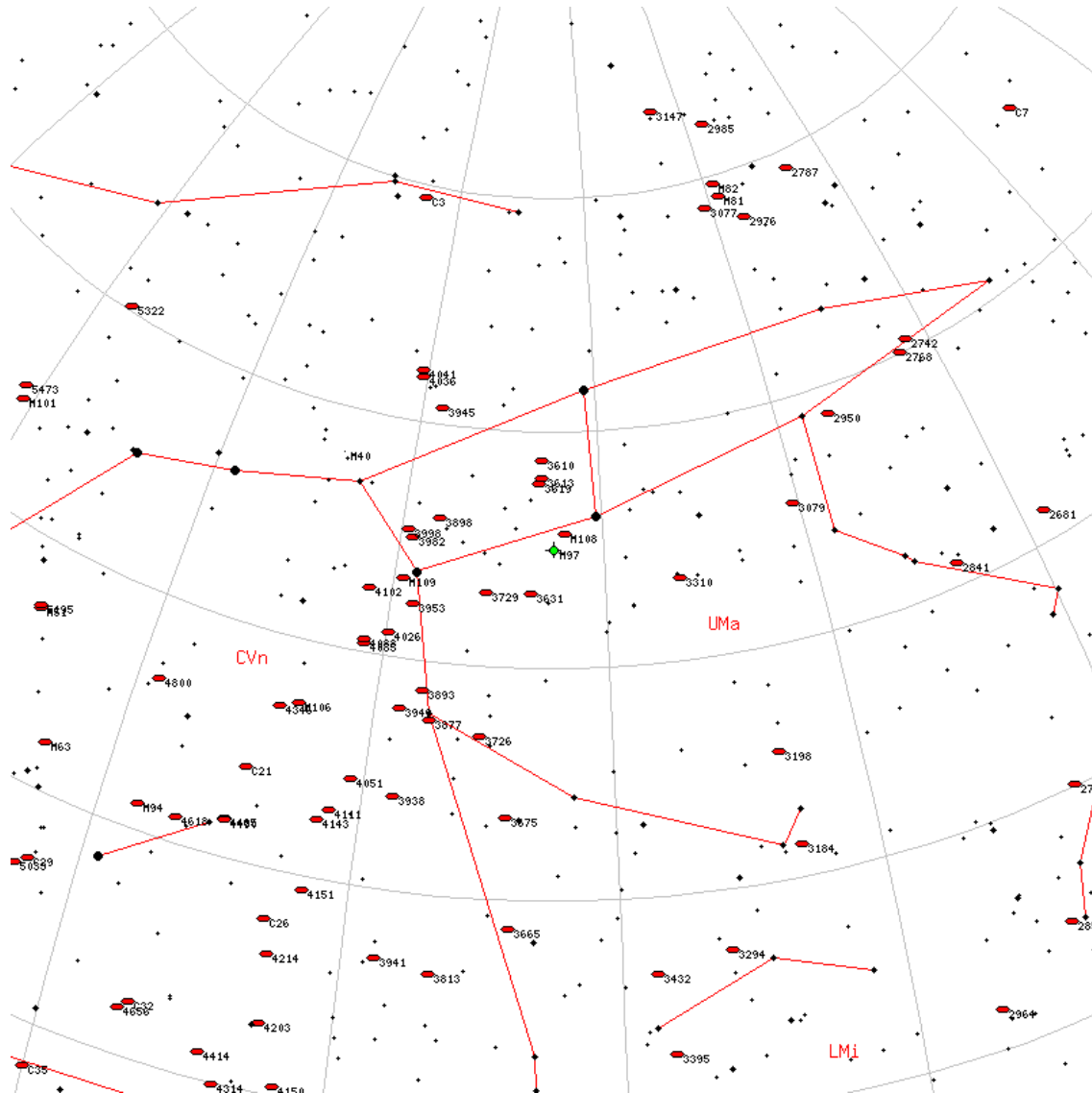


M96

M	M96	ID	NGC3368
Constellation	Leo	Type	Gx
Magnitude	9.2	Size	3.8 x 2.6
RA	10h 46m	Dec	+11d 49m
Name			
Description	vB, vL, IE, vsvmbM, r		

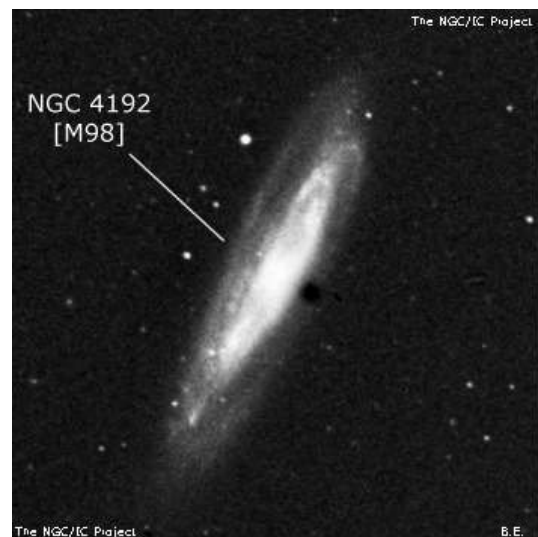
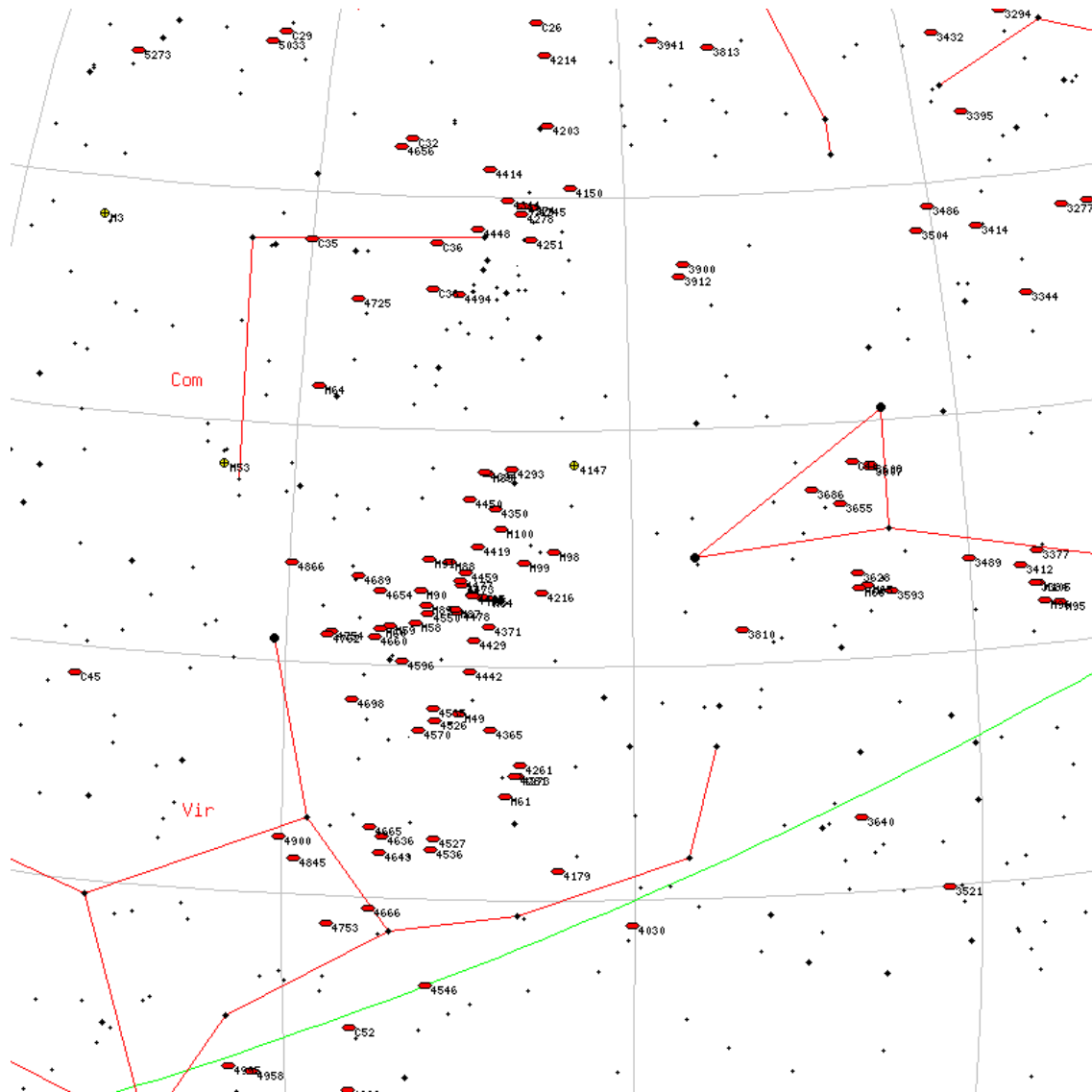


M	M97	ID	NGC3587
Constellation	UMa	Type	PI
Magnitude	11.2	Size	3.2 x 3.2
RA	11h 14m	Dec	+55d 01m
Name	Owl Nebula		
Description	!!, PN , vB, vL, R, vvg, vsbM, 150" d		

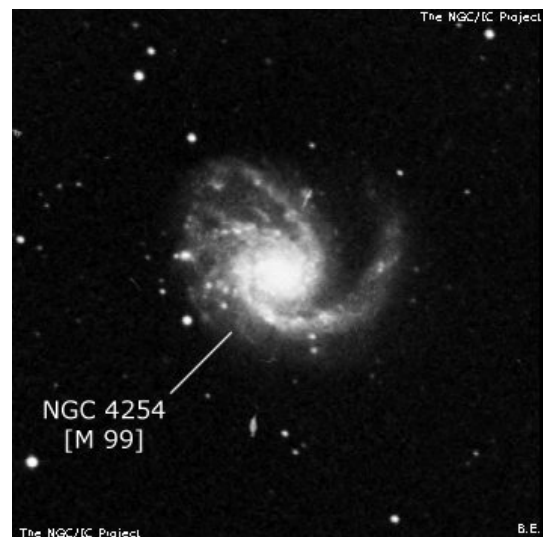
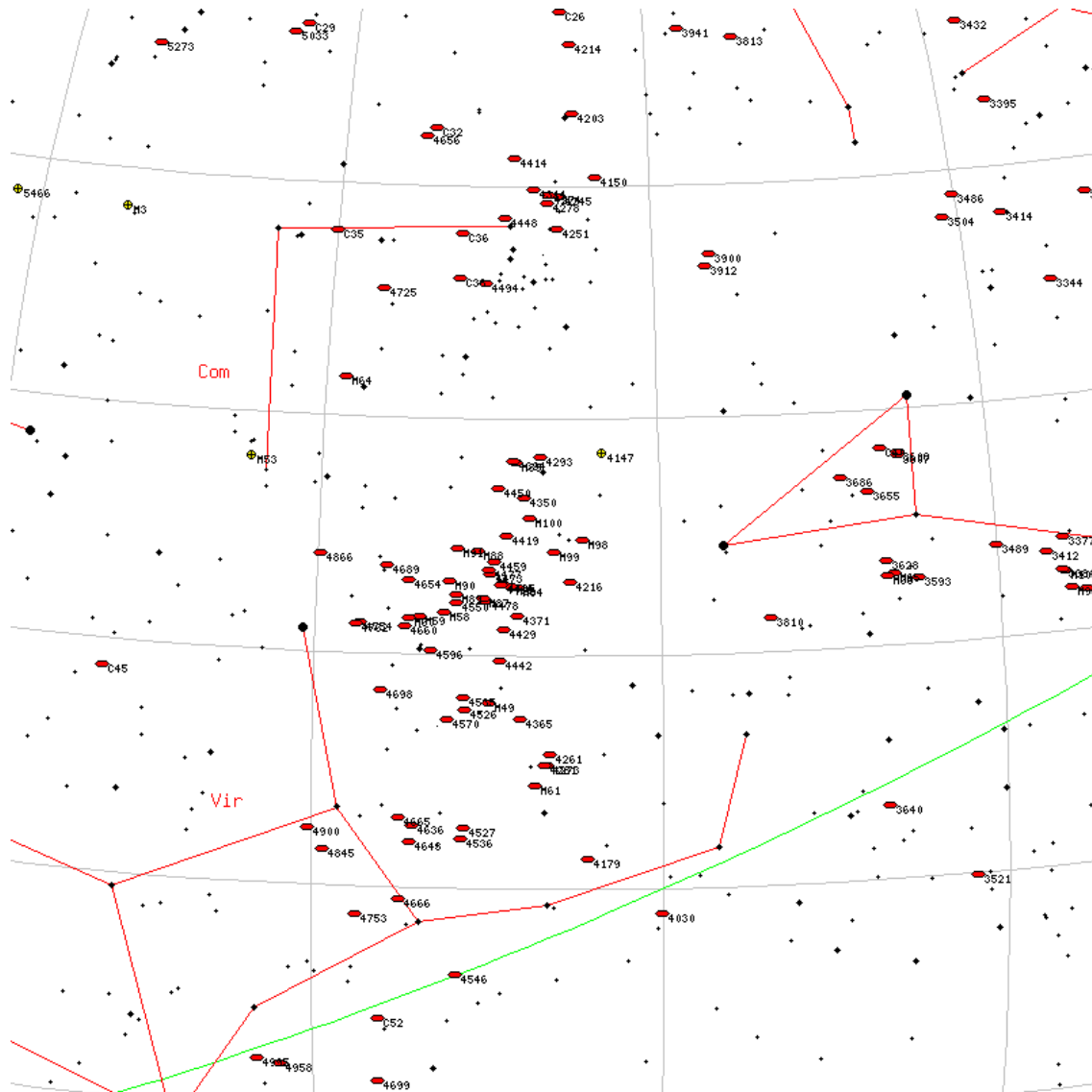


M98

M	M98	ID	NGC4192
Constellation	Com	Type	Gx
Magnitude	10.1	Size	4.9 x 1.4
RA	12h 13m	Dec	+14d 54m
Name			
Description	B, vL, vmE 152deg , vsvmbM		

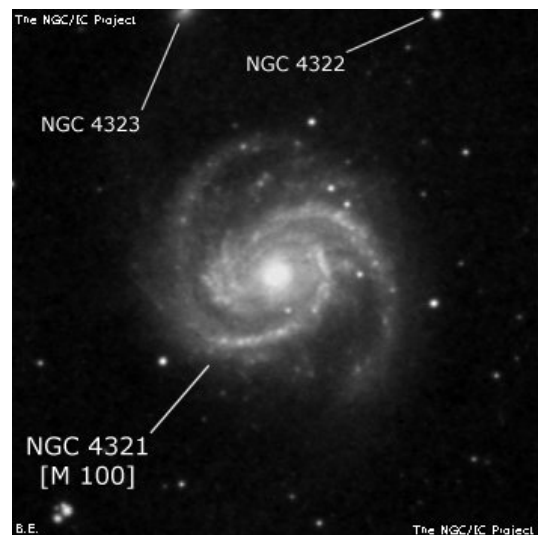
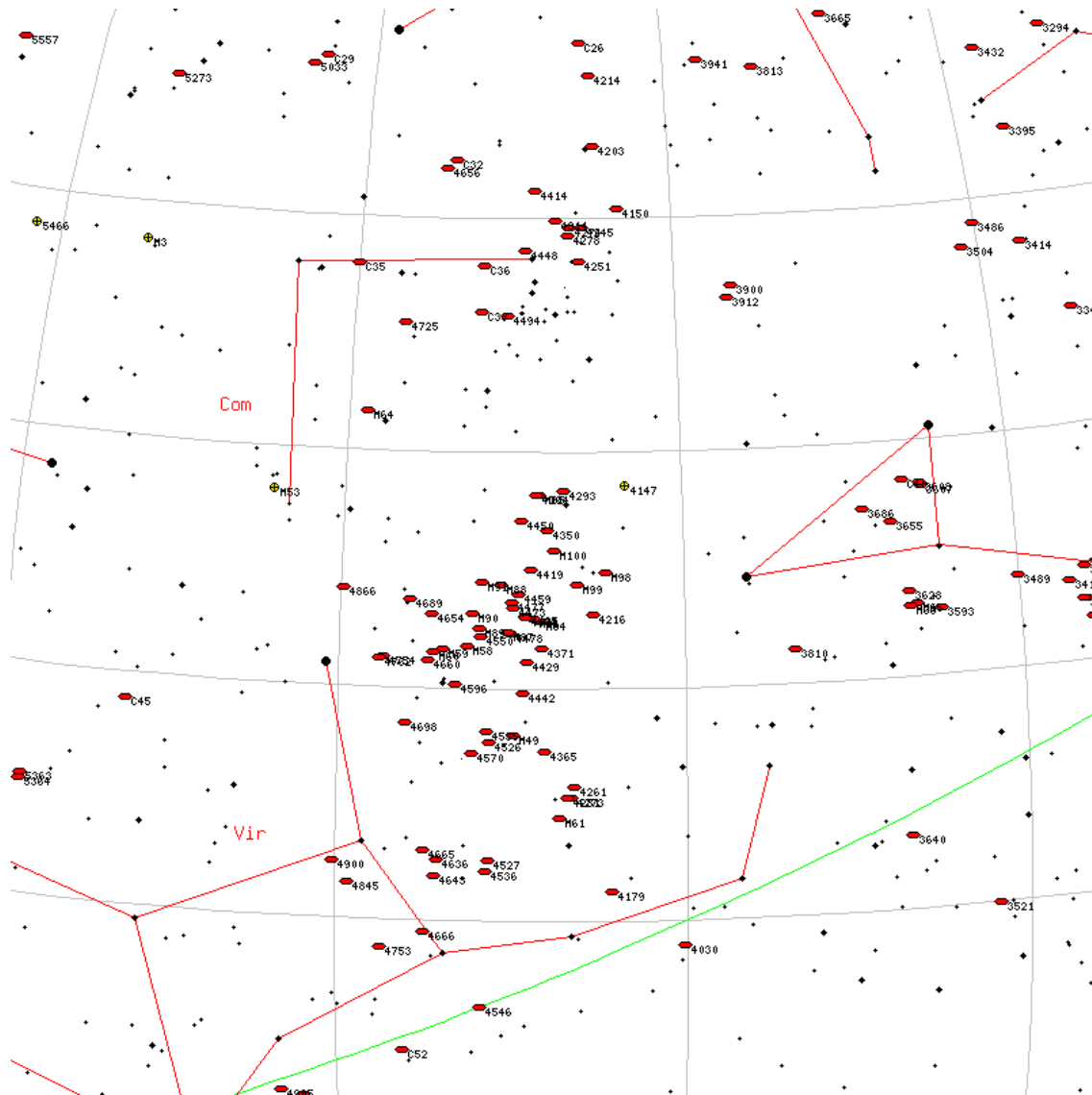


M	M99	ID	NGC4254
Constellation	Com	Type	Gx
Magnitude	9.8	Size	5.4 x 5.4
RA	12h 18m	Dec	+14d 25m
Name	Pin-Wheel Nebula		
Description	!! B, L, R, gbM, r, 3-branched spiral		

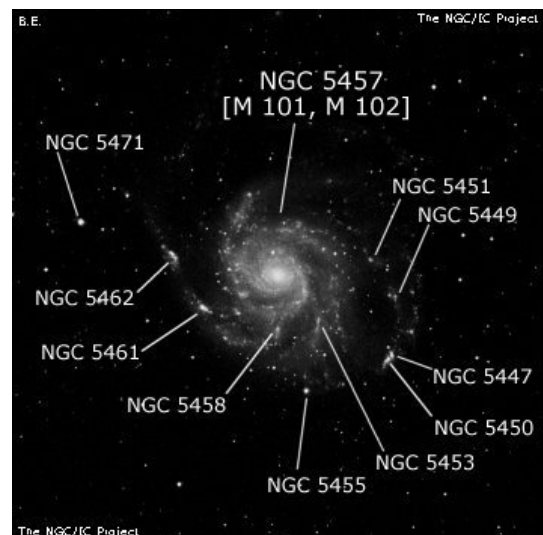
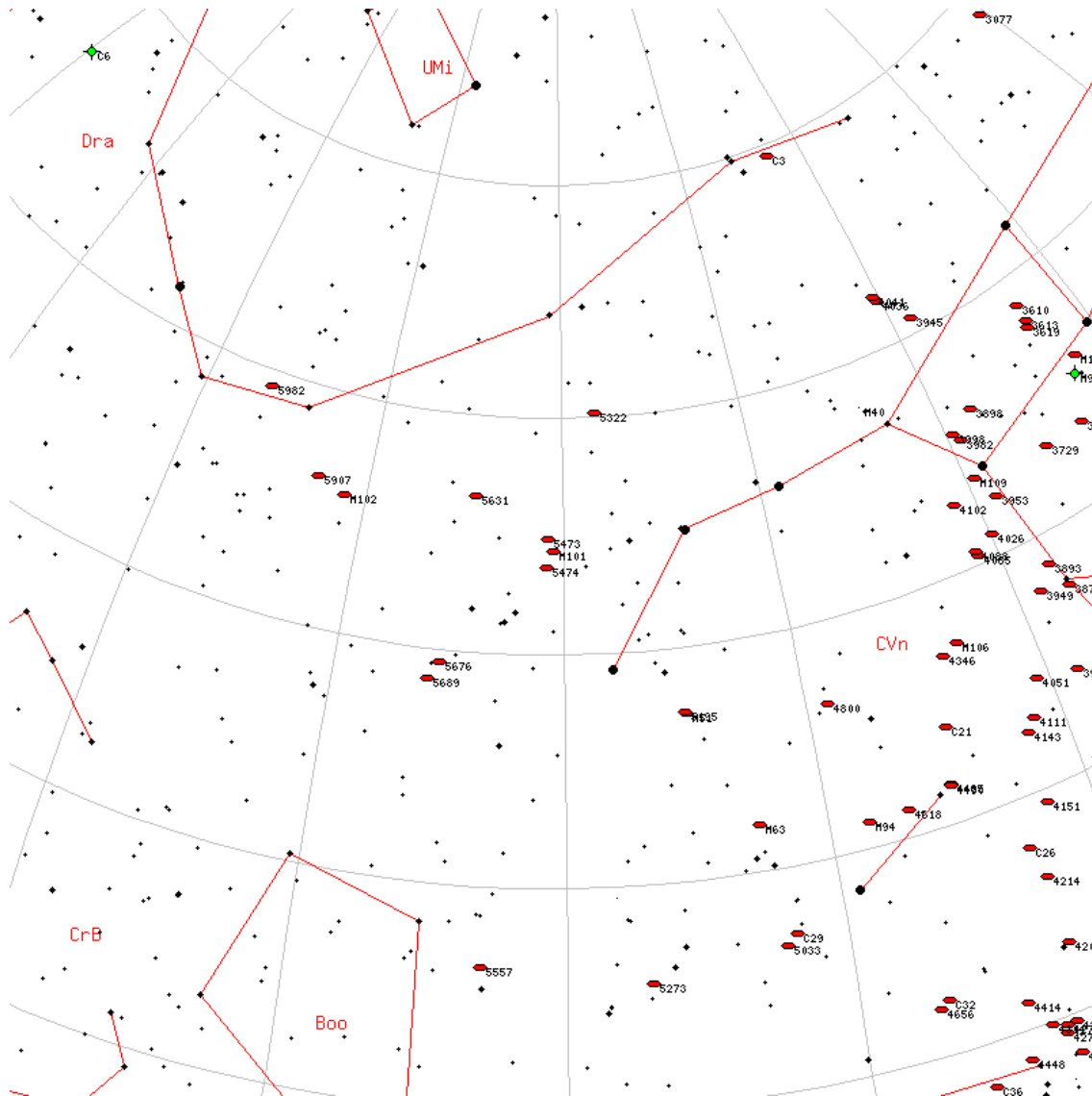


M100

M	M100	ID	NGC4321
Constellation	Com	Type	Gx
Magnitude	9.4	Size	3.7 x 3.1
RA	12h 22m	Dec	+15d 49m
Name			
Description	!! pF, vL, R, vg, psbMrN, 2-br spir		

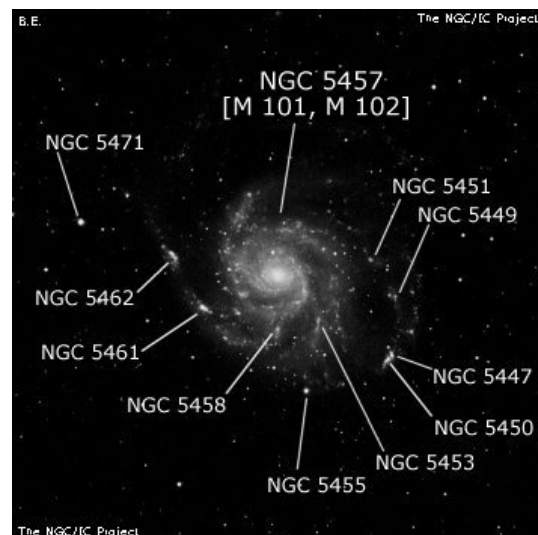
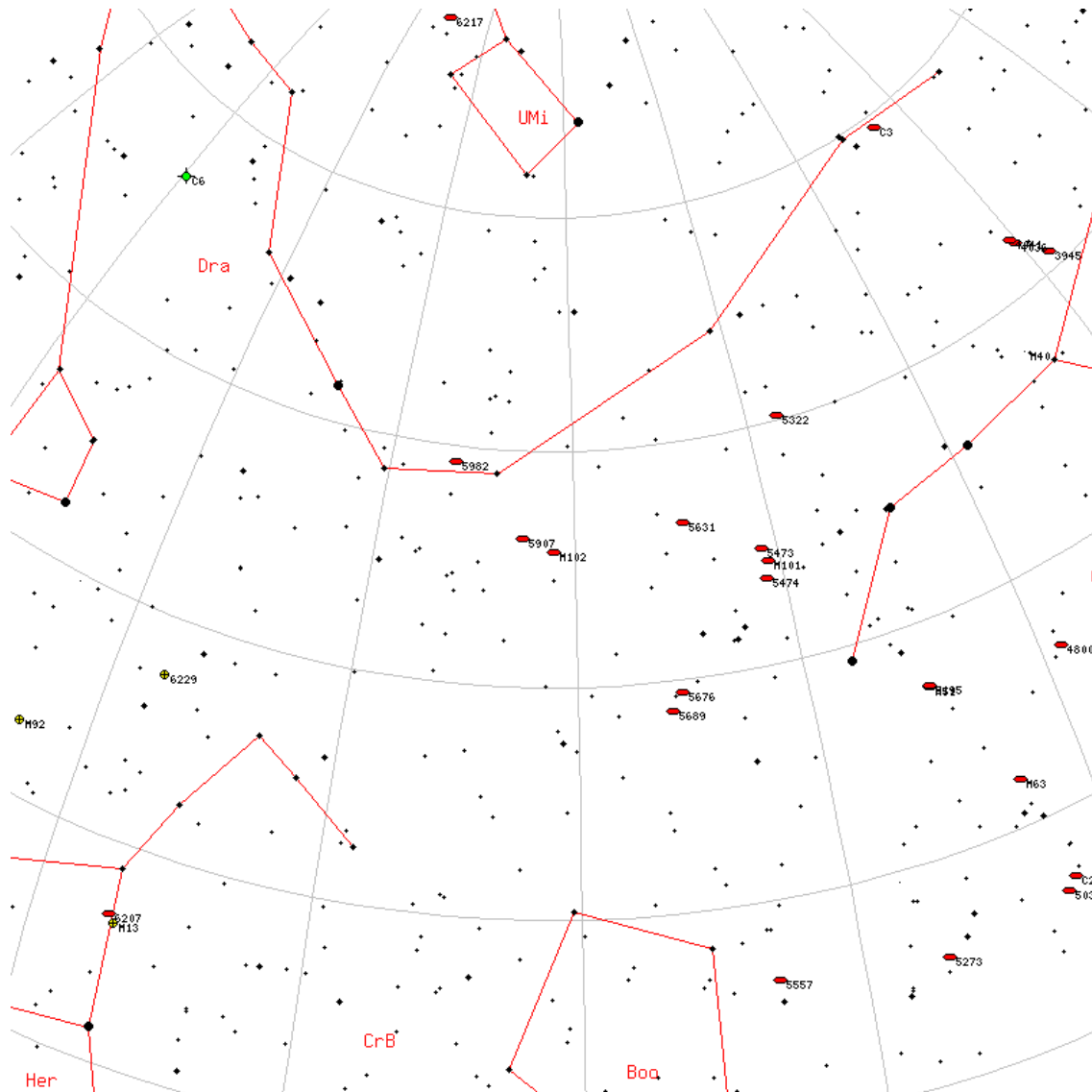


M	M101	ID	NGC5457
Constellation	UMa	Type	Gx
Magnitude	7.7	Size	26.9 x 26.9
RA	14h 03m	Dec	+54d 21m
Name	The Pinwheel Galaxy		
Description	pB, vL, iR, g, vsmbMBSN		

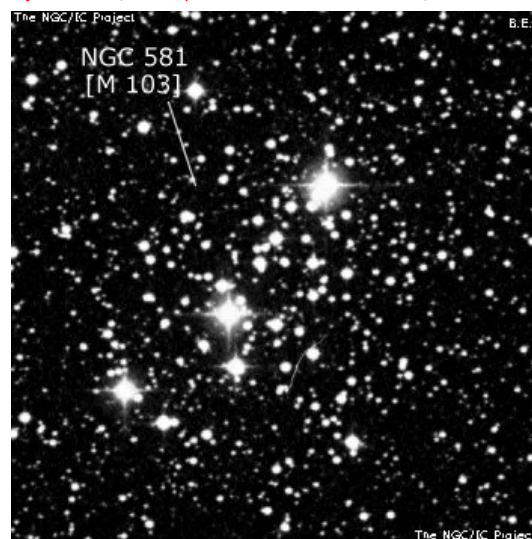
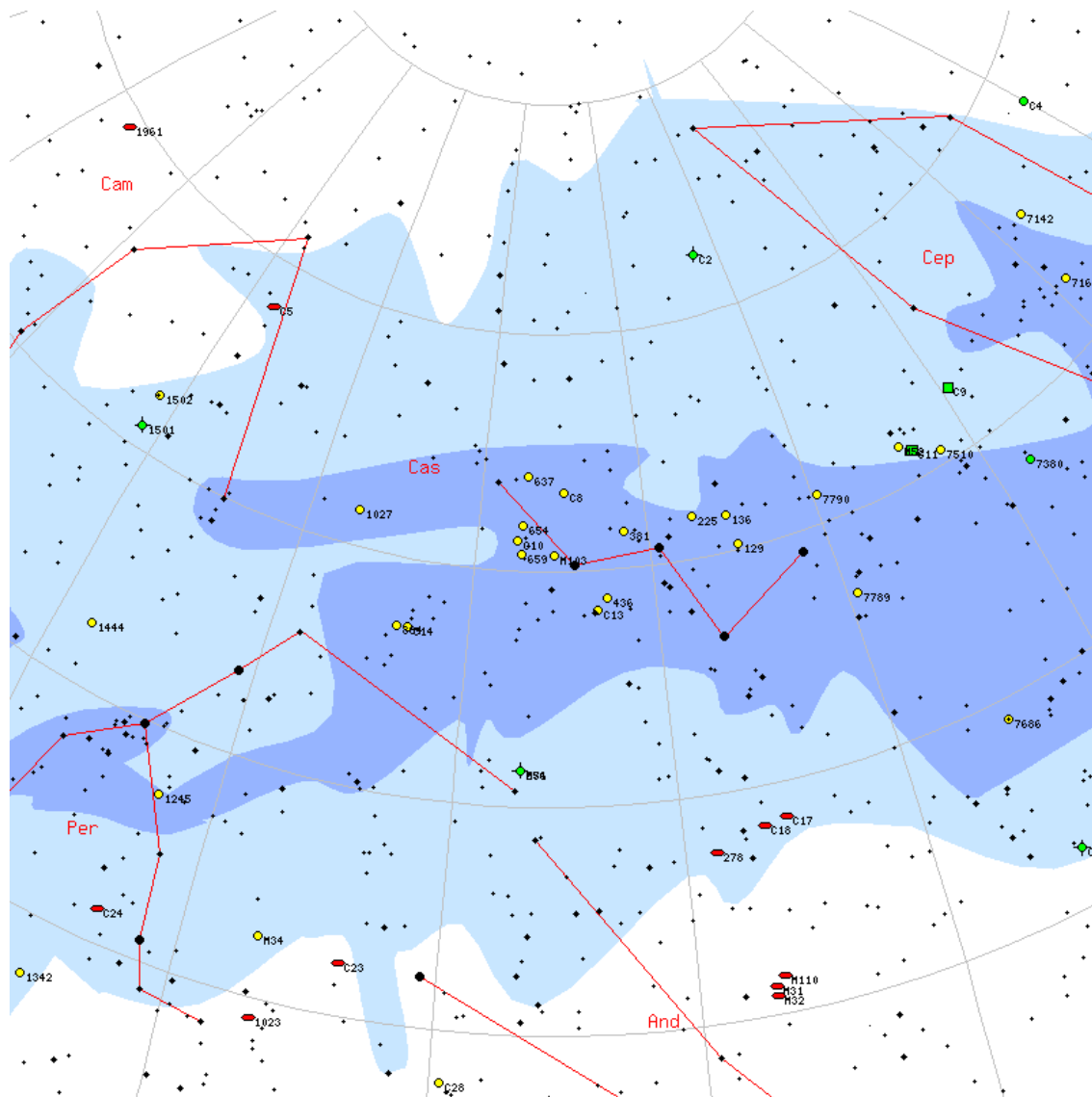


M102

M	M102	ID	NGC5866
Constellation	Dra	Type	Gx
Magnitude	10	Size	1.4 x 0.9
RA	15h 06m	Dec	+55d 46m
Name	This is NOT M102, included however for completeness		
Description	vB, cL, pmE 146deg , gbM		

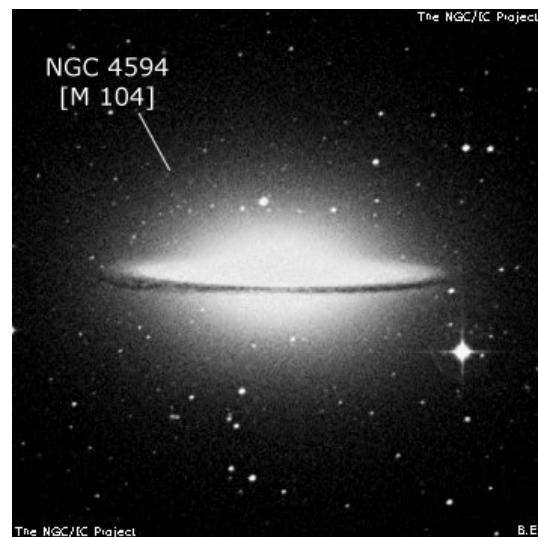
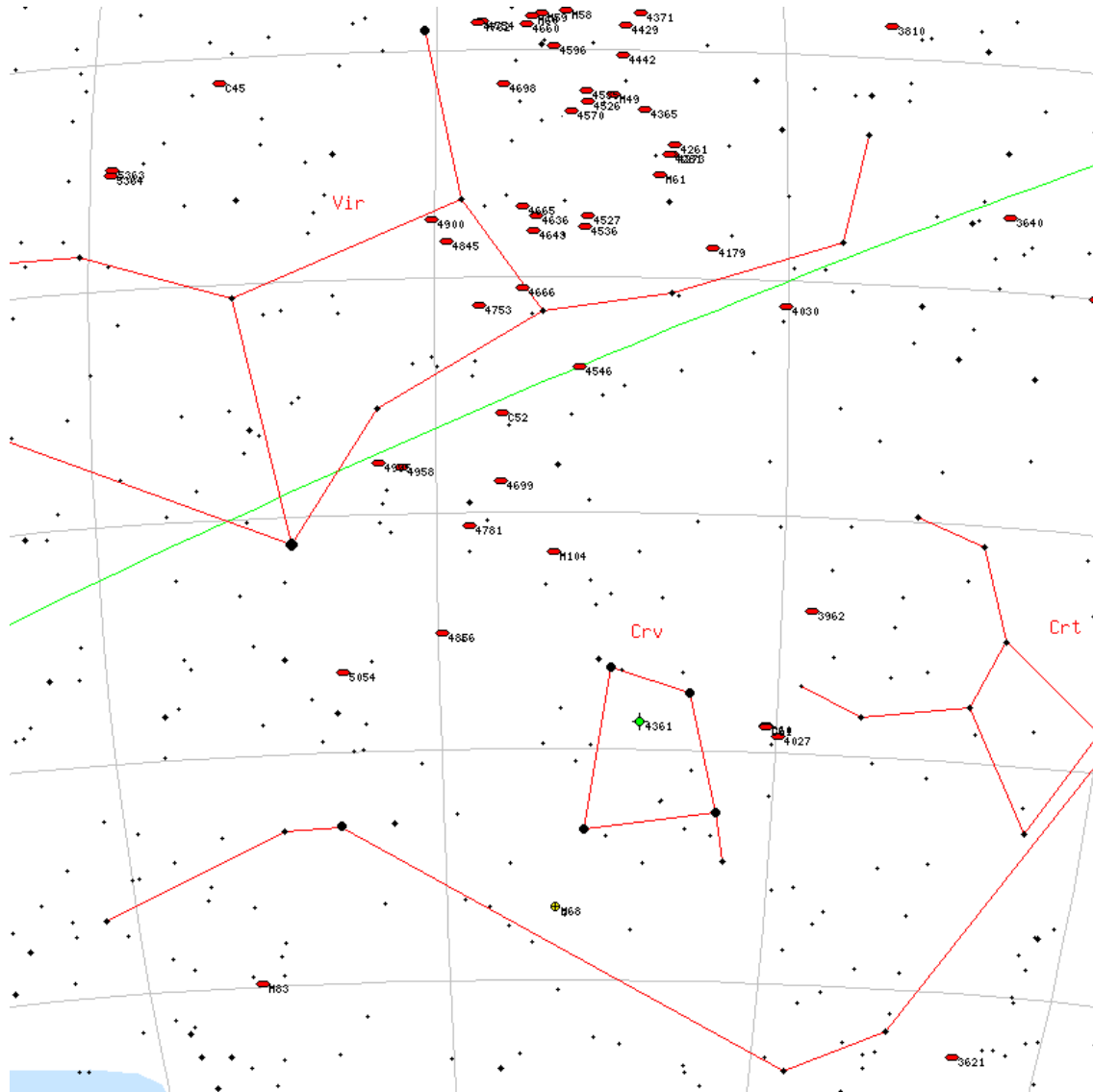


M	M103	ID	NGC581
Constellation	Cas	Type	OC
Magnitude	7.4	Size	6 x 6
RA	01h 33m	Dec	+60d 42m
Name			
Description	Cl, pL, B, R, Ri, st 10...11		

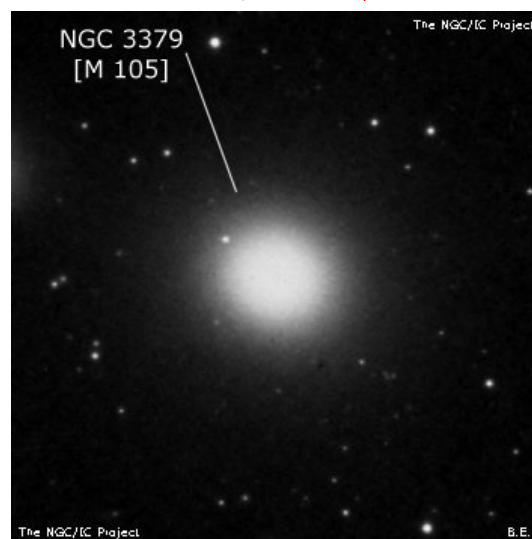
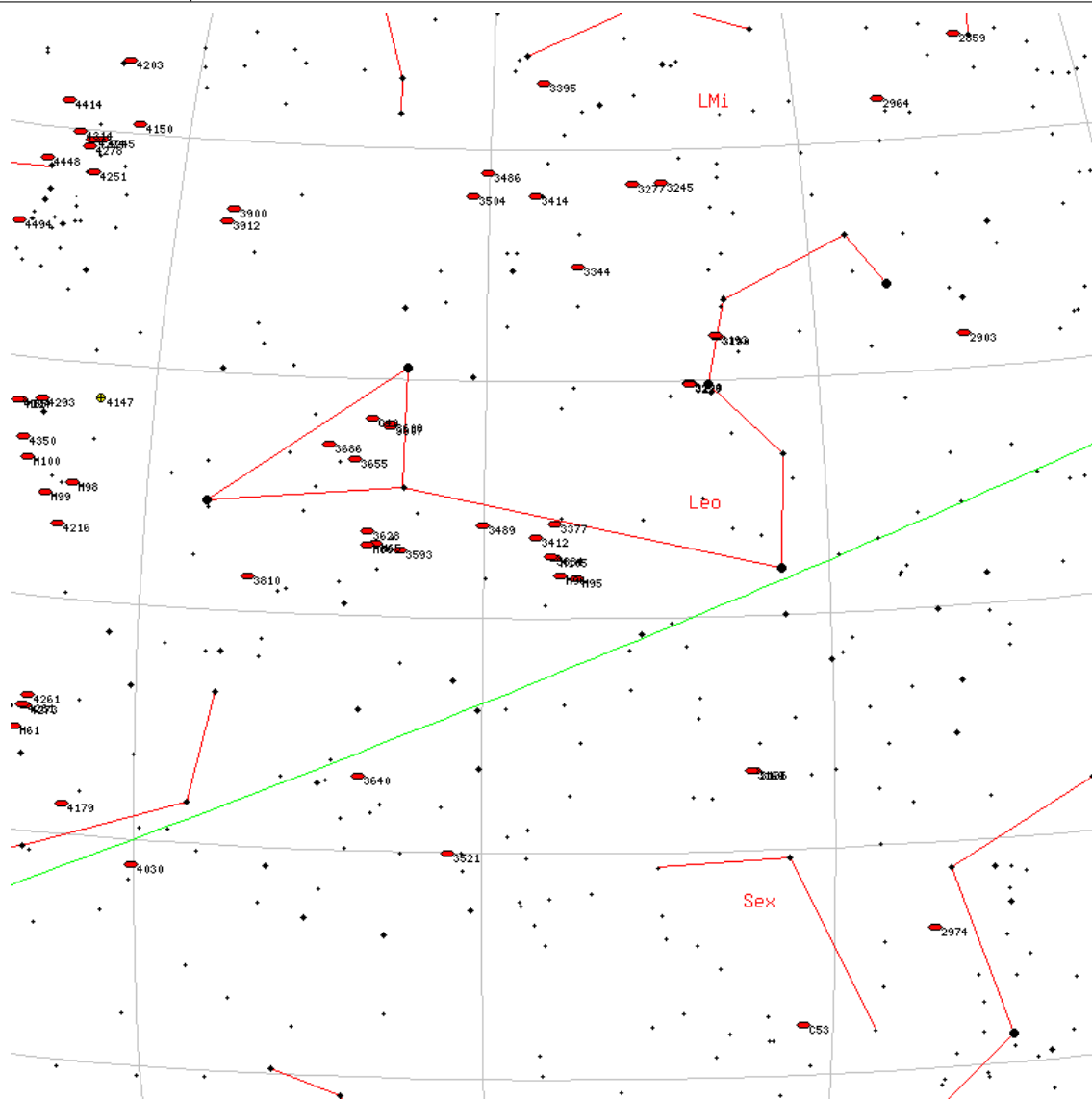


M104

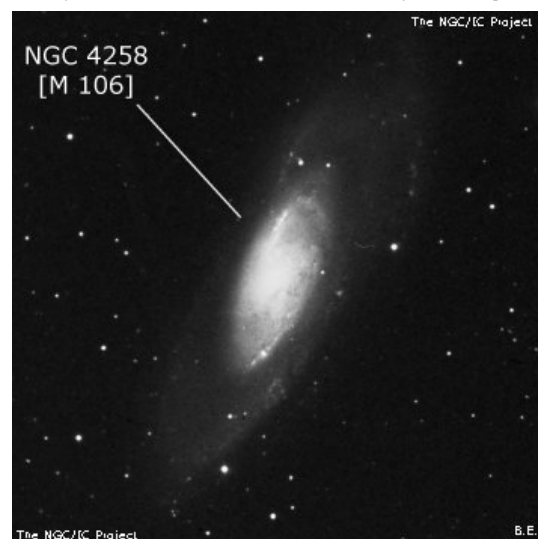
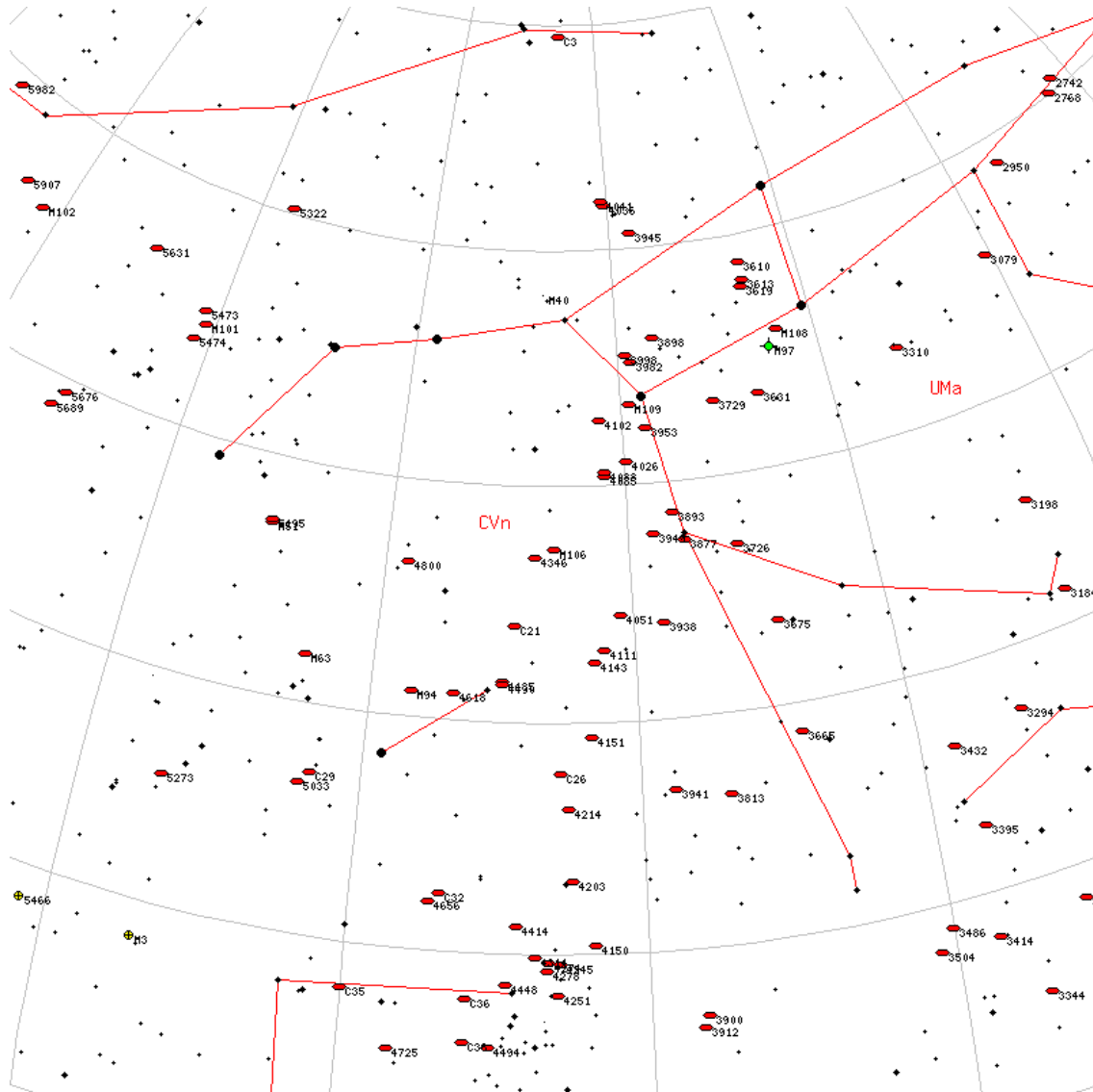
M	M104	ID	NGC4594
Constellation	Vir	Type	Gx
Magnitude	8.3	Size	4.3 x 1.8
RA	12h 40m	Dec	-11d 37m
Name	Sombrero Galaxy		
Description	!, vB, vL, eE 92deg , vsmbMN		



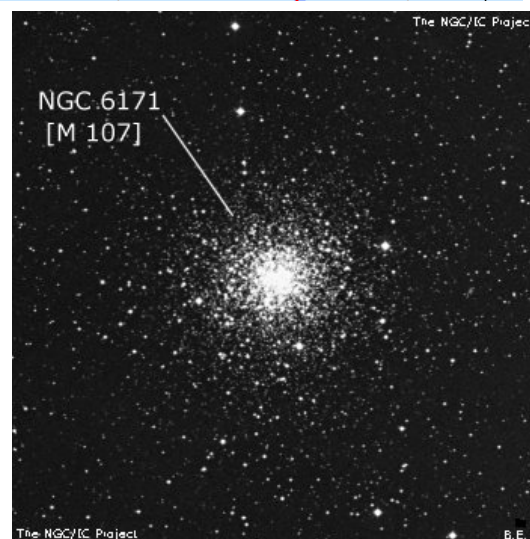
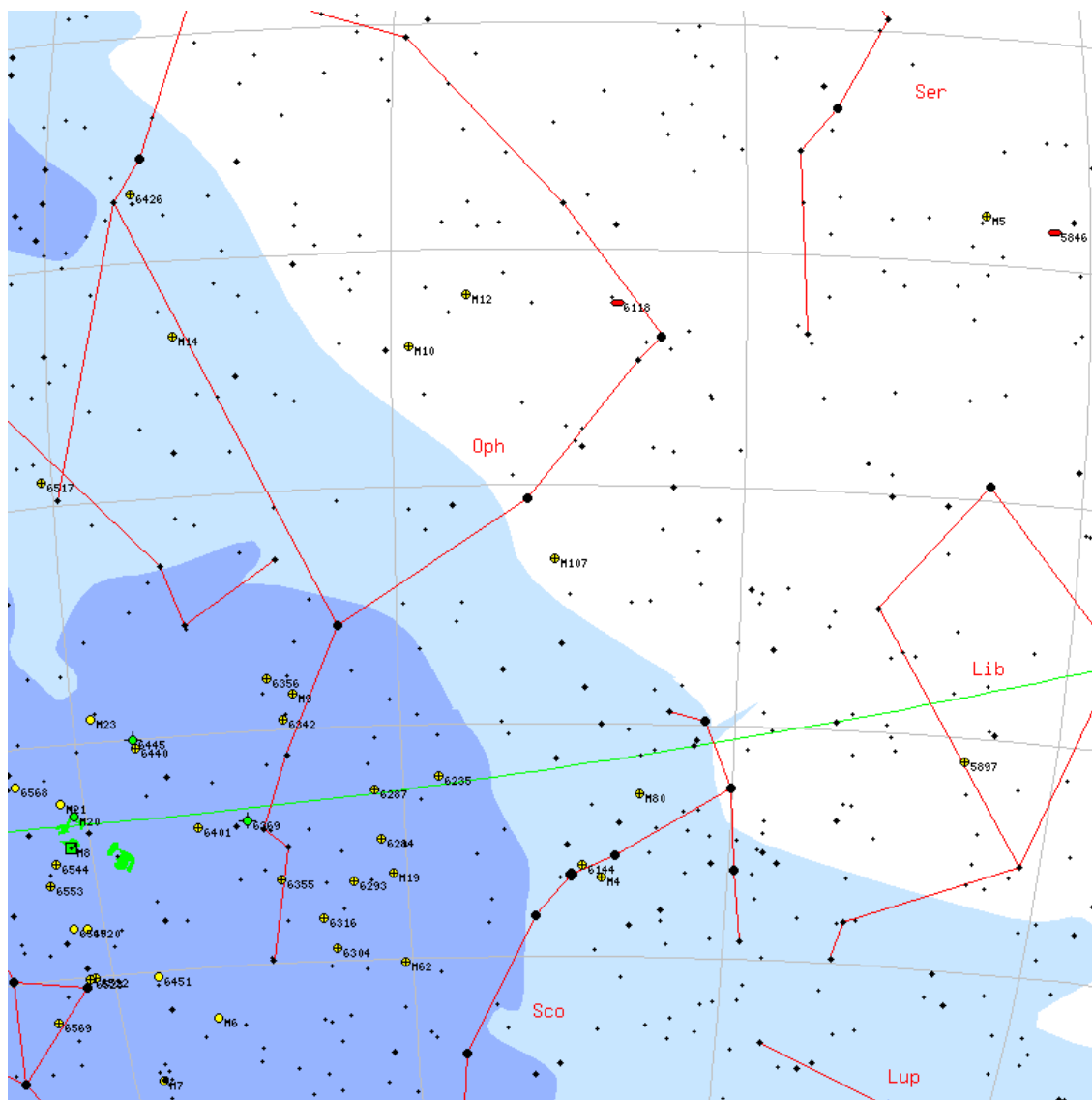
M	M105	ID	NGC3379
Constellation	Leo	Type	Gx
Magnitude	9.3	Size	4.5 x 4.5
RA	10h 47m	Dec	+12d 34m
Name			
Description	vB, cL, R, psbM, r		



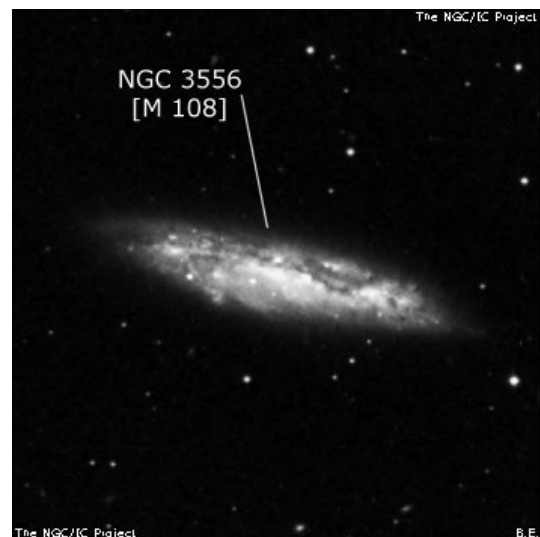
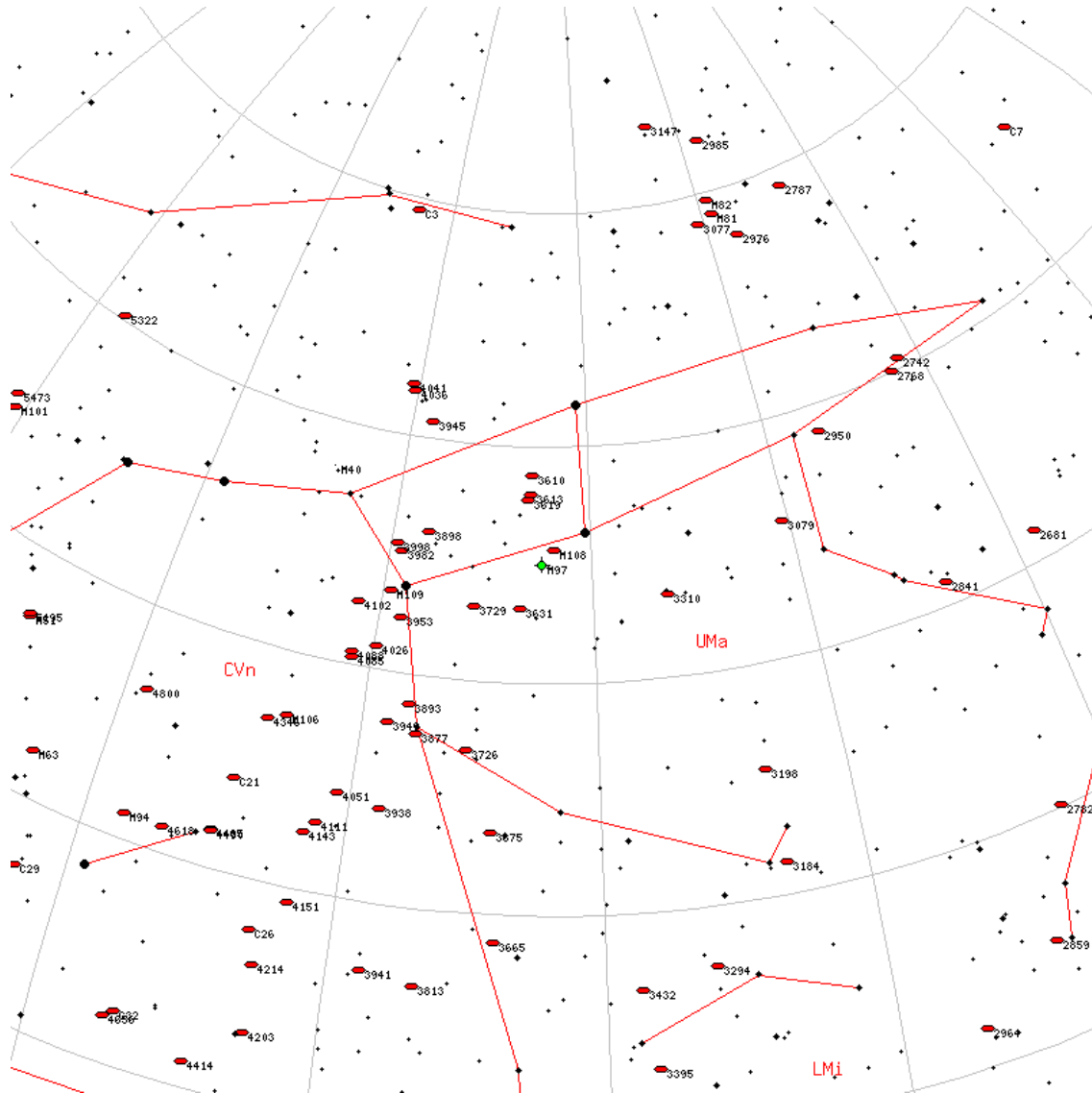
M	M106	ID	NGC4258
Constellation	CVn	Type	Gx
Magnitude	8.3	Size	9.3 x 3.6
RA	12h 19m	Dec	+47d 17m
Name			
Description	vB, vL, vmE 0deg , sbMBN		



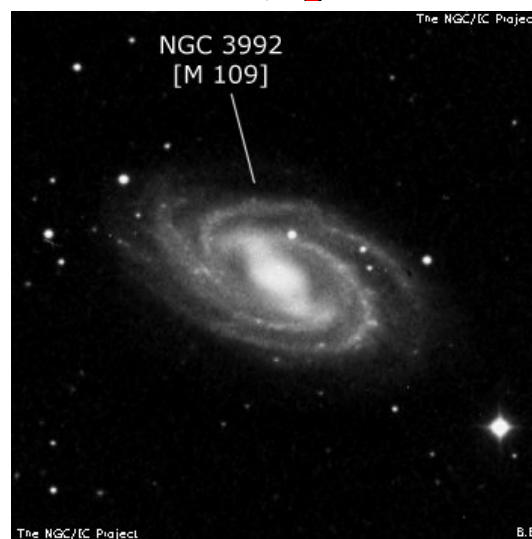
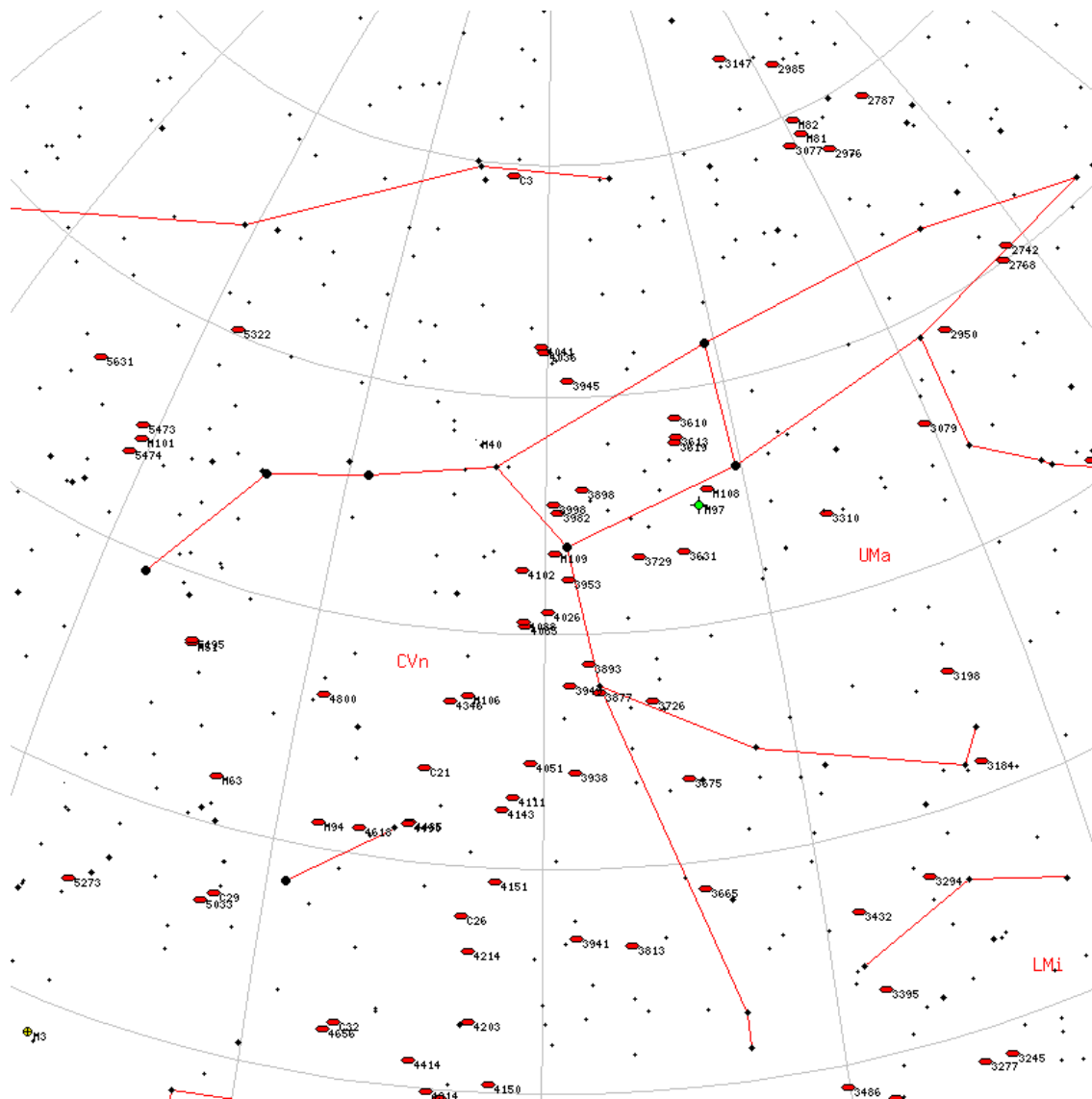
M	M107	ID	NGC6171
Constellation	Oph	Type	Gb
Magnitude	8.1	Size	10 x 10
RA	16h 32m	Dec	-13d 03m
Name			
Description	glob. cl. , L, vRi, vmC, R, rrr		



M	M108	ID	NGC3556
Constellation	UMa	Type	Gx
Magnitude	10.1	Size	4.3 x 1.1
RA	11h 11m	Dec	+55d 40m
Name	Surfboard Galaxy		
Description	cB, vL, vmE 79deg , pbM, r		



M	M109	ID	NGC3992
Constellation	UMa	Type	Gx
Magnitude	9.8	Size	3.8 x 2.3
RA	11h 57m	Dec	+53d 22m
Name			
Description	cB, vL, pmE, sbMBrN		



M110

M	M110	ID	NGC205
Constellation	And	Type	Gx
Magnitude	8	Size	10.9 x 5.5
RA	00h 40m	Dec	+41d 40m
Name	Satellite galaxy of Andromeda		
Description	vB, vL, mE 165deg , vgvmbM		

