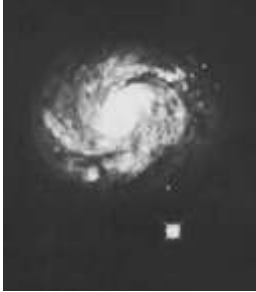
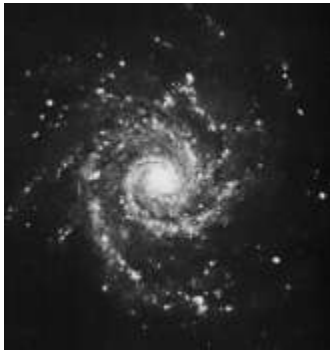


Messier Marathon List

1. M77 spiral galaxy in Cetus



2. M74 spiral galaxy in Pisces



3. M33 also Pinwheel spiral galaxy in Triangulum



4. M31 The Andromeda Galaxy spiral galaxy in Andromeda

M32 Satellite galaxy of M31 elliptical galaxy in Andromeda

M110 Satellite galaxy of M31 elliptical galaxy in Andromeda



5. M52 open cluster in Cassiopeia



6. M103 open cluster in Casseopeia



7. M76 The Little Dumbbell, Cork, or Butterfly planetary nebula in Perseus



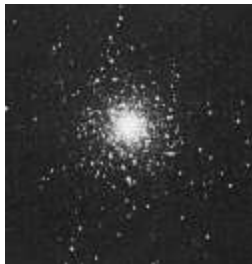
8. M34 open cluster in Perseus



9. M45 the Pleiades--the Seven Sisters open cluster in Taurus



- 10.M79 globular cluster in Lepus



- 11.M42 The Great Orion Nebula diffuse nebula in Orion

- M43 part of the Orion Nebula diffuse nebula in Orion



- 12.M78 diffuse reflection nebula in Orion



- 13.M1 The Crab Nebula supernova remnant in Taurus



- 14.M35 open cluster in Gemini



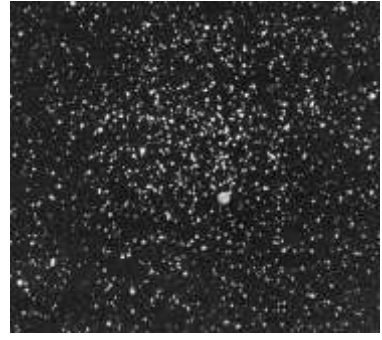
- 15.M37 open cluster in Auriga



16.M36 open cluster in Auriga



21.M46 open cluster in Puppis



17.M38 open cluster in Auriga



22.M50 open cluster in Monoceros



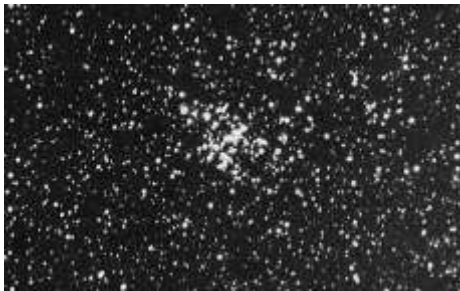
18.M41 open cluster in Canis Major



23.M48 open cluster in Hydra



19.M93 open cluster in Puppis



24.M44 Praesepe, the Beehive Cluster open cluster in Cancer



20.M47 open cluster in Puppis



25.M67 open cluster in Cancer



29.M65 spiral galaxy in Leo



26.M95 spiral galaxy in Leo



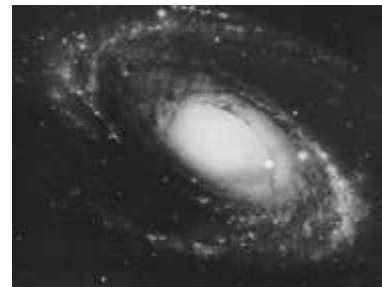
30.M66 spiral galaxy in Leo



27.M96 spiral galaxy in Leo



31.M81 Bode's Galaxy (nebula) spiral galaxy in Ursa Major



32.M82 Cigar Galaxy irregular galaxy in Ursa Major



28.M105 elliptical galaxy in Leo



33.M97 The Owl Nebula planetary nebula in Ursa Major



34.M108 spiral galaxy in Ursa Major



35.M109 spiral galaxy in Ursa Major



36.M40 Double Star WNC4 in Ursa Major



37.M106 spiral galaxy in Canes Venatici



38.M94 spiral galaxy in Canes Venatici



39.M63 Sunflower galaxy spiral galaxy in Canes Venatici



40.M51 The Whirlpool Galaxy in Canes Venatici



41.M101 The Pinwheel Galaxy spiral galaxy in Ursa Major



42.M102? Spindle Galaxy (NGC 5866) Galaxy in Draco



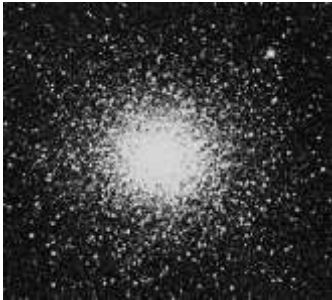
43.M53 globular cluster in Coma Berenices



44.M64 Blackeye galaxy spiral galaxy in Coma Berenices



45.M3 globular cluster in Canes Venatici



46.M98 spiral galaxy in Coma Berenices



47.M99 spiral galaxy in Coma Berenices



48.M100 spiral galaxy in Coma Berenices



49.M85 lenticular (S0) Galaxy in Coma Berenices



50.M84 lenticular (S0) Galaxy in Virgo



51.M86 lenticular (S0) Galaxy in Virgo



52.M87 Virgo A elliptical galaxy in Virgo



53.M89 elliptical galaxy in Virgo



54.M90 spiral galaxy in Virgo



55.M88 spiral galaxy in Coma Berenices



56.M91 spiral galaxy in Coma Berenices



57.M58 elliptical galaxy in Virgo



58.M59 elliptical galaxy in Virgo



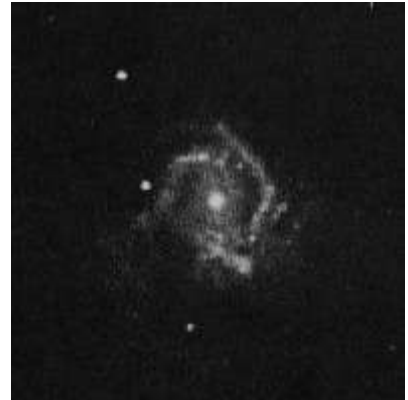
59.M60 elliptical galaxy in Virgo



60.M49 elliptical galaxy in Virgo



61.M61 spiral galaxy in Virgo



62.M104 The Sombrero Galaxy spiral galaxy in Virgo



63.M68 globular cluster in Hydra



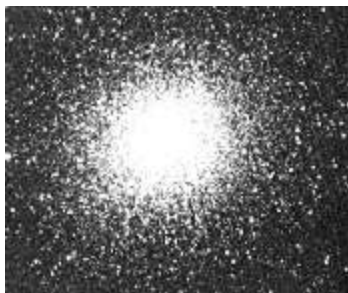
64.M83 Southern Pinwheel Galaxy spiral galaxy in Hydra



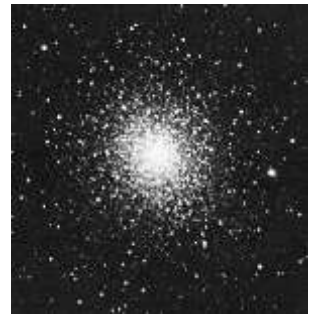
65.M5 globular cluster in Serpens Caput



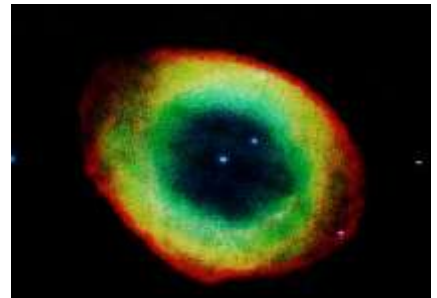
66.M13 Great Hercules Globular Cluster in Hercules



67.M92 globular cluster in Hercules



68.M57 The Ring Nebula planetary nebula in Lyra



69.M56 globular cluster in Lyra



70.M29 open cluster in Cygnus



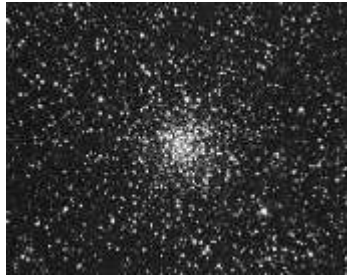
71.M39 open cluster in Cygnus



72.M27 The Dumbbell Nebula planetary nebula in Vulpecula



73.M71 globular cluster in Sagitta



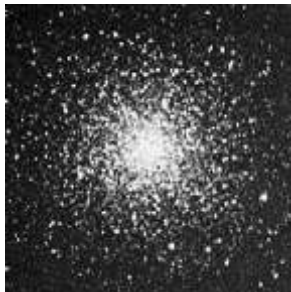
74.M107 globular cluster in Ophiuchus



75.M10 globular cluster in Ophiuchus



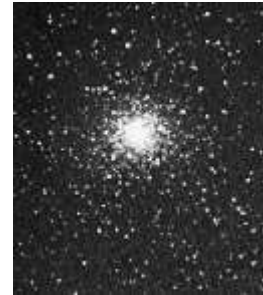
76.M12 globular cluster in Ophiuchus



77.M14 globular cluster in Ophiuchus



78.M9 globular cluster in Ophiuchus



79.M4 globular cluster in Scorpius



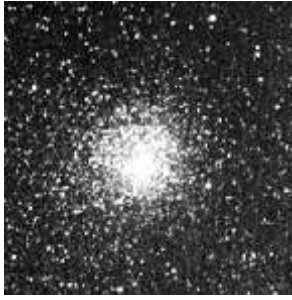
80.M80 globular cluster in Scorpius



81.M19 globular cluster in Ophiuchus



82.M62 globular cluster in Ophiuchus



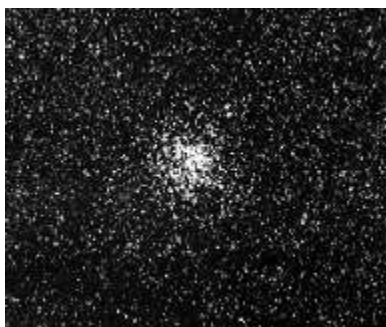
83.M6 The Butterfly Cluster open cluster in Scorpius



84.M7 Ptolemy's Cluster open cluster in Scorpius



85.M11 The Wild Duck Cluster open cluster in Scutum



86.M26 open cluster in Scutum



87.M16 open cluster associated with the Eagle Nebula in Serpens Cauda



88.M17 The Omega or Swan Nebula diffuse nebula in Sagittarius



89.M18 open cluster in Sagittarius



90.M24 Milky Way Patch star cloud with open cluster NGC 6603 in Sagittarius



91.M25 open cluster in Sagittarius



92.M23 open cluster in Sagittarius



93.M21 open cluster in Sagittarius



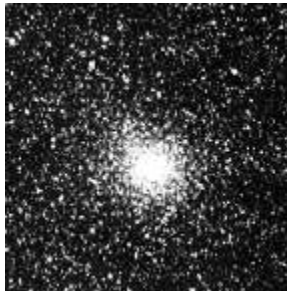
94.M20 The Trifid Nebula diffuse nebula in Sagittarius



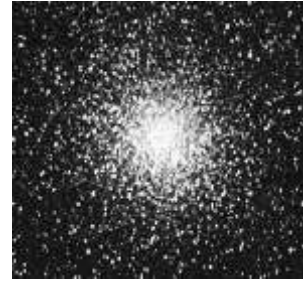
95.M8 The Lagoon Nebula diffuse nebula in Sagittarius



96.M28 globular cluster in Sagittarius



97.M22 globular cluster in Sagittarius



98.M69 globular cluster in Sagittarius



99.M70 globular cluster in Sagittarius



100. M54 globular cluster in Sagittarius



101. M55 globular cluster in Sagittarius



102. M75 globular cluster in Sagittarius



103. M15 globular cluster in Pegasus



104. M2 globular cluster in Aquarius



105. M72 globular cluster in Aquarius

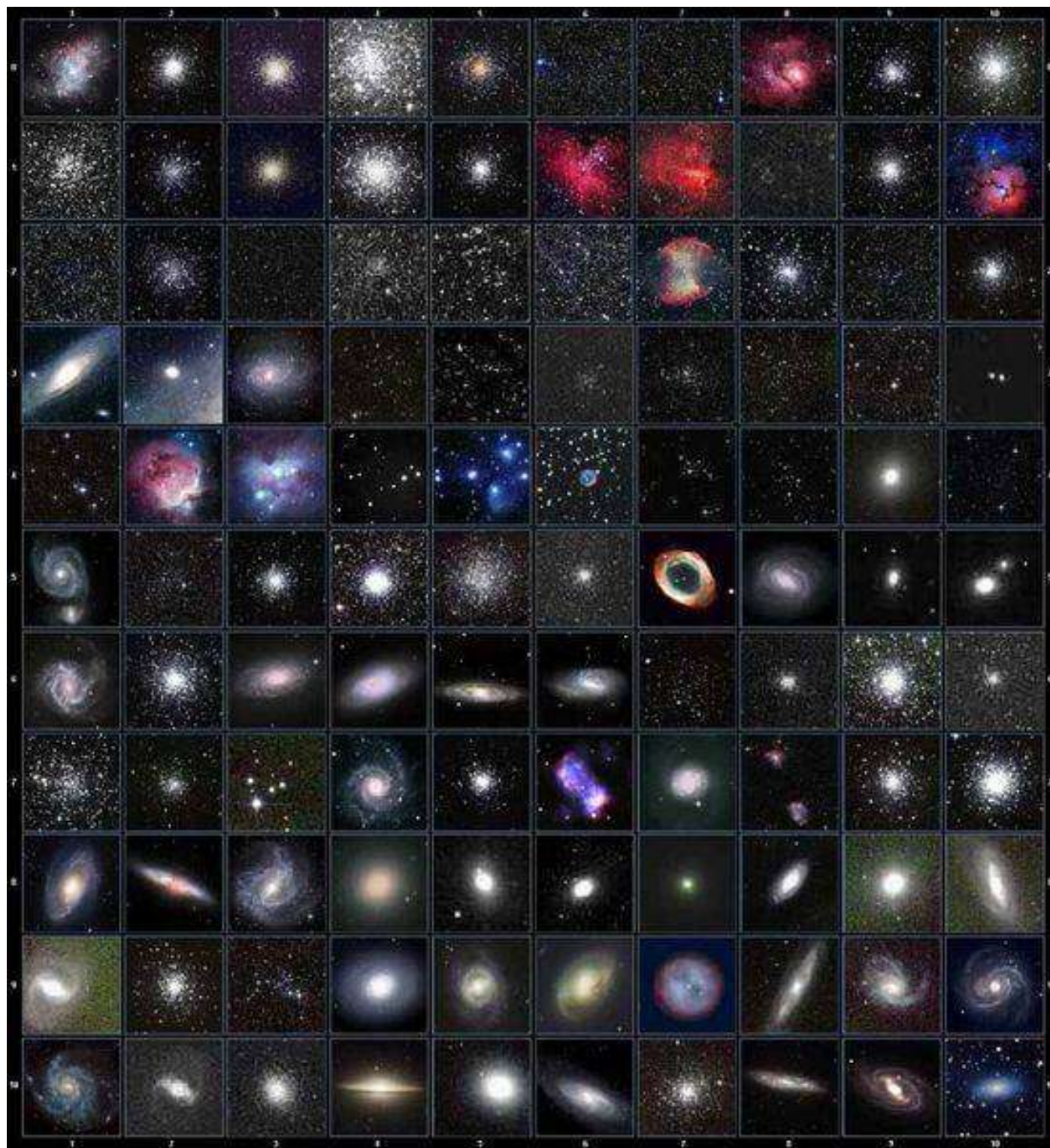


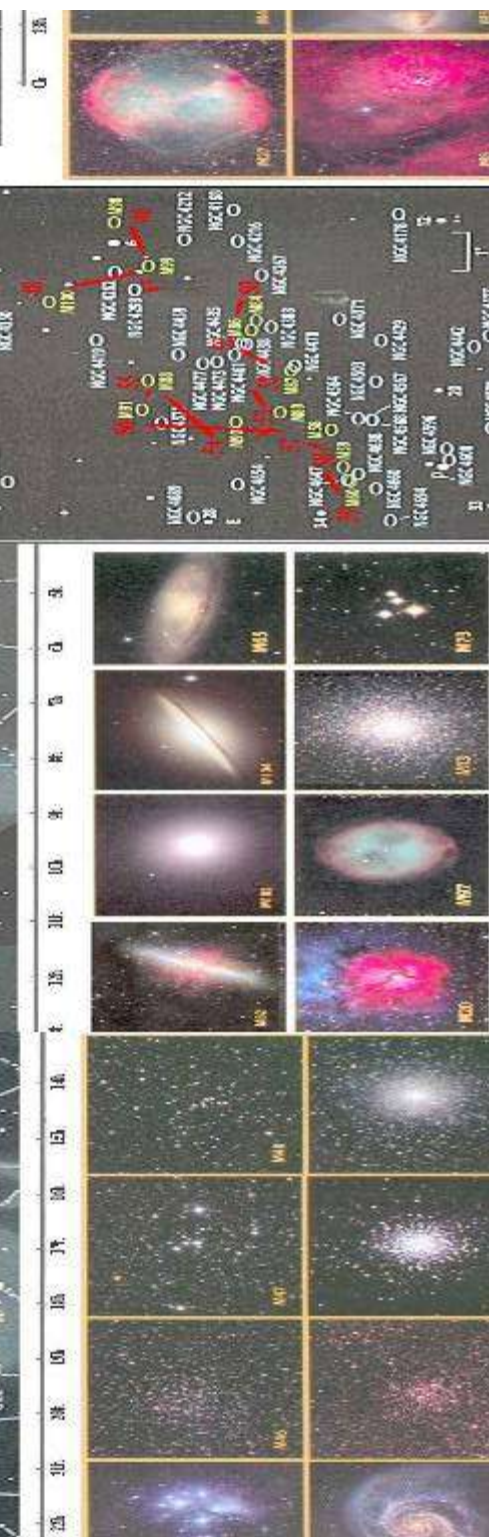
106. M73 open cluster in Aquarius



107. M30 globular cluster in Capricornus







My Messier Marathon
=====

Date: ____ . ____ ____ Observer: _____

Location: _____ Lat: _____ Long: _____ Time Zone: _____

Instruments used: _____

General Comments: _____

The Object List:
=====

No.	M#	NGC#	Con	Type	Your#	Time	25.	M50	2323	Mon	OC1	_____	__:	__
1.	M77	1068	Cet	G S	_____	__:	26.	M48	2548	Hya	OC1	_____	__:	__
2.	M74	628	Psc	G S	_____	__:	27.	M44	2632	Cnc	OC1	_____	__:	__
3.	M33	598	Tri	G S	_____	__:	28.	M67	2628	Cnc	OC1	_____	__:	__
4.	M31	224	And	G S	_____	__:	29.	M95	3351	Leo	G S	_____	__:	__
5.	M32	221	And	G E	_____	__:	30.	M96	3368	Leo	G S	_____	__:	__
6.	M110	205	And	G E	_____	__:	31.	M105	3379	Leo	G E	_____	__:	__
7.	M52	7654	Cas	OC1	_____	__:	32.	M65	3623	Leo	G S	_____	__:	__
8.	M103	581	Cas	OC1	_____	__:	33.	M66	3627	Leo	G S	_____	__:	__
9.	M76	650	Per	Pl	_____	__:	34.	M81	3031	UMa	G S	_____	__:	__
10.	M34	1039	Per	OC1	_____	__:	35.	M82	3034	UMa	G Ir	_____	__:	__
11.	M45	-	Tau	OC1	_____	__:	36.	M97	3587	UMa	Pl	_____	__:	__
12.	M79	1904	Lep	Gl	_____	__:	37.	M108	3556	UMa	G S	_____	__:	__
13.	M42	1976	ori	DN	_____	__:	38.	M109	3992	UMa	G S	_____	__:	__
14.	M43	1982	Ori	DN	_____	__:	39.	M40	-	UMa	2St	_____	__:	__
15.	M78	2068	Ori	DN	_____	__:	40.	M106	4258	CVn	G S	_____	__:	__
16.	M1	1952	Tau	SNR	_____	__:	41.	M94	4736	CVn	G S	_____	__:	__
17.	M35	2168	Gem	OC1	_____	__:	42.	M63	5055	CVn	G S	_____	__:	__
18.	M37	2099	Aur	OC1	_____	__:	43.	M51	5194	CVn	G S	_____	__:	__
19.	M36	1960	Aur	OC1	_____	__:	44.	M101	5457	UMa	G S	_____	__:	__
20.	M38	1922	Aur	OC1	_____	__:	45.	M102?	5866	Dra	GS0	_____	__:	__
21.	M41	2287	CMa	OC1	_____	__:	46.	M53	5024	Com	Gl	_____	__:	__
22.	M93	2447	Pup	OC1	_____	__:	47.	M64	4826	Com	G S	_____	__:	__
23.	M47	2422	Pup	OC1	_____	__:	48.	M3	5272	CVn	Gl	_____	__:	__
24.	M46	2437	Pup	OC1	_____	__:	49.	M98	4192	Com	G S	_____	__:	__

50. M99 4254 Com G S _____ :__

51. M100 4321 Com G S _____ :__

52. M85 4382 Com GS0 _____ :__

53. M84 4374 Vir GS0 _____ :__

54. M86 4406 Vir GS0 _____ :__

55. M87 4486 Vir G E _____ :__

56. M89 4552 Vir G E _____ :__

57. M90 4569 Vir G S _____ :__

58. M88 4501 Com G S _____ :__

59. M91 4548 Com G S _____ :__

60. M58 4579 Vir G S _____ :__

61. M59 4621 Vir G E _____ :__

62. M60 4649 Vir G E _____ :__

63. M49 4472 Vir G E _____ :__

64. M61 4303 Vir G S _____ :__

65. M104 4594 Vir G S _____ :__

66. M68 4590 Hya Gl _____ :__

67. M83 5236 Hya G S _____ :__

68. M5 5904 Ser Gl _____ :__

69. M13 6205 Her Gl _____ :__

70. M92 6341 Her Gl _____ :__

71. M57 6720 Lyr Pl _____ :__

72. M56 6779 Lyr Gl _____ :__

73. M29 6913 Cyg OC1 _____ :__

74. M39 7092 Cyg OC1 _____ :__

75. M27 6853 Vul Pl _____ :__

76. M71 6838 Sge Gl _____ :__

77. M107 6171 Oph Gl _____ :__

78. M12 6218 Oph Gl _____ :__

79. M10 6254 Oph Gl _____ :__

80. M14 6402 Oph Gl _____ :__

81. M9 6333 Oph Gl _____ :__

82. M4 6121 Sco Gl _____ :__

83. M80 6093 Sco Gl _____ :__

84. M19 6273 Oph Gl _____ :__

85. M62 6266 Oph Gl _____ :__

86. M6 6405 Sco OC1 _____ :__

87. M7 6475 Sco OC1 _____ :__

88. M11 6705 Sct OC1 _____ :__

89. M26 6694 Sct OC1 _____ :__

90. M16 6611 Ser OC1 _____ :__

91. M17 6618 Sgr DN _____ :__

92. M18 6613 Sgr OC1 _____ :__

93. M24 >6603 Sgr OC1 _____ :__

94. M25 I4725 Sgr OC1 _____ :__

95. M23 6494 Sgr OC1 _____ :__

96. M21 6531 Sgr OC1 _____ :__

97. M20 6514 Sgr DN _____ :__

98. M8 6523 Sgr DN _____ :__

99. M28 6626 Sgr Gl _____ :__

100. M22 6656 Sgr Gl _____ :__

101. M69 6637 Sgr Gl _____ :__

102. M70 6681 Sgr Gl _____ :__

103. M54 6715 Sgr Gl _____ :__

104. M55 6809 Sgr Gl _____ :__

105. M75 6864 Sgr Gl _____ :__

106. M15 7078 Peg Gl _____ :__

107. M2 7089 Aqr Gl _____ :__

108. M72 6981 Aqr Gl _____ :__

109. M73 6994 Aqr 4St _____ :__

110. M30 7099 Cap Gl _____ :__

* Score: _____ of 110 !! *

Γενικές Οδηγίες:

• Προτεινόμενος Εξοπλισμός

1. Κιάλια 10×50 ή 7×50
2. Τηλεσκόπιο 6" και πάνω με Finder
3. Προσοφθάλμια ~32mm και ~42mm ή και μικρότερα
4. Χάρτες του ουρανού με αρκετά αμυδρά άστρα
5. Κόκκινος φακός

• Πριν την Παρατήρηση

1. Στήσιμο του εξοπλισμού πριν τη δύση του ήλιου.
2. Προετοιμασία του εξοπλισμού και έλεγχος των Gadget.
3. ΑΠΑΡΑΙΤΗΤΗ προσοχή στην ευθυγράμμιση του Finder.
4. Η ευθυγράμμιση των οπτικών να έχει γίνει από πριν.

• Αρχή της Παρατήρησης

Πρέπει απαραίτητα να μην καθυστερήσουμε στην αρχή!! Για να δούμε τα παρακάτω πρέπει να βιαστούμε!!

1. **M74** και **M77** θα είναι στη δύση οπότε λεπτομέρειες δεν θα δούμε
2. **M33** με mag 6.2
3. **M31 M32 M110** εύκολο και γρήγορο
4. **M52, M103, M76, M34** Δύσκολα στην παρατήρηση. Πολύ κοντά στη δύση τους!
5. Τώρα λίγο Relax

• Η συνέχεια

1. Pleiades (**M45**) με κιάλια
2. **M79, M42 M43, M78** εύκολα
3. **M1** δύσκολο στη εύρεση
4. **M35, M37, M36, M38** open clusters και με κιάλια
5. **M41, M50, M47, M46, M93, M47, M46, M93, M48, M44, M67** open clusters
6. Διάλειμμα μιας ώρας!
7. **M81, M82** Κοντά ο ένας στον άλλο
8. **M108, M97, M109, M40**
9. **M95, M96, M105** αρκετά κοντά σε τρίγωνο
10. **M65, M66** σχεδόν στο ίδιο πεδίο
11. **M101** αρκετά αμυδρός
12. **M51** Whirlpool Galaxy εντυπωσιακός γαλαξίας
13. **M3** εντυπωσιακό σμήνος
14. **M53, M64**

• Σειρά γαλαξιών

Προσέχουμε να μην μπερδέψουμε τους γαλαξίες!! Συμβουλευόμαστε τις εικόνες τους.

1. **M60, M59, M58** εύκολοι στην εύρεση.
2. **M89, M90** σχεδόν στο ίδιο πεδίο. Για το M90 χρειαζόμαστε αρκετή μεγέθυνση.
3. **M88, M91, M87, M86, M84, M100**
4. **M85, M98, M61**
5. **M104** Sombrero Galaxy πανέμορφος γαλαξίας.

- **Στα μέσα της Νύχτας**

1. **M68**
2. **M83** ένας από τους πιο λαμπρούς γαλαξίες.
3. **M102, M5**
4. **M13** εντυπωσιακό σφαιρωτό σμήνος.
5. **M92, M12, M10, M14, M80, M4, M19, M62** globular clusters.
6. **M6, M7** εύκολα και με κιάλια.
7. Lagoon Nebula (**M8**), Trifid Nebula (**M20**)
8. **M21, M23** open cluster
9. **M9**
10. **Πρέπει να βιαστούμε!**
11. **M25, M24, M18** open clusters
12. Omega Nebula (**M17**), Eagle Nebula (**M16**)
13. **M11, M26, M22, M28, M69, M70, M54, M55**
14. Ring Nebula (**M57**)
15. **M56, M29, M39, M71**
16. Dumbbell Nebula (**M27**)

- **Αρχίζει να ξημερώνει**

Μένουν ακόμα έξι!

1. **M15** globular cluster αρκετά λαμπρό
2. **M75, M72, M73**
3. **M2** Το πρώτο σφαιρωτό σμήνος που κατέγραψε ο Messier
4. **M30** Το τελευταίο αντικείμενο στο κατάλογό μας! Δύσκολο να παρατηρηθεί καθώς ξημερώνει.