

MAS Fall Mini-Messier Marathon -Sept. 26th, 2014

Name _____										
email _____										
Beginner (seen less than 30 Messier objects in night) Experienced (circle one)										
Equipment Used:										
Starhop	GOTO	DSC	(circle one)							
Class	Prim ID	Con	Mag	Size	Rise	Set	Optimum	Penn #	Time Obs.	Notes
Glob	M 3	CVn	6.3	18.0'	06:16a	10:45p	08:37p	1		
Glob	M 53	Com	7.7	13.0'	06:40a	09:22p	08:26p	2		not visible
Open	M 6	SCO	4.6	20.0'	02:54p	10:06p	08:26p	3		
Open	M 7	SCO	3.3	80.0'	03:25p	10:02p	08:24p	4		
Glob	M 19	Oph	6.8	17.0'	01:41p	10:04p	08:27p	5		
Glob	M 62	Oph	6.4	15.0'	02:01p	09:41p	08:23p	6		
Glob	M 4	SCO	5.4	36.0'	01:03p	09:24p	08:20p	7		not visible
Glob	M 80	SCO	7.3	10.0'	12:38p	09:35p	08:24p	8		
Glob	M 5	Ser	5.7	23.0'	09:52a	10:21p	08:35p	9		
Gal	M 81	UMa	7.8	21.9'x 10.5'	-	-	05:19a	10		
Gal	M 82	UMa	9.3	9.3'x 4.4'	-	-	05:19a	11		
PNe	M 97	UMa	9.7	3.4'	-	-	05:24a	12		
Gal	M 108	UMa	10.7	5.4'x 1.9'	-	-	05:24a	13		
Gal	M 109	UMa	10.5	7.4'x 4.9'	-	-	05:26a	14		
Gal	M 63	CVn	9.3	12.0'x 7.2'	03:43a	12:25a	08:39p	15		
Gal	M 94	CVn	8.7	10.0'x 8.7'	03:33a	11:45p	08:37p	16		
Gal	M 51	CVn	8.7	9.8'x 7.8'	-	-	08:40p	17		
Gal	M 101	UMa	8.4	21.9'x 21.4'	-	-	08:43p	18		
Gal	M 102	Dra	10.7	6.3'x 2.8'	-	-	08:45p	19		
Glob	M 10	Oph	6.6	20.0'	11:54a	11:35p	08:39p	20		
Glob	M 12	Oph	6.1	16.0'	11:36a	11:34p	08:39p	21		
Glob	M 107	Oph	7.8	13.0'	12:09p	10:35p	08:33p	22		
Neb	M 8	Sgr	5	17.0'x 15.0'	02:32p	11:15p	08:35p	23		
Open	M 20	Sgr	5.2	28.0'	02:24p	11:21p	08:36p	24		
Open	M 21	Sgr	7.2	14.0'	02:23p	11:25p	08:36p	25		
Open	M 23	Sgr	5.9	29.0'	01:59p	11:34p	08:37p	26		
Open	M 24	Sgr	11.1	16.0'	02:18p	11:58p	08:39p	27		
Open	M 25	Sgr	6.2	29.0'	02:34p	12:08a	08:40p	28		
Glob	M 54	Sgr	7.7	12.0'	03:57p	11:32p	08:37p	29		
Glob	M 69	Sgr	7.7	9.8'	03:45p	10:57p	08:32p	30		
Glob	M 70	Sgr	7.8	8.0'	03:57p	11:09p	08:33p	31		
Glob	M 9	Oph	7.8	12.0'	01:19p	10:58p	08:35p	32		
Glob	M 14	Oph	7.6	11.0'	12:35p	12:19a	08:41p	33		
Glob	M 22	Sgr	5.2	32.0'	03:02p	11:50p	08:39p	34		
Glob	M 28	Sgr	6.9	13.8'	02:55p	11:33p	08:37p	35		
Glob	M 55	Sgr	6.3	19.0'	04:45p	12:14a	08:45p	36		
Open	M 16	Ser	6.5	6.0'	01:58p	12:18a	08:41p	37		
Open	M 17	Sgr	7.3	25.0'	02:10p	12:10a	08:40p	39		
Open	M 18	Sgr	7.5	5.0'	02:14p	12:05a	08:39p	40		
Open	M 11	Sct	6.1	32.0'	02:00p	01:21a	08:46p	41		
Open	M 26	Sct	9	7.0'	02:07p	01:03a	08:44p	42		
Gal	M 106	CVn	9.1	16.6'x 6.3'	-	-	08:37p	43		
Doub	M 40	UMa	9.6		-	-	08:34p	44		
Glob	M 75	Sgr	8.6	6.8'	04:21p	01:29a	08:58p	45		
Glob	M 13	Her	5.8	20.0'	08:15a	02:43a	08:46p	46		
Glob	M 92	Her	6.5	14.0'	07:21a	04:48a	08:47p	47		
Glob	M 56	Lyr	8.4	8.8'	11:37a	04:30a	08:52p	48		
PNe	M 57	Lyr	9.4	1.4'	10:54a	04:27a	08:50p	49		
Glob	M 71	Sge	8.4	4.0'	01:20p	04:05a	08:58p	50		
PNe	M 27	Vul	7.3	8.0'	01:07p	04:30a	09:00p	51		
Glob	M 2	Aqr	6.6	16.0'	04:21p	04:24a	10:23p	52		

Class	Prim ID	Con	Mag	Size	Rise	Set	Optimum	Penn#	Time Obs.	Notes
Glob	M 72	Aqr	9.2	6.6'	04:27p	02:58a	09:43p	53		
Open	M 73	Aqr	8.9	9.0'	04:33p	03:03a	09:48p	54		
Glob	M 30	Cap	6.9	12.0'	06:01p	02:57a	10:29p	55		
Open	M 29	Cyg	7.5	10.0'	11:35a	06:46a	09:14p	56		
Open	M 39	Cyg	5.3	29.0'	-	-	10:20p	57		
Glob	M 15	Peg	6.3	18.0'	03:25p	05:12a	10:19p	58		
Gal	M 74	Psc	9.7	9.5'x 8.9'	07:16p	09:34a	02:25a	59		
Gal	M 110	And	8.9	17.8'x 9.8'	03:13p	11:44a	01:29a	60		
Gal	M 77	Cet	9.7	6.6'x 5.8'	09:26p	09:35a	03:31a	61		
Gal	M 31	And	4.3	2.6°x 1.1°	03:22p	11:40a	01:31a	62		
Gal	M 32	And	8.9	8.5'x 5.9'	03:28p	11:34a	01:31a	63		
Gal	M 33	Tri	6.4	61.7'x 36.3'	05:54p	10:50a	02:22a	64		
Open	M 52	Cas	8.2	15.0'	-	-	12:13a	65		
Open	M 103	Cas	6.9	5.0'	-	-	02:22a	66		
Open	M 34	Per	5.8	35.0'	04:56p	02:09p	03:30a	67		
PNe	M 76	Per	10.1	2.7'	-	-	02:31a	68		
Glob	M 79	Lep	7.7	9.6'	01:51a	10:32a	05:24a	69		
Neb	M 1	Tau	8.4	8.0'	10:44p	02:04p	05:16a	70		
Open	M 45	Tau	1.5	120.0'	08:46p	12:28p	04:35a	71		
Open	M 36	Aur	6.5	10.0'	09:31p	03:21p	05:15a	72		
Open	M 37	Aur	6.2	14.0'	09:59p	03:25p	05:16a	73		
Open	M 38	Aur	6.8	20.0'	09:09p	03:27p	05:15a	74		
Open	M 50	Mon	7.2	14.0'	02:18a	01:26p	05:27a	75		
Open	M 47	Pup	4.3	25.0'	03:17a	01:34p	05:31a	76		
Open	M 46	Pup	6.6	20.0'	03:23a	01:38p	05:32a	77		
Open	M 41	CMa	5	39.0'	02:54a	12:16p	05:29a	78		
Open	M 93	Pup	6.5	10.0'	04:08a	12:59p	05:39a	79		
Open	M 35	Gem	5.6	25.0'	11:07p	02:50p	05:18a	80		
Neb	M 42	Ori	4	40.0'x 20.0'	12:39a	12:10p	05:20a	81		
Neb	M 43	Ori	9	7.0'x 6.0'	12:39a	12:11p	05:20a	82		
Neb	M 78	Ori	8	8.0'	12:29a	12:43p	05:20a	83		
Open	M 48	Hya	5.5	30.0'	03:19a	02:47p	05:30a	84		
Open	M 44	Cnc	3.9	70.0'	02:01a	04:58p	05:23a	85		
Open	M 67	Cnc	7.4	25.0'	02:47a	04:34p	05:27a	86		
Gal	M 95	Leo	10.6	7.1'x 4.3'	04:40a	06:25p	05:40a	87		not visible
Gal	M 96	Leo	10.1	7.6'x 5.0'	04:42a	06:29p	05:40a	88		not visible
Gal	M 105	Leo	10.2	5.0'x 4.6'	04:40a	06:33p	05:40a	89		very challenging
Gal	M 65	Leo	10.1	8.1'x 2.1'	05:09a	07:06p	05:49a	90		not visible
Gal	M 104	Vir	9.1	19.1'x 5.6'	08:08a	06:49p	-	91		not visible
Gal	M 66	Leo	9.7	8.9'x 4.0'	05:11a	07:07p	05:50a	91		not visible
Gal	M 61	Vir	10.2	6.3'x 5.8'	06:47a	07:34p	-	92		not visible
Gal	M 49	Vir	9.3	9.3'x 7.6'	06:40a	07:56p	-	94		not visible
Gal	M 58	Vir	10.5	5.6'x 4.4'	06:33a	08:19p	-	95		not visible
Gal	M 59	Vir	10.7	4.8'x 3.3'	06:38a	08:23p	-	96		not visible
Gal	M 60	Vir	9.8	7.4'x 6.3'	06:40a	08:24p	-	97		not visible
Gal	M 84	Vir	10.1	6.3'x 5.5'	06:16a	08:11p	-	98		not visible
Gal	M 86	Vir	9.8	10.0'x 7.4'	06:16a	08:13p	-	99		not visible
Gal	M 87	Vir	9.6	7.9'x 7.4'	06:23a	08:15p	-	100		not visible
Gal	M 88	Com	10.2	7.8'x 4.8'	06:16a	08:25p	-	101		not visible
Gal	M 89	Vir	10.7	6.9'x 6.6'	06:28a	08:20p	-	102		not visible
Gal	M 90	Vir	10.1	9.5'x 4.5'	06:26a	08:24p	-	103		not visible
Gal	M 91	Com	10.9	5.4'x 4.6'	06:19a	08:28p	-	104		not visible
Gal	M 98	Com	10.9	9.5'x 2.3'	05:56a	08:09p	-	105		not visible
Gal	M 99	Com	10.4	5.1'x 4.6'	06:03a	08:12p	-	106		not visible
Gal	M 100	Com	10	7.6'x 6.8'	06:01a	08:22p	-	107		not visible
Gal	M 64	Com	9.3	10.0'x 5.0'	06:07a	09:23p	08:24p	108		not visible
Gal	M 85	Com	10	7.6'x 5.9'	05:53a	08:35p	07:58p	110		not visible
									Final Count:	