

2019 Messier Marathon

1	M74	NGC 628	Galaxy	Pisces	Time: _____
			R.A.: 1h 36.6m	Dec.: 15 48	10.5 10.2x9.5
					DSA - 51
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
2	M77	NGC 1068	Galaxy	Cetus	Time: _____
			R.A.: 2h 42.7m	Dec.: 0	10.5 7.0x6.0
					DSA - 62
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
3	M33	NGC 598	Galaxy	Triangulum	Time: _____
			R.A.: 1h 33.9m	Dec.: 30 40	7.0 73.0x45.0
					DSA - 39
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
4	M31	NGC 224	Galaxy	Andromeda	Time: _____
			R.A.: 0h 42.8m	Dec.: 41 16	4.5 178
					DSA - 27
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
5	M32	NGC 221	Galaxy	Andromeda	Time: _____
			R.A.: 0h 42.8m	Dec.: 40 52	10.0 8.0x6.0
					DSA - 27
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
6	M110	NGC 205	Galaxy	Andromeda	Time: _____
			R.A.: 0h 40.4m	Dec.: 41 41	10.0 17.0x10.0
					DSA - 27
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
7	M52	NGC 7654	Open Cluster	Cassiopeia	Time: _____
			R.A.: 23h 24.2m	Dec.: 61 35	8.0 13
					DSA - 8/15
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
8	M103	NGC 581	Open Cluster	Cassiopeia	Time: _____
			R.A.: 1h 33.2m	Dec.: 60 42	7.0 6
					DSA - 15
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
9	M76	NGC 650	Planetary Nebula	Perseus	Time: _____
			R.A.: 1h 42.4m	Dec.: 51 34	12.0 2.7x1.8
					DSA - 15/27
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
10	M34	NGC 1039	Open Cluster	Perseus	Time: _____
			R.A.: 2h 42.0m	Dec.: 42 47	6.0 35
					DSA - 26
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
11	M45	Mel 22	Open Cluster	Taurus	Time: _____
			R.A.: 3h 47.0m	Dec.: 24 06	1.4 110
					DSA - 38
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					

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12	M79	NGC 1904	Globular Cluster	Lepus	Time: _____
			R.A.: 5h 24.5m	Dec.: -24 33	8.5 8.7 DSA - 85
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
13	M42	NGC 1976	Emission Nebula	Orion	Time: _____
			R.A.: 5h 35.3m	Dec.: -5 25	5.0 85.0x60.0 DSA - 61
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
14	M43	NGC 1982	Emission Nebula	Orion	Time: _____
			R.A.: 5h 35.5m	Dec.: -5 16	7.0 20.0x15.0 DSA - 61
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
15	M78	NGC 2068	Bright Nebula	Orion	Time: _____
			R.A.: 5h 46.8m	Dec.: 0 4	8.0 8.0x6.0 DSA - 61
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
16	M1	NGC 1952	Supernova Remnant	Taurus	Time: _____
			R.A.: 5h 34.5m	Dec.: 22 01	8.4 6.0x4.0 DSA - 37/49
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
17	M35	NGC 2168	Open Cluster	Gemini	Time: _____
			R.A.: 6h 8.9m	Dec.: 24 21	5.5 28 DSA - 36
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
18	M38	NGC 1912	Open Cluster	Auriga	Time: _____
			R.A.: 5h 28.7m	Dec.: 35 51	7.0 21 DSA - 37
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
19	M36	NGC 1960	Open Cluster	Auriga	Time: _____
			R.A.: 5h 36.1	Dec.: 34 08	6.5 12 DSA - 37
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
20	M37	NGC 2099	Open Cluster	Auriga	Time: _____
			R.A.: 5h 52.4m	Dec.: 32 33	6.0 24 DSA - 37
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
21	M41	NGC 2287	Open Cluster	Canis Major	Time: _____
			R.A.: 6h 47.0m	Dec.: -20 44	5.0 38 DSA - 72
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
22	M50	NGC 2323	Open Cluster	Monoceros	Time: _____
			R.A.: 7h 3.2m	Dec.: -8 20	7.0 16 DSA - 72/60
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					

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23	M47	NGC 2422	Open Cluster	Puppis	Time: _____
			R.A.: 7h 36.6m	Dec.: -14 30	4.5 30 DSA - 72
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
24	M46	NGC 2437	Open Cluster	Puppis	Time: _____
			R.A.: 7h 41.8m	Dec.: -14 49	6.5 27 DSA - 72
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
25	M93	NGC 2447	Open Cluster	Puppis	Time: _____
			R.A.: 7h 44.6m	Dec.: -23 52	6.5 22 DSA - 84
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
26	M48	NGC 2548	Open Cluster	Hydra	Time: _____
			R.A.: 8h 13.8m	Dec.: -5 48	5.5 54 DSA - 59
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
27	M44	NGC 2632	Open Cluster	Cancer	Time: _____
			R.A.: 8h 40.1m	Dec.: 19 59	4.0 95 DSA - 47
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
28	M67	NGC 2682	Open Cluster	Cancer	Time: _____
			R.A.: 8h 50.4m	Dec.: 11 49	7.5 30 DSA - 47
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
29	M81	NGC 3031	Galaxy	Ursa Major	Time: _____
			R.A.: 9h 55.6m	Dec.: 69 4	8.5 21.0x10.0 DSA - 5/12
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
30	M82	NGC 3034	Galaxy	Ursa Major	Time: _____
			R.A.: 9h 55.9m	Dec.: 69 41	9.5 9.x4.0 DSA - 5/12
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
31	M108	NGC 3556	Galaxy	Ursa Major	Time: _____
			R.A.: 11h 11.6m	Dec.: 55 41	11.0 8.0x1.0 DSA - 12
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
32	M97	NGC 3587	Planetary Nebula	Ursa Major	Time: _____
			R.A.: 11h 14.8m	Dec.: 55 1	12.0 3.4x3.3 DSA - 12
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
33	M109	NGC 3992	Galaxy	Ursa Major	Time: _____
			R.A.: 11h 57.6m	Dec.: 53 23	11.0 7.0x4.0 DSA - 11/12
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					

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34	M106	NGC 4258	Galaxy	Canes Venatici	Time: _____
			R.A.: 12h 18.9m	Dec.: 47 19	9.5
				19.0x8.0	DSA - 22
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
35	M40	WINN4	Double Star	Ursa Major	Time: _____
			R.A.: 12h 20.0m	Dec.: 58 22	9.0
				0.8	DSA - 11
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
36	M95	NGC 3351	Galaxy	Leo	Time: _____
			R.A.: 10h 43.9m	Dec.: 11 42	11.0
				4.4x3.3	DSA - 46
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
37	M96	NGC 3368	Galaxy	Leo	Time: _____
			R.A.: 10h 46.7m	Dec.: 11 49	10.5
				6.0x4.0	DSA - 46
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
38	M105	NGC 3379	Galaxy	Leo	Time: _____
			R.A.: 10h 47.8m	Dec.: 12 35	11.0
				2	DSA - 46
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
39	M65	NGC 3623	Galaxy	Leo	Time: _____
			R.A.: 11h 18.9m	Dec.: 13 6	10.5
				8.0x1.5	DSA - 46
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
40	M66	NGC 3627	Galaxy	Leo	Time: _____
			R.A.: 11h 20.2m	Dec.: 13 0	10.0
				8.0x2.5	DSA - 46
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
41	M101	NGC 5457	Galaxy	Ursa Major	Time: _____
			R.A.: 14h 3.3m	Dec.: 54 22	8.5
				22	DSA - 11
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
42	M51	NGC 5194	Galaxy	Canes Venatici	Time: _____
			R.A.: 13h 30.0m	Dec.: 47 11	8.0
				11.0x7.0	DSA - 21
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
43	M63	NGC 5055	Galaxy	Canes Venatici	Time: _____
			R.A.: 13h 15.8m	Dec.: 42 2	8.5
				10.0x6.0	DSA - 21
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
44	M94	NGC 4736	Galaxy	Canes Venatici	Time: _____
			R.A.: 12h 50.9m	Dec.: 41 8	9.5
				7.0x3.0	DSA - 21
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					

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45	M3	NGC 5272	Globular Cluster	Canes Venatici	Time: _____
			R.A.: 13h 42.2m	Dec.: 28 23	6.4 16.2
			DSA - 33		
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
46	M53	NGC 5024	Globular Cluster	Coma Berenices	Time: _____
			R.A.: 13h 12.9m	Dec.: 18 10	8.5 12.6
			DSA - 45		
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
47	M64	NGC 4826	Galaxy	Coma Berenices	Time: _____
			R.A.: 12h 56.7m	Dec.: 21 41	9.0 9.3x5.4
			DSA - 45		
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
48	M60	NGC 4649	Galaxy	Virgo	Time: _____
			R.A.: 12h 43.7m	Dec.: 11 34	10.5 7.0x6.0
			DSA - 45		
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
49	M59	NGC 4621	Galaxy	Virgo	Time: _____
			R.A.: 12h 42.1m	Dec.: 11 39	11.5 5.0x3.5
			DSA - 45		
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
50	M58	NGC 4579	Galaxy	Virgo	Time: _____
			R.A.: 12h 37.8m	Dec.: 11 50	11.0 5.5x4.5
			DSA - 45		
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
51	M89	NGC 4552	Galaxy	Virgo	Time: _____
			R.A.: 12h 35.7m	Dec.: 12 34	11.5 4
			DSA - 45		
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
52	M90	NGC 4569	Galaxy	Virgo	Time: _____
			R.A.: 12h 36.9m	Dec.: 13 10	11.0 9.5x4.5
			DSA - 45		
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
53	M88	NGC 4501	Galaxy	Coma Berenices	Time: _____
			R.A.: 12h 32.1m	Dec.: 14 26	11.0 7.0x4.0
			DSA - 45		
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
54	M91	NGC 4548	Galaxy	Coma Berenices	Time: _____
			R.A.: 12h 35.5m	Dec.: 14 30	11.5 5.4x4.4
			DSA - 45		
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
55	M87	NGC 4486	Galaxy	Virgo	Time: _____
			R.A.: 12h 30.9m	Dec.: 12 24	11.0 7
			DSA - 45		
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					

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56	M86	NGC 4406	Galaxy	Virgo	Time: _____
			R.A.: 12h 26.3m	Dec.: 12 57	11.0
			7.5x5.5	DSA - 45	
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
57	M84	NGC 4374	Galaxy	Virgo	Time: _____
			R.A.: 12h 25.1m	Dec.: 12 54	11.0
			5		
DSA - 45					
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
58	M100	NGC 4321	Galaxy	Coma Berenices	Time: _____
			R.A.: 12h 23.0m	Dec.: 15 50	10.5
			7.0x6.0		
DSA - 45					
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
59	M85	NGC 4382	Galaxy	Coma Berenices	Time: _____
			R.A.: 12h 25.5m	Dec.: 18 12	10.5
			7.1x5.2		
DSA - 45					
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
60	M98	NGC 4192	Galaxy	Coma Berenices	Time: _____
			R.A.: 12h 13.9m	Dec.: 14 55	11.0
			9.5x3.2		
DSA - 45					
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
61	M99	NGC 4254	Galaxy	Coma Berenices	Time: _____
			R.A.: 12h 18.9m	Dec.: 14 26	10.5
			5.4x4.8		
DSA - 45					
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
62	M49	NGC 4472	Galaxy	Virgo	Time: _____
			R.A.: 12h 29.8m	Dec.: 8 0	10.0
			9.0x7.5		
DSA - 45					
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
63	M61	NGC 4303	Galaxy	Virgo	Time: _____
			R.A.: 12h 22.0m	Dec.: 4 29	10.5
			6.0x5.5		
DSA - 57					
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
64	M104	NGC 4594	Galaxy	Virgo	Time: _____
			R.A.: 12h 39.9m	Dec.: -11 37	9.5
			9.0x4.0		
DSA - 69					
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
65	M68	NGC 4590	Globular Cluster	Hydra	Time: _____
			R.A.: 12h 39.5m	Dec.: -26 45	9.0
			12		
DSA - 81					
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
66	M83	NGC 5236	Galaxy	Hydra	Time: _____
			R.A.: 13h 37.1m	Dec.: -29 52	8.5
			11.0x10.0		
DSA - 81					
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					

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67	M102	NGC 5866	Galaxy	Draco	Time: _____
		R.A.: 15h 6.5m	Dec.: 55 45	10.5	5.2x2.3
DSA - 10					
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
68	M5	NGC 5904	Globular Cluster	Serpens	Time: _____
		R.A.: 15h 18.6m	Dec.: 2 5	5.8	17.4
DSA - 56					
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
69	M13	NGC 6205	Globular Cluster	Hercules	Time: _____
		R.A.: 16h 41.7m	Dec.: 36 28	5.9	16.6
DSA - 31					
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
70	M92	NGC 6341	Globular Cluster	Hercules	Time: _____
		R.A.: 17h 17.1m	Dec.: 43 8	7.5	11.2
DSA - 19					
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
71	M12	NGC 6218	Globular Cluster	Ophiuchus	Time: _____
		R.A.: 16h 47.2m	Dec.: -1 57	6.6	14.5
DSA - 55					
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
72	M10	NGC 6254	Globular Cluster	Ophiuchus	Time: _____
		R.A.: 16h 57.1m	Dec.: -4 6	6.6	15.1
DSA - 55					
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
73	M14	NGC 6402	Globular Cluster	Ophiuchus	Time: _____
		R.A.: 17h 37.6m	Dec.: -3 15	7.6	11.7
DSA - 55					
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
74	M107	NGC 6171	Globular Cluster	Ophiuchus	Time: _____
		R.A.: 16h 32.5m	Dec.: -13 3	10.0	10
DSA - 67					
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
75	M80	NGC 6093	Globular Cluster	Scorpius	Time: _____
		R.A.: 16h 17.0m	Dec.: -22 59	8.5	8.9
DSA - 79					
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
76	M4	NGC 6121	Globular Cluster	Scorpius	Time: _____
		R.A.: 16h 23.6m	Dec.: -26 32	5.9	26.3
DSA - 79					
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
77	M19	NGC 6273	Globular Cluster	Ophiuchus	Time: _____
		R.A.: 17h 2.6m	Dec.: -26 16	8.5	13.5
DSA - 79					
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					

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Conditions: _____
 Telescope: _____

2019 Messier Marathon

78	M62	NGC 6266	Globular Cluster	Ophiuchus	Time: _____													
			R.A.: 17h 1.2m	Dec.: -30 7	8.0 14.1 DSA - 79													
____mm	____x	____Diff	____B	____F	____L	____S	El	EOn	Oval	R	Patch	UB	____Nuc	NND	____HISB	AV	Susp	PFGE
<hr/>																		
79	M6	NGC 6405	Open Cluster	Scorpius	Time: _____													
			R.A.: 17h 40.1m	Dec.: -32 13	4.2 15 DSA - 79													
____mm	____x	____Diff	____B	____F	____L	____S	El	EOn	Oval	R	Patch	UB	____Nuc	NND	____HISB	AV	Susp	PFGE
<hr/>																		
80	M7	NGC 6475	Open Cluster	Scorpius	Time: _____													
			R.A.: 17h 53.9m	Dec.: -34 47	3.3 80 DSA - 79													
____mm	____x	____Diff	____B	____F	____L	____S	El	EOn	Oval	R	Patch	UB	____Nuc	NND	____HISB	AV	Susp	PFGE
<hr/>																		
81	M8	NGC 6523	Cluster W/Nebula	Sagittarius	Time: _____													
			R.A.: 18h 3.1m	Dec.: -24 23	5.0 35.0x50.0 DSA - 78													
____mm	____x	____Diff	____B	____F	____L	____S	El	EOn	Oval	R	Patch	UB	____Nuc	NND	____HISB	AV	Susp	PFGE
<hr/>																		
82	M20	NGC 6514	Cluster W/Nebula	Sagittarius	Time: _____													
			R.A.: 18h 2.3m	Dec.: -22 59	5.0 28 DSA - 78													
____mm	____x	____Diff	____B	____F	____L	____S	El	EOn	Oval	R	Patch	UB	____Nuc	NND	____HISB	AV	Susp	PFGE
<hr/>																		
83	M21	NGC 6531	Open Cluster	Sagittarius	Time: _____													
			R.A.: 18h 4.6m	Dec.: -22 30	7.0 13 DSA - 78													
____mm	____x	____Diff	____B	____F	____L	____S	El	EOn	Oval	R	Patch	UB	____Nuc	NND	____HISB	AV	Susp	PFGE
<hr/>																		
84	M23	NGC 6494	Open Cluster	Sagittarius	Time: _____													
			R.A.: 17h 56.8m	Dec.: -19 1	6.0 27 DSA - 67													
____mm	____x	____Diff	____B	____F	____L	____S	El	EOn	Oval	R	Patch	UB	____Nuc	NND	____HISB	AV	Susp	PFGE
<hr/>																		
85	M9	NGC 6333	Globular Cluster	Ophiuchus	Time: _____													
			R.A.: 17h 19.2m	Dec.: -18 31	7.9 9.3 DSA - 67													
____mm	____x	____Diff	____B	____F	____L	____S	El	EOn	Oval	R	Patch	UB	____Nuc	NND	____HISB	AV	Susp	PFGE
<hr/>																		
86	M24	IC 4715	M.W. Star Cloud	Sagittarius	Time: _____													
			R.A.: 18h 18.4m	Dec.: -18 25	11.5 5 DSA - 66													
____mm	____x	____Diff	____B	____F	____L	____S	El	EOn	Oval	R	Patch	UB	____Nuc	NND	____HISB	AV	Susp	PFGE
<hr/>																		
87	M25	IC 4725	Open Cluster	Sagittarius	Time: _____													
			R.A.: 18h 31.4m	Dec.: -19 17	4.9 40 DSA - 66													
____mm	____x	____Diff	____B	____F	____L	____S	El	EOn	Oval	R	Patch	UB	____Nuc	NND	____HISB	AV	Susp	PFGE
<hr/>																		
88	M18	NGC 6613	Open Cluster	Sagittarius	Time: _____													
			R.A.: 18h 19.9m	Dec.: -17 8	8.0 9 DSA - 66													
____mm	____x	____Diff	____B	____F	____L	____S	El	EOn	Oval	R	Patch	UB	____Nuc	NND	____HISB	AV	Susp	PFGE

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89	M17	NGC 6618	Cluster W/Nebula	Sagittarius	Time: _____
			R.A.: 18h 20.8m	Dec.: -16 11	7.0 11
DSA - 66					
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
90	M16	NGC 6611	Cluster W/Nebula	Serpens	Time: _____
			R.A.: 18h 18.8m	Dec.: -13 47	6.5 7
DSA - 66					
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
91	M11	NGC 6705	Open Cluster	Scutum	Time: _____
			R.A.: 18h 51.1m	Dec.: -6 16	5.8 14
DSA - 54/66					
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
92	M26	NGC 6694	Open Cluster	Scutum	Time: _____
			R.A.: 18h 45.2m	Dec.: -9 24	9.5 15
DSA - 66					
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
93	M22	NGC 6656	Globular Cluster	Sagittarius	Time: _____
			R.A.: 18h 36.4m	Dec.: -23 54	6.5 24
DSA - 78					
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
94	M28	NGC 6626	Globular Cluster	Sagittarius	Time: _____
			R.A.: 18h 24.5m	Dec.: -24 52	8.5 11.2
DSA - 78					
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
95	M69	NGC 6637	Globular Cluster	Sagittarius	Time: _____
			R.A.: 18h 31.4m	Dec.: -32 21	9.0 7.1
DSA - 78					
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
96	M70	NGC 6681	Globular Cluster	Sagittarius	Time: _____
			R.A.: 18h 43.2m	Dec.: -32 18	9.0 7.8
DSA - 78					
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
97	M57	NGC 6720	Planetary Nebula	Lyra	Time: _____
			R.A.: 18h 53.6m	Dec.: 33 2	9.5 1.4x1.0
DSA - 30					
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
98	M56	NGC 6779	Globular Cluster	Lyra	Time: _____
			R.A.: 19h 16.6m	Dec.: 30 11	9.5 7.1
DSA - 30					
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
99	M29	NGC 6913	Open Cluster	Cygnus	Time: _____
			R.A.: 20h 23.9m	Dec.: 38 30	9.0 7
DSA - 17					
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					

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100	M39	NGC 7092	Open Cluster	Cygnus	Time: _____
			R.A.: 21h 32.2m	Dec.: 48 26	5.5 32 DSA - 17
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
101	M71	NGC 6838	Globular Cluster	Sagitta	Time: _____
			R.A.: 19h 53.8m	Dec.: 18 47	8.5 7.2 DSA - 42
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
102	M27	NGC 6853	Planetary Nebula	Vulpecula	Time: _____
			R.A.: 19h 59.6m	Dec.: 22 43	7.5 8.0x5.6 DSA - 29/30
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
103	M54	NGC 6715	Globular Cluster	Sagittarius	Time: _____
			R.A.: 18h 55.1m	Dec.: -30 29	8.5 9.1 DSA - 78
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
104	M55	NGC 6809	Globular Cluster	Sagittarius	Time: _____
			R.A.: 19h 40.0m	Dec.: -30 58	7.0 19 DSA - 78
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
105	M15	NGC 7078	Globular Cluster	Pegasus	Time: _____
			R.A.: 21h 30m	Dec.: 12 10	6.4 12.3 DSA - 41
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
106	M75	NGC 6864	Globular Cluster	Sagittarius	Time: _____
			R.A.: 20h 6.1m	Dec.: -21 55	9.5 6 DSA - 65
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
107	M72	NGC 6981	Globular Cluster	Aquarius	Time: _____
			R.A.: 20h 53.5m	Dec.: -12 32	10.0 5.9 DSA - 65
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
108	M73	NGC 6994	Clump of 4-Stars	Aquarius	Time: _____
			R.A.: 20h 59.0m	Dec.: -12 38	9.0 2.8 DSA - 65
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
109	M2	NGC 7089	Globular Cluster	Aquarius	Time: _____
			R.A.: 21h 33.5m	Dec.: -0 49	6.5 12.9 DSA - 53
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
110	M30	NGC 7099	Globular Cluster	Capricornus	Time: _____
			R.A.: 21h 40.4m	Dec.: -23 11	8.5 11 DSA - 65
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					

2/19/2016

This list is based on a list originally authored by Bruce Scodova. There may be and probably are, similar lists. I have added the NGC/IC designation, object type, constellation, Interstellarum Deep Sky Atlas map number, R.A., Dec, E.P. focal length and magnification.

Date: _____
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Conditions: _____
 Telescope: _____

Messier Marathon Search Order

Order	Obs.	M#	Constellation	Type	R.A.	Dec.	Mag	Size	Sky Atlas
1		M74	Pisces	Galaxy	1h 36.6m	15 48	10.5	10.2x9.5	10
2		M77	Cetus	Galaxy	2h 42.7m	0	10.5	7.0x6.0	10
3		M33	Triangulum	Galaxy	1h 33.9m	30 40	7.0	73.0x45.0	4
4		M31	Andromeda	Galaxy	0h 42.8m	41 16	4.5	178	4
5		M32	Andromeda	Galaxy	0h 42.8m	40 52	10.0	8.0x6.0	4
6		M110	Andromeda	Galaxy	0h 40.4m	41 41	10.0	17.0x10.0	4
7		M52	Cassiopea	O.C.	23h 24.2m	61 35	8.0	13	3
8		M103	Cassiopeia	O.C.	1h 33.2m	60 42	7.0	6	1
9		M76	Perseus	P.N.	1h 42.4m	51 34	12.0	2.7x1.8	1, 4
10		M34	Perseus	O.C.	2h 42.0m	42 47	6.0	35	1,4
11		M45	Taurus	O.C.	3h 47.0m	24 07	1.4	110	4
12		M79	Lepus	G.C.	5h 24.5m	-24 33	8.5	8.7	19
13		M42	Orion	D.N.	5h 35.3m	-5 23	5.0	85.0x60.0	11
14		M43	Orion	D.N.	5h 35.5m	-5 16	7.0	20.0x15.0	11
15		M78	Orion	D.N.	5h 46.8m	0 4	8.0	8.0x6.0	11
16		M1	Taurus	S.R.	5h 34.5m	22 01	8.4	6.0x4.0	5
17		M35	Gemini	O.C.	6h 8.9m	24 20	5.5	28	5
18		M37	Auriga	O.C.	5h 52.4m	32 33	6.0	24	5
19		M36	Auriga	O.C.	5h 36.1	34 08	6.5	12	5
20		M38	Auriga	O.C.	5h 28.7m	35 50	7.0	21	5
21		M41	Canis Major	O.C.	6h 47.0m	-20 44	5.0	38	19
22		M50	Monocerus	O.C.	7h 3.2m	-8 20	7.0	16	12
23		M47	Puppis	O.C.	7h 36.6m	-14 30	4.5	30	12
24		M46	Puppis	O.C.	7h 41.8m	-14 49	6.5	27	12
25		M93	Puppis	O.C.	7h 44.6m	-23 52	6.5	22	19
26		M48	Hydra	O.C.	8h 13.8m	-5 48	5.5	54	12
27		M44	Cancer	O.C.	8h 40.1m	19 59	4.0	95	6
28		M67	Cancer	O.C.	8h 50.4m	11 49	7.5	30	12
29		M81	Ursa Major	Galaxy	9h 55.6m	69 4	8.5	21.0x10.0	2
30		M82	Ursa Major	Galaxy	9h 55.9m	69 41	9.5	9.x4.0	2
31		M108	Ursa Major	Galaxy	11h 11.6m	55 41	11.0	8.0x1.0	2
32		M97	Ursa Major	P.N.	11h 14.8m	55 1	12.0	3.4x3.3	2
33		M109	Ursa Major	Galaxy	11h 57.6m	53 23	11.0	7.0x4.0	2
34		M106	Canes Venatici	Galaxy	12h 18.9m	47 19	9.5	19.0x8.0	2, 7
35		M40	Ursa Major	D.S.	12h 20.0m	58 22	9.0	0.8	2
36		M95	Leo	Galaxy	10h 43.9m	11 42	11.0	4.4x3.3	13
37		M96	Leo	Galaxy	10h 46.7m	11 49	10.5	6.0x4.0	13
38		M105	Leo	Galaxy	10h 47.8m	12 35	11.0	2	13
39		M65	Leo	Galaxy	11h 18.9m	13 6	10.5	8.0x1.5	13
40		M66	Leo	Galaxy	11h 20.2m	13 0	10.0	8.0x2.5	13
41		M101	Ursa Major	Galaxy	14h 3.3m	54 22	8.5	22	2, 7
42		M51	Canes Venatici	Galaxy	13h 30.0m	47 11	8.0	11.0x7.0	7
43		M63	Canes Venatici	Galaxy	13h 15.8m	42 2	8.5	10.0x6.0	7
44		M94	Canes Venatici	Galaxy	12h 50.9m	41 8	9.5	7.0x3.0	7
45		M3	Canes Venatici	G.C.	13h 42.2m	28 23	6.4	16.2	7
46		M53	Coma Berenices	G.C.	13h 12.9m	18 10	8.5	12.6	7
47		M64	Coma Berenices	Galaxy	12h 56.7m	21 41	9.0	9.3x5.4	7
48		M60	Virgo	Galaxy	12h 43.7m	11 34	10.5	7.0x6.0	13, 14
49		M59	Virgo	Galaxy	12h 42.1m	11 39	11.5	5.0x3.5	13, 14
50		M58	Virgo	Galaxy	12h 37.8m	11 50	11.0	5.5x4.5	13, 14
51		M89	Virgo	Galaxy	12h 35.7m	12 34	11.5	4	13, 14
52		M90	Virgo	Galaxy	12h 36.9m	13 10	11.0	9.5x4.5	13, 14
53		M88	Coma Berenices	Galaxy	12h 32.1m	14 26	11.0	7.0x4.0	13, 14
54		M91	Coma Berenices	Galaxy	12h 35.5m	14 30	11.5	5.4x4.4	13, 14
55		M87	Virgo	Galaxy	12h 30.9m	12 24	11.0	7	13, 14
56		M86	Virgo	Galaxy	12h 26.3m	12 57	11.0	7.5x5.5	13, 14
57		M84	Virgo	Galaxy	12h 25.1m	12 54	11.0	5	13, 14

Messier Marathon Search Order

Order	Obs.	M#	Constellation	Type	R.A.	Dec.	Mag	Size	Sky Atlas
58		M100	Coma Berenices	Galaxy	12h 23.0m	15 50	10.5	7.0x6.0	7
59		M85	Coma Berenices	Galaxy	12h 25.5m	18 12	10.5	7.1x5.2	7
60		M98	Coma Berenices	Galaxy	12h 13.9m	14 55	11.0	9.5x3.2	7
61		M99	Coma Berenices	Galaxy	12h 18.9m	14 26	10.5	5.4x4.8	7
62		M49	Virgo	Galaxy	12h 29.8m	8 1	10.0	9.0x7.5	13, 14
63		M61	Virgo	Galaxy	12h 22.0m	4 29	10.5	6.0x5.5	13, 14
64		M104	Virgo	Galaxy	12h 39.9m	-11 37	9.5	9.0x4.0	13, 14
65		M68	Hydra	G.C.	12h 39.5m	-26 45	9.0	12	21
66		M83	Hydra	Galaxy	13h 37.1m	-29 52	8.5	11.0x10.0	21
67		M102	Draco	Galaxy	15h 6.5m	55 45	10.5	5.2x2.3	2
68		M5	Serpens Caput	G.C.	15h 18.6m	2 5	5.8	17.4	15
69		M13	Hercules	G.C.	16h 41.7m	36 28	5.9	16.6	8
70		M92	Hercules	G.C.	17h 17.1m	43 8	7.5	11.2	8
71		M12	Ophiucus	G.C.	16h 47.2m	-1 57	6.6	14.5	15
72		M10	Ophiucus	G.C.	16h 57.1m	-4 6	6.6	15.1	15
73		M14	Ophiucus	G.C.	17h 37.6m	-3 15	7.6	11.7	15
74		M107	Ophiucus	G.C.	16h 32.5m	-13 3	10.0	10	15
75		M80	Scorpius	G.C.	16h 17.0m	-22 59	8.5	8.9	22
76		M4	Scorpius	G.C.	16h 23.6m	-26 32	5.9	26.3	22
77		M19	Ophiucus	G.C.	17h 2.6m	-26 16	8.5	13.5	22
78		M62	Ophiucus	G.C.	17h 1.2m	-30 7	8.0	14.1	22
79		M6	Scorpius	O.C.	17h 40.1m	-32 13	4.2	15	22
80		M7	Scorpius	O.C.	17h 53.9m	-34 49	3.3	80	22
81		M8	Sagittarius	D.N.	18h 3.1m	-24 23	5.0	35.0x50.0	22
82		M20	Sagittarius	D.N.	18h 2.3m	-23 2	5.0	28	22
83		M21	Sagittarius	O.C.	18h 4.6m	-22 30	7.0	13	22
84		M23	Sagittarius	O.C.	17h 56.8m	-19 1	6.0	27	15, 22
85		M9	Ophiucus	G.C.	17h 19.2m	-18 31	7.9	9.3	15
86		M24	Sagittarius	S.C.	18h 18.4m	-18 25	11.5	5	22
87		M25	Sagittarius	O.C.	18h 28.8m	-19 17	4.9	40	22
88		M18	Sagittarius	O.C.	18h 19.9m	-17 8	8.0	9	15, 22
89		M17	Sagittarius	D.N.	18h 20.8m	-16 11	7.0	11	15, 16
90		M16	Serpens Claudia	O.C.	18h 18.8m	-13 47	6.5	7	15, 16
91		M11	Scutum	O.C.	18h 51.1m	-6 16	5.8	14	15, 16
92		M26	Scutum	O.C.	18h 45.2m	-9 24	9.5	15	16
93		M22	Sagittarius	G.C.	18h 36.4m	-29 54	6.5	24	22
94		M28	Sagittarius	G.C.	18h 24.5m	-24 52	8.5	11.2	22
95		M69	Sagittarius	G.C.	18h 34.4m	-32 21	9.0	7.1	22
96		M70	Sagittarius	G.C.	18h 43.2m	-32 18	9.0	7.8	22
97		M57	Lyra	P.N.	18h 53.6m	33 2	9.5	1.4x1.0	8
98		M56	Lyra	G.C.	19h 16.6m	30 11	9.5	7.1	8
99		M29	Cygnus	O.C.	20h 23.9m	38 32	9.0	7	9
100		M39	Cygnus	O.C.	21h 32.2m	48 26	5.5	32	9
101		M71	Sagitta	G.C.	19h 53.8m	18 47	8.5	7.2	8
102		M27	Vulpecula	P.N.	19h 59.6m	22 43	7.5	8.0x5.6	8
103		M54	Sagittarius	G.C.	18h 55.1m	-30 29	8.5	9.1	22
104		M55	Sagittarius	G.C.	19h 40.0m	-30 58	7.0	19	22
105		M15	Pegasus	G.C.	21h 30m	12 10	6.4	12.3	16
106		M75	Sagittarius	G.C.	20h 6.1m	-21 55	9.5	6	22, 23
107		M72	Aquarius	G.C.	20h 53.5m	-12 32	10.0	5.9	16
108		M73	Aquarius	Asterism	20h 59.0m	-12 3	9.0	2.8	16
109		M2	Aquarius	G.C.	21h 33.5m	-0 49	6.5	12.9	16, 17
110		M30	Capricornus	G.C.	21h 40.4m	-23 11	8.5	11	23

Messier Marathon Timing Chart							Module #1 - 15 Objects - 7:00 PM to 8:00 PM								
Name: _____ Date Viewed: _____ Location: _____ Telescope: _____ Conditions: _____							√	M#	Type	S.A. 2000	√	M#	Type	S.A. 2000	
							—	M 74	GX	10	—	M 76	PN	11	
							—	M 77	GX	10	—	M 34	OC	4	
							—	M 33	GX	4	—	M 45	OC	4	
							—	M 31	GX	4	—	M 79	GC	19	
							—	M 32	GX	4	—	M 42	EN	11	
							—	M 110	GX	4	—	M 43	EN	11	
							—	M 52	OC	3	—	M 78	BN	11	
							—	M 103	OC	1	15 Objects				
Module #2 - 29 Objects - 8:00 PM to 10:00 PM							Module #3 - 26 Objects - 10:15 PM to 1:00 AM								
√	M#	Type	S.A. 2000	√	M#	Type	S.A. 2000	√	M#	Type	S.A. 2000	√	M#	Type	S.A. 2000
—	M 1	SR	5	—	M 108	GX	2	—	M 51	GX	7	—	M 100	GC	7
—	M 35	OC	5	—	M 97	PN	2	—	M 63	GX	7	—	M 85	GC	7
—	M 37	OC	5	—	M 109	GX	2	—	M 94	GX	7	—	M 98	GC	7
—	M 36	OC	5	—	M 40	DS	2	—	M 60	GX	13	—	M 99	GC	7
—	M 38	OC	5	—	M 101	GX	2	—	M 59	GX	13	—	M 49	GC	13
—	M 41	OC	19	—	M 106	GX	2	—	M 58	GX	13	—	M 61	GC	13
—	M 50	OC	12	—	M 65	GX	13	—	M 89	GX	13	—	M 104	GC	14
—	M 47	OC	12	—	M 66	GX	13	—	M 90	GX	13	—	M 68	GC	21
—	M 46	OC	12	—	M 95	GX	13	—	M 88	GX	14	—	M 83	GX	21
—	M 93	OC	19	—	M 96	GX	13	—	M 91	GX	14	—	M 102	GX	2
—	M 48	OC	12	—	M 105	GX	13	—	M 87	GX	13	—	M 5	GC	15
—	M 44	OC	12	—	M 3	GC	7	—	M 86	GX	13	—	M 13	GC	8
—	M 67	OC	12	—	M 53	GC	7	—	M 84	GX	13	—	M 92	GC	8
—	M 81	GX	2	—	M 64	GX	7	26 Objects							
—	M 82	GX	2	29 Objects			26 Objects								
Module #4 - 26 Objects - 1:30 AM TO 4:00 AM							Module #5 - 14 Objects - 4:00 AM TO DAWN								
√	M#	Type	S.A. 2000	√	M#	Type	S.A. 2000	√	M#	Type	S.A. 2000	√	M#	Type	S.A. 2000
—	M 12	GC	15	—	M 23	OC	15	—	M 57	PN	8	—	M 55	GC	22
—	M 10	GC	15	—	M 9	GC	15	—	M 56	GC	8	—	M 15	GC	16
—	M 14	GC	15	—	M 24	SC	15	—	M 29	OC	9	—	M 75	GC	23
—	M 107	GC	15	—	M 25	OC	15	—	M 39	OC	9	—	M 72	GC	16
—	M 80	GC	22	—	M 18	OC	15	—	M 71	GC	8	—	M 73	AST	16
—	M 4	GC	22	—	M 17	OC	15	—	M 27	PN	9	—	M 2	GC	16
—	M 19	GC	22	—	M 16	OC	16	—	M 54	GC	22	—	M 30	GC	23
—	M 62	GC	22	—	M 11	OC	16	26 Objects							
—	M 6	OC	22	—	M 26	OC	16	14 Objects							
—	M 7	OC	22	—	M 28	GC	22	14 Objects							
—	M 8	OC	22	—	M 69	GC	22	14 Objects							
—	M 20	OC	22	—	M 70	GC	22	14 Objects							
—	M 21	OC	22	—	M 22	GC	22	14 Objects							