

Maratón Messier. Secuencia de búsqueda (objetos listados en el orden más efectivo de búsqueda)

Nº N°A M# NGC# Con Tipo RA dec magn dim dist dif

Fase 1. Los objetos del anochecer (19:45 a 20:30 -horario oficial de invierno en España)

1.	12	M77	1068	Cet	GS	02 42.7	-00 01	8.9	7x6	60000	D
2.	13	M74	628	Psc	GS	01 36.7	+15 47	9.4	10.2x9.5	35000	D
3.	7	M33	598	Tri	GS	01 33.9	+30 39	5.7	73x45	3000	D
4.	4	M31	224	And	GS	00 42.7	+41 16	3.4	178x63	2900	F
5.	5	M32	221	And	GE	00 42.7	+40 52	8.1	8x6	2900	D
6.	6	M110	205	And	GE	00 40.4	+41 41	8.5	17x10	2900	D
7.	8	M52	7654	Cas	CA	23 24.2	+61 35	7.3	13.0	5.0	M
8.	9	M103	581	Cas	CA	01 33.2	+60 42	7.4	6.0	8.5	M
9.	10	M76	650	Per	NP	01 42.4	+51 34	10.1	2.7x1.8	3.4	M
10.	11	M34	1039	Per	CA	02 42.0	+42 47	5.5	35.0	1.4	F
11.	1	M45	-	Tau	CA	03 47.0	+24 07	1.6	110.0	0.38	F
12.	14	M79	1904	Lep	CG	05 24.5	-24 33	7.7	8.7	42.1	M
13.	2	M42	1976	Ori	ND	05 35.4	-05 27	4.0	85x60	1.6	F
14.	3	M43	1982	Ori	ND	05 35.6	-05 16	9.0	20x15	1.6	F

Fase 2. Objetos de invierno (20:30 a 21:30)

15.	15	M78	2068	Ori	ND	05 46.7	+00 03	8.3	8x6	1.6	M
16.	16	M1	1952	Tau	RS	05 34.5	+22 01	8.4	6x4	6.3	D
17.	17	M35	2168	Gem	CA	06 08.9	+24 20	5.3	28.0	2.8	F
18.	20	M37	2099	Aur	CA	05 52.4	+32 33	6.2	24.0	4.4	M
19.	19	M36	1960	Aur	CA	05 36.1	+34 08	6.3	12.0	4.1	M
20.	18	M38	1912	Aur	CA	05 28.4	+35 50	7.4	21.0	4.2	M
21.	21	M41	2287	CMa	CA	06 46.0	-20 44	4.6	38.0	2.3	F
22.	22	M93	2447	Pup	CA	07 44.6	-23 52	6.0	22.0	3.6	M
23.	23	M47	2422	Pup	CA	07 36.6	-14 30	5.2	30.0	1.6	M

24. 24 M46 2437 Pup CA 07 41.8 -14 49 6.0 27.0 5.4 M
 25. 25 M50 2323 Mon CA 07 03.2 -08 20 6.3 16.0 3 M
 26. 26 M48 2548 Hya CA 08 13.8 -05 48 5.5 54.0 1.5 M
 27. 27 M44 2632 Cnc CA 08 40.1 +19 59 3.7 95.0 0.577 F
 28. 28 M67 2682 Cnc CA 08 50.4 +11 49 6.1 30.0 2.7 M

Fase 3. Objetos de primavera (21:30 a 23:00)

29. 29 M95 3351 Leo GS 10 44.0 +11 42 9.7 4.4x3.3 38000 D
 30. 30 M96 3368 Leo GS 10 46.8 +11 49 9.2 6x4 38000 D
 31. 31 M105 3379 Leo GE 10 47.8 +12 35 9.3 2.0 38000 D
 32. 32 M65 3623 Leo GS 11 18.9 +13 05 9.3 8x1.5 35000 D
 33. 33 M66 3627 Leo GS 11 20.2 +12 59 8.9 8x2.5 35000 D
 34. 34 M81 3031 UMa GS 09 55.6 +69 04 6.9 21x10 12000 M
 35. 35 M82 3034 UMa GI 09 55.8 +69 41 8.4 9x4 12000 M
 36. 37 M97 3587 UMa NP 11 14.8 +55 01 9.9 3.4x3.3 2.6 D
 37. 36 M108 3556 UMa GS 11 11.5 +55 40 10.0 8x1 45000 D
 38. 38 M109 3992 UMa GS 11 57.6 +53 23 9.8 7x4 55000 D
 39. 39 M40 Win4 UMa 2E 12 22.4 +58 05 8.4 0.8 0.51 D
 40. 40 M106 4258 CVn GS 12 19.0 +47 18 8.4 19x8 25000 M
 41. 41 M94 4736 CVn GS 12 50.9 +41 07 8.2 7x3 14500 M
 42. 42 M63 5055 CVn GS 13 15.8 +42 02 8.6 10x6 37000 M
 43. 43 M51 5194 CVn GS 13 29.9 +47 12 8.4 11x7 37000 M
 44. 44 M101 5457 UMa GS 14 03.2 +54 21 7.9 22.0 27000 M
 45. 45 M102? 5866 Dra GL 15 06.5 +55 46 9.9 5.2x2.3 40000 D
 46. 46 M53 5024 Com CG 13 12.9 +18 10 7.6 12.6 59.7 M
 47. 47 M64 4826 Com GS 12 56.7 +21 41 8.5 9.3x5.4 19000 M
 48. 48 M3 5272 CVn CG 13 42.2 +28 23 6.2 16.2 33.9 M
 49. 66 M68 4590 Hya CG 12 39.5 -26 45 7.8 12.0 33.3 D

50. 67 M83 5236 Hya GS 13 37.0 -29 52 7.6 11x10 15000 D

Fase 4. El cúmulo de Virgo (23:00 a 00:00)

51. 49 M98 4192 Com GS 12 13.8 +14 54 10.1 9.5x3.2 60000 M

52. 50 M99 4254 Com GS 12 18.8 +14 25 9.9 5.4x4.8 60000 M

53. 51 M100 4321 Com GS 12 22.9 +15 49 9.3 7x6 60000 M

54. 52 M85 4382 Com GL 12 25.4 +18 11 9.1 7.1x5.2 60000 M

55. 53 M84 4374 Vir GL 12 25.1 +12 53 9.1 5.0 60000 M

56. 54 M86 4406 Vir GL 12 26.2 +12 57 8.9 7.5x5.5 60000 M

57. 55 M87 4486 Vir GE 12 30.8 +12 24 8.6 7.0 60000 M

58. 56 M89 4552 Vir GE 12 35.7 +12 33 9.8 4.0 60000 D

59. 57 M90 4569 Vir GS 12 36.8 +13 10 9.5 9.5x4.5 60000 D

60. 58 M88 4501 Com GS 12 32.0 +14 25 9.6 7x4 60000 D

61. 59 M91 4548 Com GS 12 35.4 +14 30 10.2 5.4x4.4 60000 D

62. 60 M58 4579 Vir GS 12 37.7 +11 49 9.7 5.5x4.5 60000 M

63. 61 M59 4621 Vir GE 12 42.0 +11 39 9.6 5x3.5 60000 M

64. 62 M60 4649 Vir GE 12 43.7 +11 33 8.8 7x6 60000 M

65. 63 M49 4472 Vir GE 12 29.8 +08 00 8.4 9x7.5 60000 M

66. 64 M61 4303 Vir GS 12 21.9 +04 28 9.7 6x5.5 60000 M

67. 65 M104 4594 Vir GS 12 40.0 -11 37 8.0 9x4 50000 M

Fase 5. Tiempo libre (00:00 a 2:30)

Fase 6. Objetos de verano (2:30 a 4:30)

68. 68 M5 5904 Ser CG 15 18.6 +02 05 5.6 17.4 24.5 M

69. 69 M13 6205 Her CG 16 41.7 +36 28 5.8 16.6 25.1 F

70. 70 M92 6341 Her CG 17 17.1 +43 08 6.4 11.2 26.7 M

71. 71 M57 6720 Lyr NP 18 53.6 +33 02 8.8 1.4x1.0 2.3 M

72. 72 M56 6779 Lyr CG 19 16.6 +30 11 8.3 7.1 32.9 D

73. 73 M29 6913 Cyg CA 20 23.9 +38 32 7.1 7.0 4.0 M

74.	82	M39	7092	Cyg	CA	21	32.2	+48	26	4.6	32.0	0.825	M
75.	83	M27	6853	Vul	NP	19	59.6	+22	43	7.4	8.0x5.7	1.25	F
76.	84	M71	6838	Sge	CG	19	53.8	+18	47	8.2	7.2	12.7	M
77.	76	M107	6171	Oph	CG	16	32.5	-13	03	7.9	10.0	20.9	M
78.	77	M12	6218	Oph	CG	16	47.2	-01	57	6.7	14.5	16.0	M
79.	78	M10	6254	Oph	CG	16	57.1	-04	06	6.6	15.1	14.4	M
80.	79	M14	6402	Oph	CG	17	37.6	-03	15	7.6	11.7	29.0	M
81.	81	M9	6333	Oph	CG	17	19.2	-18	31	7.7	9.3	26.7	M
82.	74	M4	6121	Sco	CG	16	23.6	-26	32	5.6	26.3	7.2	F
83.	75	M80	6093	Sco	CG	16	17.0	-22	59	7.3	8.9	32.6	M
84.	80	M19	6273	Oph	CG	17	02.6	-26	16	6.8	13.5	28.4	M
85.	85	M62	6266	Oph	CG	17	01.2	-30	07	6.5	14.1	22.5	M
86.	86	M6	6405	Sco	CA	17	40.1	-32	13	5.3	25.0	2	M
87.	87	M7	6475	Sco	CA	17	53.9	-34	49	4.1	80.0	0.8	F
88.	89	M11	6705	Sct	CA	18	51.1	-06	16	6.3	14.0	6	F
89.	100	M26	6694	Sct	CA	18	45.2	-09	24	8.0	15.0	5	D
90.	96	M16	6611	Ser	CA	18	18.8	-13	47	6.4	7.0	7	F
91.	95	M17	6618	Sgr	ND	18	20.8	-16	11	7.0	11.0	5	F
92.	93	M18	6613	Sgr	CA	18	19.9	-17	08	7.5	9.0	4.9	F
93.	92	M24	>6603	Sgr	CA	18	16.9	-18	29	4.6	90	10	F
94.	94	M25	I4725	Sgr	CA	18	31.6	-19	15	6.5	40.0	2	F
95.	91	M23	6494	Sgr	CA	17	56.8	-19	01	6.9	27.0	2.15	F
96.	90	M21	6531	Sgr	CA	18	04.6	-22	30	6.5	13.0	4.25	F
97.	99	M20	6514	Sgr	ND	18	02.6	-23	02	9.0	28.0	5.2	F
98.	88	M8	6523	Sgr	ND	18	03.8	-24	23	6.0	90x40	5.2	F
99.	98	M28	6626	Sgr	CG	18	24.5	-24	52	6.8	11.2	18.6	F
100.	97	M22	6656	Sgr	CG	18	36.4	-23	54	5.1	24.0	10.4	F

101.	101	M69	6637	Sgr	CG	18	31.4	-32	21	7.6	7.1	28.0	D
102.	102	M70	6681	Sgr	CG	18	43.2	-32	18	7.9	7.8	29.4	D
103.	103	M54	6715	Sgr	CG	18	55.1	-30	29	7.6	9.1	88.7	D
104.	109	M55	6809	Sgr	CG	19	40.0	-30	58	6.3	19.0	17.6	D
105.	108	M75	6864	Sgr	CG	20	06.1	-21	55	8.5	6.0	61.3	D

Fase 7. Objetos matutinos (4:30 a la salida del Sol)

106.	104	M15	7078	Peg	CG	21	30.0	+12	10	6.2	12.3	33.6	D
107.	105	M2	7089	Aqr	CG	21	33.5	-00	49	6.5	12.9	37.9	D
108.	106	M72	6981	Aqr	CG	20	53.5	-12	32	9.3	5.9	55.4	D
109.	107	M73	6994	Aqr	4E	20	58.9	-12	38	9.0	2.8	2.0	D
110.	110	M30	7099	Cap	CG	21	40.4	-23	11	7.2	11.0	26.1	D

NºA: número alternativo en la secuencia de búsqueda; dim: dimensión angular aparente en minutos de arco;

dist: distancia en miles de años luz; dif: grado de dificultad (F)ácil, (M)edia, (D)ifícil.

CA=Cúmulo Abierto, CG= Cúmulo Globular, NP= Nebulosa Planetaria, ND= Nebulosa Difusa, GS= Galaxia eSpiral, GE= Galaxia Elíptica, GL= Galaxia Lenticular (S0), GI= Galaxia Irregular, RS=Restos de Supernova, 2E=Estrella Doble, 4E=grupo de 4 estrellas