

BINOCULAR MESSIER LIST - DATA

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d: distance in kilo-light-years

| M# | NGC# | Con | type | RA | | Dec | | B | D | d | Binoculars | | | | | | Seen (✓) | | Best Viewing Season | | | |
|-----|-------|-----|------|----|------|-----|-----|-----|-------|------|------------|-------------|----------------|---------|-------------|----------------|---|--|---------------------|--------|--------|------|
| | | | | hr | min | deg | min | | | | I. EASY | II. TOUGHER | III. CHALLENGE | I. EASY | II. TOUGHER | III. CHALLENGE | | | Winter | Spring | Summer | Fall |
| M1 | 1952 | Tau | 9 | 5 | 34.5 | +22 | 1 | 8.4 | 6x4 | 6.3 | | | | | | | !! Crab Nebula supernova remnant° | | | | | |
| M2 | 7089 | Aqr | 2 | 21 | 33.5 | -0 | 49 | 6.5 | 12.9 | 36.2 | | | | | | | visible but need telescope to clearly resolve | | | | | |
| M3 | 5272 | CVn | 2 | 13 | 42.2 | +28 | 23 | 6.2 | 16.2 | 30.6 | | | | | | | !! contains many variable stars | | | | | |
| M4 | 6121 | Sco | 2 | 16 | 23.6 | -26 | 32 | 5.6 | 26.3 | 6.8 | | | | | | | bright globular near Antares | | | | | |
| M5 | 5904 | Ser | 2 | 15 | 18.6 | +2 | 5 | 5.6 | 17.4 | 22.8 | | | | | | | !! one of the finest globulars | | | | | |
| M6 | 6405 | Sco | 1 | 17 | 40.1 | -32 | 13 | 5.3 | 25 | 2 | | | | | | | !! Butterfly Cluster | | | | | |
| M7 | 6475 | Sco | 1 | 17 | 53.9 | -34 | 49 | 4.1 | 80 | 0.8 | | | | | | | !! excellent in binoculars | | | | | |
| M8 | 6523 | Sgr | 4 | 18 | 3.8 | -24 | 23 | 6 | 90x40 | 5.2 | | | | | | | !! Lagoon Nebula with open cluster NGC 6530 | | | | | |
| M9 | 6333 | Oph | 2 | 17 | 19.2 | -18 | 31 | 7.7 | 9.3 | 26.4 | | | | | | | smallest of Ophiuchus globulars | | | | | |
| M10 | 6254 | Oph | 2 | 16 | 57.1 | -4 | 6 | 6.6 | 15.1 | 13.4 | | | | | | | rich cluster; M12 3° NW | | | | | |
| M11 | 6705 | Sct | 1 | 18 | 51.1 | -6 | 16 | 6.3 | 14 | 6 | | | | | | | !! Wild Duck Cluster; perhaps the best open cl. | | | | | |
| M12 | 6218 | Oph | 2 | 16 | 47.2 | -1 | 57 | 6.7 | 14.5 | 17.6 | | | | | | | loose globular cluster | | | | | |
| M13 | 6205 | Her | 2 | 16 | 41.7 | +36 | 28 | 5.8 | 16.6 | 22.8 | | | | | | | !! Hercules Cluster! | | | | | |
| M14 | 6402 | Oph | 2 | 17 | 37.6 | -3 | 15 | 7.6 | 11.7 | 27.4 | | | | | | | | | | | | |
| M15 | 7078 | Peg | 2 | 21 | 30 | +12 | 10 | 6.2 | 12.3 | 32.6 | | | | | | | rich compact globular | | | | | |
| M16 | 6611 | Ser | 1 | 18 | 18.8 | -13 | 47 | 6.4 | 7 | 7 | | | | | | | Eagle Nebula with open cluster | | | | | |
| M17 | 6618 | Sgr | 4 | 18 | 20.8 | -16 | 11 | 7 | 11 | 5 | | | | | | | !! Swan or Omega Nebula! | | | | | |
| M18 | 6613 | Sgr | 1 | 18 | 19.9 | -17 | 8 | 7.5 | 9 | 4.9 | | | | | | | sparse cluster; 1° S of M17 | | | | | |
| M19 | 6273 | Oph | 2 | 17 | 2.6 | -26 | 16 | 6.8 | 13.5 | 27.1 | | | | | | | oblate globular; M62 4° South | | | | | |
| M20 | 6514 | Sgr | 4 | 18 | 2.6 | -23 | 2 | 9 | 28 | 5.2 | | | | | | | !! Trifid Nebula: emission & reflection nebula | | | | | |
| M21 | 6531 | Sgr | 1 | 18 | 4.6 | -22 | 30 | 6.5 | 13 | 4.25 | | | | | | | | | | | | |
| M22 | 6656 | Sgr | 2 | 18 | 36.4 | -23 | 54 | 5.1 | 24 | 10.1 | | | | | | | globular | | | | | |
| M23 | 6494 | Sgr | 1 | 17 | 56.8 | -19 | 1 | 6.9 | 27 | 2.15 | | | | | | | bright, loose cluster | | | | | |
| M24 | >6603 | Sgr | B | 18 | 16.9 | -18 | 29 | 4.6 | 90 | 10 | | | | | | | rich star cloud; contains open cl. NGC 6603 | | | | | |

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| M# | NGC# | Con | type | RA | | Dec | | B | D | d | Binoculars | | | | | | Seen (✓) | Description | Best Viewing Season | | | | |
|-----|-------|-----|------|----|------|-----|-----|-----|---------|-------|------------|-------------|----------------|---------|-------------|----------------|-------------|-------------|--|--------|--------|------|---|
| | | | | hr | min | deg | min | | | | I. EASY | II. TOUGHER | III. CHALLENGE | I. EASY | II. TOUGHER | III. CHALLENGE | | | Winter | Spring | Summer | Fall | |
| | | | | | | | | | | | | | | | | | | | | | | | 20mm to 50mm (ex.7x35, 7x50, 10x50) |
| M25 | 14725 | Sgr | 1 | 18 | 31.6 | -19 | 15 | 6.5 | 40 | 2 | /// | | | | | | | | bright but sparse cluster | | | /// | |
| M26 | 6694 | Sct | 1 | 18 | 45.2 | -9 | 24 | 8 | 15 | 5 | | | /// | /// | | | | | bright, coarse cluster | | | /// | |
| M27 | 6853 | Vul | 3 | 19 | 56.9 | +22 | 43 | 7.4 | 8.0x5.7 | 1.25 | /// | | | | | | | | !! Dumbell Nebula ! ; superb object | | | /// | |
| M28 | 6626 | Sgr | 2 | 18 | 24.5 | -24 | 52 | 6.8 | 11.2 | 17.9 | | /// | | | | | | | compact globular near M22 | | | /// | |
| M29 | 6913 | Cyg | 1 | 20 | 23.9 | +38 | 32 | 7.1 | 7 | 4 | | /// | | | | | | | small, poor open cluster 2° S of ??gamma-Cygni | | | /// | |
| M30 | 7099 | Cap | 2 | 21 | 40.4 | -23 | 11 | 7.2 | 11 | 24.8 | | /// | /// | | | | | | toughest object in one-night Messier marathon | | | | /// |
| M31 | 224 | And | 5 | 0 | 42.7 | +41 | 16 | 3.4 | 178x63 | 2900 | /// | | | | | | | | !! Andromeda Galaxy; 4° wide; | | | | /// |
| M32 | 221 | And | 6 | 0 | 42.7 | +40 | 52 | 8.1 | 8x6 | 2900 | | | /// | /// | | | | | closest companion to M31 | | | | /// |
| M33 | 598 | Tri | 5 | 1 | 33.9 | +30 | 39 | 5.7 | 73x45 | 3000 | | /// | | | /// | | | | large, diffuse spiral; requires dark sky | | | | /// |
| M34 | 1039 | Per | 1 | 2 | 42 | +42 | 47 | 5.5 | 35 | 1.4 | /// | | | | | | | | | | | | /// |
| M35 | 2168 | Gem | 1 | 6 | 8.9 | +24 | 20 | 5.3 | 28 | 2.8 | /// | | | | | | | | !! Look for small cluster NGC 2158 | /// | | | |
| M36 | 1960 | Aur | 1 | 5 | 36.1 | +34 | 8 | 6.3 | 12 | 4.1 | /// | | | | | | | | Bright but scattered group | /// | | | |
| M37 | 2099 | Aur | 1 | 5 | 52.4 | +32 | 33 | 6.2 | 24 | 4.4 | /// | | | | | | | | !! Finest of three Auriga clusters; very rich | /// | | | |
| M38 | 1912 | Aur | 1 | 5 | 28.4 | +35 | 50 | 7.4 | 21 | 4.2 | /// | | | | | | | | | | | | |
| M39 | 7092 | Cyg | 1 | 21 | 32.2 | +48 | 26 | 5.2 | 32 | 0.825 | /// | | | | | | | | very sparse cluster | | | /// | |
| M40 | Win4 | UMa | C | 12 | 22.4 | +58 | 5 | 8.4 | 0.8 | 0.3 | | /// | | | | | | | double star Winnecke 4; separation of 50" | | /// | | |
| M41 | 2287 | CMa | 1 | 6 | 47 | -20 | 44 | 4.6 | 38 | 2.3 | /// | | | | | | | | 4° South of Sirius; bright but coarse cluster | /// | | | |
| M42 | 1976 | Ori | 4 | 5 | 35.4 | -5 | 27 | 4 | 85x60 | 1.6 | /// | | | | | | | | !! Orion Nebula; a magnificent object | /// | | | |
| M43 | 1982 | Ori | 4 | 5 | 35.6 | -5 | 16 | 9 | 20x15 | 1.6 | | | | | | | | | | | | | |
| M44 | 2632 | Cnc | 1 | 8 | 40.1 | +19 | 59 | 3.7 | 95 | 0.577 | /// | | | | | | | | !! Beehive Cluster | | /// | | |
| M45 | - | Tau | 1 | 3 | 47 | +24 | 7 | 1.6 | 110 | 0.38 | /// | | | | | | | | !! Pleiades | /// | | | |
| M46 | 2437 | Pup | 1 | 7 | 41.8 | -14 | 49 | 6 | 27 | 5.4 | /// | | | | | | | | | | | | |
| M47 | 2422 | Pup | 1 | 7 | 36.6 | -14 | 30 | 5.2 | 30 | 1.6 | /// | | | | | | | | coarse cluster; 1.5° West of M46 | /// | | | |
| M48 | 2548 | Hya | 1 | 8 | 13.8 | -5 | 48 | 5.5 | 54 | 1.5 | /// | | | | | | | | former 'lost' Messier object; sparse group | /// | | | |

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|-----|------|-----|------|---|------|-----|-----------------------------|-----|---------|-------|------------|-------------|----------------|-------------|---|---------------------|-------------|----------------|--------|--------|--------|------|
| | | | | hr | min | deg | min | | | | I. EASY | II. TOUGHER | III. CHALLENGE | | | I. EASY | II. TOUGHER | III. CHALLENGE | Winter | Spring | Summer | Fall |
| | | | | 20mm to 50mm (ex.7x35, 7x50, 10x50) | | | 56mm to 80mm (ex. 11x80) | | | | | | | | | | | | | | | |
| M49 | 4472 | Vir | 6 | 12 | 29.8 | +8 | 0 | 8.4 | 9x7.5 | 60000 | | | | (✓) | very bright elliptical | | | | | | | |
| M50 | 2323 | Mon | 1 | 7 | 3.2 | -8 | 20 | 6.3 | 16 | 3 | | | | | between Sirius and Procyon | | | | | | | |
| M51 | 5194 | CVn | 5 | 13 | 29.9 | +47 | 12 | 8.4 | 11x7 | 37000 | | | | | !! Whirlpool Galaxy | | | | | | | |
| M52 | 7654 | Cas | 1 | 23 | 24.2 | +61 | 35 | 7.3 | 13 | 5 | | | | | young rich cluster | | | | | | | |
| M53 | 5024 | Com | 2 | 13 | 12.9 | +18 | 10 | 7.6 | 12.6 | 56.4 | | | | | | | | | | | | |
| M54 | 6715 | Sgr | 2 | 18 | 55.1 | -30 | 29 | 7.6 | 9.1 | 82.8 | | | | | not easily resolved | | | | | | | |
| M55 | 6809 | Sgr | 2 | 19 | 40 | -30 | 58 | 6.3 | 19 | 16.6 | | | | | bright, loose cluster | | | | | | | |
| M56 | 6779 | Lyr | 2 | 19 | 16.6 | +30 | 11 | 8.3 | 7.1 | 31.6 | | | | | within a rich starfield | | | | | | | |
| M57 | 6720 | Lyr | 3 | 18 | 53.6 | +33 | 2 | 8.8 | 1.4x1.0 | 4.1 | | | | | !! Ring Nebula ! | | | | | | | |
| M58 | 4579 | Vir | 5 | 12 | 37.7 | +11 | 49 | 9.7 | 5.5x4.5 | 60000 | | | | | barred spiral; M59 and M60 1° East | | | | | | | |
| M59 | 4621 | Vir | 6 | 12 | 42 | +11 | 39 | 9.6 | 5x3.5 | 60000 | | | | | elliptical galaxy paired with M60 | | | | | | | |
| M60 | 4649 | Vir | 6 | 12 | 43.7 | +11 | 33 | 8.8 | 7x6 | 60000 | | | | | elliptical galaxy paired with M59 | | | | | | | |
| M61 | 4303 | Vir | 5 | 12 | 21.9 | +4 | 28 | 9.7 | 6x5.5 | 60000 | | | | | face-on two armed spiral | | | | | | | |
| M62 | 6266 | Oph | 2 | 17 | 1.2 | -30 | 7 | 6.5 | 14.1 | 21.5 | | | | | unsymmetrical; in rich star field | | | | | | | |
| M63 | 5055 | CVn | 5 | 13 | 15.8 | +42 | 2 | 8.6 | 10x6 | 37000 | | | | | !! Sunflower Galaxy; elongated | | | | | | | |
| M64 | 4826 | Com | 5 | 12 | 56.7 | +21 | 41 | 8.5 | 9.3x5.4 | 12000 | | | | | !! Black Eye Galaxy; 'eye' needs large aperture | | | | | | | |
| M65 | 3623 | Leo | 5 | 11 | 18.9 | +13 | 5 | 9.3 | 8x1.5 | 35000 | | | | | !! bright elongated spiral | | | | | | | |
| M66 | 3627 | Leo | 5 | 11 | 20.2 | +12 | 59 | 8.9 | 8x2.5 | 35000 | | | | | !! M65 in same field | | | | | | | |
| M67 | 2682 | Cnc | 1 | 8 | 50.4 | +11 | 49 | 6.1 | 30 | 2.7 | | | | | one of the oldest star clusters | | | | | | | |
| M68 | 4590 | Hya | 2 | 12 | 39.5 | -26 | 45 | 7.8 | 12 | 32.3 | | | | | | | | | | | | |
| M69 | 6637 | Sgr | 2 | 18 | 31.4 | -32 | 21 | 7.6 | 7.1 | 26.7 | | | | | small, poor globular | | | | | | | |
| M70 | 6681 | Sgr | 2 | 18 | 43.2 | -32 | 18 | 7.9 | 7.8 | 28 | | | | | small globular 2° E of M69 | | | | | | | |
| M71 | 6838 | Sge | 2 | 19 | 53.8 | +18 | 47 | 8.2 | 7.2 | 11.7 | | | | | loose globular; looks like an open cluster | | | | | | | |
| M72 | 6981 | Aqr | 2 | 20 | 53.5 | -12 | 32 | 9.3 | 5.9 | 52.8 | | | | | | | | | | | | |

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|-----|------|-----|------|----|------|-----|-----|------|----------|-------|------------|-------------|----------------|-------------|--|---------------------|-------------|----------------|--------|
| | | | | hr | min | deg | min | | | | I. EASY | II. TOUGHER | III. CHALLENGE | | | I. EASY | II. TOUGHER | III. CHALLENGE | Winter |
| M73 | 6994 | Aqr | A | 20 | 58.9 | -12 | 38 | 9 | 2.8 | 0 | | | | | group of 4 stars only; an 'asterism' | | | | |
| M74 | 628 | Psc | 5 | 1 | 36.7 | +15 | 47 | 9.4 | 10.2x9.5 | 35000 | | | | | | | | | |
| M75 | 6864 | Sgr | 2 | 20 | 6.1 | -21 | 55 | 8.5 | 6 | 57.7 | | | | | small and distant globular; 59,000 L.Y. away | | | | |
| M76 | 650 | Per | 3 | 1 | 42.4 | +51 | 34 | 10.1 | 2.7x1.8 | 3.4 | | | | | | | | | |
| M77 | 1068 | Cet | 5 | 2 | 42.7 | -0 | 1 | 8.9 | 7x6 | 60000 | | | | | a Seyfert galaxy; starlike nucleus | | | | |
| M78 | 2068 | Ori | 4 | 5 | 46.7 | 0 | 3 | 8.3 | 8x6 | 1.6 | | | | | featureless reflection nebula | | | | |
| M79 | 1904 | Lep | 2 | 5 | 24.5 | -24 | 33 | 7.7 | 8.7 | 41.1 | | | | | | | | | |
| M80 | 6093 | Sco | 2 | 16 | 17 | -22 | 59 | 7.3 | 8.9 | 27.4 | | | | | very compressed globular | | | | |
| M81 | 3031 | UMa | 5 | 9 | 55.6 | +69 | 4 | 6.9 | 21x10 | 12000 | | | | | !! bright spiral; M82 1/2° North | | | | |
| M82 | 3034 | UMa | 7 | 9 | 55.8 | +69 | 41 | 8.4 | 9x4 | 12000 | | | | | !! the 'exploding' galaxy | | | | |
| M83 | 5236 | Hya | 5 | 13 | 37 | -29 | 52 | 7.6 | 11x10 | 15000 | | | | | large and diffuse | | | | |
| M84 | 4374 | Vir | 8 | 12 | 25.1 | +12 | 53 | 9.1 | 5 | 60000 | | | | | M86 nearby | | | | |
| M85 | 4382 | Com | 8 | 12 | 25.4 | +18 | 11 | 9.1 | 7.1x5.2 | 60000 | | | | | elliptical shape | | | | |
| M86 | 4406 | Vir | 8 | 12 | 26.2 | +12 | 57 | 8.9 | 7.5x5.5 | 60000 | | | | | in richest part of Coma-Virgo galaxy cluster | | | | |
| M87 | 4486 | Vir | 6 | 12 | 30.8 | +12 | 24 | 8.6 | 7 | 60000 | | | | | the one with the famous jet and black hole | | | | |
| M88 | 4501 | Com | 5 | 12 | 32 | +14 | 25 | 9.6 | 7x4 | 60000 | | | | | multiple-arm spiral | | | | |
| M89 | 4552 | Vir | 6 | 12 | 35.7 | +12 | 33 | 9.8 | 4 | 60000 | | | | | resembles M87 but smaller | | | | |
| M90 | 4569 | Vir | 5 | 12 | 36.8 | +13 | 10 | 9.5 | 9.5x4.5 | 60000 | | | | | spiral near M89 | | | | |
| M91 | 4548 | Com | 5 | 12 | 35.4 | +14 | 30 | 10.2 | 5.4x4.4 | 60000 | | | | | | | | | |
| M92 | 6341 | Her | 2 | 17 | 17.1 | +43 | 8 | 6.4 | 11.2 | 26.4 | | | | | 9° NE of M13; fine object but often overlooked | | | | |
| M93 | 2447 | Pup | 1 | 7 | 44.6 | -23 | 52 | 6 | 22 | 3.6 | | | | | compact, bright cluster; fairly rich | | | | |
| M94 | 4736 | CVn | 5 | 12 | 50.9 | +41 | 7 | 8.2 | 7x3 | 14500 | | | | | bright and comet-like | | | | |
| M95 | 3351 | Leo | 5 | 10 | 44 | +11 | 42 | 9.7 | 4.4x3.3 | 38000 | | | | | barred spiral; M96 in same field | | | | |
| M96 | 3368 | Leo | 5 | 10 | 46.8 | +11 | 49 | 9.2 | 6x4 | 38000 | | | | | M95 in same field | | | | |

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| M97 | 3587 | UMa | 3 | 11 | 14.8 | +55 | 1 | 9.9 | 3.4x3.3 | 2.6 | | | | | | | !! Owl Nebula; appears brighter than 11.2 mag | | | | | |
| M98 | 4192 | Com | 5 | 12 | 13.8 | +14 | 54 | 10.1 | 9.5x3.2 | 60000 | | | | | | | | | | | | |
| M99 | 4254 | Com | 5 | 12 | 18.8 | +14 | 25 | 9.9 | 5.4x4.8 | 60000 | | | | | | | nearly face-on spiral | | | | | |
| M100 | 4321 | Com | 5 | 12 | 22.9 | +15 | 49 | 9.3 | 7x6 | 60000 | | | | | | | face-on spiral with starlike nucleus | | | | | |
| M101 | 5457 | UMa | 5 | 14 | 03.2 | +54 | 21 | 7.9 | 22.0 | 27000 | | | | | | | !! Pinwheel Galaxy; face-on spiral; diffuse | | | | | |
| M102 | 5457 | UMa | 5 | 14 | 03.2 | +54 | 21 | 7.9 | 22.0 | 27000 | | | | | | | | | | | | |
| M102 | 5866 | Dra | 8 | 15 | 06.5 | +55 | 64 | 9.9 | 5.2x2.3 | 40000 | | | | | | | | | | | | |
| M103 | 5811 | Cas | 1 | 01 | 33.2 | +60 | 42 | 7.4 | 6.0 | 8 | | | | | | | 3 NGC clusters nearby | | | | | |
| M104 | 4594 | Vir | 5 | 12 | 40.0 | -11 | 37 | 8.0 | 9x4 | 50000 | | | | | | | !! Sombrero Galaxy | | | | | |
| M105 | 3379 | Leo | 6 | 10 | 47.8 | +12 | 35 | 9.3 | 2.0 | 38000 | | | | | | | very near M95 and M96 | | | | | |
| M106 | 4258 | CVn | 5 | 12 | 19.0 | +47 | 18 | 8.4 | 19x8 | 25000 | | | | | | | !! large spiral | | | | | |
| M107 | 6171 | Oph | 2 | 16 | 32.5 | -13 | 03 | 7.9 | 10.0 | 19.6 | | | | | | | small faint globular | | | | | |
| M108 | 3556 | UMa | 5 | 11 | 11.5 | +55 | 40 | 10.0 | 8x1 | 45000 | | | | | | | nearly edge-on; very close to M97 | | | | | |
| M109 | 3992 | UMa | 5 | 11 | 57.6 | +53 | 23 | 9.8 | 7x4 | 55000 | | | | | | | barred spiral near gamma-UMa | | | | | |
| M110 | 2055 | And | 6 | 00 | 40.4 | +41 | 41 | 8.5 | 17x10 | 2900 | | | | | | | more distant companion to M31 | | | | | |