

**SAA 100****Best Non-Messier Objects, Alphabetically by Constellation**

Object types:

Gal = galaxy OC = open cluster GC = globular cluster PN = planetary nebula BN = bright nebula DN = dark nebula SNR = supernova remnant

| Object           | Type        | Con | VMag | Size          | RA          | Dec          | Pop. Name                   | Notes   |
|------------------|-------------|-----|------|---------------|-------------|--------------|-----------------------------|---|
| NGC 752          | OC          | And | 5.7  | 50.0'         | 01h 57m 51s | +37° 41' 05" |                             |   |
| NGC 891          | Gal         | And | 9.9  | 14.0'x3.0'    | 02h 22m 36s | +42° 20' 50" |                             | edge-on spiral w/prominent dust lane  |
| NGC 7662         | PN          | And | 8.6  | 17.0"x14.0"   | 23h 25m 57s | +42° 32' 44" | Blue Snowball Nebula        |   |
| NGC 6781         | PN          | Aql | 11.8 | 1.9'x1.8'     | 19h 18m 28s | +06° 32' 46" |                             |   |
| NGC 7009         | PN          | Aqr | 8.3  | 28.0"x23.0"   | 21h 04m 15s | -11° 21' 49" | Saturn Nebula               |   |
| NGC 7293         | PN          | Aqr | 6.3  | 16.0'x12.0'   | 22h 29m 40s | -20° 47' 23" | Helical Nebula              |   |
| NGC 6397         | GC          | Ara | 5.7  | 25.7'         | 17h 40m 43s | -53° 40' 33" |                             | one of the nearest Globulars  |
| NGC 1907         | OC          | Aur | 8.2  | 7.0'          | 05h 28m 00s | +35° 18' 53" |                             |   |
| NGC 1502         | OC          | Cam | 6.9  | 8.0'          | 04h 07m 45s | +62° 19' 49" |                             | near SE end of Kemble's Cascade   |
| Kemble's Cascade | Asterism    | Cam |      |               | 03h 57m 30s | +63° 04' 13" |                             | first described by Canadian amateur Lucian J. Kemble; beautiful chain of about 20 mag. 5...9 stars; coordinates are for SAO 12969, a mag. 5 star in the middle of the Cascade |
| NGC 2403         | Gal         | Cam | 8.5  | 17.8'         | 07h 36m 55s | +65° 35' 42" |                             |   |
| NGC 3372         | BN          | Car |      | 120.0'x120.0' | 10h 43m 47s | -59° 52' 01" | Eta Carina Nebula           |   |
| NGC 3532         | OC          | Car | 3.0  | 55.0'         | 11h 06m 23s | -58° 40' 03" |                             |   |
| NGC 225          | OC          | Cas | 7.0  | 12.0'         | 00h 43m 28s | +61° 47' 06" |                             |   |
| NGC 457          | OC          | Cas | 6.4  | 13.0'         | 01h 19m 10s | +58° 20' 02" | Owl Cluster                 |   |
| NGC 654          | OC          | Cas | 6.5  | 5.0'          | 01h 44m 10s | +61° 53' 00" |                             |   |
| NGC 659          | OC          | Cas | 7.9  | 5.0'          | 01h 44m 16s | +60° 42' 00" |                             |   |
| NGC 663          | OC          | Cas | 7.1  | 16.0'         | 01h 46m 04s | +61° 15' 00" |                             |   |
| Stock 2          | OC          | Cas | 4.4  | 60.0'         | 02h 15m 04s | +59° 15' 58" | Muscleman Cluster           |   |
| NGC 7789         | OC          | Cas | 6.7  | 16.0'         | 23h 57m 04s | +56° 44' 09" |                             |   |
| NGC 3766         | OC          | Cen | 5.3  | 12.0'         | 11h 36m 05s | -61° 37' 04" |                             |   |
| NGC 5128         | Gal         | Cen | 6.8  | 18.2'x14.5'   | 13h 25m 29s | -43° 01' 07" | Centaurus A                 | strong radio source   |
| NGC 5139         | GC          | Cen | 3.7  | 36.3'         | 13h 26m 46s | -47° 28' 45" | Omega Centauri              | best GC in the sky  |
| NGC 40           | PN          | Cep | 10.7 | 1.0'x0.7'     | 00h 13m 08s | +72° 31' 47" |                             |   |
| NGC 6939         | OC          | Cep | 7.8  | 8.0'          | 20h 31m 27s | +60° 38' 22" |                             |   |
| IC 1396          | BN          | Cep | 3.5  | 154.0'x140.0' | 21h 39m 09s | +57° 46' 58" |                             |   |
| King 10          | OC          | Cep |      | 3.0'          | 22h 54m 58s | +59° 10' 16" |                             |   |
| NGC 247          | Gal         | Cet | 9.1  | 20.0'x7.0'    | 00h 47m 11s | -20° 45' 21" |                             |   |
| NGC 2359         | BN          | CMa |      | 8.0'          | 07h 17m 48s | -13° 12' 54" | Thor's Helmet; Duck Nebula  | Wolf-Rayet remnant  |
| NGC 2360         | OC          | CMa | 7.2  | 13.0'         | 07h 17m 48s | -15° 36' 53" |                             |   |
| NGC 2362         | OC          | CMa | 4.1  | 8.0'          | 07h 18m 48s | -24° 56' 51" |                             |   |
| Mel 111          | OC          | Com | 1.8  | 275.0'        | 12h 25m 00s | +26° 00' 07" | Coma Berenices Star Cluster |   |
| NGC 4565         | Gal         | Com | 9.6  | 15.5'x1.9'    | 12h 36m 20s | +25° 59' 23" | Bernice's Hair Clip         | classic edge-on spiral with dust lane   |
| Abell 1656       | Gal cluster | Com | 11.0 | 120.0'        | 12h 59m 48s | +27° 59' 04" | Coma Gal Cluster            | tough in 8-12" aperture   |
| NGC 4038         | Gal         | Cor | 10.3 | 2.6'x1.8'     | 12h 01m 53s | -18° 51' 55" | The Antennae; Ringtail Gal  | interacting with NGC 4039   |
| NGC 4039         | Gal         | Cor | 10.6 | 3.2'x2.2'     | 12h 01m 54s | -18° 53' 07" | The Antennae                | interacting with NGC 4038   |
| NGC 4361         | PN          | Cor | 10.3 | 1.3'          | 12h 24m 30s | -18° 47' 38" |                             |   |

|                     |             |     |      |               |             |              |                                     |  |
|---------------------|-------------|-----|------|---------------|-------------|--------------|-------------------------------------|--|
| NGC 4755            | OC          | Cru | 4.2  | 10.0'         | 12h 53m 35s | -60° 20' 08" | Jewel Box Cluster; Kappa Crucis     |  |
| NGC 4244            | Gal         | CVn | 10.4 | 18.5"x2.3'    | 12h 17m 29s | +37° 48' 28" |                                     |  |
| NGC 4631            | Gal         | CVn | 9.2  | 17.0"x3.5'    | 12h 42m 11s | +32° 32' 42" |                                     | same LP field as NGC 4656                        |
| NGC 4656            | Gal         | CVn | 10.5 | 22.0"x3.0'    | 12h 43m 58s | +32° 10' 21" |                                     | same LP field as NGC 4631                        |
| Albireo             | Star        | Cyg | 3.1  |               | 19h 30m 45s | +27° 57' 55" |                                     | superb double star; blue-white/yellow            |
| NGC 6819            | OC          | Cyg | 7.3  | 5.0'          | 19h 41m 20s | +40° 11' 22" |                                     |  |
| NGC 6826            | PN          | Cyg | 8.8  | 27.0"x24.0"   | 19h 44m 53s | +50° 31' 42" | Blinking Planetary                  |  |
| NGC 6888            | BN          | Cyg |      | 20.0"x10.0'   | 20h 12m 14s | +38° 20' 21" | Crescent Nebula                     |  |
| NGC 6960            | SNR         | Cyg |      | 70.0"x6.0'    | 20h 45m 38s | +30° 43' 20" | Western Veil                        |  |
| NGC 6992            | SNR         | Cyg |      | 25.0"x20.0'   | 20h 56m 14s | +31° 04' 20" | Eastern Veil                        |  |
| NGC 7000            | BN          | Cyg |      | 175.0"x110.0' | 20h 58m 32s | +44° 33' 21" | North American Nebula               | large; often easier in binoculars than telescope |
| NGC 2070            | BN          | Dor | 8.3  | 5.0'          | 05h 38m 39s | -69° 04' 51" | Tarantula Nebula                    | in Lg. Magellanic Cloud                          |
| NGC 5907            | Gal         | Dra | 10.3 | 12.8"x1.8'    | 15h 15m 52s | +56° 19' 48" |                                     |  |
| NGC 6543            | PN          | Dra | 8.3  | 22.0"x16.0"   | 17h 58m 36s | +66° 38' 17" | Cat's Eye Nebula                    |  |
| NGC 1535            | PN          | Eri | 10.4 | 20.0"x17.0"   | 04h 14m 16s | -12° 44' 16" |                                     | multiple shells                                  |
| Fornax Gal. Cluster | Gal cluster | For |      | 3"x2°         | 03h 38m 31s | -35° 26' 40" |                                     | approx. 20 galaxies brighter than mag. 13        |
| NGC 2158            | OC          | Gem | 8.6  | 5.0'          | 06h 07m 33s | +24° 05' 56" |                                     |  |
| NGC 2392            | PN          | Gem | 8.6  | 47.0"x43.0"   | 07h 29m 10s | +20° 54' 42" | Eskimo Nebula; Clown Face           |  |
| NGC 6210            | PN          | Her | 9.7  | 20.0"x13.0"   | 16h 44m 30s | +23° 48' 46" |                                     |  |
| NGC 3242            | PN          | Hya | 8.6  | 40.0"x35.0"   | 10h 24m 48s | -18° 38' 14" | Ghost of Jupiter                    |  |
| NGC 2903            | Gal         | Leo | 9.0  | 13.3"x6.0'    | 09h 32m 10s | +21° 29' 58" |                                     |  |
| IC 418              | PN          | Lep | 10.7 | 14.0"x11.0"   | 05h 27m 30s | -12° 41' 32" |                                     |  |
| NGC 2232            | OC          | Mon | 3.9  | 30.0'         | 06h 26m 37s | -04° 44' 54" |                                     |  |
| NGC 2237            | BN          | Mon | 5.5  | 70.0"x80.0'   | 06h 32m 19s | +04° 59' 03" | Rosette Nebula                      | OC NGC 2244 embedded in nebula                   |
| NGC 2244            | OC          | Mon | 4.8  | 24.0'         | 06h 32m 25s | +04° 52' 03" |                                     | involved with Rosette Neb. (NGC 2237)            |
| NGC 2261            | BN          | Mon |      | 2.0"x1.0'     | 06h 39m 13s | +08° 44' 01" | Hubble's Variable Nebula            |  |
| NGC 2264            | OC          | Mon | 3.9  | 30.0"x60.0'   | 06h 40m 58s | +09° 53' 42" | Christmas Tree Cluster; Cone Nebula | includes naked-eye S Mon (15 Mon)                |
| NGC 2301            | OC          | Mon | 6.0  | 12.0'         | 06h 51m 49s | +00° 28' 04" |                                     |  |
| B 59, 65-7          | DN          | Oph |      | 300.0'        | 17h 21m 02s | -26° 59' 58" | Pipe Nebula (stem)                  |  |
| NGC 6369            | PN          | Oph | 11.0 | 30.0"x29.0"   | 17h 29m 22s | -23° 45' 37" |                                     |  |
| B 78                | DN          | Oph |      | 200.0'        | 17h 33m 02s | -25° 59' 58" | Pipe Nebula (bowl)                  |  |
| IC 4665             | OC          | Oph | 4.2  | 41.0'         | 17h 46m 20s | +05° 43' 08" |                                     |  |
| NGC 6572            | PN          | Oph | 9.0  | 15.0"x12.0"   | 18h 12m 09s | +06° 51' 01" |                                     |  |
| NGC 6633            | OC          | Oph | 4.6  | 27.0'         | 18h 27m 43s | +06° 34' 14" |                                     |  |
| NGC 1973            | BN          | Ori |      | 5.0"x5.0'     | 05h 35m 09s | -04° 43' 56" | part of Running Man Nebula          |  |
| NGC 1975            | BN          | Ori |      | 10.0"x5.0'    | 05h 35m 21s | -04° 40' 56" | part of Running Man Nebula          |  |
| NGC 1977            | BN          | Ori |      | 20.0"x10.0'   | 05h 35m 27s | -04° 49' 56" | part of Running Man Nebula          | 42 Orionis nebula                                |
| NGC 2169            | OC          | Ori | 5.9  | 7.0'          | 06h 08m 27s | +13° 56' 59" | "37" Cluster                        |  |

|                   |           |     |                |             |              |                                   |  |
|-------------------|-----------|-----|----------------|-------------|--------------|-----------------------------------|--|
| NGC 2174          | BN        | Ori | 25.0'x20.0'    | 06h 10m 01s | +20° 33' 58" |                                   |  |
| NGC 6545          | Gal       | Pav | 13.2 1.0'x0.9' | 18h 12m 18s | -63° 46' 45" | Needle Galaxy                     |  |
| NGC 7331          | Gal       | Peg | 9.5 11.4'x4.0' | 22h 37m 08s | +34° 25' 27" | Little And Gal                    |  |
| NGC 869           | OC        | Per | 5.3 30.0'      | 02h 19m 03s | +57° 08' 58" | Double Cluster                    | w/NGC 884  |
| NGC 884           | OC        | Per | 6.1 30.0'      | 02h 22m 27s | +57° 06' 57" | Double Cluster                    | w/NGC 869  |
| NGC 1023          | Gal       | Per | 9.4 9.0'x4.0'  | 02h 40m 27s | +39° 03' 47" |                                   |  |
| Mel 20            | OC        | Per | 1.2 185.0'     | 03h 22m 03s | +48° 59' 56" | Alpha Persei Association          |  |
| NGC 1528          | OC        | Per | 6.4 24.0'      | 04h 15m 24s | +51° 13' 49" |                                   |  |
| NGC 2438          | PN        | Pup | 11.0 1.1'      | 07h 41m 51s | -14° 44' 06" |                                   | in foreground of M 46  |
| NGC 2467          | BN        | Pup | 7.1 15.0'      | 07h 52m 30s | -26° 22' 52" |                                   | use UHC or O-III filter; includes loose cluster of mag. 8-12 stars   |
| NGC 253           | Gal       | ScI | 7.2 25.0'x7.0' | 00h 47m 35s | -25° 17' 01" |                                   | edge-on spiral   |
| NGC 6231          | OC        | Sco | 2.6 15.0'      | 16h 54m 01s | -41° 48' 06" | Table of Scorpius                 | zeta Sco complex   |
| NGC 3115          | Gal       | Sex | 8.9 8.3'x3.2'  | 10h 05m 14s | -07° 43' 06" | Spindle Gal                       |  |
| Mel 25            | OC        | Tau | 0.5 330.0'     | 04h 27m 02s | +16° 00' 03" | Hyades                            | Aldebaran not a member   |
| NGC 104           | GC        | Tuc | 4.0 30.9'      | 00h 24m 10s | -72° 04' 37" | 47 Tucanae                        |  |
| NGC 2841          | Gal       | Uma | 9.2 7.4'x3.5'  | 09h 22m 01s | +50° 58' 21" |                                   |  |
| NGC 3877          | Gal       | Uma | 11.0 5.6'x1.2' | 11h 46m 07s | +47° 29' 37" |                                   |  |
| Markarian's Chain | Gal chain | Vir |                | 12h 25m 04s | +12° 53' 16" |                                   | string of bright galaxies; covers 3 degrees of sky, starting with M84 & M86 in Virgo, ending with NGCs 4459 & 4474 in Coma Berenices; coordinates are for M 84 |
| 3C 273            | Quasar    | Vir | 12.0           | 12h 29m 06s | +02° 03' 01" |                                   | brightest quasar; most remote object visible in modest amateur telescopes (~ 2 billion light years)  |
| NGC 4526          | Gal       | Vir | 9.7 7.0'x2.7'  | 12h 34m 03s | +07° 42' 03" | Lost Gal                          |  |
| NGC 4567          | Gal       | Vir | 11.3 3.0'x2.5' | 12h 36m 33s | +11° 15' 33" | Siamese Twins                     | overlaps NGC 4568  |
| NGC 4568          | Gal       | Vir | 10.8 5.1'x2.4' | 12h 36m 35s | +11° 14' 17" | Siamese Twins                     | overlaps NGC 4567  |
| NGC 5746          | Gal       | Vir | 10.3 7.4'x1.1' | 14h 44m 57s | +01° 57' 20" |                                   |  |
| Cr 399            | Asterism  | Vul | 3.6 60.0'      | 19h 25m 26s | +20° 11' 18" | Brocchi's Cluster; The Coathanger | once assumed to be a OC; data from Hipparcos spacecraft shows it to be a chance alignment of stars   |
| NGC 6885          | OC        | Vul | 8.1 7.0'       | 20h 12m 02s | +26° 29' 20" |                                   |  |

Comments and corrections to: [E-mail Comments and Corrections](#)[E-mail Comments and Corrections](#)