

December Observing List

Prepared by Bill Breeden

Double Stars (Astronomical League)

- _____ 7. Alpha Psc SAO 110291 Al Rischa Const. PSC Type DS RA 02 02.0 Decl. +02° 46' Mag. 4.2 5.1
- _____ 8. Gamma And SAO 37734 Almach Const. AND Type DS RA 02 03.9 Decl. +42° 20' Mag. 2.3
- _____ 9. Iota Tri SAO 55347 Const. TRI Type DS RA 02 12.4 Decl. +30° 18' Mag. 5.3 6.9
- _____ 10. Alpha UMi SAO 15384 Polaris Const. UMI Type DS RA 02 31.8 Decl. +89° 16' Mag. 2.0 9.0
- _____ 11. Gam Cet SAO 110707 Kaffaljidhma Type DS RA 02 43.3 Decl. +03° 14' Mag. 3.5 7.3
- _____ 12. Eta Per SAO 23655 Miram Type DS RA 02 50.7 Decl. +55° 54' Mag. 3.8 8.5 5.5
- _____ 13. Struve 331 SAO 23763 Const. PER Type DS RA 03 00.9 Decl. +52° 21' Mag. 5.3 6.7
- _____ 14. 32 Eri SAO 130805 Const. ERI Type DS RA 03 54.3 Decl. -02° 57' Mag. 4.8 6.1

Carbon Stars (Astronomical League)

- _____ 9. V Ari SAO 92853 RA 02 15 00 Decl. +12 14 23 Mag. 8.3 – 10.8 Per. 77 Class C4 (R8)
- _____ 10. SAO 129989 (Cet) GSC 5285:3 RA 02 35 06 Decl. -09 26 34 Mag. 8.2-8.5 Per. ? Class C2 (R3)
- _____ 11. UY And GSC 2832:2 RA 02 38 23 Decl. +39 10 09 Mag. 7.4 – 12.3 Per. ? Class C5 (N3)
- _____ 12. V623 Cas SAO 23858 RA 03 11 25 Decl. +57 54 11 Mag. 7.3 – 8.1 Per. ? Class C4 (R5)
- _____ 13. Y Per GSC 2873:1287 RA 03 27 42 Decl. +44 10 36 Mag. 8.1 – 11.3 Per. 249 Class C4 (R4)
- _____ 14. V466 Per NSV 1223 RA 03 41 29 Decl. +51 30 11 Mag. 8.4 – 8.9 Per. ? Class C5 (N5)
- _____ 15. U Cam SAO 12870 RA 03 41 48 Decl. +62 38 54 Mag. 6.9 – 7.6 Per. ? Class C3 – C6 (N5)

Messier Objects

- _____ M34 NGC1039 Const. PER Type OC RA 02 42.0 Decl. +42 47 Mag. 5.5
- _____ M45 Pleiades Const. TAU Type OC RA 03 47.0 Decl. +24 07 Mag. 1.6
- _____ M77 NGC1068 Const. CET Type GAL RA 02 42.7 Decl. -00 01 Mag. 8.9

Caldwell Objects

- _____ C5 IC342 Const. CAM Type SG RA 03 46 48.00 Decl. +68 06 00.0 Mag. 9.2
- _____ C14 NGC869/884 Double Clust Const. PER Type OC RA 02 20 00.00 Decl. +57 08 00.0 Mag. 4.3
- _____ C23 NGC891 Const. AND Type SG RA 02 22 36.00 Decl. +42 21 00.0 Mag. 9.9
- _____ C24 NGC1275 Per A Radio Srce Const. PER Type IG RA 03 19 48.00 Decl. +41 31 00.0 Mag. 11.6
- _____ C67 NGC1097 Const. FOR Type SG RA 02 46 18.00 Decl. -30 17 00.0 Mag. 9.2
- _____ C87 NGC1261 Const. HOR Type GC RA 03 12 18.00 Decl. -55 13 00.0 Mag. 8.4

Royal Astronomical Society of Canada Objects

- _____ 10. IC 289 Const. CAS Type PN RA 03 10.3 Decl. +61 19 Mag. 12.3
- _____ 12. NGC891 Const. AND Type G-Sb RA 02 22.6 Decl. +42 21 Mag. 10
- _____ 16. NGC936 Const. CET Type G-SBa RA 02 27.6 Decl. -01 09 Mag. 10.1
- _____ 17. NGC869/884 Double Cluster Const. PER Type OC RA 02 20.0 Decl. +57 08 Mag. ~4.4
- _____ 18. NGC1023 Const. PER Type G-E7p RA 02 40.4 Decl. +39 04 Mag. 9.5
- _____ 21. NGC1232 Const. ERI Type G-Sc RA 03 09.8 Decl. -20 35 Mag. 9.9

Hidden Treasures (Stephen O'Meara)

- _____ 10. NGC1023 Const. PER Type GAL RA 02h40m24s Decl. +39°03'48" Mag. 9.5
- _____ 11. NGC1232 Const. ERI Type GAL RA 03h09m45s Decl. -20°34'45" Mag. 9.9
- _____ 12. NGC1291 Const. ERI Type GAL RA 03h17m18s Decl. -41°06'26" Mag. 9.4
- _____ 13. NGC1316 Const. FOR Type GAL RA 03h22m42s Decl. -37°12'30" Mag. 8.8
- _____ 14. Melotte 20 Const. PER Type OC RA 03h22m00s Decl. +49°00'00" Mag. 1.2
- _____ 15. NGC1333 Const. PER Type NbRF RA 03h29m20s Decl. +31°24'57" Mag. ---
- _____ 16. NGC1360 Const. FOR Type PN RA 03h33m15s Decl. -25°52'18" Mag. 9.4
- _____ 17. NGC1365 Const. FOR Type GAL RA 03h33m36s Decl. -36°08'25" Mag. 9.5
- _____ 18. NGC1399 Const. FOR Type GAL RA 03h38m29s Decl. -35°27'04" Mag. 9.8
- _____ 19. NGC1398 Const. FOR Type GAL RA 03h38m52s Decl. -26°20'12" Mag. 9.7
- _____ 20. NGC1404 Const. FOR Type GAL RA 03h38m52s Decl. -35°35'35" Mag. 9.7
- _____ 21. Kemble 1 Const. CAM Type OC RA 03h58m00s Decl. +63°06'00" Mag. 4
- _____ A2. NGC1245 Const. PER Type OC RA 03h14m41s Decl. +47°14'20" Mag. 8.4
- _____ A3. NGC1300 Const. ERI Type GAL RA 03h19m41s Decl. -19°24'40" Mag. 10.4

Secret Deep (Stephen O'Meara)

- _____ 6. Stock 2 Const. CAS Type OC RA 02h14.7m Decl. +59°29' Mag. 4.4 Size 1°
- _____ 7. NGC936 Const. CET Type GAL RA 02h27.6m Decl. -01°09' Mag. 10.2 Size 6'x5'
- _____ 8. NGC1084 Const. ERI Type GAL RA 02h46.0m Decl. -07°35' Mag. 10.7 Size 3'x2'
- _____ 9. NGC1245 Const. PER Type OC RA 03h14.7m Decl. +47°14' Mag. 8.4 Size 10'
- _____ 10. NGC1300 Const. ERI Type GAL RA 03h19.7m Decl. -19°25' Mag. 10.4 Size 6'x3'
- _____ 11. NGC1342 Const. PER Type OC RA 03h31.7m Decl. +37°22.5' Mag. 6.7 Size 17'
- _____ 12. NGC1400 Const. ERI Type GAL RA 03h39.5m Decl. -18°41' Mag. 11 Size 3'x3'
- _____ 13. NGC1407 Const. ERI Type GAL RA 03h40.2m Decl. -18°35' Mag. 9.7 Size 6'x6'

Notes: This list contains deep sky objects with Right Ascension (RA) of 02 and 03 hours. These lines of RA cross the meridian (the highest point they can reach) near 10:00 pm during December. This list can also be used at 8:00 pm in January, and at midnight in November. Declination can be used to determine if an object is visible from your latitude. Observing all objects in each monthly list will allow you to observe all objects in the catalogs represented here over the course of one year.

Key: M=Messier Catalog. C=Caldwell Catalog. NGC=New General Catalogue. IC=Index Catalog. SAO=Smithsonian Astrophysical Observatory Star Catalog. Const.=Constellation. DS=Double Star. GSC=Guide Star Catalog. GC=Globular Cluster. OC=Open Cluster. GAL=Galaxy. SG=Spiral Galaxy. PN=Planetary Nebula. EN=Emission Nebula. RN=Reflection Nebula. BN=Bright Nebula. AST=Asterism. RA=Right Ascension. Decl.=Declination. Mag.=Magnitude. Size=Apparent Size.

Updated 5/19/2023.