

January Observing List

Prepared by Bill Breeden

Double Stars (Astronomical League)

- _____ 15. Chi Tau SAO 76573 Const. TAU Type DS RA 04 22.6 Decl. +25° 38' Mag. 5.5 7.6
- _____ 16. 1 Cam SAO 24672 Const. CAM Type DS RA 04 32.0 Decl. +53° 55' Mag. 5.7 6.8
- _____ 17. 55 Eri SAO 131442 Const. ERI Type DS RA 04 43.6 Decl. -08° 48' Mag. 6.7 6.8
- _____ 18. Beta Ori SAO 131907 Rigel Const. ORI Type DS RA 05 14.5 Decl. -08° 12' Mag. 0.1 6.8
- _____ 19. 118 Tau SAO 77201 Const. TAU Type DS RA 05 29.3 Decl. +25° 09' Mag. 5.8 6.6
- _____ 20. Delta Ori SAO 132220 Mintaka Const. ORI Type DS RA 05 32.0 Decl. -00° 18' Mag. 2.2 6.3
- _____ 21. Struve 747 SAO 132298 Const. ORI Type DS RA 05 35.0 Decl. -06° 00' Mag. 4.8 5.7
- _____ 22. Lambda Ori SAO 112921 Meissa Const. ORI Type DS RA 05 35.1 Decl. +09° 56' Mag. 3.6 5.5
- _____ 23. Theta 1 Ori Trapezium Const. ORI Type DS RA 05 35.3 Decl. -05° 23' Mag. 6.7 7.9 5.1 6.7
- _____ 24. Iota Ori SAO 132323 Nair al Saif Const. ORI Type DS RA 05 35.4 Decl. -05° 55' Mag. 2.8 6.9
- _____ 25. Theta 2 Ori SAO 132322 Const. ORI Type DS RA 05 35.4 Decl. -05° 25' Mag. 5.2 6.5
- _____ 26. Sigma Ori SAO 132406 Const. ORI Type DS RA 05 38.7 Decl. -02° 36' Mag. 4.0 7.5 6.5
- _____ 27. Zeta Ori SAO 132444 Alnitak Const. ORI Type DS RA 05 40.8 Decl. -01° 57' Mag. 1.9 4.0 9.9
- _____ 28. Gamma Lep SAO 170759 Const. LEO Type DS RA 05 44.5 Decl. -22° 27' Mag. 3.7 6.3
- _____ 29. Theta Aur SAO 58636 Const. AUR Type DS RA 05 59.7 Decl. +37° 13' Mag. 2.6 7.1

Carbon Stars (Astronomical League)

- _____ 16. UV Cam SAO 13009 RA 04 05 53 Decl. +61 47 39 Mag. 7.5 – 8.1 Per. 294 Class C5 (R8)
- _____ 17. XX Cam SAO 24431 RA 04 08 38 Decl. +53 21 39 Mag. 7.1 – 10.0 Per. ? Class C0 – C2 (G1)
- _____ 18. ST Cam SAO 13285 RA 04 51 13 Decl. +68 10 07 Mag. 6.7 – 8.4 Per. 300 Class C5 (N5)
- _____ 19. TT Tau SAO 76788 RA 04 51 31 Decl. +28 31 36 Mag. 7.7 – 10.0 Per. 167 Class C4 – C7 (N3)
- _____ 20. R Lep SAO 150058 RA 04 59 36 Decl. -14 48 22 Mag. 5.5 – 11.7 Per. 427 Class C7 (N6)
- _____ 21. EL Aur SAO 24981 RA 05 03 23 Decl. +50 37 58 Mag. 8.5 – 8.7 Per. Irr. Class C5 (N3)
- _____ 22. W Ori SAO 112406 RA 05 05 23 Decl. +01 10 39 Mag. 5.8 – 10.0 Per. 212 Class C5 (N5)
- _____ 23. TX Aur GSC 2895:203 RA 05 09 05 Decl. +39 00 08 Mag. 8.5 – 9.2 Per. Irr. Class C5 (N3)
- _____ 24. SY Eri SAO 131832 RA 05 09 48 Decl. -05 30 55 Mag. 8.3 – 10.0 Per. 96 Class C6 (N0)
- _____ 25. UV Aur SAO 57941 RA 05 21 48 Decl. +32 30 43 Mag. 7.4 – 10.6 Per. 394 Class C6 – C8 (Ne)
- _____ 26. S Aur GSC 2411:222 RA 05 27 07 Decl. +34 08 59 Mag. 8.2 – 13.3 Per. 590 Class C4/5 (N3)
- _____ 27. RT Ori GSC 126:161 RA 05 33 13 Decl. +07 09 12 Mag. 8.0 – 8.9 Per. 321 Class C6 (Nb)
- _____ 28. S Cam SAO 13563 RA 05 41 02 Decl. +68 47 55 Mag. 7.7 – 11.6 Per. 327 Class C7 (R8)
- _____ 29. TU Tau SAO 77502 RA 05 45 13 Decl. +24 25 12 Mag. 5.9 – 9.2 Per. 190 Class C5 (N3)
- _____ 30. Y Tau SAO 77516 RA 05 45 39 Decl. +20 41 42 Mag. 6.5 – 9.2 Per. 242 Class C6.5 (N3)
- _____ 31. FU Aur SAO 58449 RA 05 48 08 Decl. +30 37 51 Mag. 8.3 – 8.5 Per. ? Class C7 (N0)

Messier Objects

- _____ M1 NGC1952 Crab Nebula Const. TAU Type EN RA 05 34.5 Decl. +22 01 Mag. 8.2
- _____ M36 NGC1960 Const. AUR Type OC RA 05 36.1 Decl. +34 08 Mag. 6.3
- _____ M37 NGC2099 Const. AUR Type OC RA 05 52.4 Decl. +32 33 Mag. 6.2
- _____ M38 NGC1922 Const. AUR Type OC RA 05 28.4 Decl. +35 50 Mag. 7.4
- _____ M42 NGC1976 Orion Nebula Const. ORI Type EN RA 05 35.4 Decl. -05 27 Mag. 4
- _____ M43 NGC1982 Orion Nebula Const. ORI Type EN RA 05 35.6 Decl. -05 16 Mag. 9.1
- _____ M78 NGC2068 Const. ORI Type EN RA 05 46.7 Decl. +00 03 Mag. 10.3
- _____ M79 NGC1904 Const. LEP Type GC RA 05 24.5 Decl. -24 33 Mag. 8.4

Caldwell Objects

- _____ C31 IC405 Flaming Star Nebula Const. AUR Type BN RA 05 16 12.00 Decl. +34 16 00.0 Mag. 6
- _____ C41 Mel 25 Hyades Const. TAU Type OC RA 04 27 00.00 Decl. +16 00 00.0 Mag. 1
- _____ C73 NGC1851 Const. COL Type GC RA 05 14 06.00 Decl. -40 03 00.0 Mag. 7.3
- _____ C103 NGC2070 Tarantula Nebula Const. DOR Type BN RA 05 38 42.00 Decl. -69 06 00.0 Mag. 1

Royal Astronomical Society of Canada Objects

- _____ 19. NGC1491 Const. PER Type EN RA 04 03.4 Decl. +51 19 Mag. -
- _____ 20. NGC1501 Const. CAM Type PN RA 04 07.0 Decl. +60 55 Mag. 12
- _____ 22. NGC1535 Const. ERI Type PN RA 04 14.2 Decl. -12 44 Mag. 10.4
- _____ 23. NGC1514 Const. TAU Type PN RA 04 09.2 Decl. +30 47 Mag. 10.8
- _____ 24. NGC1931 Const. AUR Type E/RN RA 05 31.4 Decl. +34 15 Mag.
- _____ 25. NGC1788 Const. ORI Type RN RA 05 06.9 Decl. -03 21 Mag. --
- _____ 26. NGC1973+ Const. ORI Type E/RN RA 05 35.1 Decl. -04 44 Mag. --
- _____ 27. NGC2022 Const. ORI Type PN RA 05 42.1 Decl. +09 05 Mag. 12.4
- _____ 28. NGC2024 Const. ORI Type EN RA 05 40.7 Decl. -02 27 Mag. --

Hidden Treasures (Stephen O'Meara)

- _____ 22. NGC1501 Const. CAM Type PN RA 04h06m59s Decl. +60°55'15" Mag. 11.5
- _____ 23. NGC1502 Const. CAM Type OC RA 04h07m49s Decl. +62°19'54" Mag. 6.9
- _____ 24. NGC1535 Const. ERI Type PN RA 04h14m16s Decl. -12°44'21" Mag. 9.6
- _____ 25. NGC1528 Const. PER Type OC RA 04h15m18s Decl. +51°13'00" Mag. 6.4
- _____ 26. NGC1545 Const. PER Type OC RA 04h20m56s Decl. +50°15'19" Mag. 6.2
- _____ 27. NGC1647 Const. TAU Type OC RA 04h45m54s Decl. +19°07'00" Mag. 6.4
- _____ 28. IC 418 Const. LEP Type PN RA 05h27m28s Decl. -12°41'50" Mag. 9.3
- _____ 29. Collinder 69 Const. ORI Type OC RA 05h35m06s Decl. +09°56'00" Mag. 2.8
- _____ 30. NGC1981 Const. ORI Type OC RA 05h35m10s Decl. -04°25'30" Mag. 4.2
- _____ 31. Collinder 72 Const. ORI Type OC RA 05h35m24s Decl. -05°55'00" Mag. 3
- _____ 32. NGC1977 Const. ORI Type NbOC RA 05h35m18s Decl. -04°51'00" Mag. 4.2
- _____ 33. NGC1999 Const. ORI Type NbDF RA 05h36m24s Decl. -06°43'00" Mag. 9
- _____ 34. NGC2024 Const. ORI Type NbDF RA 05h41m42s Decl. -01°51'00" Mag. ---
- _____ A4. NGC1491 Const. PER Type NbEM RA 04h03m14s Decl. +51°18'58" Mag. ---
- _____ A5. NGC1514 Const. TAU Type PN RA 04h09m17s Decl. +30°46'33" Mag. 10.9
- _____ A6. NGC2022 Const. ORI Type PN RA 05h42m06s Decl. +09°05'00" Mag. 11.9

Secret Deep (Stephen O'Meara)

- _____ 14. NGC1491 Const. PER Type BN RA 04h03.4h Decl. +51°19' Mag. -- Size 4'
- _____ 15. NGC1514 Const. TAU Type PN RA 04h09.6m Decl. +30°46.5' Mag. 10.9 Size 2'x2'
- _____ 16. NGC1579 Const. PER Type BN RA 04h30.2m Decl. +35°16' Mag. -- Size 12'x8'
- _____ 17. NGC1750 Const. TAU Type OC RA 05h04.3m Decl. +23°44' Mag. 6 Size 30'
- _____ 18. NGC1758 Const. TAU Type OC RA 05h04.7m Decl. +23°48' Mag. 7.5 Size 10'
- _____ 19. NGC1788 Const. ORI Type BN RA 05h06.9m Decl. -03°21' Mag. -- Size 5'x3'
- _____ 20. NGC1807 Const. TAU Type OC RA 05h10.8m Decl. +16°31' Mag. 7 Size 12'
- _____ 21. NGC1817 Const. TAU Type OC RA 05h12.4m Decl. +16°41' Mag. 7.7 Size 20'
- _____ 22. IC417/Stock 8 Const. AUR Type BN/OC RA 05h28.1m Decl. +34°26' Mag. -- Size 13'x10'
- _____ 23. NGC1931 Const. AUR Type BN/OC RA 05h31.4m Decl. +34°15' Mag. -- Size 4'
- _____ 24. Cr70 Const. ORI Type OC RA 05h35.6m Decl. -01°05' Mag. 0.6 Size 2°20'

- _____ 25. NGC2022 Const. ORI Type PN RA 05h42.1m Decl. +09°05' Mag. 11.9 Size 22"x17""
- _____ 26. Sh2-276 Const. ORI Type SNR RA 05h52.5m Decl. +00°45' Mag. -- Size 1.5°x30'
- _____ 27. IC2149 Const. AUR Type PN RA 05h56.4m Decl. +46°06' Mag. 10.7 Size 9'
- _____ A4. NGC1499 Const. PER Type BN RA 04h00.7m Decl. +36°37' Mag. -- Size 2.6°x40'

Notes: This list contains deep sky objects with Right Ascension (RA) of 04 and 05 hours. These lines of RA cross the meridian (the highest point they can reach) near 10:00 pm during January. This list can also be used at 8:00 pm in February, and at midnight in December. 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.