

Deep Sky Object List (1/2)

| Messier | Caldwell | Best NGC | Clark | Herschel 400 | Herschel-II | RASC | TAAS200 | Object | Type | Con. | R.A. (h m) | Dec. (° ') | Mag. | Size max | Size min | P.A. (°) | Class | NGC Description | Chart No. |
|---------|----------|----------|-------|--------------|-------------|------|---------|----------|-------|------|---------------|---------------|------|-------------|-------------|-------------|------------|------------------------------|--------------|
| | | | | x | | | | NGC 7448 | GALXY | PEG | 23 00.1 | +15 59 | 11.7 | 2.6 m | 1.2 m | 170 | Sbc | pB,L,E173,vgbM,*11 f 2.5' | 38 |
| | | | | | x | | | NGC 7457 | GALXY | PEG | 23 01.0 | +30 09 | 11.2 | 4 m | 2.3 m | 130 | E-SO | cB,cL,IE,gmbM,r,2 S st n | 38 |
| | | | | | | | | NGC 7454 | GALXY | PEG | 23 01.1 | +16 23 | 11.8 | 2.2 m | 1.6 m | 150 | Elliptical | F,cS,IE,lbM,*11 p 1' | 38 |
| | | | | | x | | | NGC 7463 | GALXY | PEG | 23 01.9 | +15 59 | 13.2 | 3 m | 0.6 m | 90 | SBb/P | vF,S,IE,p of 2 | 38 |
| | | | | | x | | | NGC 7465 | GALXY | PEG | 23 02.0 | +15 58 | 12.6 | 1.2 m | 0.8 m | 165 | SBO | vF,vS,f of 2 | 38 |
| | C 44 | | x | x | | | x | NGC 7479 | GALXY | PEG | 23 04.9 | +12 19 | 10.9 | 4 m | 3.1 m | 25 | SBbc | pB,cL,mE12,bet 2 st | 38 |
| | | | | | | | | NGC 7490 | GALXY | PEG | 23 07.4 | +32 23 | 12.3 | 2.7 m | 2.6 m | | Sbc | vF,vS,iR,lbM | 38 |
| | | | | | | | | NGC 7497 | GALXY | PEG | 23 09.1 | +18 11 | 12.2 | 4.4 m | 1.7 m | 48 | SBc | vF,L,pmE,lbM | 38 |
| | | | | | | | | NGC 7514 | GALXY | PEG | 23 12.4 | +34 53 | 12.5 | 1.4 m | 0.9 m | 132 | Sbc | eF,pL,iR | 38 |
| | | | | | | | | NGC 7515 | GALXY | PEG | 23 12.8 | +12 41 | 12.4 | 1.7 m | 1.6 m | 15 | Sc | F,cS,R,vglbM,r | 38 |
| | | | | | | | | NGC 7539 | GALXY | PEG | 23 14.5 | +23 41 | 12.5 | 1.5 m | 1.2 m | 165 | SO | F,S,R,psbM | 38 |
| | | | | | | | | NGC 7550 | GALXY | PEG | 23 15.3 | +18 58 | 12.2 | 1.4 m | 1.2 m | | E-SO | cF,S,R | 38 |
| | | | | | | | | NGC 7625 | GALXY | PEG | 23 20.5 | +17 14 | 12.1 | 1.6 m | 1.6 m | | Sa | pB,cS,R,smbM | 38 |

Deep Sky Object List (2/2)

| Messier | Caldwell | Best NGC | Clark | Herschel 400 | Herschel-II | RASC | TAAS200 | Object | Type | Con. | R.A. (h m) | Dec. (° ') | Mag. | Size max | Size min | P.A. (°) | Class | NGC Description | Chart No. |
|---------|----------|----------|-------|--------------|-------------|------|---------|-----------|-------|------|---------------|---------------|------|-------------|-------------|-------------|------------|-------------------------|--------------|
| | | | | | | | | NGC 7678 | GALXY | PEG | 23 28.5 | +22 25 | 11.8 | 2.5 m | 1.7 m | 5 | SBc | vF,pL,vIE,lbM,am 4 st | 38 |
| | | | | | | | | UGC 12613 | GALXY | PEG | 23 28.6 | +14 45 | 12 | 4.6 m | 3.0 m | 120 | Ir+ | | 38 |
| | | | | | | | | NGC 7711 | GALXY | PEG | 23 35.7 | +15 18 | 12.1 | 2.6 m | 1.3 m | 95 | SO | F,S,R,psbM,stellar | 38 |
| | | | | | | | | NGC 7720 | GALXY | PEG | 23 38.5 | +27 02 | 12.4 | 1.6 m | 1.3 m | 10 | Elliptical | F,S,IE,bM,am st | 38 |
| | | | | | | | | NGC 7722 | GALXY | PEG | 23 38.7 | +15 57 | 12.4 | 2.1 m | 1.8 m | 150 | Sa | pB,pL,R,mbM | 38 |
| | | | | | | | | NGC 7741 | GALXY | PEG | 23 43.9 | +26 04 | 11.3 | 4.5 m | 2.9 m | 170 | SBc | cF,cL,iR,D* 10-12 np 2' | 38 |
| | | | | | | | | NGC 7753 | GALXY | PEG | 23 47.1 | +29 29 | 12 | 2.9 m | 1.9 m | 50 | SBbc | cF,cL,vIE,vglbM,r | 38 |
| | | | | | | | | NGC 7768 | GALXY | PEG | 23 51.0 | +27 09 | 12.3 | 1.6 m | 1.3 m | 60 | Elliptical | vF,S,E,* inv,*p,vnr | 38 |
| | | | | | | | | NGC 7769 | GALXY | PEG | 23 51.1 | +20 09 | 12 | 1.6 m | 1.6 m | | Sb | pF,pS,R,mbM | 38 |
| | | | | | | | | NGC 7771 | GALXY | PEG | 23 51.4 | +20 07 | 12.3 | 2.4 m | 1.1 m | 68 | SBa | pB,pL,E84,bM,n of 2 | 38 |
| | | | | | | | | NGC 7798 | GALXY | PEG | 23 59.4 | +20 45 | 12.4 | 1.4 m | 1.3 m | | Sc | pF,S,R,sbM,*10 sp | 38 |

Deep Sky Object List (1/1)

| Messier | Caldwell | Best NGC | Clark | Herschel 400 | Herschel-II | RASC | TAAS200 | Object | Type | Con. | R.A. (h m) | Dec. (° ') | Mag. | Size max | Size min | P.A. (°) | Class | NGC Description | Chart No. |
|---------|----------|----------|-------|--------------|-------------|------|---------|----------|-------|------|---------------|----------------|------|-------------|-------------|-------------|------------|----------------------------|--------------|
| | | | | | x | | | NGC 7177 | GALXY | PEG | 22 00.7 | +17 44 | 11.2 | 3.2 m | 2.1 m | 90 | SBb | pB,pS,R,bMN,r,* sp | 39 |
| | | | x | x | | | | NGC 7217 | GALXY | PEG | 22 07.9 | +31 22 | 10.1 | 4 m | 3.4 m | 95 | Sb | B,pL,gbM,er | 39 |
| | | | | | | | | NGC 7265 | GALXY | LAC | 22 22.5 | +36 13 | 12.2 | 2.4 m | 1.9 m | 170 | E-SO | F,vS,R,mbM | 39 |
| | | | | | | | | NGC 7280 | GALXY | PEG | 22 26.5 | +16 09 | 12.1 | 2.1 m | 1.5 m | 78 | SBO-a | F,cS,R,gbM S*,3st n,nf | 39 |
| | | | | | | | | NGC 7286 | GALXY | PEG | 22 27.8 | +29 06 | 12.5 | 1.6 m | 0.7 m | 98 | Sa | vF,S,R,am st | 39 |
| | | | | | | | | NGC 7292 | GALXY | PEG | 22 28.4 | +30 18 | 12.5 | 2.1 m | 1.6 m | 125 | Ir Bar | eF,S,oval,F* inv | 39 |
| | | | | | | | | NGC 7315 | GALXY | PEG | 22 35.5 | +34 48 | 12.5 | 1.6 m | 1.6 m | | SO | vF,eS,R,bM | 39 |
| | C 30 | x | * | x | | 3 | x | NGC 7331 | GALXY | PEG | 22 37.1 | +34 25 | 9.5 | 10.2 m | 4.2 m | 171 | SBc | B,pL,pmE163,smbM | 39 |
| | | | | | x | | | NGC 7332 | GALXY | PEG | 22 37.4 | +23 48 | 11.1 | 3.8 m | 1.1 m | 155 | SO | cB,S,mE156,smbMN,p of 2 | 39 |
| | | | | | | | | NGC 7339 | GALXY | PEG | 22 37.8 | +23 47 | 12.2 | 2.8 m | 0.7 m | 93 | SBbc | F,pS,mE89,vglbM,f of 2 | 39 |
| | | | | | | | | NGC 7426 | GALXY | LAC | 22 56.1 | +36 22 | 12.3 | 1.7 m | 1.4 m | 72 | Elliptical | vF,cS,R,stellar,D* p | 39 |

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| Messier | Caldwell | Best NGC | Clark | Herschel 400 | Herschel-II | RASC | TAAS200 | Object | Type | Con. | R.A. (h m) | Dec. (° ') | Mag. | Size max | Size min | P.A. (°) | Class | NGC Description | Chart No. |
|---------|----------|----------|-------|--------------|-------------|------|---------|------------|-------|------|---------------|---------------|------|-------------|-------------|-------------|------------|--------------------------------------------|--------------|
| | C 42 | | x | x | | | | NGC 7006 | GLOCL | DEL | 21 01.5 | +16 11 | 10.6 | 2.8 m | | | I | B,pL,R,gbM | 40 |
| | | | | | | | | NGC 7013 | GALXY | CYG | 21 03.6 | +29 54 | 11.3 | 4.5 m | 1.4 m | 157 | Sa | pB,cS,R,psbM,pB* np | 40 |
| | | | | | x | | | NGC 7042 | GALXY | PEG | 21 13.8 | +13 34 | 12 | 2 m | 1.8 m | 140 | Sb | vF,S,R | 40 |
| | | | | | | | | PK 72-17.1 | PLNNB | VUL | 21 16.8 | +24 10 | 12.2 | 871 s | 791 s | | 2 | 13"-vF,L,irR,nBM at 100X; UHC filter helps | 40 |
| | | | | | | | | NGC 7052 | GALXY | VUL | 21 18.6 | +26 27 | 12.4 | 2.5 m | 1.5 m | 64 | Elliptical | F,S,vIE,r | 40 |
| | | | | | | | | NGC 7063 | OPNCL | CYG | 21 24.4 | +36 30 | 7 | 8.0 m | | | III 2 p | Cl,P,st10... | 40 |
| M 15 | | | !!* | | | | | NGC 7078 | GLOCL | PEG | 21 30.0 | +12 10 | 6.4 | 12.3 m | | | IV | l,vB,vL,iR,vsmbM,rrr,st vS | 40 |
| | | | | | | | | NGC 7080 | GALXY | VUL | 21 30.0 | +26 43 | 12.3 | 1.8 m | 1.7 m | | SBb | vF,S,vIE | 40 |
| | | | | | | | | NGC 7137 | GALXY | PEG | 21 48.2 | +22 10 | 12.4 | 1.6 m | 1.4 m | | SBc | F,pS,R,vglbM,r | 40 |

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| Messier | Caldwell | Best NGC | Clark | Herschel 400 | Herschel-II | RASC | TAAS200 | Object | Type | Con. | R.A. (h m) | Dec. (° ') | Mag. | Size max | Size min | P.A. (°) | Class | NGC Description | Chart No. | |
|---------|----------|----------|-------|--------------|-------------|------|---------|-----------|-------|------|---------------|---------------|------|-------------|-------------|-------------|----------|-------------------|-----------------------------------------------|----|
| | | | | | x | | | NGC 6857 | BRTNB | CYG | 20 02.8 | +33 31 | 11.4 | 0.8 m | | | E | F,am Milky Way st | 41 | |
| | | | | | | | | Roslund 4 | OPNCL | VUL | 20 04.9 | +29 13 | 10 | | | | IV 2 p n | | 41 | |
| | | | | | | | | NGC 6871 | OPNCL | CYG | 20 05.9 | +35 47 | 5.2 | 20.0 m | | | | IV 3 p n | Cl,st L&S,D* inv | 41 |
| | | | | | | | | Biur 2 | OPNCL | CYG | 20 09.2 | +35 29 | 6.3 | 13.0 m | | | | III 2 p | 13"-pF,pL,sC,nvRi, 22* mags 11..13 at 100X | 41 |
| | | | | | | | | NGC 6879 | PLNNB | SGE | 20 10.4 | +16 55 | 11 | 4.7 s | 4.1 s | | 2a | stellar=10m | 41 | |
| | | | | | | | | NGC 6883 | OPNCL | CYG | 20 11.3 | +35 51 | 8 | 15.0 m | | | | I 3 p n | Cl,pRi,** inv | 41 |
| | C 37 | | | x | | | | NGC 6885 | OPNCL | VUL | 20 11.9 | +26 29 | 8.1 | 7.0 m | | | | III 2 p | Cl,vB,vL,Ri,IC,*6..11 | 41 |
| | | | | x | | | | NGC 6882 | ASTER | VUL | 20 11.9 | +26 40 | 8.1 | 18.0 m | | | | II 2 p | Cl,P,IC | 41 |
| | | | | | | | | NGC 6886 | PLNNB | SGE | 20 12.7 | +19 59 | 12.5 | 4 s | | | | 2(3) | stellar=10m | 41 |
| | | | x | | | | | NGC 6891 | PLNNB | DEL | 20 15.1 | +12 42 | 10.5 | 15.5 s | 7 s | | 2a(2b) | stellar=9.5m | 41 | |
| | | | | | x | | | NGC 6894 | PLNNB | CYG | 20 16.4 | +30 34 | 14.4 | 44 s | 39 s | | 4(2) | ring neb,F,S,vvIE | 41 | |
| | | | | | | | | IC 4997 | PLNNB | SGE | 20 20.1 | +16 44 | 11.3 | 2.0 s | 1.4 s | | 1 | Stellar | 41 | |
| | | | | x | | | | NGC 6905 | PLNNB | DEL | 20 22.4 | +20 06 | 12 | 44 s | 38 s | | 3(3) | B,pS,R,4S* nr | 41 | |

Deep Sky Object List (2/2)

| Messier | Caldwell | Best NGC | Clark | Herschel 400 | Herschel-II | RASC | TAAS200 | Object | Type | Con. | R.A. (h m) | Dec. (° ') | Mag. | Size max | Size min | P.A. (°) | Class | NGC Description | Chart No. |
|---------|----------|----------|-------|--------------|-------------|------|---------|----------|-------|------|---------------|---------------|------|-------------|-------------|-------------|---------|-----------------------------|--------------|
| | | x | x | x | | 106 | x | NGC 6940 | OPNCL | VUL | 20 34.4 | +28 17 | 6.3 | 31 m | | | III 2 m | Cl,vB,vL,vRi,cC | 41 |
| | | | | | | | | NGC 6956 | GALXY | DEL | 20 43.9 | +12 31 | 12.3 | 2 m | 1.9 m | | SBb | vF,S,stell,** att | 41 |
| | C 34 | x | !!* | | x | | x | NGC 6960 | SNREM | CYG | 20 45.7 | +30 43 | 7 | 210 m | 160 m | | | pB,cL,eIF,Kappa Cyg invl | 41 |
| | C 33 | x | !!* | | x | 99 | x | NGC 6992 | SNREM | CYG | 20 56.4 | +31 43 | 7 | 60 m | 8 m | | R | eF,eL,eE,eIF,Bifid | 41 |
| | | | | | | 99 | | NGC 6995 | SNREM | CYG | 20 57.1 | +31 13 | 7 | 12 m | | | R | F,eL,neb&st in groups | 41 |

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| Messier | Caldwell | Best NGC | Clark | Herschel 400 | Herschel-II | RASC | TAAS200 | Object | Type | Con. | R.A. (h m) | Dec. (° ') | Mag. | Size max | Size min | P.A. (°) | Class | NGC Description | Chart No. |
|---------|----------|----------|-------|--------------|-------------|------|---------|------------|-------|------|---------------|---------------|------|-------------|-------------|-------------|---------|----------------------------------------------|--------------|
| M 56 | | | x | | | | | NGC 6779 | GLOCL | LYR | 19 16.6 | +30 11 | 8.3 | 5 m | | | X | B,L,iR,gvmCM,rrr | 42 |
| | | | | | x | | | NGC 6793 | OPNCL | VUL | 19 23.2 | +22 11 | 99.9 | 6 m | | | IV 2 p | Cl,P,IC | 42 |
| | | | | | | | x | Col 399 | OPNCL | VUL | 19 25.4 | +20 11 | 3.6 | 60 m | | | | | 42 |
| | | | | | x | | | NGC 6800 | OPNCL | VUL | 19 27.1 | +25 08 | 99.9 | 5 m | | | III 2 p | Cl,vL,pRi,vIC,st10.. | 42 |
| | | | | x | | 105 | x | NGC 6802 | OPNCL | VUL | 19 30.6 | +20 16 | 8.8 | 3.2 m | | | III 1 m | Cl,L,vC,E0,st14...18 | 42 |
| | | | | | | | | PK 64+ 5.1 | PLNNB | CYG | 19 34.8 | +30 31 | 9.6 | 5 s | | | 4 | vF,S | 42 |
| | | | | | | | | Stock 1 | OPNCL | VUL | 19 35.8 | +25 13 | 5.3 | 60.0 m | | | IV 2 p | 13"-B,vL,nC at 60X; 28* | 42 |
| | | | | | | | | PK 52- 2.2 | PLNNB | AQL | 19 39.1 | +15 56 | 11.8 | 3 s | | | 4 | 13"-pF,vS,R,BM at 165X, averted viz helps | 42 |
| | | | x | | | | | NGC 6820 | CL+NB | VUL | 19 43.1 | +23 17 | 15 | 40 m | 30 m | | E | F,L,Irr | 42 |
| | | | S | x | | | | NGC 6823 | OPNCL | VUL | 19 43.2 | +23 18 | 7.1 | 12.0 m | | | I 3 p n | Cl,cRi,E,st11...12 | 42 |
| | | | | x | | | | NGC 6830 | OPNCL | VUL | 19 51.0 | +23 06 | 7.9 | 12.0 m | | | II 2 p | Cl,L,pRi,pC,*11...12 | 42 |
| | | | x | x | | | | NGC 6834 | OPNCL | CYG | 19 52.2 | +29 24 | 7.8 | 5.0 m | | | II 2 m | Cl,P,IC,*11...12 | 42 |
| | | | | | | | | Harvard 20 | OPNCL | SGE | 19 53.1 | +18 20 | 7.7 | 7.0 m | | | III 2 p | pL,IC,* 11... | 42 |

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| Messier | Caldwell | Best NGC | Clark | Herschel 400 | Herschel-II | RASC | TAAS200 | Object | Type | Con. | R.A. (h m) | Dec. (° ') | Mag. | Size max | Size min | P.A. (°) | Class | NGC Description | Chart No. |
|---------|----------|----------|-------|--------------|-------------|------|---------|----------|-------|------|---------------|----------------|------|-------------|-------------|-------------|-------|----------------------------------|--------------|
| M 71 | | | x | | | | | NGC 6838 | GLOCL | SGE | 19 53.8 | +18 47 | 8.3 | 6.1 m | | | | Cl,vL,vRi,pmC,*11...16 | 42 |
| | | | x | | | | | NGC 6842 | PLNNB | VUL | 19 55.0 | +29 17 | 13.1 | 52.8 s | 48 s | | 3b | F,pL,vIE | 42 |
| M 27 | | | !!* | | | | | NGC 6853 | PLNNB | VUL | 19 59.6 | +22 43 | 7.3 | 480 s | 340 s | | 3(2) | !!vB,vL,bi- N,IE,Dumbbell Neb | 42 |

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| Messier | Caldwell | Best NGC | Clark | Herschel 400 | Herschel-II | RASC | TAAS200 | Object | Type | Con. | R.A. (h m) | Dec. (° ') | Mag. | Size max | Size min | P.A. (°) | Class | NGC Description | Chart No. |
|---------|----------|----------|-------|--------------|-------------|------|---------|------------|-------|------|---------------|---------------|------|-------------|-------------|-------------|---------|--------------------------------------------------|--------------|
| | | | | | x | | | NGC 6548 | GALXY | HER | 18 06.0 | +18 35 | 11.7 | 2.9 m | 2.8 m | | SBO | cF,S,IE,r | 43 |
| | | | | | | | | NGC 6555 | GALXY | HER | 18 07.8 | +17 36 | 12.4 | 2.1 m | 1.7 m | 110 | SBc | F,L,R,vglbM | 43 |
| | | | | | | | | NGC 6574 | GALXY | HER | 18 11.9 | +14 59 | 12 | 1.5 m | 1.1 m | 160 | SBbc | pB,S,R | 43 |
| | | | | | | | | NGC 6632 | GALXY | HER | 18 25.1 | +27 32 | 12.1 | 3 m | 1.4 m | 155 | Sbc | F,S,R,gbM | 43 |
| | | | | | | | | NGC 6661 | GALXY | HER | 18 34.6 | +22 55 | 12.1 | 1.8 m | 1.1 m | 145 | Sa | F,vS,R,gbM | 43 |
| | | | | | | | | NGC 6674 | GALXY | HER | 18 38.6 | +25 22 | 12.2 | 4.2 m | 2.1 m | 143 | SBb | F,pS,iR,bM | 43 |
| | | | | | | | | PK 51+ 9.1 | PLNNB | HER | 18 49.8 | +20 50 | 11.6 | 3 s | | | | | 43 |
| | | | | | | | | Steph 1 | OPNCL | LYR | 18 53.5 | +36 55 | 3.8 | 20.0 m | | | III 3 p | 13"-B,pL,nRi,nC at 100X; 15* and Delta LYR | 43 |
| M 57 | | | !!* | | | | | NGC 6720 | PLNNB | LYR | 18 53.6 | +33 02 | 9.4 | 86 s | 62 s | | 4(3) | Ring neb,B,pL,cE | 43 |

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|---------|----------|----------|-------|--------------|-------------|------|---------|------------|-------|------|---------------|---------------|------|-------------|-------------|-------------|------------|-------------------|--------------|
| | | | | | | | | NGC 6278 | GALXY | HER | 17 00.8 | +23 01 | 12.4 | 2.1 m | 1.2 m | 130 | SO | vF,stellar | 44 |
| | | | | | | | | NGC 6389 | GALXY | HER | 17 32.7 | +16 24 | 12.1 | 2.8 m | 1.9 m | 130 | Sbc | F,S,iF,eR | 44 |
| | | | | | | | | NGC 6467 | GALXY | HER | 17 50.7 | +17 32 | 12.5 | 2.6 m | 1.7 m | 77 | S pec | vF,vS,IE | 44 |
| | | | | | | | | NGC 6482 | GALXY | HER | 17 51.8 | +23 04 | 11.4 | 2.1 m | 1.8 m | 70 | E3p | vF,S,R,vsmbM,vSRN | 44 |
| | | | | | | | | NGC 6484 | GALXY | HER | 17 51.8 | +24 29 | 12.3 | 1.9 m | 1.8 m | | Sb | eF,vS,R,mbM | 44 |
| | | | | | | | | NGC 6487 | GALXY | HER | 17 52.7 | +29 50 | 11.9 | 1.9 m | 1.7 m | | Elliptical | F,S,R,gbM | 44 |
| | | | | | | | | PK 53+24.1 | PLNNB | HER | 17 54.4 | +28 00 | 12 | 5.2 s | 4.1 s | | 2 | | 44 |
| | | | | | | | | NGC 6495 | GALXY | HER | 17 54.8 | +18 20 | 12.2 | 2 m | 1.8 m | | Elliptical | F,S,R | 44 |
| | | | | | | | | NGC 6500 | GALXY | HER | 17 56.0 | +18 20 | 12.1 | 2.2 m | 1.6 m | 50 | Sab | vF,vS,sp of 2 | 44 |
| | | | | | | | | NGC 6501 | GALXY | HER | 17 56.1 | +18 22 | 12 | 1.8 m | 1.6 m | | Sa | vF,vS,nf of 2 | 44 |
| | | | | | | | | NGC 6504 | GALXY | HER | 17 56.1 | +33 12 | 12.5 | 2.2 m | 0.5 m | 94 | S pec | F,vmE,sbM | 44 |

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|---------|----------|----------|-------|--------------|-------------|------|---------|----------|-------|------|---------------|---------------|------|-------------|-------------|-------------|------------|-----------------------|--------------|
| | | | | | | | | IC 4593 | PLNNB | HER | 16 11.7 | +12 04 | 11 | 12.5 s | 10 s | | 2(2) | S,F,Stellar | 45 |
| | | | | | x | | | NGC 6181 | GALXY | HER | 16 32.3 | +19 50 | 11.9 | 2.5 m | 1.1 m | 175 | SBc | pB,pL,vIE,pgmbM | 45 |
| M 13 | | | !!!* | | | | | NGC 6205 | GLOCL | HER | 16 41.7 | +36 28 | 5.9 | 23.2 m | | | V | !!eB,vRi,vgeCM,*11... | 45 |
| | | x | x | x | | | | NGC 6207 | GALXY | HER | 16 43.1 | +36 50 | 11.6 | 3 m | 1.2 m | 15 | Sc | pB,pL,E45,vgmbM | 45 |
| | | x | x | | | 90 | x | NGC 6210 | PLNNB | HER | 16 44.5 | +23 48 | 9.7 | 20 s | 13 s | | 2(3b) | vB,vS,R,disc | 45 |
| | | | | | | | | NGC 6269 | GALXY | HER | 16 58.0 | +27 51 | 12.2 | 2 m | 1.6 m | 80 | Elliptical | F,S,R | 45 |

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|---------|----------|----------|-------|--------------|-------------|------|---------|----------|-------|------|---------------|---------------|------|-------------|-------------|-------------|----------|---------------------|--------------|
| | | | | | | | | NGC 5859 | GALXY | BOO | 15 07.6 | +19 35 | 12.4 | 3 m | 0.8 m | 136 | SBbc | pF,pS,E,f of Dneb | 46 |
| | | | | | | | | NGC 5928 | GALXY | SER | 15 26.0 | +18 04 | 12.2 | 2.2 m | 1.6 m | 105 | SO | pB,cS,R,psbM,*7n | 46 |
| | | | | | | | | NGC 5936 | GALXY | SER | 15 30.0 | +12 59 | 12.5 | 1.3 m | 1.3 m | | SBb Ring | F,pL,iR,vgbM,r | 46 |
| | | | | | | | | NGC 5957 | GALXY | SER | 15 35.4 | +12 03 | 11.7 | 3.1 m | 3 m | | SBb | pB,pL,com,lbM | 46 |
| | | | x | | | | | NGC 5962 | GALXY | SER | 15 36.5 | +16 36 | 11.3 | 3 m | 2.2 m | 110 | Sc | pF,pL,iE,gbM | 46 |
| | | | | | x | | | NGC 5970 | GALXY | SER | 15 38.5 | +12 11 | 11.5 | 3 m | 2 m | 88 | SBc | pF,pL,R,rr | 46 |
| | | | | | | | | NGC 5984 | GALXY | SER | 15 42.9 | +14 14 | 12.5 | 2.9 m | 0.7 m | 144 | SBcd | pB,S,E135,bM | 46 |
| | | | | | | | | NGC 6004 | GALXY | SER | 15 50.4 | +18 56 | 12.3 | 1.8 m | 1.7 m | 105 | SBc | vF,pL,IE,lbM | 46 |
| | | | | | | | | NGC 6012 | GALXY | SER | 15 54.2 | +14 36 | 12 | 2.1 m | 1.5 m | 168 | SBab | F,bet 2B st | 46 |
| | | | x | | | | | NGC 6027 | GALXY | SER | 15 59.2 | +20 46 | 14.3 | 1.9 m | 1 m | | Sp | eF,vF*inv,2vF st nr | 46 |

Deep Sky Object List (1/2)

| Messier | Caldwell | Best NGC | Clark | Herschel 400 | Herschel-II | RASC | TAAS200 | Object | Type | Con. | R.A. (h m) | Dec. (° ') | Mag. | Size max | Size min | P.A. (°) | Class | NGC Description | Chart No. |
|---------|----------|----------|-------|--------------|-------------|------|---------|----------|-------|------|---------------|---------------|------|-------------|-------------|-------------|---------|-----------------------|--------------|
| | | | | | x | | | NGC 5440 | GALXY | CVN | 14 03.0 | +34 45 | 12.3 | 3.1 m | 1.2 m | 50 | Sa | pF,cS,IE,bM,*11 sp | 47 |
| | | | | | x | | | NGC 5444 | GALXY | CVN | 14 03.4 | +35 08 | 11.9 | 2.5 m | 2 m | 90 | E1 | pB,pL,IE,vsmbM | 47 |
| | | | | | x | | | NGC 5445 | GALXY | CVN | 14 03.5 | +35 01 | 13 | 1.5 m | 0.7 m | 27 | SO | F,*13p | 47 |
| | | | x | x | | 86 | | NGC 5466 | GLOCL | BOO | 14 05.5 | +28 32 | 9.1 | 9.2 m | | | XII | Cl,L,vRi,vmC,st 11... | 47 |
| | | | | | x | | | NGC 5490 | GALXY | BOO | 14 10.0 | +17 33 | 12.1 | 2.5 m | 2.3 m | 5 | E2 | cF,cS,R,sbMF** | 47 |
| | | | | | x | | | NGC 5523 | GALXY | BOO | 14 14.9 | +25 19 | 12.1 | 4.7 m | 1.3 m | 99 | Sc | F,pL,pmE90,*10 np | 47 |
| | | | | | x | | | NGC 5529 | GALXY | BOO | 14 15.6 | +36 14 | 11.9 | 6 m | 0.7 m | 115 | Sc | cF,pL,vmE110,vgvmBM | 47 |
| | | | | | x | | | NGC 5533 | GALXY | BOO | 14 16.1 | +35 21 | 11.8 | 3.1 m | 1.9 m | 30 | Sab | pB,R,vsmbM,2or3*inv | 47 |
| | | | | | x | | | NGC 5548 | GALXY | BOO | 14 18.0 | +25 08 | 12.6 | 1.5 m | 1.2 m | 110 | Sa Ring | cF,pS,R,vsmbM* | 47 |
| | | | | x | | | | NGC 5557 | GALXY | BOO | 14 18.4 | +36 30 | 11 | 2.4 m | 1.9 m | 105 | E1 | cB,S,R,vsbM* | 47 |
| | | | | | x | | | NGC 5590 | GALXY | BOO | 14 21.6 | +35 12 | 12.3 | 1.8 m | 1.8 m | | SO | cF,S,R,bM*,sf of 2 | 47 |
| | | | | | | | | NGC 5587 | GALXY | BOO | 14 22.2 | +13 55 | 12.5 | 2.6 m | 0.8 m | 162 | Sa | F,cS,vIE,*8 sf | 47 |
| | | | | | x | | | NGC 5600 | GALXY | BOO | 14 23.8 | +14 38 | 12.1 | 1.5 m | 1.5 m | | Sc | pB,pS,gbM | 47 |

Deep Sky Object List (2/2)

| Messier | Caldwell | Best NGC | Clark | Herschel 400 | Herschel-II | RASC | TAAS200 | Object | Type | Con. | R.A. (h m) | Dec. (° ') | Mag. | Size max | Size min | P.A. (°) | Class | NGC Description | Chart No. |
|---------|----------|----------|-------|--------------|-------------|------|---------|----------|-------|------|---------------|---------------|------|-------------|-------------|-------------|------------|-----------------|--------------|
| | | | x | | | | | NGC 5614 | GALXY | BOO | 14 24.1 | +34 52 | 11.7 | 2.4 m | 2 m | 160 | Sab | pB,S,R,smbM | 47 |
| | | | | | | | | NGC 5623 | GALXY | BOO | 14 27.1 | +33 15 | 12.5 | 1.6 m | 1.1 m | 17 | Elliptical | cF,S,R,vsmbM,r | 47 |
| | | | | | | | | IC 1014 | GALXY | BOO | 14 28.3 | +13 47 | 12.5 | 2.7 m | 2 m | 90 | SBd | F,pL,R,gbM | 47 |
| | | | | | | | | NGC 5629 | GALXY | BOO | 14 28.3 | +25 51 | 12.1 | 1.8 m | 1.8 m | | SO | pF,S,R,gbM | 47 |
| | | | | | | | | NGC 5635 | GALXY | BOO | 14 28.5 | +27 25 | 12.5 | 2.3 m | 1.1 m | 65 | Sb | F,S,E,sbM | 47 |
| | | | | | | | | NGC 5641 | GALXY | BOO | 14 29.3 | +28 49 | 12.2 | 2.4 m | 1.3 m | 158 | SBab | pB,pS,IE,mbM,r? | 47 |
| | | | | | | | | NGC 5653 | GALXY | BOO | 14 30.2 | +31 13 | 12.2 | 1.7 m | 1.3 m | 125 | Sb Ring | pF,pS,R,bM | 47 |
| | | | | | | | | NGC 5656 | GALXY | BOO | 14 30.4 | +35 19 | 11.8 | 1.9 m | 1.5 m | 50 | Sab | pF,pL,R,mbM,r | 47 |
| | | | | | | | | NGC 5735 | GALXY | BOO | 14 42.6 | +28 44 | 12.3 | 2.4 m | 1.9 m | 40 | SBbc Ring | vF,L,iR,lbM | 47 |

Deep Sky Object List (1/2)

| Messier | Caldwell | Best NGC | Clark | Herschel 400 | Herschel-II | RASC | TAAS200 | Object | Type | Con. | R.A. (h m) | Dec. (° ') | Mag. | Size max | Size min | P.A. (°) | Class | NGC Description | Chart No. |
|---------|----------|----------|-------|--------------|-------------|------|---------|----------|-------|------|---------------|---------------|------|-------------|-------------|-------------|------------|---------------------------------|--------------|
| | C 35 | | x | | | | | NGC 4889 | GALXY | COM | 13 00.1 | +27 59 | 11.5 | 2.8 m | 2 m | 80 | Elliptical | pB,pmE,bM,*7 n | 48 |
| | | | | | | | | NGC 4884 | GALXY | COM | 13 00.1 | +27 59 | 12.5 | 2.8 m | 2 m | 80 | Elliptical | chief one of mult neb,=4889? | 48 |
| | | | | | x | | | NGC 4880 | GALXY | VIR | 13 00.2 | +12 29 | 11.4 | 3.1 m | 2.5 m | 165 | SBO-a | cF,pL,R,vglbM,r | 48 |
| | | | | | | | | NGC 4921 | GALXY | COM | 13 01.4 | +27 53 | 12.2 | 2.4 m | 2.1 m | 165 | SBab | F,pL,3 of 4 | 48 |
| | | | | | | | | NGC 4952 | GALXY | COM | 13 05.0 | +29 07 | 12.4 | 1.3 m | 0.8 m | 23 | Elliptical | F,S,R,psbM *11 | 48 |
| | | | | | x | | | NGC 4956 | GALXY | CVN | 13 05.0 | +35 11 | 12.4 | 1.5 m | 1.5 m | | SO | pB,cS,R,smbM | 48 |
| | | | | | x | | | NGC 5012 | GALXY | COM | 13 11.6 | +22 55 | 12.2 | 2.9 m | 1.7 m | 10 | SBc Ring | pF,cL,E17,bi-N,*9 f | 48 |
| | | | | | x | | | NGC 5020 | GALXY | VIR | 13 12.7 | +12 36 | 11.7 | 3.1 m | 2.7 m | 85 | SBbc Ring | cF,cL,vIE,lbM | 48 |
| M 53 | | | x | | | | | NGC 5024 | GLOCL | COM | 13 12.9 | +18 10 | 7.7 | 14.4 m | | | V | !B,vC,iR,vvmbM,st 12... | 48 |
| | | x | x | x | | 67 | x | NGC 5033 | GALXY | CVN | 13 13.5 | +36 36 | 10.2 | 9.8 m | 3.6 m | 170 | Sc | vB,pL,E167,smbM,vBN | 48 |
| | | | | | x | | | NGC 5056 | GALXY | COM | 13 16.2 | +30 57 | 13.1 | 1.8 m | 1 m | 0 | Sc | cF,cS,R,sp of 2 | 48 |
| | | | x | | x | | | NGC 5053 | GLOCL | COM | 13 16.5 | +17 42 | 9.8 | 8.9 m | | | XI | Cl,vF,pL,iR,vgbM,st 15 | 48 |
| | | | | | | | | NGC 5127 | GALXY | CVN | 13 23.8 | +31 34 | 11.9 | 2.3 m | 1.7 m | 75 | E2p | pB,pL,R,gmbM,**p | 48 |

Deep Sky Object List (2/2)

| Messier | Caldwell | Best NGC | Clark | Herschel 400 | Herschel-II | RASC | TAAS200 | Object | Type | Con. | R.A. (h m) | Dec. (° ') | Mag. | Size max | Size min | P.A. (°) | Class | NGC Description | Chart No. |
|---------|----------|----------|-------|--------------|-------------|------|---------|----------|-------|------|---------------|---------------|------|-------------|-------------|-------------|------------|-----------------------|--------------|
| | | | | | x | | | NGC 5129 | GALXY | VIR | 13 24.2 | +13 59 | 12.1 | 1.7 m | 1.4 m | 10 | Elliptical | pB,vS,R,gmbM,**f | 48 |
| | | | | | | | | NGC 5172 | GALXY | COM | 13 29.3 | +17 03 | 11.9 | 3.4 m | 1.8 m | 103 | SBbc | F,pL,R,gbM | 48 |
| | | | | | | | | NGC 5230 | GALXY | VIR | 13 35.5 | +13 40 | 12.1 | 2.1 m | 1.9 m | | SBc | F,L,E,vgbM,3rd of 3 | 48 |
| | | | | x | | | | NGC 5273 | GALXY | CVN | 13 42.1 | +35 39 | 11.6 | 2.7 m | 2.2 m | 10 | SO | cB,pL,R,g,psmbM | 48 |
| M 3 | | | ! | | | | | NGC 5272 | GLOCL | CVN | 13 42.2 | +28 23 | 6.4 | 18.6 m | | | VI | !!eB,vL,vsmbM,st 11.. | 48 |
| | | | | | | | | NGC 5375 | GALXY | CVN | 13 56.9 | +29 10 | 11.5 | 3.3 m | 2.8 m | 80 | SBab | pB,pL,R,lbM | 48 |

Deep Sky Object List (1/10)

| Messier | Caldwell | Best NGC | Clark | Herschel 400 | Herschel-II | RASC | TAAS200 | Object | Type | Con. | R.A. (h m) | Dec. (° ') | Mag. | Size max | Size min | P.A. (°) | Class | NGC Description | Chart No. |
|---------|----------|----------|-------|--------------|-------------|------|---------|----------|-------|------|---------------|---------------|------|-------------|-------------|-------------|------------|----------------------------------|--------------|
| | | | | | | | | NGC 4032 | GALXY | COM | 12 00.5 | +20 04 | 12.3 | 1.9 m | 1.8 m | | lr | pF,pL,R,gbM,*12 nf | 49 |
| | | | | | | | | NGC 4037 | GALXY | COM | 12 01.4 | +13 24 | 11.9 | 2.4 m | 2.2 m | | SBb | eF,pL,R,r | 49 |
| | | | | | x | | | NGC 4062 | GALXY | UMA | 12 04.1 | +31 54 | 11.1 | 4 m | 1.8 m | 100 | SBc | pB,vL,mE97,vgbM,vsBN | 49 |
| | | | | | | | | NGC 4064 | GALXY | COM | 12 04.2 | +18 27 | 11.4 | 4.6 m | 1.7 m | 150 | SBa | B,E,gbM | 49 |
| | | | | | | | | NGC 4104 | GALXY | COM | 12 06.6 | +28 10 | 12.1 | 2.6 m | 1.6 m | 35 | SBO | pB,pS,IE,bM | 49 |
| | | | | | x | | | NGC 4136 | GALXY | COM | 12 09.3 | +29 56 | 11 | 3.9 m | 3.6 m | | SBc Ring | F,vL,vgmbM | 49 |
| | | | x | x | | | | NGC 4147 | GLOCL | COM | 12 10.1 | +18 33 | 10.3 | 4.0 m | | | VI | vB,pL,R,gbM,rrr | 49 |
| | | | | | | | | NGC 4153 | GLOCL | COM | 12 10.1 | +18 33 | 10.3 | 4.1 m | | | VI | B,pL,E,bM | 49 |
| | | | | x | | | | NGC 4150 | GALXY | COM | 12 10.6 | +30 24 | 11.6 | 2.3 m | 1.6 m | 147 | SO | B,S,R,pgmbM,vsvBN | 49 |
| | | | | | x | | | NGC 4152 | GALXY | COM | 12 10.6 | +16 02 | 12.2 | 2.3 m | 1.9 m | 115 | SBc | pB,pL,R,pgmbM,r | 49 |
| | | | | | | | | NGC 4158 | GALXY | COM | 12 11.2 | +20 11 | 12.1 | 2 m | 1.8 m | | Sb | F,pS,IE,bM,pB* sf,vBN | 49 |
| | | | | | | | | NGC 4162 | GALXY | COM | 12 11.9 | +24 07 | 12.2 | 2.3 m | 1.4 m | 174 | Sbc | B,L,iE,bM,vBN w * att. @ 0.2' | 49 |
| | | | | | x | | | NGC 4168 | GALXY | VIR | 12 12.3 | +13 12 | 11.2 | 2.8 m | 2.2 m | | Elliptical | pB,pL,iF,psbM,r,* inv | 49 |

Deep Sky Object List (2/10)

| Messier | Caldwell | Best NGC | Clark | Herschel 400 | Herschel-II | RASC | TAAS200 | Object | Type | Con. | R.A. (h m) | Dec. (° ') | Mag. | Size max | Size min | P.A. (°) | Class | NGC Description | Chart No. |
|---------|----------|----------|-------|--------------|-------------|------|---------|----------|-------|------|---------------|---------------|------|-------------|-------------|-------------|------------|---------------------------|--------------|
| | | | | | x | | | NGC 4169 | GALXY | COM | 12 12.3 | +29 11 | 12.2 | 1.8 m | 0.9 m | 153 | SO | F,S,1st of 4 | 49 |
| | | | | | x | | | NGC 4185 | GALXY | COM | 12 13.4 | +28 31 | 12.1 | 2.6 m | 2 m | 165 | SBbc Ring | cF,L,R,gbM | 49 |
| M 98 | | | x | | | | | NGC 4192 | GALXY | COM | 12 13.8 | +14 54 | 10.1 | 9.4 m | 2.3 m | 155 | SBb | B,vL,vmE152,vsvmbM | 49 |
| | | | | | x | | | NGC 4189 | GALXY | COM | 12 13.8 | +13 25 | 11.7 | 2.5 m | 1.7 m | 85 | SBc | F,L,IE,vglbM,r | 49 |
| | | | | | | | | NGC 4193 | GALXY | VIR | 12 13.9 | +13 10 | 12.3 | 2.2 m | 1.1 m | 93 | SBbc | vF,pL,E,vgbM | 49 |
| | | | | x | | | | NGC 4203 | GALXY | COM | 12 15.1 | +33 12 | 10.9 | 3.5 m | 3.2 m | 10 | E-SO Bar | vB,S,R,psmbM | 49 |
| | | | | | | | | NGC 4204 | GALXY | COM | 12 15.2 | +20 40 | 12.4 | 3.6 m | 2.9 m | 130 | SBd | vF,cL,iR,vgbM | 49 |
| | | | | | | | | NGC 4206 | GALXY | VIR | 12 15.3 | +13 01 | 12.1 | 6.4 m | 1.1 m | 0 | Sbc | F,vmE | 49 |
| | | x | x | x | | 60 | x | NGC 4214 | GALXY | CVN | 12 15.6 | +36 20 | 9.8 | 8.4 m | 7.2 m | 155 | lr | cB,cL,iE,biN,=NGC 4208 | 49 |
| | | | | | | | | NGC 4213 | GALXY | COM | 12 15.6 | +23 59 | 12.5 | 1.7 m | 1.7 m | | Elliptical | cF,vS,R | 49 |
| | | | | | x | | | NGC 4212 | GALXY | COM | 12 15.7 | +13 54 | 11.2 | 3.2 m | 2 m | 75 | Sc | B,L,E107,g,sbM,r | 49 |
| | | x | x | x | | 76 | x | NGC 4216 | GALXY | VIR | 12 15.9 | +13 09 | 10 | 7.8 m | 1.8 m | 19 | SBb | vB,vL,vmE17,sbMN | 49 |
| | | | | | x | | | NGC 4237 | GALXY | COM | 12 17.2 | +15 19 | 11.6 | 2.1 m | 1.4 m | 108 | SBbc Ring | pB,pL,IE,vgbM,r | 49 |

Deep Sky Object List (3/10)

| Messier | Caldwell | Best NGC | Clark | Herschel 400 | Herschel-II | RASC | TAAS200 | Object | Type | Con. | R.A. (h m) | Dec. (° ') | Mag. | Size max | Size min | P.A. (°) | Class | NGC Description | Chart No. |
|---------|----------|----------|-------|--------------|-------------|------|---------|----------|-------|------|---------------|---------------|------|-------------|-------------|-------------|------------|--------------------------------------|--------------|
| | | | | x | | | | NGC 4245 | GALXY | COM | 12 17.6 | +29 36 | 11.4 | 3.3 m | 2.4 m | 165 | SBO-a Ring | cB,pL,vIE,smbM,r,vsvBN | 49 |
| | | | x | x | | | | NGC 4251 | GALXY | COM | 12 18.1 | +28 10 | 10.7 | 3.6 m | 2.5 m | 100 | SBO Ring | vB,S,E,vsymbMN,*6-7 f 90" | 49 |
| M 99 | | | * | | | | | NGC 4254 | GALXY | COM | 12 18.8 | +14 25 | 9.9 | 5.3 m | 4.6 m | 40 | Sc | l,B,L,R,gbM,r,3 branch spiral | 49 |
| | | | | | | | | NGC 4262 | GALXY | COM | 12 19.5 | +14 53 | 11.6 | 1.8 m | 1.6 m | | E-SO Bar | B,S,R,r | 49 |
| | | x | x | x | | 68 | x | NGC 4274 | GALXY | COM | 12 19.8 | +29 37 | 10.4 | 6.8 m | 2.4 m | 102 | SBab Ring | vB,vL,E90,mbMN | 49 |
| | | | | | x | | | NGC 4267 | GALXY | VIR | 12 19.8 | +12 48 | 10.9 | 3 m | 2.8 m | | E-SO Bar | pB,vS,R,vsmbM | 49 |
| | | | | x | | | | NGC 4278 | GALXY | COM | 12 20.1 | +29 17 | 10.2 | 4 m | 3.9 m | | Elliptical | vB,pL,R,mbM,r,1 of 3 | 49 |
| | | | | | | | | NGC 4283 | GALXY | COM | 12 20.3 | +29 19 | 12.1 | 1.4 m | 1.4 m | | Elliptical | B,S,R,bM,2 of 3,svB center | 49 |
| | | | x | x | | | x | NGC 4293 | GALXY | COM | 12 21.2 | +18 23 | 10.4 | 5.5 m | 2.9 m | 72 | SBO-a | F,vL,E,lbM,r,vsBN | 49 |
| | | | x | | x | | | NGC 4298 | GALXY | COM | 12 21.5 | +14 36 | 11.3 | 3.2 m | 1.9 m | 140 | Sc | F,L,E,vgbM,p of 2 | 49 |
| | | | x | | x | | | NGC 4302 | GALXY | COM | 12 21.7 | +14 36 | 11.6 | 5.3 m | 1 m | 178 | Sc | L,vmE177,f of 2 | 49 |
| | | | | | x | | | NGC 4310 | GALXY | COM | 12 22.4 | +29 12 | 12.2 | 2.4 m | 1.3 m | 128 | SBO-a Ring | F,cL,IE,n of 2 | 49 |
| | | | | x | | | | NGC 4314 | GALXY | COM | 12 22.5 | +29 54 | 10.6 | 3.9 m | 3.7 m | | SBa | cB,L,E150,sbM,* np,eBN w spir struct | 49 |

Deep Sky Object List (4/10)

| Messier | Caldwell | Best NGC | Clark | Herschel 400 | Herschel-II | RASC | TAAS200 | Object | Type | Con. | R.A. (h m) | Dec. (° ') | Mag. | Size max | Size min | P.A. (°) | Class | NGC Description | Chart No. |
|---------|----------|----------|-------|--------------|-------------|------|---------|----------|-------|------|---------------|---------------|------|-------------|-------------|-------------|------------|-----------------------------------------------|--------------|
| | | | | | x | | | NGC 4312 | GALXY | COM | 12 22.5 | +15 32 | 11.7 | 4.6 m | 1.1 m | 170 | Sab | pB,cL,E,gbM | 49 |
| M100 | | | * | | | | | NGC 4321 | GALXY | COM | 12 22.9 | +15 49 | 9.4 | 7.5 m | 6.1 m | 30 | SBbc | pF,vL,R,vg,psbMrN,spir al-Rosse | 49 |
| | | | | | x | | | NGC 4336 | GALXY | COM | 12 23.5 | +19 26 | 12.5 | 2 m | 0.9 m | 162 | SBO-a | vF,pL,iR,biN? | 49 |
| | | | x | | x | | | NGC 4340 | GALXY | COM | 12 23.6 | +16 43 | 11.2 | 3.1 m | 2.3 m | 102 | SBO-a Ring | pB,S,R,psbM | 49 |
| | | | | | | | | NGC 4344 | GALXY | COM | 12 23.6 | +17 32 | 12.3 | 1.4 m | 1.4 m | | SBO | vF,pS,R,vglbM,tri 2* | 49 |
| | | | x | x | | | | NGC 4350 | GALXY | COM | 12 24.0 | +16 42 | 11 | 2.9 m | 1.6 m | 28 | SO | cB,vS,mE,vsbM | 49 |
| | | | | | x | | | NGC 4359 | GALXY | COM | 12 24.2 | +31 31 | 12.7 | 3.5 m | 0.8 m | 108 | SBc | cF,pmE90,vlbM | 49 |
| | | | | | | | x | Mel 111 | OPNCL | COM | 12 25.0 | +26 00 | 1.8 | 275 m | | | II 3 p | 10X50-eB,eL,nRi,nC; 32* in arrowhead shape | 49 |
| M 84 | | | * | | | | | NGC 4374 | GALXY | VIR | 12 25.1 | +12 53 | 9.1 | 6.7 m | 6 m | 135 | E1 | vB,pL,R,psbM | 49 |
| | | | | | | | | NGC 4377 | GALXY | COM | 12 25.2 | +14 46 | 11.9 | 1.7 m | 1.3 m | 177 | E-SO | B,S,R,smbM | 49 |
| | | | | | x | | | NGC 4379 | GALXY | COM | 12 25.2 | +15 36 | 11.7 | 2 m | 1.6 m | 105 | E-SO | pS,R,psbMN | 49 |
| M 85 | | | x | | | | | NGC 4382 | GALXY | COM | 12 25.4 | +18 11 | 9.1 | 7.4 m | 5.9 m | 5 | Sa | vB,pL,R,bM,* np | 49 |
| | | | | | | | | NGC 4383 | GALXY | COM | 12 25.4 | +16 28 | 12.1 | 2 m | 1 m | 28 | Sa | eS,stellar or neb,*11-12 | 49 |

Deep Sky Object List (5/10)

| Messier | Caldwell | Best NGC | Clark | Herschel 400 | Herschel-II | RASC | TAAS200 | Object | Type | Con. | R.A. (h m) | Dec. (° ') | Mag. | Size max | Size min | P.A. (°) | Class | NGC Description | Chart No. |
|---------|----------|----------|-------|--------------|-------------|------|---------|----------|-------|------|---------------|---------------|------|-------------|-------------|-------------|------------|-------------------------------------|--------------|
| | | | * | | | | | NGC 4387 | GALXY | VIR | 12 25.7 | +12 49 | 12.1 | 1.7 m | 1.1 m | 140 | Elliptical | pF,vS,R,*13 np 90",np of 2 | 49 |
| | | x | * | | | 77 | | NGC 4388 | GALXY | VIR | 12 25.8 | +12 40 | 11 | 5.6 m | 1.5 m | 92 | Sb | vF,E,sf of 2 | 49 |
| | | | x | | x | | | NGC 4395 | GALXY | CVN | 12 25.8 | +33 33 | 10.2 | 12.3 m | 10 m | 147 | SB Ring | eF,vL,np of Dneb | 49 |
| | | | x | x | | | | NGC 4394 | GALXY | COM | 12 25.9 | +18 13 | 10.9 | 3.4 m | 3.2 m | 160 | SBab | pB,IE,bM | 49 |
| | | | | | | | | NGC 4393 | GALXY | COM | 12 25.9 | +27 34 | 12.1 | 3.2 m | 3 m | | SBcd | vF,vL,iF,B* p | 49 |
| | | | * | | | | | NGC 4402 | GALXY | VIR | 12 26.1 | +13 07 | 11.8 | 3.6 m | 1.1 m | 90 | Sb | F,L,mE90 | 49 |
| | | | | | | | | NGC 4405 | GALXY | COM | 12 26.1 | +16 11 | 12 | 1.6 m | 1.1 m | 20 | Sa | pF,S,R,vsbM,r | 49 |
| M 86 | | | * | | | | | NGC 4406 | GALXY | VIR | 12 26.2 | +12 57 | 8.9 | 9.8 m | 6.3 m | 130 | E3 | vB,L,R,gbMN | 49 |
| | | x | x | x | | 69 | x | NGC 4414 | GALXY | COM | 12 26.5 | +31 13 | 10.1 | 3.6 m | 2 m | 155 | Sc | vB,L,E,g,vsmbM*,B diff N in B bulge | 49 |
| | | | * | | | | | NGC 4413 | GALXY | VIR | 12 26.5 | +12 37 | 12.3 | 2.3 m | 1.4 m | 60 | SBab Ring | cF,S,gbM,2* n,np | 49 |
| | | | | x | | | | NGC 4419 | GALXY | COM | 12 26.9 | +15 03 | 11.2 | 3.3 m | 1.2 m | 133 | SBa | B,pmE135,sbM | 49 |
| | | | | | | | | NGC 4421 | GALXY | COM | 12 27.0 | +15 28 | 11.6 | 2.7 m | 2 m | 20 | SBO-a | pB,pL,pgbM,B* np | 49 |
| | | | * | | | | | NGC 4425 | GALXY | VIR | 12 27.2 | +12 44 | 11.8 | 2.8 m | 1 m | 27 | SBO-a | pF,S,R,bM | 49 |

Deep Sky Object List (6/10)

| Messier | Caldwell | Best NGC | Clark | Herschel 400 | Herschel-II | RASC | TAAS200 | Object | Type | Con. | R.A. (h m) | Dec. (° ') | Mag. | Size max | Size min | P.A. (°) | Class | NGC Description | Chart No. |
|---------|----------|----------|-------|--------------|-------------|------|---------|----------|-------|------|---------------|---------------|------|-------------|-------------|-------------|------------|------------------------|--------------|
| | | | * | x | | | x | NGC 4435 | GALXY | VIR | 12 27.7 | +13 05 | 10.8 | 3 m | 2.2 m | 13 | SBO | vB,cL,R,np of 2 | 49 |
| | | x | * | x | | 78 | x | NGC 4438 | GALXY | VIR | 12 27.8 | +13 00 | 10.2 | 8.5 m | 3 m | 27 | Sa | B,cL,vIE,r,sf of 2 | 49 |
| | | | | | | | | NGC 4440 | GALXY | VIR | 12 27.9 | +12 18 | 11.7 | 1.8 m | 1.6 m | | SBa | B,pS,R,bM,r | 49 |
| | | | x | x | | | | NGC 4448 | GALXY | COM | 12 28.3 | +28 37 | 11.1 | 3.6 m | 1.3 m | 94 | SBab Ring | B,L,E90,sbM | 49 |
| | | | x | x | | | | NGC 4450 | GALXY | COM | 12 28.5 | +17 05 | 10.1 | 5.4 m | 4.1 m | 175 | Sab | B,L,R,gvmbM*,r,B* sp | 49 |
| | | | | | | | | NGC 4455 | GALXY | COM | 12 28.7 | +22 49 | 12.3 | 2.6 m | 0.8 m | 16 | SBcd | F,L,E,gbM,2 B* nf | 49 |
| | | | * | x | | | | NGC 4459 | GALXY | COM | 12 29.0 | +13 59 | 10.4 | 4 m | 3.1 m | 110 | Sa | pB,pL,iR,bM,r,*8 sf 2' | 49 |
| | | | * | | | | | NGC 4461 | GALXY | VIR | 12 29.0 | +13 11 | 11.2 | 3.4 m | 1.4 m | 9 | SBO-a | pF,S,R,bM,f of 2 | 49 |
| | | | * | | | | | NGC 4458 | GALXY | VIR | 12 29.0 | +13 15 | 12.1 | 1.6 m | 1.5 m | | Elliptical | pB,S,R,bM,p of 2 | 49 |
| | | | * | x | | | | NGC 4473 | GALXY | COM | 12 29.8 | +13 26 | 10.2 | 4.2 m | 2.6 m | 100 | Elliptical | pB | 49 |
| | | | | | | | | NGC 4474 | GALXY | COM | 12 29.9 | +14 04 | 11.5 | 2.4 m | 1.6 m | 80 | SO | pF,R,r | 49 |
| | | | * | x | | | | NGC 4477 | GALXY | COM | 12 30.0 | +13 38 | 10.4 | 3.7 m | 3.3 m | 15 | SBO | pB,cL | 49 |
| | | | * | | | | | NGC 4476 | GALXY | VIR | 12 30.0 | +12 21 | 12.2 | 1.8 m | 1.3 m | 25 | E4 | F,S,R,bM,1 of 3 | 49 |

Deep Sky Object List (7/10)

| Messier | Caldwell | Best NGC | Clark | Herschel 400 | Herschel-II | RASC | TAAS200 | Object | Type | Con. | R.A. (h m) | Dec. (° ') | Mag. | Size max | Size min | P.A. (°) | Class | NGC Description | Chart No. |
|---------|----------|----------|-------|--------------|-------------|------|---------|----------------|-------|------|---------------|---------------|------|-------------|-------------|-------------|------------|----------------------------------------|--------------|
| | | | * | x | | | | NGC 4478 | GALXY | VIR | 12 30.3 | +12 20 | 11.4 | 1.8 m | 1.5 m | 140 | E1 | pB,S,R,psbM,2 of 3 | 49 |
| | | | * | | | | | NGC 4479 | GALXY | COM | 12 30.3 | +13 35 | 12.4 | 1.6 m | 1.3 m | | SBO | pB,pL | 49 |
| M 87 | | | !* | | | | | NGC 4486 | GALXY | VIR | 12 30.8 | +12 23 | 8.6 | 8.7 m | 6.6 m | 170 | E1p | vB,vL,R,mbM,3 of 3 | 49 |
| | | | | | | | | MCG +02-32-110 | GALXY | VIR | 12 30.9 | +12 16 | 11.2 | | | | | Inner Regions Completely Black--MCG | 49 |
| | | | | | | | | NGC 4489 | GALXY | COM | 12 30.9 | +16 46 | 12 | 1.7 m | 1.6 m | | Elliptical | pF,cS,R,gbM | 49 |
| | | | | | | | | NGC 4486A | GALXY | VIR | 12 31.0 | +12 16 | 11.2 | 0.8 m | 0.7 m | 170 | Elliptical | | 49 |
| | | x | x | x | | 70 | | NGC 4494 | GALXY | COM | 12 31.4 | +25 46 | 9.8 | 4.5 m | 4.3 m | | Elliptical | vB,pL,R,vsmbMN | 49 |
| | | | | | | | | NGC 4498 | GALXY | COM | 12 31.7 | +16 51 | 12.2 | 3 m | 1.6 m | 133 | SBc | vF,pL,E,biN? | 49 |
| M 88 | | | x | | | | | NGC 4501 | GALXY | COM | 12 32.0 | +14 25 | 9.6 | 6.8 m | 3.7 m | 140 | Sbc | B,vL,vmE | 49 |
| | | | | | | | | NGC 4515 | GALXY | COM | 12 33.1 | +16 16 | 12.3 | 1.4 m | 1.1 m | | E-SO | F,vS,bM* | 49 |
| | | | | | | | | NGC 4525 | GALXY | COM | 12 33.9 | +30 17 | 12.2 | 2.6 m | 1.3 m | 53 | SBc | F,pL,iR,bM | 49 |
| | | | | | | | | NGC 4534 | GALXY | CVN | 12 34.1 | +35 31 | 12.3 | 2.6 m | 2.1 m | 125 | Sd | cF,L,IE,vglbM,r | 49 |
| | | | | | | | | NGC 4531 | GALXY | VIR | 12 34.3 | +13 05 | 11.4 | 3.1 m | 2 m | 155 | SBO-a | F,pL,R,vgbM | 49 |

Deep Sky Object List (8/10)

| Messier | Caldwell | Best NGC | Clark | Herschel 400 | Herschel-II | RASC | TAAS200 | Object | Type | Con. | R.A. (h m) | Dec. (° ') | Mag. | Size max | Size min | P.A. (°) | Class | NGC Description | Chart No. |
|---------|----------|----------|-------|--------------|-------------|------|---------|----------|-------|------|---------------|---------------|------|-------------|-------------|-------------|------------|-----------------------------|--------------|
| | | | | | | | | NGC 4539 | GALXY | COM | 12 34.6 | +18 12 | 12 | 3.3 m | 1.4 m | 95 | SBa | pB,pmE | 49 |
| | | | | | | | | NGC 4540 | GALXY | COM | 12 34.8 | +15 33 | 11.7 | 2.1 m | 1.8 m | 40 | SBc | F,pS,bM,r,BM no def N | 49 |
| M 91 | | | x | x | | | | NGC 4548 | GALXY | COM | 12 35.4 | +14 30 | 10.1 | 5.2 m | 4.2 m | 150 | SBb | B,L,IE,lbM | 49 |
| | | | | x | | | | NGC 4550 | GALXY | VIR | 12 35.5 | +12 13 | 11.7 | 3.3 m | 0.9 m | 178 | SBO | pB,S,vIE,sp of 2 | 49 |
| | | | | | | | | NGC 4551 | GALXY | VIR | 12 35.6 | +12 16 | 12 | 1.8 m | 1.4 m | 70 | Elliptical | pB,S,R,bM,nf of 2 | 49 |
| M 89 | | | x | | | | | NGC 4552 | GALXY | VIR | 12 35.7 | +12 33 | 9.8 | 5.3 m | 4.8 m | | EO | pB,pS,R,gmbM | 49 |
| | | | | | | | | NGC 4555 | GALXY | COM | 12 35.7 | +26 31 | 12.1 | 1.4 m | 1.1 m | 125 | Elliptical | B,pS,iR,vsmbM*12 | 49 |
| | C 36 | x | x | x | | 71 | x | NGC 4559 | GALXY | COM | 12 36.0 | +27 58 | 10 | 11 m | 4.9 m | 150 | SBc | vB,vL,mE150,gbM,3 * f | 49 |
| | | | | | | | | NGC 4561 | GALXY | COM | 12 36.1 | +19 19 | 12.5 | 1.5 m | 1.3 m | 30 | SBcd | pB,pL,vIE,lbM,r | 49 |
| | C 38 | x | !!!* | x | | 72 | x | NGC 4565 | GALXY | COM | 12 36.3 | +25 59 | 9.6 | 14.9 m | 2 m | 136 | Sb | !!B,eL,eE135,vsbMN = *10-11 | 49 |
| M 90 | | | * | | | | | NGC 4569 | GALXY | VIR | 12 36.8 | +13 10 | 9.5 | 9.9 m | 4.4 m | 23 | SBab | pL,bMN | 49 |
| | | | | | x | | | NGC 4571 | GALXY | COM | 12 36.9 | +14 13 | 11.3 | 3.7 m | 3.4 m | 55 | Sc | vF,L,E,vgbM,*9 nf nr | 49 |
| | | | | | | | | NGC 4595 | GALXY | COM | 12 39.9 | +15 18 | 12.1 | 1.7 m | 1.1 m | 110 | SBb | pF,pL,R,gbM | 49 |

Deep Sky Object List (9/10)

| Messier | Caldwell | Best NGC | Clark | Herschel 400 | Herschel-II | RASC | TAAS200 | Object | Type | Con. | R.A. (h m) | Dec. (° ') | Mag. | Size max | Size min | P.A. (°) | Class | NGC Description | Chart No. |
|---------|----------|----------|-------|--------------|-------------|------|---------|----------|-------|------|---------------|---------------|------|-------------|-------------|-------------|------------|---------------------------|--------------|
| | | | | | | | | NGC 4620 | GALXY | VIR | 12 42.0 | +12 57 | 12.2 | 1.8 m | 1.5 m | | SO | vF,S,R,vgbM | 49 |
| | | | | | | | | NGC 4627 | GALXY | CVN | 12 42.0 | +32 34 | 12.4 | 2.2 m | 1.7 m | 10 | Elliptical | F,S,R,np of 2,BM no BN | 49 |
| | C 32 | x | x | x | | 64 | x | NGC 4631 | GALXY | CVN | 12 42.1 | +32 32 | 9.2 | 15.2 m | 2.8 m | 86 | SBcd | vB,vL,eE70,bMN,* att n | 49 |
| | | | | | | | | NGC 4634 | GALXY | COM | 12 42.7 | +14 18 | 12.4 | 2.5 m | 0.6 m | 156 | SBc | vF,L,mE135,vgbM | 49 |
| | | | x | | x | | | NGC 4639 | GALXY | VIR | 12 42.9 | +13 15 | 11.5 | 2.9 m | 2 m | 123 | SBbc Ring | pB,S,E,R,*12 sf 1' | 49 |
| | | | x | | | | | NGC 4651 | GALXY | COM | 12 43.7 | +16 24 | 10.8 | 4 m | 2.7 m | 80 | Scp | cB,L,E90,gbM,r | 49 |
| | | | x | x | | | | NGC 4654 | GALXY | VIR | 12 43.9 | +13 08 | 10.5 | 5 m | 3.1 m | 128 | SBc Ring | F,vL,pmE(D?),3 * nr | 49 |
| | | x | ! | x | | 65 | x | NGC 4656 | GALXY | CVN | 12 44.0 | +32 10 | 10.5 | 15.3 m | 2.4 m | 33 | SB | pB,L,vmE34,sp of 2 | 49 |
| | | | | | | 65 | | NGC 4657 | GALXY | CVN | 12 44.1 | +32 13 | 10.6 | 1.1 m | 0.7 m | 90 | lr | pF,L,E90,nf of 2 | 49 |
| | | | | | | | | NGC 4659 | GALXY | COM | 12 44.5 | +13 30 | 12.1 | 1.8 m | 1.3 m | 173 | Sa | F,cS,R,bM,r | 49 |
| | | | x | x | | | | NGC 4689 | GALXY | COM | 12 47.8 | +13 46 | 10.9 | 4.7 m | 4 m | 160 | Sbc | pB,vL,E,vglbM,r | 49 |
| | | | x | | | | | NGC 4710 | GALXY | COM | 12 49.6 | +15 10 | 11 | 4.9 m | 1.6 m | 27 | Sa | cB,pL,vmE28,sbMN | 49 |
| | | x | x | x | | 73 | x | NGC 4725 | GALXY | COM | 12 50.4 | +25 30 | 9.4 | 10.4 m | 7.2 m | 35 | SBab Ring | vB,vL,E,vg,vsvmbM,eB N | 49 |

Deep Sky Object List (10/10)

| Messier | Caldwell | Best NGC | Clark | Herschel 400 | Herschel-II | RASC | TAAS200 | Object | Type | Con. | R.A. (h m) | Dec. (° ') | Mag. | Size max | Size min | P.A. (°) | Class | NGC Description | Chart No. |
|---------|----------|----------|-------|--------------|-------------|------|---------|----------|-------|------|---------------|---------------|------|-------------|-------------|-------------|------------|--------------------------|--------------|
| | | | x | | | | | NGC 4747 | GALXY | COM | 12 51.8 | +25 46 | 12.4 | 3.3 m | 1.3 m | 30 | SBcd | F,pL,IE | 49 |
| | | | | | | | | NGC 4789 | GALXY | COM | 12 54.3 | +27 04 | 12.1 | 1.9 m | 1.5 m | 0 | SO | F,R,*9 att 1' n | 49 |
| | | | | | | | | NGC 4793 | GALXY | COM | 12 54.7 | +28 56 | 11.6 | 2.9 m | 1.5 m | 50 | SBc | pB,pS,IE,*8 nf 1' | 49 |
| M 64 | | | !* | | | | | NGC 4826 | GALXY | COM | 12 56.7 | +21 41 | 8.5 | 10.3 m | 5 m | 115 | Sab | !vB,vL,vmE120,bM,SB N | 49 |
| | | | | | | | | NGC 4839 | GALXY | COM | 12 57.4 | +27 30 | 12.1 | 4 m | 1.9 m | 65 | Elliptical | F,pL,R | 49 |
| | | | | | | | | NGC 4861 | GALXY | CVN | 12 59.0 | +34 51 | 12.3 | 3.3 m | 1.9 m | 15 | SB | vF,pL,vmE30,bet 2 st | 49 |
| | | | | x | | | x | NGC 4866 | GALXY | VIR | 12 59.5 | +14 10 | 11.2 | 6.4 m | 1.5 m | 87 | Sa | B,pL,mE90,sbMN,S* inv | 49 |
| | | | x | | | | | NGC 4874 | GALXY | COM | 12 59.6 | +27 58 | 11.7 | 2.4 m | 2.4 m | | Elliptical | F,4869 & 4872 p | 49 |