

*SEASON:*

*SPRING*

## BOÖTES (BOO)

| √ | NGC  | RASC | SAC | CALD | HER-400     | O-HT | O-SD |    | Con | Type | R.A. H:m.s | DEC °,' | m v  | Size " | Comment                                                         |
|---|------|------|-----|------|-------------|------|------|----|-----|------|------------|---------|------|--------|-----------------------------------------------------------------|
|   | 5466 | R086 |     |      | H298 (6,9)  |      | D068 | Sp | Boo | GC   | 14:05.5    | 28.32   | 9.1  | 11.0   | Snow globe; Loose class XII Globular Cluster, rich, open, faint |
|   | 5248 |      |     | C045 | H293 (1,34) |      |      | Sp | Boo | G-S  | 13:37.5    | 8.53    | 10.2 | 6x4    | 3' pale oval w condensed core; 10dg NNE of 3m Zet Vir           |

## COMA BERENICES (COM)

| √ | NGC  | RASC | SAC  | CALD | HER-400      | O-HT | O-SD |    | Con | Type | R.A. H:m.s | DEC °,' | m v  | Size "   | Comment                                                          |
|---|------|------|------|------|--------------|------|------|----|-----|------|------------|---------|------|----------|------------------------------------------------------------------|
|   | 4414 | R069 | S027 |      | H236 (1,77)  |      | D054 | Sp | Com | G-Sc | 12:26.4    | 31.13   | 10.2 | 4.4x3.0  | 3dg N of Gam Com; Bright spiral with starlike nucleus            |
|   | 4274 | R068 | S026 |      | H224 (1,75)  |      |      | Sp | Com | G-Sb | 12:19.8    | 29.37   | 10.4 | 6.9x2.8  | 4' diffuse ellipse, 2dg NW of Gam Com; NGCs 4278/83/86 in field  |
|   | 4889 |      |      | C035 |              |      |      | Sp | Com | EG   | 13:00.1    | 27.59   | 11.4 | 3x2      | In Coma Cluster                                                  |
|   | 4559 | R071 | S029 | C036 | H259 (1,500) |      |      | Sp | Com | G-Sc | 12:36.0    | 27.58   | 9.8  | 10.5x4.9 | 2dg ESE of 4m Gam Com; 10' large spiral with coarse structure    |
|   | 4565 | R072 | S030 | C038 | H260 (1,24)  |      |      | Sp | Com | G-Sb | 12:36.3    | 25.59   | 9.6  | 0.2x0.7  | *Needle Galaxy; 15' long, superb edge-on spiral with dust lane;  |
|   |      |      |      |      |              | T062 |      | Sp | Com | OC   | 12:22.3    | 25.51   | 1.8  | 300      | Coma Berenices Cluster                                           |
|   | 4494 | R070 | S028 |      | H251 (1,83)  |      |      | Sp | Com | G-E1 | 12:31.4    | 25.47   | 9.8  | 4.8x3.8  | Near 6.6m 17 Com; 2' Small round bright compact elliptical       |
|   | 4725 |      |      |      | H277 (1,84)  | T069 |      | Sp | Com | GX   | 12:50.3    | 25.30   | 9.3  | 10.7     | Beautiful NE-SW elongated, barred spiral GXY; 2dg SSE of 30 Com. |
|   | 4147 |      |      |      | H212 (1,19)  |      | D052 | Sp | Com | GC   | 12:10.1    | 18.33   | 10.3 | 4        | Kick the Can; 1' faint cometlike glowing GC, 2.5dg WNW of 11 Com |
|   | 4293 |      |      |      | H227 (5,5)   |      | D053 | Sp | Com | GX   | 12:21.2    | 18.23   | 10.4 | 5.3x3.1  | 3' ENE-WSW elongated glow. Near 5m 11 Com; 3 sections.           |
|   | 4450 |      |      |      | H244 (2,56)  |      | D057 | Sp | Com | GX   | 12:28.5    | 17.05   | 10.1 | 5.0x3.4  | Small fairly bright 3' N-S oval glow, bright stellar nucleus     |
|   | 4548 |      |      |      | H257 (2,120) |      |      | Sp | Com | GX   | 12:35.4    | 14.30   | 10.2 | 5.0x4.1  | M91, mod. large and bright barred spiral                         |
|   | 4477 |      |      |      | H247 (2,115) |      | D061 | Sp | Com | GX   | 12:30.0    | 13.38   | 10.4 | 3.9x3.6  | In Markarian; N Part of Pair w 4473;                             |
|   | 4473 |      |      |      | H246 (2,114) |      | D060 | Sp | Com | GX   | 12:29.8    | 13.26   | 10.2 | 3.7x2.4  | In Markarian; S Part of Pair w 4477;                             |

## CORVUS (CRV)

| √ | NGC  | RASC | SAC  | CALD | HER-400      | O-HT | O-SD |    | Type | R.A. H:m.s | DEC °,' | m v    | Size " | Comment |                                                             |
|---|------|------|------|------|--------------|------|------|----|------|------------|---------|--------|--------|---------|-------------------------------------------------------------|
|   | 4361 | R075 | S032 |      | H232 (1,65)  | T061 |      | Sp | CrV  | PN         | 12:24.5 | -18.48 | 10.3   | 45      | Small and bright PN; with 13-mag central star; use 180x mag |
|   | 4038 | R074 |      | C060 | H204 (1,223) |      |      | Sp | CrV  | G-Sc       | 12:01.9 | -18.52 | 10.7   | ~3x2    | Pair with NGC 4039; interacting galaxies                    |
|   | 4039 |      |      | C061 |              |      |      | Sp | CrV  | SG         | 12:01.9 | -18.53 | 10.7   | 3x2     | "Antennae/Rattail/Ringtail" GXY; pair with NGC 4038         |

## CANES VENATICI (CVn)

| √ | NGC    | RASC | SAC  | CALD | HER-400      | O-HT | O-SD |    | Type | R.A. H:m.s | DEC °,' | m v   | Size " | Comment  |                                                                      |
|---|--------|------|------|------|--------------|------|------|----|------|------------|---------|-------|--------|----------|----------------------------------------------------------------------|
|   | 4258   |      |      |      | H221 (5,43)  |      |      | Sp | CVn  | G-S        | 12:19.0 | 47.18 | 4.8    | 20.0x8.4 | M106; 10' large, brig NNW-SSE oval, faint S-shape                    |
|   | 5195   |      |      |      | H292 (1,186) |      | D067 | Sp | CVn  | GX         | 13:30.0 | 47.16 | 9.6    | 6.4x4.6  | Companion to M51; 3' circular glow                                   |
|   | 4449   | R062 | S036 | C021 | H243 (1,213) |      |      | Sp | CVn  | G-Irr      | 12:28.2 | 44.06 | 9.4    | 5.1x3.7  | Box Galaxy; 3dg NNW of Bet CVn; Bright rectangular shape             |
|   | 4111   | R059 | S033 |      | H210 (1,195) |      | D051 | Sp | CVn  | G-S0       | 12:07.1 | 43.04 | 10.8   | 4.8x1.1  | Bright needle/lens-shaped edge-on spiral                             |
|   | 4485   |      |      |      | H249 (1,196) |      |      | Sp | CVn  | GX         | 12:30.5 | 41.42 | 11.9   | 2.7x2.3  | Interacting pair w. NGC4490/Cocoon GX; 2' dim circular spot          |
|   | 4490   | R063 | S037 |      | H250 (1,198) | T063 |      | Sp | CVn  | G-Sc       | 12:30.6 | 41.38 | 9.8    | 5.9x3.1  | Cocoon Galaxy; Near 4m Bet CVn; Bright spiral 5' long; 4485 in field |
|   | 4151   |      |      |      | H214 (1,165) |      |      | Sp | CVn  | GX         | 12:10.5 | 39.24 | 10.8   | 6.4x5.5  | small condensed Seyfert core, mixed Spiral                           |
|   | 4244   | R061 | S035 | C026 |              |      |      | Sp | CVn  | G-S        | 12:17.5 | 37.49 | 10.2   | 16.2x2.5 | *Large distinct edge-on spiral                                       |
|   | 5005   | R066 | S040 | C029 | H289 (1,96)  |      |      | Sp | CVn  | G-Sb       | 13:10.9 | 37.03 | 9.8    | 5.4x2.7  | Bright elongated spiral, Close to NGC 5033                           |
|   | 5033   | R067 | S041 |      | H290 (1,97)  |      | D066 | Sp | CVn  | G-Sb       | 13:13.4 | 36.36 | 10.1   | 10.5x5.6 | Water bug; Large bright spiral near NGC 5005; 3dg ESE of Alp CVn     |
|   | 4214   | R060 | S034 |      | H217 (1,95)  | T059 |      | Sp | CVn  | G-Irr      | 12:15.6 | 36.20 | 9.7    | 7.9x6.3  | Large irregular galaxy, 6dg SW of Bet CVn; 5' bright oval            |
|   | 4631   | R064 | S038 | C032 | H265 (4,42)  |      |      | Sp | CVn  | G-Sc       | 12:42.1 | 32.32 | 9.3    | 15.1x3.3 | *Whale Galaxy; Huge edge-on; 10' long E-W peppered cigar shape       |
|   | 4656/7 | R065 | S039 |      | H269 (1,176) | T067 |      | Sp | CVn  | G-Sc       | 12:44.0 | 32.10 | 10.4   | 13.8x3.3 | Hockey Stick GX; In field with 4631; NE end curves up;               |

## DRACO (DRA)

| √ | NGC  | RASC | SAC  | CALD | HER-400      | O-HT | O-SD |    |     | Type | R.A. H:m:s | DEC °,' | m v  | Size "   | Comment                                                   |
|---|------|------|------|------|--------------|------|------|----|-----|------|------------|---------|------|----------|-----------------------------------------------------------|
|   | 6503 | R088 | S049 |      |              | T085 |      | Sp | Dra | G-Sb | 17:49.4    | 70.09   | 10.2 | 6.2x2.3  | Lost in Space Galaxy ; Bright elongated spiral            |
|   | 4236 |      |      | C003 | (5,51)       |      |      | Sp | Dra | SG   | 12:16.7    | 69.28   | 9.7  | 19x7     | Faint, large, extended in PA 160°                         |
|   | 6543 | R089 | S050 | C006 | H342 (4,37)  |      |      | Sp | Dra | PN   | 17:58.6    | 66.38   | 8.8  | 18       | Cat's Eye Nebula; with 11 mag central *                   |
|   | 5907 | R087 | S048 |      | H313 (2,759) |      | D070 | Sp | Dra | G-Sb | 15:15.9    | 56.19   | 10.4 | 12.3x1.8 | Splinter Galaxy ; fine edge-on with dust lane; near 5866; |
|   | 5866 |      |      |      | H311 (1,215) | T075 |      | Sp | Dra | Gxy  | 15:06.3    | 55.46   | 9.9  | 3.1x6.5  | Fool's Gold Galaxy                                        |

## HYDRA (HYA)

| √ | NGC  | RASC | SAC  | CALD | HER-400      | O-HT | O-SD |    |     | Type | R.A. H:m:s | DEC °,' | m v  | Size "   | Comment                                                           |
|---|------|------|------|------|--------------|------|------|----|-----|------|------------|---------|------|----------|-------------------------------------------------------------------|
|   | 3242 | R050 | S057 | C059 | H149 (4,27)  |      |      | Sp | Hya | PN   | 10:24.8    | -18.38  | 8.6  | 16       | *Ghost of Jupiter; small but bright (7m, ring w. 11.5m central *) |
|   | 5694 |      |      | C066 | H308 (2,196) |      |      | Sp | Hya | GC   | 14:39.6    | -26.32  | 10.2 | 3.6      | Small, relatively dim GC; Brightest members ~15.5m                |
|   | 3621 |      |      |      | H173 (1,241) | T057 |      | Sp | Hya | SG   | 11:18.1    | -32.49  | 8.5  | 6.8x12.3 | Frame Galaxy; blotted ellipse, brighter inner region; use 72x mag |

## LEO (LEO)

| √ | NGC  | RASC | SAC  | CALD | HER-400     | O-HT | O-SD |    |     | Type | R.A. H:m:s | DEC °,' | m v  | Size "   | Comment                                                              |
|---|------|------|------|------|-------------|------|------|----|-----|------|------------|---------|------|----------|----------------------------------------------------------------------|
|   | 2903 | R054 | S060 |      | H130 (1,56) | T051 |      | Sp | Leo | G-Sb | 09:32.2    | 21.30   | 8.9  | 12.6x6.6 | *Very large, bright elongated spiral, sharp nucleus                  |
|   | 3226 |      |      |      | H147 (2,28) |      | D043 | Sp | Leo | GX   | 10:23.4    | 19.54   | 11.4 | 2.5x2.2  | Part of Pair w. 3227; mod. bright, elongated haze w. stellar nucleus |
|   | 3227 |      |      |      | H148 (2,29) |      | D044 | Sp | Leo | GX   | 10:23.5    | 19.52   | 10.3 | 6.9x5.4  | Part of Pair w. 3226; small dim elliptical                           |
|   | 3626 |      |      | C040 |             |      |      | Sp | Leo | SG   | 11:20.1    | 18.21   | 10.9 | 3x2      |                                                                      |
|   | 3607 | R057 | S063 |      | H168 (2,50) |      |      | Sp | Leo | G-E1 | 11:16.9    | 18.03   | 10   | 3.7x3.2  | NGCs 3605 & 3608 in same field; fairly bright and concntrated        |
|   | 3628 | R058 | S064 |      | H175 (5,8)  | T058 |      | Sp | Leo | G-Sb | 11:20.3    | 13.36   | 9.5  | 14.8x3.6 | King Hamlet's Ghost; Hamburger; large edge-on; (field as M65/66)     |
|   | 3379 |      |      |      | H156 (1,17) |      |      | Sp | Leo | G-E  | 10:48.3    | 12.38   | 9.9  | 5.9x2.6  | M105, Same field as NGC 3384; 10 dg E of Regulus                     |
|   | 3384 | R055 | S061 |      | H157 (1,18) |      |      | Sp | Leo | G-E7 | 10:48.3    | 12.38   | 9.9  | 5.9x2.6  | Same field as M105 = NGC 3389; 10 dg E of Regulus                    |
|   | 3521 | R056 | S062 |      | H165 (1,13) | T056 |      | Sp | Leo | G-Sb | 11:05.8    | -0.02   | 9.2  | 9.5x5.0  | Very large, bright spiral, near 6m 62 Leo; NW/SE spindle             |

## LEO MINOR (LMi)

| √ | NGC  | RASC | SAC  | CALD | HER-400      | O-HT | O-SD |    |     | Type  | R.A. H:m:s | DEC °,' | m v  | Size "  | Comment                                                             |
|---|------|------|------|------|--------------|------|------|----|-----|-------|------------|---------|------|---------|---------------------------------------------------------------------|
|   | 3432 | R053 | S066 |      | H161 (1,172) |      | D045 | Sp | LMi | G-SBm | 10:52.5    | 36.37   | 11.3 | 6.2x1.5 | Knitting Needle; Nearly edge-on; faint flat streak                  |
|   | 3003 | R051 |      |      |              |      |      | Sp | LMi | G-Sc  | 09:48.6    | 33.25   | 11.7 | 5.9x1.7 | Faint elongated streak                                              |
|   | 3486 |      |      |      | H162 (1,87)  |      |      | Sp | LMi | G     | 11:00.4    | 28.58   | 10.5 | 6.6x4.7 | Mixed spiral, 4'x2' mottled glow, central brightening               |
| o | 3344 | R052 | S065 |      | H154 (1,81)  | T055 |      | Sp | LMi | G-Sc  | 10:43.5    | 24.55   | 9.9  | 6.9x6.5 | Diffuse face-on mixed spiral, 5' circular glow, 3* close to nucleus |

## SEXTANS (SEX)

| √ | NGC  | RASC | SAC  | CALD | HER-400      | O-HT | O-SD |    |     | Type | R.A. H:m:s | DEC °,' | m v  | Size "  | Comment                                                   |
|---|------|------|------|------|--------------|------|------|----|-----|------|------------|---------|------|---------|-----------------------------------------------------------|
|   | 3169 |      |      |      | H142 (1,4)   |      | D041 | Sp | Sex | GX   | 10:14.2    | 3.28    | 10.2 | 5.0x2.8 | Part of Pair w. 3166, slightly smaller & dimmer           |
|   | 3166 |      |      |      | H141 (1,3)   |      | D040 | Sp | Sex | GX   | 10:13.8    | 3.26    | 10.4 | 4.6x2.6 | Part of Pair w. 3169, bright circular glow 2' diam        |
|   | 3115 | R049 | S088 | C053 | H139 (1,163) |      |      | Sp | Sex | G-E6 | 10:05.2    | -7.43   | 9.2  | 8.3x3.2 | Spindle Galaxy; bright and elongated/lens-shaped, 7' long |

URSA MAJOR (UMa)

| √ | NGC  | RASC | SAC  | CALD | HER-400      | O-HT | O-SD |    | Type | R.A. H:m:s | DEC °'   | m v   | Size " | Comment  |                                                                      |
|---|------|------|------|------|--------------|------|------|----|------|------------|----------|-------|--------|----------|----------------------------------------------------------------------|
|   | 3034 |      |      |      | H136 (4,79)  |      |      | Sp | UMa  | G-S        | 09:55.8  | 69.41 | 8.4    | 11.2x4.3 | M82: Cigar Gxy                                                       |
| √ | 3077 |      | S094 |      | H137 (1,286) |      | D039 | Sp | UMa  | E2p        | 10:03.13 | 68.44 | 9.8    | 5.5x4.1  | Bright core                                                          |
|   | 4036 |      |      |      | H203 (1,253) |      | D049 | Sp | UMa  | G-Sa       | 12:01.4  | 61.54 | 10.7   | 3.8x1.9  | Mixed lenticular/spiral, 4'x2' mottled glow, central brightening     |
|   | 4605 | R048 | S101 |      |              | T066 |      | Sp | UMa  | G-SBcp     | 12:40.0  | 61.37 | 10.1   | 5.5x2.3  | Faberge Egg Galaxy ; Bright distinct edge-on spiral                  |
|   | 2768 |      |      |      | H123 (1,250) |      |      | Sp | UMa  | G-E        | 09:11.6  | 60.02 | 9.9    | 6.6x3.2  | Nice bright elliptical, 1.5dg SSW of 16 UMa                          |
|   | 3079 | R041 | S093 |      | H138 (5,47)  |      | D038 | Sp | UMa  | G-Sb       | 10:02.2  | 55.41 | 10.6   | 7.6x1.7  | Phantom Frisbee, Edge-on Elon. PA 165dg. NGC 2950 nearby             |
|   | 3998 |      |      |      | H199 (1,229) |      |      | Sp | UMa  | G-S        | 11:57.9  | 55.27 | 10.7   | 3.0x3.6  | Small, very condensed spiral; 12.6m companion NGC 3990               |
|   | 3310 |      |      |      | H153 (4,60)  |      |      | Sp | UMa  | W          | 10:38.7  | 53.30 | 10.8   | 3.5x3.2  | small, very condensed mixed Sp, 4.5° SW of 2m Bet UMa                |
|   | 3992 |      |      |      | H198 (4,61)  |      |      | Sp | UMa  | G-Sb       | 11:57.6  | 53.23 | 9.8    | 7.6x4.3  | M109: Circular-oblong glow w. bright core                            |
|   | 3953 |      |      |      | H195 (5,45)  |      | D048 | Sp | UMa  | G-Sb       | 11:53.8  | 52.2  | 10.1   | 6.0x3.2  | Circular-oblong glow w. bright core                                  |
| * | 2841 | R040 | S092 |      | H128 (1,205) | T049 |      | Sp | UMa  | G-Sb       | 09:22.0  | 50.58 | 9.3    | 8.1x3.8  | * Tiger's Eye Galaxy; Classic elongated spiral; very bright, edge-on |
|   | 4026 | R045 | S099 |      | H200 (1,223) |      |      | Sp | UMa  | G-S0       | 11:59.4  | 50.58 | 10.7   | 5.1x1.4  | Lens-shaped edge-on near gamma UMa                                   |
|   | 4088 | R046 | S100 |      | H208 (1,206) |      |      | Sp | UMa  | G-Sc       | 12:05.6  | 50.33 | 10.5   | 5.8x2.5  | Nearly edge-on; NGC 4085 in same field                               |
|   | 4157 | R047 |      |      |              |      |      | Sp | UMa  | G-Sb       | 12:11.1  | 50.29 | 11.9   | 6.9x1.7  | A thin sliver; NGCs 4026 & 4088 nearby                               |
|   | 3893 |      |      |      | H187 (2,738) |      | D047 | Sp | UMa  | GX         | 11:48.6  | 48.43 | 10.5   | 4.2x2.3  | 1dg NR of Chi UMa, small 2' glow, 12.5m * at NE edge                 |
|   | 3877 | R043 | S097 |      | H186 (1,201) |      |      | Sp | UMa  | G-Sb       | 11:46.1  | 47.30 | 10.9   | 5.4x1.5  | Edge-on; same field as chi UMa; Elongated in PA 35dg, Small & dim    |
|   | 3198 |      |      |      | H146 (1,199) |      | D042 | Sp | UMa  | G-Sc       | 10:19.9  | 45.33 | 10.3   | 9.2x3.5  | Dim extended barred spiral, 10' elongated diffuse light              |
|   | 4051 |      |      |      | H206 (4,56)  |      | D050 | Sp | UMa  | GX         | 12:03.2  | 44.32 | 10.2   | 5.5x4.6  | Bright and obvious 3' round w. stellar nucleus; 11m * to SW          |
|   | 3675 |      | S096 |      | H180 (1,194) |      | D046 | Sp | UMa  | Sb         | 11:26.1  | 43.35 | 10.2   | 6.8x3.5  | Near 5m 56 UMa, fairly bright 4' N/S ellipse, S-shape                |
|   | 3184 | R042 | S095 |      | H143 (1,168) | T052 |      | Sp | UMa  | G-Sc       | 10:18.3  | 41.25 | 9.7    | 6.9x6.8  | Little Pinwheel Galaxy ; Large, diffuse face-on spiral               |
|   | 3941 | R044 | S098 |      | H192 (1,173) |      |      | Sp | UMa  | G-E3       | 11:52.9  | 36.59 | 9.8    | 3.8x2.5  | Small bright barred spiral, 4dg NE of 61 UMa; 2' circular glow       |
|   | 3556 |      |      |      | H166 (5,46)  |      |      | Sp | UMa  | G-Sb       | 11:11.5  | 55.40 | 10     | 8.1x2.1  | M108: 10' mottled ellipse, 1.5° SE of Beta UMa                       |

VIRGO (VIR)

| √ | NGC    | RASC | SAC  | CALD | HER-400       | O-HT | O-SD |    | Type | R.A. H:m:s | DEC °'  | m v    | Size "    | Comment  |                                                                        |
|---|--------|------|------|------|---------------|------|------|----|------|------------|---------|--------|-----------|----------|------------------------------------------------------------------------|
|   | 4461   |      |      |      |               |      | D058 | Sp | Vir  | GX         | 12:29.0 | 13.11  | 11.2      | 3.7x1.4  | = NGC 4443? In Markarian; tiny puff of pale light                      |
|   | 4216   | R076 | S102 |      | H218 (1,35)   | T060 |      | Sp | Vir  | G-Sb       | 12:15.9 | 13.09  | 10.3      | 8.3x2.2  | Silver Streak Gxy; 5' long nearly edge-on; with NGCs 4206 & 4222       |
|   | 4435   |      |      |      | H239 (1,28.1) |      | D055 | Sp | Vir  | GX         | 12:27.7 | 13.05  | 10.8      | 3.2x2.0  | The Eyes in Markarian; w. NGC4438; Small, round, condensed core        |
|   | 4438   | R078 | S104 |      | H240 (1,282)  |      | D056 | Sp | Vir  | G-Sap      | 12:27.8 | 13.01  | 10.1      | 8.9x3.6  | The Eyes in Markarian; w. NGC4435; Bright, obvious 2' lens shape       |
|   | 4388   | R077 | S103 |      |               |      |      | Sp | Vir  | G-Sb       | 12:25.8 | 12.40  | 11        | 5.1x1.4  | With M84 and M86 in Markarian's Chain                                  |
|   | 4567/8 | R082 |      |      |               |      |      | Sp | Vir  | G-Sc       | 12:36.5 | 11.15  | 11        | 4.6x2.1  | "Siamese Twins"; interacting galaxies .                                |
|   | 4762   | R084 | S109 |      | H280 (2,75)   |      | D065 | Sp | Vir  | G-SB0      | 12:52.9 | 11.14  | 10.2      | 8.7x1.6  | Paper-Kite; Flattest galaxy known; 4754 in same field                  |
|   | 4698   |      |      |      | H275 (1,8)    |      |      | Sp | Vir  | GX         | 12:48.4 | 8.29   | 10.6      | 3.2x1.7  | small 1.5' elongated glow, bright stellar core; 2.5dg SE of 5m Rho Vir |
|   | 4535   | R081 | S106 |      | H254 (2,500)  |      |      | Sp | Vir  | G-Sc       | 12:34.3 | 8.12   | 9.8       | 6.8x5.0  | Near M49 and 3/4 deg N of NGC 4526; 5' amorphous glow                  |
|   | 4526   | R080 | S105 |      | H252 (1,38)   | T065 |      | Sp | Vir  | G-E7       | 12:34.0 | 7.42   | 9.6       | 7.6x2.3  | Hairy Eyebrow / "Lost GXY ; between two 7-mag * ; 3dg SW Rho Vir       |
|   | 4303   |      |      |      | H228 (1,139)  |      |      | Sp | Vir  | GX         | 12:21.9 | 4.28   | 9.7       | 6.0x5.9  | M61; Bright GX between 16-17 Vir; use 130x mag                         |
|   | 5566   |      |      |      | H302 (1,144)  |      |      | Sp | Vir  | GX         | 14:20.3 | 3.56   | 10.6      | 5.7x2.1  | Small bright 2' narrow glow w. stellar nucleus; 5dg NE of 4m Tau Vir   |
|   | 4665   |      |      |      | H271 (1,142)  |      | D063 | Sp | Vir  | GX         | 12:45.1 | 3.03   | 10.5      | 4.1x4.1  | 2' small round circular glow NE of 11m * (72x mag)                     |
|   | 4636   |      |      |      | H266 (2,38)   |      | D062 | Sp | Vir  | G-E0       | 12:42.8 | 2.41   | 9.5       | 7.1x5.2  | Bright 4' Elliptical Galaxy, SB 13.3; ~52MLY dist.                     |
|   | 3C-273 |      |      |      |               |      | D059 | Sp | Vir  | QSR        | 12:29.1 | 2.03   | 11.7-13.2 | -        | Nearest and brightest Quasar; ~2 BLY; Var: 11.7 - 13.2m; Hard!         |
|   | 5746   | R085 | S110 |      | H309 (1,126)  | T074 |      | Sp | Vir  | G-Sb       | 14:44.9 | 1.57   | 10.6      | 7.9x1.7  | Blade and Pearl Galaxy ; Fine edge-on, near * 109 Virginis             |
|   | 5846   |      |      |      | H310 (1,128)  |      | D069 | Sp | Vir  | G-E1       | 15:06.4 | 1.36   | 10.0      | 3.0x3.0  | Small lenticular near 4m 110 Vir; 2' fuzzy patch w stellar nucleus     |
|   | 4517   | R079 |      |      |               |      |      | Sp | Vir  | G-Sc       | 12:32.8 | 0.07   | 10.5      | 10.2x1.9 | Paired with NGC 4435 to form the "Eyes"                                |
|   | 4030   |      |      |      | H202 (1,121)  |      |      | Sp | Vir  | G          | 12:00.4 | -1.06  | 10.6      | 3.8x2.9  | Small, obvious ca 5dg SE of Bet Vir; between two 10m stars             |
|   | 4753   |      |      |      |               |      | D064 | Sp | Vir  | GX         | 12:52.4 | -1.12  | 9.9       | 4.1x2.3  | Dust Devil; 2.5dg NE of Gam Vir; bright mottled 3' oval glow           |
|   | 4697   |      |      | C052 | H274 (1,39)   |      |      | Sp | Vir  | EG         | 12:48.6 | -5.48  | 9.3       | 6x4      | Bright large elliptical GX, 3dg NE of 4.7m Chi Vir                     |
|   | 4699   |      |      |      | H276 (1,129)  |      |      | Sp | Vir  | GX         | 12:49.0 | -8.40  | 9.5       | 3.1x2.5  | Vinyl LP GX; Small bright mixed spiral; 1.5dg NE of Psi Vir            |
|   | 4594   |      |      |      | H262 (1,43)   |      |      | Sp | Vir  | GX         | 12:40.0 | -11.37 | 8         | 7.1x4.4  | M104, Sombrero GX. 4' E-W oval glow with dust lane (use 72x)           |
|   | 5363   |      |      |      | H296 (1,6)    | T072 |      | Sp | Vir  | GX(p)      | 13:56.1 | 5.15   | 10.5      | 2.6x4.1  | 3' glow w sharp stellar core and halo, elong. SE-NW, close to 8.5m*    |



N5466

M3

9 Boo

*Boötes*

d Boo

6 Boo

α Boo  
Arcturus  
KO III

η

τ

20 Boo

ν

N5248

**NGC 5466**

Snow Globe GC

(D068)

**NGC 5248**

Mixed Spiral Gxy  
(C045)



*Coma B.*

N4559

$\gamma$  Coma B.

N4889

N4414

N4274

$\beta$

N4889

N4559

$\gamma$

10

N4565

N4494

41

31

30

14

16

13

12

7

8

N4725

N4565

N4493

*Coma B.  
Cluster*

26

93 Leo

N4147

N4293

24

M85

11

*Markarian's  
Chain*

$\alpha$

N4450

27

N4477

N4473

N4548

M91

29

N4477/3

$\alpha$  Leo  
Regulus





