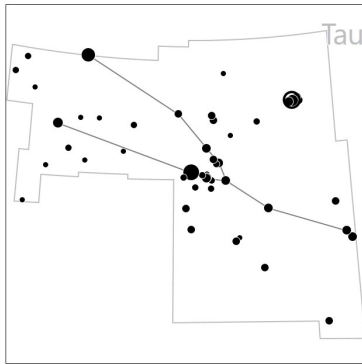
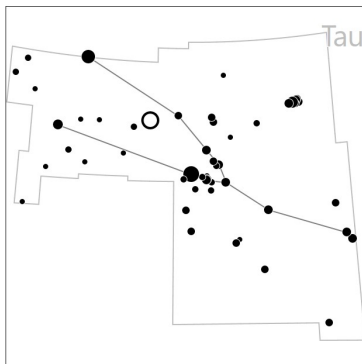


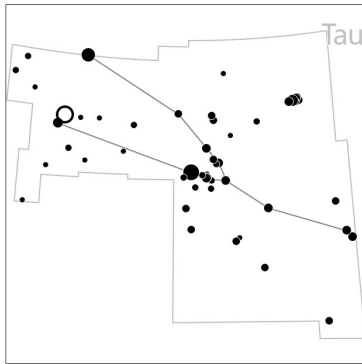
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|--|-----|-------------------------|---------------|------------------|------------------|--------------------|
| Name | | | | | | |
| Transit Time | | Transit Altitude | | Best Time | Magnitude | Magnitude 2 |
| User Notes | | | | | | R.A. |
| Declination | | | | | | |
| 1 | M45 | 1 | Tau | Open | 120 | 20.6 |
| Pleiades, Seven Sisters, Subaru, Pleiades, Seven Sisters, Subaru | | | | | | |
| 3:56 PM | | 81° | | 8:15 PM | 1.6 | |
| JY: Best open cluster in Northern Sky with faint nebulosity | | | | | | 03h 47m 30s |
| +24°07.0' | | | | | | |



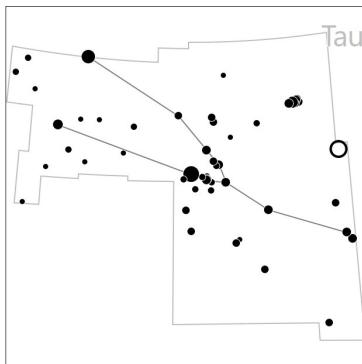
| | | | | | | |
|-----------|---------|-----|-----|---------|-------|-------------|
| 2 | Jupiter | 1 | Tau | Planet | 36.5" | 14.7 |
| 5:03 PM | | 79° | | 8:15 PM | -1.7 | |
| | | | | | | 04h 55m 15s |
| +22°17.0' | | | | | | |



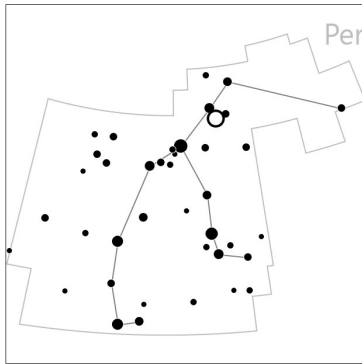
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|--|----|-------------------------|---------------|------------------|------------------|--------------------|
| Name | | | | | | |
| Transit Time | | Transit Altitude | | Best Time | Magnitude | Magnitude 2 |
| User Notes | | | | | | R.A. |
| Declination | | | | | | |
| 3 | M1 | 2 | Tau | SNR | 6x4 | 20.5 |
| Crab Nebula, Taurus A, NGC1952, CM Tauri, Crab Nebula, Crab Pulsar, Taurus A | | | | | | |
| 5:43 PM | | 79° | | 8:15 PM | 8.4 | |
| | | | | | | 05h 34m 32s |
| +22°00.8' | | | | | | |



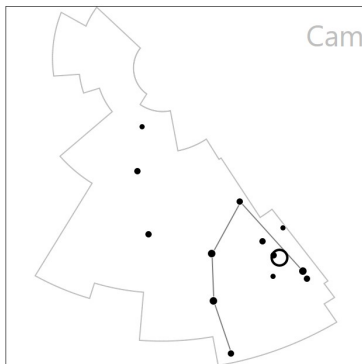
| | | | | | | |
|-----------|--------|-----|-----|---------|------|-------------|
| 4 | Uranus | 2 | Tau | Planet | 3.4" | 17.5 |
| 3:36 PM | | 75° | | 8:15 PM | 6.2 | |
| | | | | | | 03h 27m 42s |
| +18°36.6' | | | | | | |



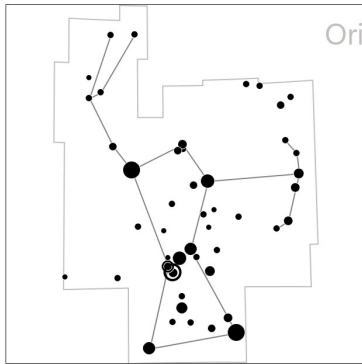
| Seq | ID | Priority | Constellation | Type | Size | Surface Brightness |
|--|--------|-------------------------|---------------|------------------|------|--------------------|
| Name | | | | | | |
| Transit Time | | Transit Altitude | | Best Time | | Magnitude |
| | | | | | | |
| User Notes | | | | | | R.A. |
| Declination | | | | | | |
| 5 | HR 890 | 3 | Per | Dbl | | n/a |
| SAO-023763, STF 331, HD18537, ADS 2270 | | | | | | |
| 3:09 PM | | 71° | | 8:15 PM | | 5.3 |
| | | | | | | 6.7 |
| | | | | | | 11.9 |
| | | | | | | 03h 00m 52s |
| +52°21.1' | | | | | | |



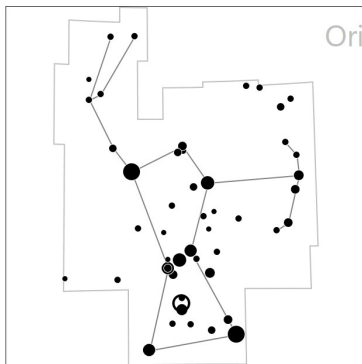
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|--|-------|-----|-----|-------------|--|-------------|
| 6 | U Cam | 3 | Cam | Carbon, Dbl | | n/a |
| SAO-012870, HD 22611, BLL 12, HIP 17257, WDS03418+6239, BLL12, BD+62 00596 | | | | | | |
| 3:50 PM | | 61° | | 8:15 PM | | 7.8 |
| | | | | | | 9.6 |
| Ref: The Reddest Stars | | | | | | 208.6 |
| | | | | | | 03h 41m 48s |
| +62°38.9' | | | | | | |



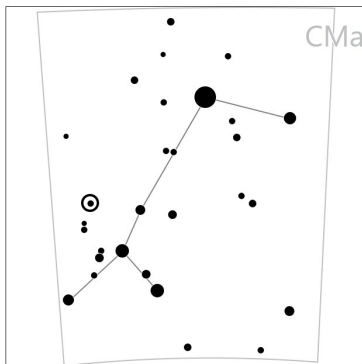
| Seq | ID | Priority | Constellation | Type | Size | Surface Brightness |
|---|--------|-------------------------|---------------|------------------|------------------|--------------------|
| Name | | | | | | |
| Transit Time | | Transit Altitude | | Best Time | Magnitude | Magnitude 2 |
| User Notes | | | | | | R.A. |
| Declination | | | | | | |
| 7 | 48 Ori | 1 | Ori | Dbl | | n/a |
| SAO-132406, Sigma Orionis, HR 1931, HD 37468, HIP 26549, ADS 4241, WDS05387-0236, TRN19 | | | | | | |
| 5:47 PM | | 54° | | 8:15 PM | 3.8 | 12.0 |
| JY: Mag=4.0, 10.3, 7.5, 6.5 Sep = 11", 13"43" Fantastic Quintuple Star system | | | | | | 05h 38m 45s |
| -02°36.0' | | | | | | |



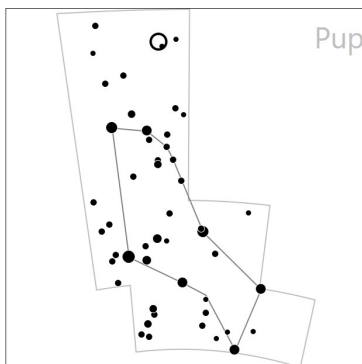
| | | | | | | |
|---|-----|-----|-----|------------|-----|-------------|
| 8 | M42 | 1 | Ori | Open+D Neb | 66 | 21.7 |
| Great Orion Nebula, Orion A, NGC1976, Trapezium | | | | | | |
| 5:44 PM | | 51° | | 8:15 PM | 4.0 | |
| Best nebula in Northern hemisphere | | | | | | 05h 35m 16s |
| -05°23.4' | | | | | | |



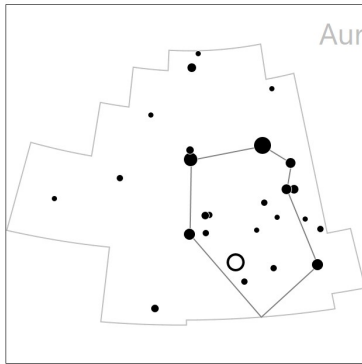
| Seq | ID | Priority | Constellation | Type | Size | Surface Brightness |
|---|---------|-------------------------|---------------|------------------|------|--------------------|
| Name | | | | | | |
| Transit Time | | Transit Altitude | | Best Time | | Magnitude |
| | | | | | | |
| User Notes | | | | | | R.A. |
| Declination | | | | | | |
| 9 | HR 2764 | 2 | CMa | Dbl | | n/a |
| SAO-173349, h3945, SACDBL526, HIP35210, ADS5951, HR2764, h3945 | | | | | | |
| 7:25 PM | | 33° | | 8:15 PM | | 4.8 |
| | | | | | | 6.8 |
| The "Winter Albireo" and a perennial favorite. Perceived color differences are real in this binary. | | | | | | 26.6 |
| | | | | | | 07h 16m 36s |
| -23°19.0' | | | | | | |



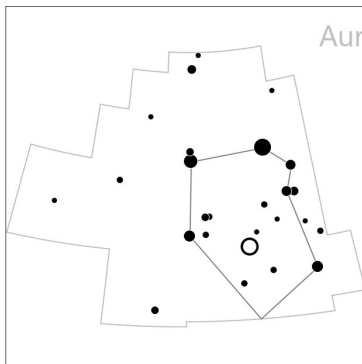
| | | | | | | |
|---|-----|-----|-----|---------|----|-------------|
| 10 | M46 | 3 | Pup | Open | 27 | 22.3 |
| NGC2437 | | | | | | |
| 7:50 PM | | 42° | | 8:15 PM | | 6.5 |
| JY: Dim Planetary Neb embedded in Cluster | | | | | | 07h 41m 46s |
| -14°48.6' | | | | | | |



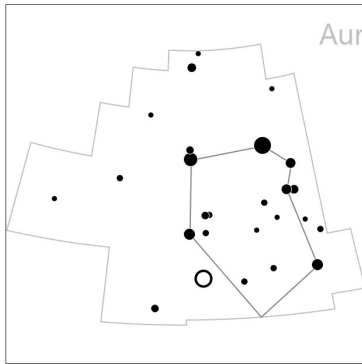
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|---------------------------|-----|-------------------------|---------------|------------------|------|--------------------|
| Name | | | | | | |
| Transit Time | | Transit Altitude | | Best Time | | Magnitude |
| Magnitude 2 | | Separation | | | | |
| User Notes | | | | | | R.A. |
| Declination | | | | | | |
| 11 | M36 | 1 | Aur | Open | 12 | 20.5 |
| Pinwheel Cluster, NGC1960 | | | | | | |
| 5:45 PM | | 89° | | 8:15 PM | | 6.5 |
| | | | | | | 05h 36m 18s |
| +34°08.4' | | | | | | |



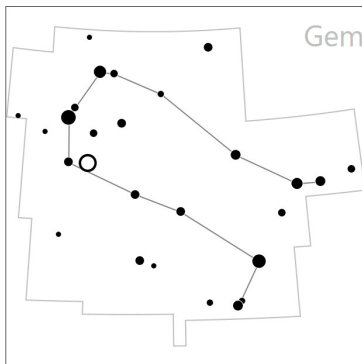
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|---------------------------|-----|-----|-----|---------|----|-------------|
| 12 | M38 | 2 | Aur | Open | 21 | 22.2 |
| Starfish Cluster, NGC1912 | | | | | | |
| 5:37 PM | | 87° | | 8:15 PM | | 7.0 |
| | | | | | | 05h 28m 40s |
| +35°50.8' | | | | | | |



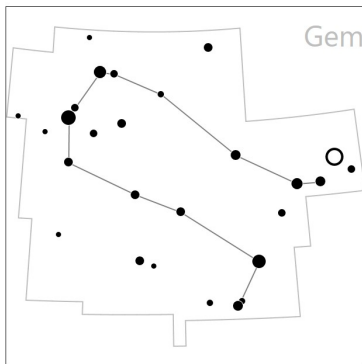
| Seq | ID | Priority | Constellation | Type | Size | Surface Brightness |
|---|-----|-------------------------|---------------|------------------|------|--------------------|
| Name | | | | | | |
| Transit Time | | Transit Altitude | | Best Time | | Magnitude |
| | | | | | | Magnitude 2 |
| User Notes | | | | | | R.A. |
| Declination | | | | | | |
| 13 | M37 | 2 | Aur | Open | 24 | 21.5 |
| Auriga Salt-and-pepper Cluster, January Salt-and-pepper Cluster, NGC2099,Auriga Salt-and-Pepper,January Salt-and-Pepper | | | | | | |
| 6:01 PM | | 89° | | 8:15 PM | | 6.0 |
| | | | | | | 05h 52m 18s |
| +32°33.1' | | | | | | |



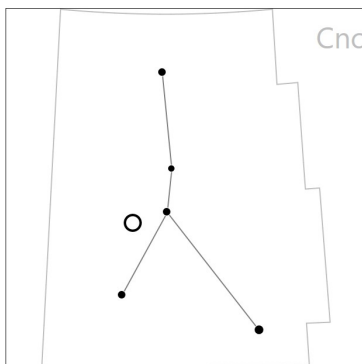
| | | | | | | |
|-----------|------|-----|-----|---------|------|-------------|
| 14 | Mars | 2 | Gem | Planet | 8.5" | 13.8 |
| 7:45 PM | | 81° | | 8:15 PM | | 0.5 |
| | | | | | | 07h 37m 11s |
| +24°21.5' | | | | | | |



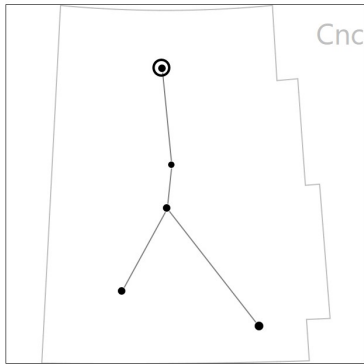
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|---------------------|-----|-------------------------|---------------|------------------|------------------|--------------------|
| Name | | | | | | |
| Transit Time | | Transit Altitude | | Best Time | Magnitude | Magnitude 2 |
| User Notes | | | | | | R.A. |
| Declination | | | | | | |
| 15 | M35 | 2 | Gem | Open | 28 | 21.4 |
| NGC2168 | | | | | | |
| 6:17 PM | | 81° | | 8:15 PM | 5.5 | |
| | | | | | | 06h 09m 00s |
| +24°21.0' | | | | | | |



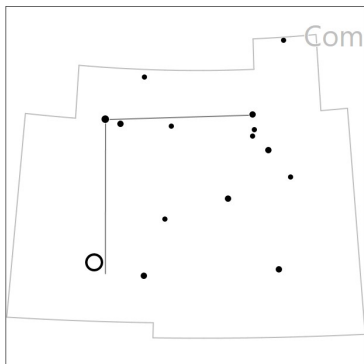
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|---------------------------------------|-------|-----|-----|---------|-----|-------------|
| 16 | X Cnc | 2 | Cnc | Carbon | | n/a |
| SAO-098230, HD76221, HR3541, HIP43811 | | | | | | |
| 9:04 PM | | 74° | | 9:00 PM | 6.6 | |
| Ref: the Reddest Stars | | | | | | 08h 55m 23s |
| +17°13.8' | | | | | | |



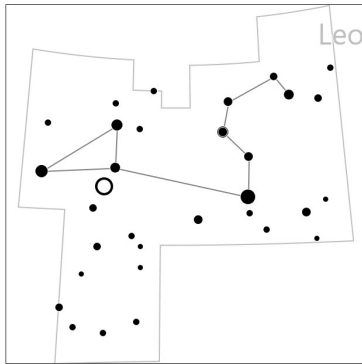
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|--|--------|-------------------------|---------------|------------------|------|--------------------|
| Name | | | | | | |
| Transit Time | | Transit Altitude | | Best Time | | Magnitude |
| | | | | | | |
| User Notes | | | | | | R.A. |
| Declination | | | | | | |
| 17 | 48 Cnc | 1 | Cnc | Dbl | | n/a |
| SAO-080416, iot Cnc, SAO-080415, HD74738 | | | | | | |
| 8:55 PM | | 85° | | 8:45 PM | | 6.6 |
| | | | | | | 9.1 |
| Great Yellow/Blue Pair | | | | | | 08h 46m 40s |
| +28°45.9' | | | | | | |



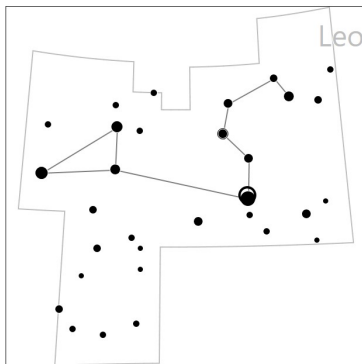
| | | | | | | |
|-----------|-----|-----|-----|----------|------|-------------|
| 18 | M53 | 1 | Com | Globular | 12.6 | 22.6 |
| NGC5024 | | | | | | |
| 1:21 AM | | 75° | | 1:15 AM | | 8.5 |
| | | | | | | 13h 12m 55s |
| +18°10.1' | | | | | | |



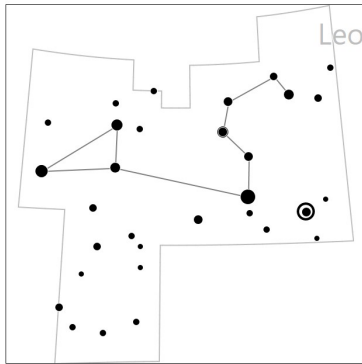
| Seq | ID | Priority | Constellation | Type | Size | Surface Brightness |
|--|-----|-------------------------|---------------|------------------|------------------|--------------------|
| Name | | | | | | |
| Transit Time | | Transit Altitude | | Best Time | Magnitude | Magnitude 2 |
| User Notes | | | | | | R.A. |
| Declination | | | | | | |
| 19 | M65 | 2 | Leo | Galaxy | 9x2.3 | 22.0 |
| Leo Triplet, NGC3623, UGC6328, Leo Triplet [1] | | | | | | |
| 11:27 PM | | 70° | | 11:30 PM | 10.1 | |
| | | | | | | 11h 18m 56s |
| +13°05.5' | | | | | | |



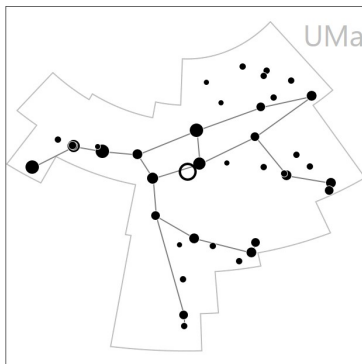
| | | | | | | |
|-----------|-------|-----|-----|----------|----------|-------------|
| 20 | Leo I | 3 | Leo | Galaxy | 10.7x8.3 | 23.7 |
| UGC5470 | | | | | | |
| 10:17 PM | | 69° | | 10:15 PM | 10.2 | |
| | | | | | | 10h 08m 24s |
| +12°18.0' | | | | | | |



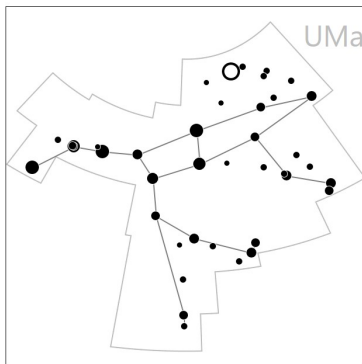
| Seq | ID | Priority | Constellation | Type | Size | Surface Brightness |
|--|-------|-------------------------|---------------|------------------|------|--------------------|
| Name | | | | | | |
| Transit Time | | Transit Altitude | | Best Time | | Magnitude |
| | | | | | | Magnitude 2 |
| User Notes | | | | | | R.A. |
| Declination | | | | | | |
| 21 | Subra | 2 | Leo | Triple | | n/a |
| SAO-098709, HR3852, HD83808, o Leo, 14 Leo | | | | | | |
| 9:49 PM | | 67° | | 9:45 PM | | 3.5 |
| | | | | | | 3.7 |
| | | | | | | 96.2 |
| | | | | | | 09h 41m 09s |
| +09°53.5' | | | | | | |



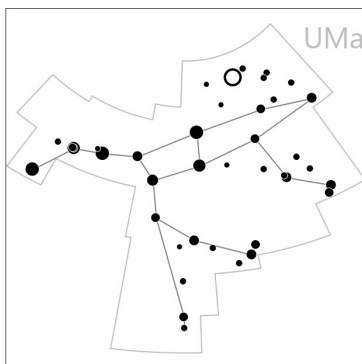
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|---------------------|-----|-----|-----|----------|-----|-------------|
| 22 | M97 | 3 | UMa | P Neb | 3.2 | 23.2 |
| Owl Nebula, NGC3587 | | | | | | |
| 11:23 PM | | 68° | | 11:15 PM | | 12.0 |
| | | | | | | 11h 14m 48s |
| +55°01.1' | | | | | | |



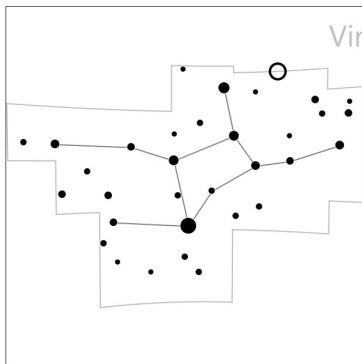
| Seq | ID | Priority | Constellation | Type | Size | Surface Brightness |
|--|-----|-------------------------|---------------|------------------|------------------|--------------------|
| Name | | | | | | |
| Transit Time | | Transit Altitude | | Best Time | Magnitude | Magnitude 2 |
| User Notes | | | | | | R.A. |
| Declination | | | | | | |
| 23 | M82 | 2 | UMa | Galaxy | 10.5x5.1 | 22.2 |
| Cigar Galaxy, Ursa Major A, NGC3034, UGC5322, Cigar Galaxy, Ursa Major A | | | | | | |
| 10:04 PM | | 54° | | 10:00 PM | 9.2 | |
| JY: M81 & M82 nice pair visible in low mag | | | | | | 09h 55m 53s |
| +69°40.8' | | | | | | |



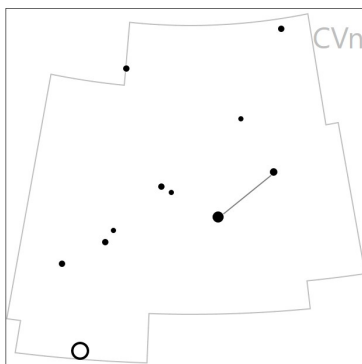
| | | | | | | |
|--|-----|-----|-----|----------|-----------|-------------|
| 24 | M81 | 2 | UMa | Galaxy | 24.9x11.5 | 22.6 |
| Bode's Galaxy, NGC3031, UGC5318, Bode's Galaxies (Nebulae) [1] | | | | | | |
| 10:04 PM | | 54° | | 10:00 PM | 7.8 | |
| JY: M81 & M82 nice pair visible in low mag | | | | | | 09h 55m 33s |
| +69°03.9' | | | | | | |



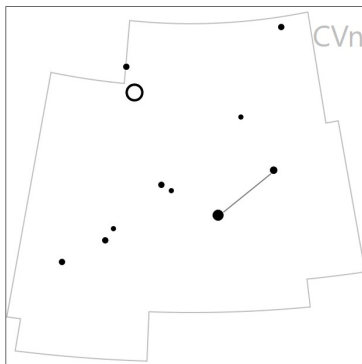
| Seq | ID | Priority | Constellation | Type | Size | Surface Brightness |
|---------------------|---------|-------------------------|---------------|------------------|------------------|--------------------|
| Name | | | | | | |
| Transit Time | | Transit Altitude | | Best Time | Magnitude | Magnitude 2 |
| User Notes | | | | | | R.A. |
| Declination | | | | | | |
| 25 | NGC4435 | 2 | Vir | Galaxy | 3 | 21.9 |
| Eyes [1] | | | | | | |
| 12:36 AM | | 70° | | 12:30 AM | 10.9 | |
| | | | | | | 12h 27m 40s |
| +13°04.7' | | | | | | |



| | | | | | | |
|------------|----|-----|-----|----------|------|-------------|
| 26 | M3 | 1 | CVn | Globular | 16.2 | 21.7 |
| M3,NGC5272 | | | | | | |
| 1:50 AM | | 85° | | 1:45 AM | 7.0 | |
| | | | | | | 13h 42m 15s |
| +28°22.4' | | | | | | |



| Seq | ID | Priority | Constellation | Type | Size | Surface Brightness |
|---|-----|-------------------------|---------------|------------------|----------|--------------------|
| Name | | | | | | |
| Transit Time | | Transit Altitude | | Best Time | | Magnitude |
| | | | | | | |
| User Notes | | | | | | R.A. |
| Declination | | | | | | |
| 27 | M51 | 3 | CVn | Galaxy | 10.8x6.6 | 22.2 |
| Whirlpool Galaxy, Question Mark Galaxy, NGC5194, UGC8493, Lord Rosse's Nebula, Question Mark, Rosse's Galaxy, Whirlpo | | | | | | |
| 1:38 AM | | 76° | | 1:30 AM | | 8.9 |
| JY: Nice interacting galaxies (Dark Sky) | | | | | | 13h 29m 52s |
| +47°11.7' | | | | | | |



| | | | | | | |
|---|---------|-----|-----|---------|--|-------------|
| 28 | Polaris | 2 | UMi | Mult | | n/a |
| SAO-000308, alp UMi, 1 UMi, HD8890, Alrucaba, Polaris, Lodestar, Navigatoria, North Star, HR424 | | | | | | |
| 2:40 PM | | 34° | | 8:30 PM | | 2.0 |
| | | | | | | 8.8 |
| JY: Nice double easy to find | | | | | | 02h 31m 49s |
| +89°15.8' | | | | | | |

