

# CALDWELL



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| Caldwell 56 | NGC246 - "Skull Nebula"                                                   | Cetus          | PN       |
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| Caldwell 77  | NGC5128 (Arp 153) - "Hamburger Galaxy"                                     | Centaurus           | Gx       |
| Caldwell 78  | NGC6541                                                                    | Corona Australis    | GC       |
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| Caldwell 80  | Omega Centauri (NGC5139 - Lacaille I.5)                                    | Centaurus           | GC       |
| Caldwell 81  | NGC6352                                                                    | Ara                 | GC       |
| Caldwell 82  | NGC6193 & NGC6188 - "Rim Nebula"                                           | Ara                 | OC + Neb |
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|                  | Caldwell 22  | NGC7662 - "Blue Snowball Nebula"                                           | PN       |
|                  | Caldwell 23  | NGC891 - "Silver Sliver Galaxy"                                            | Gx       |
| APUS             | Caldwell 107 | NGC6101                                                                    | GC       |
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| ARA              | Caldwell 82  | NGC6193 & NGC6188 - "Rim Nebula"                                           | OC + Neb |
|                  | Caldwell 81  | NGC6352                                                                    | GC       |
|                  | Caldwell 86  | NGC6397 (Lacaille III.11)                                                  | GC       |
| AURIGA           | Caldwell 31  | IC405 - "Flaming Star Nebula"                                              | Neb      |
| BOÖTES           | Caldwell 45  | NGC5248                                                                    | Gx       |
| CAMELOPARDALIS   | Caldwell 5   | IC342                                                                      | Gx       |
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| CANES VENATICI   | Caldwell 26  | NGC4244 - "Silver Needle Galaxy"                                           | Gx       |
|                  | Caldwell 21  | NGC4449 - "Box Galaxy"                                                     | Gx       |
|                  | Caldwell 32  | Arp 281 - "Whale Galaxy & the Pup"                                         | Gx       |
|                  | Caldwell 29  | NGC5005                                                                    | Gx       |
| CANIS MAJOR      | Caldwell 58  | NGC2360 - "Caroline's Cluster"                                             | OC       |
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| CARINA           | Caldwell 96  | NGC2516 (Lacaille II.3) - "Southern Beehive"                               | OC       |
|                  | Caldwell 102 | IC2602 (Lacaille II.9) - "Southern Pleiades"                               | OC       |
|                  | Caldwell 91  | NGC3532 (Lacaille II.10) - "Wishing Well Cluster"                          | OC       |
|                  | Caldwell 92  | NGC3372 (Lacaille III.6) - "Eta Carinae Nebula"                            | Neb      |
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| CASSIOPEIA       | Caldwell 13  | NGC457 - "Owl Cluster"                                                     | OC       |
|                  | Caldwell 8   | NGC559                                                                     | OC       |
|                  | Caldwell 10  | NGC663 - "Letter S Cluster"                                                | OC       |
|                  | Caldwell 11  | NGC7635 - "Bubble Nebula"                                                  | Neb      |
|                  | Caldwell 17  | NGC147                                                                     | Gx       |
|                  | Caldwell 18  | NGC185                                                                     | Gx       |
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|                  | Caldwell 84  | NGC5286                                                                    | GC       |
|                  | Caldwell 100 | IC2948, Collinder 249 & Van den Bergh-Hagen 121 - "Running Chicken Nebula" | Neb + OC |
|                  | Caldwell 83  | NGC4945 - "Tweezers Galaxy"                                                | Gx       |
|                  | Caldwell 77  | NGC5128 (Arp 153) - "Hamburger Galaxy"                                     | Gx       |
| CEPHEUS          | Caldwell 1   | NGC188 - "Polarissima Cluster"                                             | OC       |
|                  | Caldwell 4   | NGC7023 & Collinder 427 - "Iris Nebula"                                    | Neb + OC |
|                  | Caldwell 9   | Sharpless 155 - "Cave Nebula"                                              | Neb      |
|                  | Caldwell 2   | NGC40 - "Bow Tie Nebula"                                                   | PN       |
| CETUS            | Caldwell 56  | NGC246 - "Skull Nebula"                                                    | PN       |
|                  | Caldwell 62  | NGC247 - "Needle's Eye Galaxy"                                             | Gx       |
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|                  | Caldwell 61  | NGC4039 Arp 244 - "Antennae Galaxies"                                      | Gx       |
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|                  | Caldwell 99  | "The Coal Sack"                                                            | DN       |

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| CYGNUS              | Caldwell 27  | NGC6888 - "Crescent Nebula"                                               | Neb      |
|                     | Caldwell 20  | NGC7000 - "North America Nebula"                                          | Neb      |
|                     | Caldwell 19  | IC5146 & Collinder 470 - "Cocoon Nebula"                                  | Neb + OC |
|                     | Caldwell 15  | NGC6826 - "Blinking Planetary"                                            | PN       |
|                     | Caldwell 34  | NGC6960 - "Witch's Broom Nebula"                                          | SNR      |
|                     | Caldwell 33  | NGC6992 ("Network Nebula") & NGC6995 ("the Claw") - "Eastern Veil Nebula" | SNR      |
|                     | Caldwell 12  | NGC6946 (Arp 29) - "Fireworks Galaxy"                                     | Gx       |
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|                     | Caldwell 50  | NGC2244 - "Rosette Nebula"                                                | OC       |
|                     | Caldwell 46  | NGC2261 - "Hubble's Variable Nebula"                                      | Neb      |
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|                     | Caldwell 105 | NGC4833 (Lacaille I.4)                                                    | GC       |
| NORMA               | Caldwell 89  | NGC6087 - "S Normae Cluster"                                              | OC       |
| PAVO                | Caldwell 93  | NGC6752 (Lacaille I.13) - "Pavo Globular"                                 | GC       |
|                     | Caldwell 101 | NGC6744 & PGC62815                                                        | Gx       |
| PEGASUS             | Caldwell 30  | NGC7331                                                                   | Gx       |
|                     | Caldwell 44  | NGC7479 - "Propeller Galaxy"                                              | Gx       |
|                     | Caldwell 43  | NGC7814 - "Little Sombrero"                                               | Gx       |
| PERSEUS             | Caldwell 14  | "Double Cluster" (NGC869 & NGC884)                                        | OC       |
|                     | Caldwell 24  | NGC1275                                                                   | Gx       |
| PUPPIS              | Caldwell 71  | NGC2477 (Lacaille I.3) - "Termite Hole Cluster"                           | OC       |
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| SCORPIUS            | Caldwell 75  | NGC6124 (Lacaille I.8)                                                    | OC       |
|                     | Caldwell 76  | NGC6231 (Lacaille II.13) - "Northern Jewel Box"                           | OC       |
|                     | Caldwell 69  | NGC6302 - "Bug Nebula"                                                    | PN       |
| SCULPTOR            | Caldwell 72  | NGC55                                                                     | Gx       |
|                     | Caldwell 65  | NGC253 - "Silver Coin Galaxy"                                             | Gx       |
|                     | Caldwell 70  | NGC300                                                                    | Gx       |
| SEXTANS             | Caldwell 53  | NGC3115 - "Spindle Galaxy"                                                | Gx       |
| TAURUS              | Caldwell 41  | Melotte 25 - "the Hyades"                                                 | OC       |
| TRIANGULUM AUSTRALE | Caldwell 95  | NGC6025 (Lacaille III.10)                                                 | OC       |
| TUCANA              | Caldwell 106 | 47 Tucanae (NGC104 - Lacaille I.1)                                        | GC       |
|                     | Caldwell 104 | NGC362                                                                    | GC       |
| VELA                | Caldwell 85  | IC2391 (Lacaille II.5) - "Omicron Velorum Cluster"                        | OC       |
|                     | Caldwell 79  | NGC3201                                                                   | GC       |
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| VIRGO               | Caldwell 52  | NGC4697                                                                   | Gx       |
| VULPECULA           | Caldwell 37  | NGC6885 - "20 Vulpeculae Cluster"                                         | OC       |

OPEN CLUSTERS

|              |                                                    |                     |
|--------------|----------------------------------------------------|---------------------|
| Caldwell 1   | NGC188 - "Polarissima Cluster"                     | Cepheus             |
| Caldwell 8   | NGC559                                             | Cassiopeia          |
| Caldwell 10  | NGC663 - "Letter S Cluster"                        | Cassiopeia          |
| Caldwell 13  | NGC457 - "Owl Cluster"                             | Cassiopeia          |
| Caldwell 14  | "Double Cluster" (NGC869 & NGC884)                 | Perseus             |
| Caldwell 16  | NGC7243                                            | Lacerta             |
| Caldwell 28  | NGC752                                             | Andromeda           |
| Caldwell 37  | NGC6885 - "20 Vulpeculae Cluster"                  | Vulpecula           |
| Caldwell 41  | Melotte 25 - "the Hyades"                          | Taurus              |
| Caldwell 54  | NGC2506                                            | Monoceros           |
| Caldwell 58  | NGC2360 - "Caroline's Cluster"                     | Canis Major         |
| Caldwell 64  | NGC2362 - "Tau Canis Majoris Cluster"              | Canis Major         |
| Caldwell 71  | NGC2477 (Lacaille I.3)                             | Puppis              |
| Caldwell 75  | NGC6124 (Lacaille I.8)                             | Scorpius            |
| Caldwell 76  | NGC6231 (Lacaille II.13) - "Northern Jewel Box"    | Scorpius            |
| Caldwell 82  | NGC6193 & NGC6188 - "Rim Nebula"                   | Ara                 |
| Caldwell 85  | IC2391 (Lacaille II.5) - "Omicron Velorum Cluster" | Vela                |
| Caldwell 88  | NGC5823                                            | Circinus            |
| Caldwell 89  | NGC6087 - "S Normae Cluster"                       | Norma               |
| Caldwell 91  | NGC3532 (Lacaille II.10) - "Wishing Well Cluster"  | Carina              |
| Caldwell 94  | NGC4755 (Lacaille II.12) - "the Jewel Box"         | Crux                |
| Caldwell 95  | NGC6025 (Lacaille III.10)                          | Triangulum Australe |
| Caldwell 96  | NGC2516 (Lacaille II.3) - "Southern Beehive"       | Carina              |
| Caldwell 97  | NGC3766 (Lacaille III.7) - "Pearl Cluster"         | Centaurus           |
| Caldwell 98  | NGC4609 - "Coal Sack Cluster"                      | Crux                |
| Caldwell 102 | IC2602 (Lacaille II.9) - "Southern Pleiades"       | Carina              |

GLOBULAR CLUSTERS

|              |                                           |                  |
|--------------|-------------------------------------------|------------------|
| Caldwell 25  | NGC2419 - "Intergalactic Wanderer"        | Lynx             |
| Caldwell 42  | NGC7006                                   | Delphinus        |
| Caldwell 47  | NGC6934                                   | Delphinus        |
| Caldwell 66  | NGC5694                                   | Hydra            |
| Caldwell 73  | NGC1851                                   | Columba          |
| Caldwell 78  | NGC6541                                   | Corona Australis |
| Caldwell 79  | NGC3201                                   | Vela             |
| Caldwell 80  | Omega Centauri (NGC5139 - Lacaille I.5)   | Centaurus        |
| Caldwell 81  | NGC6352                                   | Ara              |
| Caldwell 84  | NGC5286                                   | Centaurus        |
| Caldwell 86  | NGC6397 (Lacaille III.11)                 | Ara              |
| Caldwell 87  | NGC1261                                   | Horologium       |
| Caldwell 93  | NGC6752 (Lacaille I.13) - "Pavo Globular" | Pavo             |
| Caldwell 104 | NGC362                                    | Tucana           |
| Caldwell 105 | NGC4833 (Lacaille I.4)                    | Musca            |
| Caldwell 106 | 47 Tucanae (NGC104 - Lacaille I.1)        | Tucana           |
| Caldwell 107 | NGC6101                                   | Apus             |
| Caldwell 108 | NGC4372                                   | Musca            |

NEBULAE

|              |                                                                            |                  |
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| Caldwell 4   | NGC7023 & Collinder 429 - "Iris Nebula"                                    | Cepheus          |
| Caldwell 9   | Sharpless 155 - "Cave Nebula"                                              | Cepheus          |
| Caldwell 11  | NGC7635 - "Bubble Nebula"                                                  | Cassiopeia       |
| Caldwell 19  | IC5146 & Collinder 470 - "Cocoon Nebula"                                   | Cygnus           |
| Caldwell 20  | NGC7000 - "North America Nebula"                                           | Cygnus           |
| Caldwell 27  | NGC6888 - "Crescent Nebula"                                                | Cygnus           |
| Caldwell 31  | IC405 - "Flaming Star Nebula"                                              | Auriga           |
| Caldwell 46  | NGC2261 - "Hubble's Variable Nebula"                                       | Monoceros        |
| Caldwell 49  | NGC2237                                                                    | Monoceros        |
| Caldwell 50  | NGC2244 - "Rosette Nebula"                                                 |                  |
| Caldwell 68  | NGC6729 - "R Coronae Australis Nebula" & "Coronet Cluster"                 | Corona Australis |
| Caldwell 92  | NGC3372 (Lacaille III.6) - "Eta Carinae Nebula"                            | Carina           |
| Caldwell 100 | IC2948, Collinder 249 & Van den Bergh-Hagen 121 - "Running Chicken Nebula" | Centaurus        |
| Caldwell 103 | 30 Doradus (NGC2070 - Lacaille I.2) - "Tarantula Nebula"                   | Dorado           |

## DARK NEBULAE

|             |                 |      |
|-------------|-----------------|------|
| Caldwell 99 | "The Coal Sack" | Crux |
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## PLANETARY NEBULAE

|              |                                       |            |
|--------------|---------------------------------------|------------|
| Caldwell 2   | NGC40 - "Bow Tie Nebula"              | Cepheus    |
| Caldwell 6   | NGC6543 & IC4677 - "Cat's Eye Nebula" | Draco      |
| Caldwell 15  | NGC6826 - "Blinking Planetary"        | Cygnus     |
| Caldwell 22  | NGC7662 - "Blue Snowball Nebula"      | Andromeda  |
| Caldwell 39  | NGC2392 - "Inuit Nebula"              | Gemini     |
| Caldwell 55  | NGC7009 - "Saturn Nebula"             | Aquarius   |
| Caldwell 56  | NGC246 - "Skull Nebula"               | Cetus      |
| Caldwell 59  | NGC3242 - "Ghost of Jupiter"          | Hydra      |
| Caldwell 63  | NGC7293 - "Helix Nebula"              | Aquarius   |
| Caldwell 69  | NGC6302 - "Bug Nebula"                | Scorpius   |
| Caldwell 74  | NGC3132 - "Southern Ring Nebula"      | Vela       |
| Caldwell 90  | NGC2867                               | Carina     |
| Caldwell 109 | NGC3195                               | Chamaeleon |

## SUPERNOVA REMNANTS

|             |                                                                           |        |
|-------------|---------------------------------------------------------------------------|--------|
| Caldwell 33 | NGC6992 ("Network Nebula") & NGC6995 ("the Claw") - "Eastern Veil Nebula" | Cygnus |
| Caldwell 34 | NGC6960 - "Witch's Broom Nebula"                                          | Cygnus |

## GALAXIES

|              |                                           |                |
|--------------|-------------------------------------------|----------------|
| Caldwell 3   | NGC4236                                   | Draco          |
| Caldwell 5   | IC342                                     | Camelopardalis |
| Caldwell 7   | NGC2403                                   | Camelopardalis |
| Caldwell 12  | NGC6946 (Arp 29) - "Fireworks Galaxy"     | Cygnus         |
| Caldwell 17  | NGC147                                    | Cassiopeia     |
| Caldwell 18  | NGC185                                    | Cassiopeia     |
| Caldwell 21  | NGC4449 - "Box Galaxy"                    | Canes Venatici |
| Caldwell 23  | NGC891 - "Silver Sliver Galaxy"           | Andromeda      |
| Caldwell 24  | NGC1275                                   | Perseus        |
| Caldwell 26  | NGC4244 - "Silver Needle Galaxy"          | Canes Venatici |
| Caldwell 29  | NGC5005                                   | Canes Venatici |
| Caldwell 30  | NGC7331                                   | Pegasus        |
| Caldwell 32  | Arp 281 - "Whale Galaxy & the Pup"        | Canes Venatici |
| Caldwell 35  | NGC4889 & PGC44708                        | Coma Berenices |
| Caldwell 36  | NGC4559 - "Koi Fish Galaxy"               | Coma Berenices |
| Caldwell 38  | NGC4565 - "Needle Galaxy"                 | Coma Berenices |
| Caldwell 40  | NGC3626                                   | Leo            |
| Caldwell 43  | NGC7814 - "Little Sombrero"               | Pegasus        |
| Caldwell 44  | NGC7479 - "Propeller Galaxy"              | Pegasus        |
| Caldwell 45  | NGC5248                                   | Boötes         |
| Caldwell 48  | NGC2775                                   | Cancer         |
| Caldwell 51  | IC1613                                    | Cetus          |
| Caldwell 52  | NGC4697                                   | Virgo          |
| Caldwell 53  | NGC3115 - "Spindle Galaxy"                | Sextans        |
| Caldwell 57  | NGC6822 - "Barnard's Galaxy"              | Sagittarius    |
| Caldwell 60  | NGC4038                                   | Corvus         |
| Caldwell 61  | NGC4039     Arp 244 - "Antennae Galaxies" |                |
| Caldwell 62  | NGC247 - "Needle's Eye Galaxy"            | Cetus          |
| Caldwell 65  | NGC253 - "Silver Coin Galaxy"             | Sculptor       |
| Caldwell 67  | Arp 77                                    | Fornax         |
| Caldwell 70  | NGC300                                    | Sculptor       |
| Caldwell 72  | NGC55                                     | Sculptor       |
| Caldwell 77  | NGC5128 (Arp 153) - "Hamburger Galaxy"    | Centaurus      |
| Caldwell 83  | NGC4945 - "Tweezers Galaxy"               | Centaurus      |
| Caldwell 101 | NGC6744 & PGC62815                        | Pavo           |