



Lacaille's Catalogue of Southern Deep-sky Objects

Deep-sky Observing Challenge

ASSA Deep-Sky Observing Section.

| Lac number | Other catalogue designations / Lacaille's description | Object type | RA (J2000.0) Dec | Con |
|---------------|---|------------------|--------------------------|-----|
| Lacaille I.1 | NGC 104, 47 Tuc, Dunlop 18, Ben 2, C 106 It resembles the nucleus of a fairly bright small comet. | globular cluster | 00 24 06 -72° 04' 53" | Tuc |
| Lacaille I.2 | NGC 2070, Tarantula Nebula, Dunlop 142, Ben 35, C 103 It resembles the preceding, but it is fainter. | bright nebula | 05 38 42 -69° 06' 00" | Dor |
| Lacaille I.3 | NGC 2477, Dunlop 535, C 71 Large nebulosity of 15' to 20' in diameter. | open cluster | 07 52 06 -38° 32' 00" | Pup |
| Lacaille I.4 | NGC 4833, Dunlop 164, Ben 56, C 105 It resembles a small comet, faint. | globular cluster | 12 59 35 -70° 52' 29" | Mus |
| Lacaille I.5 | NGC 5139, omega Centauri, Dunlop 440, Ben 61, C 80 Nebula in Centaurus; it appears to the naked eye like a third magnitude star seen through a thin mist, and in the telescope, like a large, ill-defined comet. | globular cluster | 13 26 46 -47° 28' 37" | Cen |
| Lacaille I.6 | NGC 5236, Southern Pinwheel, Dunlop 628, M 83, Ben 63 Small, formless nebulosity. | galaxy | 13 37 01 -29° 51' 59" | Hya |
| Lacaille I.7 | NGC 5281, Dunlop 273 Small, confused spot. | open cluster | 13 46 30 -62° 54' 54" | Cen |
| Lacaille I.8 | NGC 6124, Dunlop 514, C 75 It resembles a fairly large comet without a tail. | open cluster | 16 25 18 -40° 39' 00" | Sco |
| Lacaille I.9 | NGC 6121, Eye of the Scorpion, M 4, Ben 75 It resembles a small nucleus of a faint comet. | globular cluster | 16 23 35 -26° 31' 32" | Sco |
| Lacaille I.10 | NGC 6242, Dunlop 520 Faint patch, oval and elongated. | open cluster | 16 55 36 -39° 28' 00" | Sco |
| Lacaille I.11 | NGC 6634 It resembles a small nucleus of a faint comet. | asterism | 18 29 55 -33° 30' 40" | Sgr |
| Lacaille I.12 | NGC 6656, M 22, Ben 114 It resembles the preceding. | globular cluster | 18 36 24 -23° 54' 12" | Sgr |
| Lacaille I.13 | NGC 6777, Dunlop 69 It resembles the preceding. | asterism | 19 27 15 -71° 34' 55" | Pav |
| Lacaille I.14 | NGC 6809, Dunlop 620, M 55, Ben 122 It resembles the faint nucleus of a large comet. | globular cluster | 19 39 59.4-30° 57' 43.5" | Sgr |
| Lacaille II.1 | none A compressed heap of about 12 faint stars of 8th magnitude. | asterism | 04 02 53 -44° 26' 38" | Hor |
| Lacaille II.2 | Collinder 140, Tuft in the Tail of the Dog Heap of 8 stars of 6th-7th magnitude, which forms, to the naked eye, a nebulosity in the sky. | open cluster | 07 24 26.7-31° 51' 00" | CMa |
| Lacaille II.3 | NGC 2516, C 96 Group of 10 to 12 stars, much compressed. | open cluster | 07 58 06 -60° 45' 00" | Car |
| Lacaille II.4 | NGC 2546, Dunlop 563 Two neighboring groups of confused stars are seen by the eye but in the telescope they are faint, distinct stars, very numerous and close. | open cluster | 08 11 54 -37° 37' 00" | Pup |
| Lacaille II.5 | IC 2391, omicron Velorum Cluster, C 85 Small heap of stars. | open cluster | 08 40 40 -53° 03' 24" | Vel |
| Lacaille II.6 | Trumpler 10, Dunlop 490 Heap of seven or eight stars, slightly compressed. | open cluster | 08 47 45 -42° 30' 00" | Vel |
| Lacaille II.7 | NGC 3228, Dunlop 386 Heap of four or five stars, very small and compressed. | open cluster | 10 21 24 -51° 44' 00" | Vel |
| Lacaille II.8 | NGC 3293, Gem Cluster Small heap of four faint stars forming a lozenge. | open cluster | 10 35 48.8-58° 13' 00" | Car |

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| Lacaille II.9 | IC 2602, Southern Pleiades, C 102 The star Theta Navis, of the third magnitude or less, surrounded by a large number of stars of sixth, seventh and eighth magnitude, which make it resemble the Pleiades. | open cluster | 10 43 12 -64° 24' 00" | Car |
| Lacaille II.10 | NGC 3532, Pincushion Cluster, Dunlop 323, C 91 Prodigious cluster of faint stars, very compressed, filling up in the shape of semi-circle of 20' to 25' in diameter. | open cluster | 11 05 33 -58° 43' 48" | Car |
| Lacaille II.11 | Dunlop 324 Seven or eight faint stars compressed in a straight line. | asterism | 11 22 55 -58° 19' 36" | Cen |
| Lacaille II.12 | NGC 4755, Jewel Box, Dunlop 301, C 94 Five or six faint stars between two of sixth magnitude. | open cluster | 12 53 42 -60° 22' 00" | Cru |
| Lacaille II.13 | NGC 6231, Table of Scorpius, Dunlop 499, C 76 Heap of seven or eight faint compressed stars. | open cluster | 16 54 09 -41° 49' 36" | Sco |
| Lacaille II.14 | NGC 6475, Ptolemy's Cluster, M 7 Group of 15 or 20 stars, very close together, in the figure of a square. | open cluster | 17 53 48 -34° 47' 00" | Sco |
| Lacaille III.1 | SAO 217150 Faint star surrounded by a nebulosity | star | 05 03 18 -49° 28' 58" | Pic |
| Lacaille III.2 | NGC 2547, Dunlop 410 Five faint stars, in the shape of a T, surrounded by nebulosity. | open cluster | 08 10 26 -49° 10' 03" | Vel |
| Lacaille III.3 | IC 2395 Star of 6th magnitude, connected to another more southern one by a nebulous trail. | open cluster | 08 42 31 -48° 08' 12" | Vel |
| Lacaille III.4 | IC 2488 Faint star surrounded by nebulosity. | open cluster | 09 27 36 -57° 00' 00" | Vel |
| Lacaille III.5 & 6 | NGC 3372, eta Carinae Nebula, Dunlop 309, C 92 (III.5): Two faint stars surrounded by nebulosity. (III.6): Large group of a great number of faint stars, a little compressed, and occupying the space of a semi-circle of 15' to 20' diameter; with a slight nebulosity spreading in that space. | bright nebula | 10 44 19 -59° 53' 21" | Car |
| Lacaille III.7 | NGC 3766, Rich Man's Jewel Box, Dunlop 289, C 97 Three faint stars close together, enveloped in nebulosity. | open cluster | 11 36 13 -61° 36' 55" | Cen |
| Lacaille III.8 | NGC 5662, Dunlop 342 Two faint stars in a nebulosity. | open cluster | 14 35 36 -56° 37' 00" | Cen |
| Lacaille III.9 | Dunlop 314 The same [as above] | asterism | 15 22 21 -59° 12' 17" | Cir |
| Lacaille III.10 | NGC 6025, Dunlop 304, C 95 Three faint stars in a straight line, surrounded by nebulosity. | open cluster | 16 03 18 -60° 26' 00" | TrA |
| Lacaille III.11 | NGC 6397, Dunlop 366, Ben 98, C 86 Faint star enveloped in a nebulosity. | globular cluster | 17 40 41 -53° 40' 25.3" | Ara |
| Lacaille III.12 | NGC 6405, Butterfly Cluster, M 6 Unusual cluster of faint stars, disposed in three parallel bands, forming a lozenge of 20' to 25' diameter and filled with nebulosity. | open cluster | 17 40 18 -32° 12' 00" | Sco |
| Lacaille III.13 | NGC 6523 Three stars enclosed in a trailing nebulosity parallel to the Equator. | open cluster | 18 03 12 -24° 23' 00" | Sgr |
| Lacaille III.14 | Dunlop 329 Two faint stars surrounded by nebulosity. | asterism | 21 31 27 -56° 55' 25" | Ind |

Lacaille's Class I: "List of nebulae of the first class. Or nebulosities not accompanied by any star visible in a telescope of two feet. ... It is possible that each of these nebulae may really be a faint comet; time did not allow me to decide, by searching the sky, to see if they remained always in the same place." **Lacaille's Class II:** "List of nebulous stars in clusters." **Lacaille's Class III:** "List of stars accompanied by nebulosity. ... I have not observed a single star above 6th mag which was surrounded or accompanied by nebulosity."

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| Open clusters | 24 |
| Globular clusters | 7 |
| Bright nebulae | 2 |
| Galaxies | 1 |
| Asterisms & stars | 7 |
| Total | 41 |