

The Caldwell Catalogue on Microsoft Access

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The Caldwell Catalogue on Microsoft Access

The Caldwell Catalogue is a list of 109 deep-sky objects devised by the late Sir Patrick Moore which was first published in 1995.

It is similar, in concept, to the Messier Catalogue but it also features deep-sky objects in the Southern Celestial Hemisphere which are not visible from the UK.

If you are au fait with MS Access you will be able to apply the search and query tools directly to the programme file to investigate aspects of the Caldwell Catalogue.

Some demonstrations on how the file can be used to study the Caldwell Catalogue have been given in this tutorial so that people who do not have the database can still benefit from its features.

Types of Information (Database Fields)

Caldwell Label:	C 1 to C109	Popular Name:	Constellation:
Caldwell Number:	In numerical form to facilitate listing in order.	Alternative Name:	Constellation Rank: Numerical label
NGC Number:	The New General Catalogue Number is given where appropriate.	Type: Object type	Type Details:
		Main Database: This gives the main database of which the object is a member.	SIMBAD details: Using the SIMBAD database to check data.
		Magnitude:	
		Distance:	Using lightyears

Right ascension and declination for J2000 epoch.

Right ascension and declination for Christmas Australis (1 am BST 25th June 2021)

Notes: In particular this highlights cases where there are significant differences in information from different sources.

The form in the database called "Caldwell Catalogue" shows this information ...

Caldwell Catalogue

The Caldwell Catalogue

Caldwell Label: C 1

Caldwell Number: 1

NGC Number: 188

Popular Name: Polarissima Cluster

Alternative Name:

Constellation: Cepheus

Const Rank: 5

Type: Open star cluster

Type Details: II 2r

Main Database: Star Clusters

SIMBAD Details:

Magnitude: 8.1

Distance (Ly): 7507.3

RA Hours J2000:	RA Mins J2000:	RA Secs J2000:	Dec Degs J2000:	Dec Mins J2000:	Dec Secs J2000:
0	48	25.92	85	15	18

RA Hours Xmas A:	RA Mins Xmas A:	RA Secs Xmas A:	Dec Degs Xmas A:	Dec Mins Xmas A:	Dec Secs Xmas A:
0	50	47.2	85	22	25.1

Notes: Distance 4800 ly (Wikipedia)

Record: 1 of 109 No Filter Search

Form View

↑ Click on the arrow keys to show different Caldwell objects.

1. [Listing the Objects in Descending Order of Angle of Declination.](#)

It is claimed that the numerically labelled objects in the Caldwell Catalogue are in descending order of angle of declination. Is this actually the case?

Use the query “Coordinates J2000” which lists the Caldwell Objects in descending order of angle of declination.

Coordinates (J2000)								
Caldwell	Popular Name	RA Hours J2000	RA Mins J2000	RA Secs J2000	Dec Degs J2000	Dec Mins J2000	Dec Secs J2000	Constellation
1	Polarissima Cluster	0	48	25.92	85	15	18	Cepheus
2	Bow-Tie Nebula	0	13	1.02	72	31	19.1	Cepheus
3		12	16	42.12	69	27	45.3	Draco
4	Iris Nebula	21	1	36.89	68	9	47.9	Cepheus
5	Maffei 1 Group	3	46	48.52	68	5	46	Camelopardalis
6	Cat's Eye Nebula	17	58	33.43	66	37	59.5	Draco
7		7	36	51.4	65	36	9.2	Camelopardalis
8		1	29	31.2	63	18	7.2	Cassiopeia
9	Cave Nebula	22	57	17	62	28	32.9	Cepheus
10	Lawnmower Cluster	1	46	8.89	61	14	6	Cassiopeia
11	Bubble Nebula	23	20	48.29	61	12	6.1	Cassiopeia
12	Fireworks Galaxy	20	34	52.34	60	9	13.3	Cygnus
13	Dragonfly Cluster	1	19	35.04	58	17	13.2	Cassiopeia
14	Double Cluster	2	19	0.01	57	7	40.8	Perseus
15	Blinking Planetary Nebula	19	44	48.16	50	31	30.3	Cygnus
16		22	15	7.92	49	53	52.8	Lacerta
17		0	33	12.13	48	30	31.5	Cassiopeia
18		0	38	57.98	48	20	14.6	Cassiopeia
19	Cocoon Nebula	21	53	24.01	47	16	1.2	Cygnus
20	North America Nebula	20	58	47.05	44	19	48	Cygnus
21		12	28	11.12	44	5	36.8	Canes Venatici
22	Blue Snowball	23	25	53.59	42	32	6	Andromeda
23		2	22	32.91	42	20	54	Andromeda
24	Perseus A	3	19	48.17	41	30	42.1	Perseus
25	Intergalactic Wanderer	7	38	8.52	38	52	54.9	Lynx
27	Crescent Nebula	20	12	6.96	38	21	18	Cygnus
26		12	17	29.66	37	48	25.6	Canes Venatici
28		1	57	41.04	37	47	6	Andromeda
29		13	10	56.32	37	3	32.2	Canes Venatici

Note that C26 and C27 are out of order!

Coordinates (J2000)								
Caldwell	Popular Name	RA Hours J2000	RA Mins J2000	RA Secs J2000	Dec Degs J2000	Dec Mins J2000	Dec Secs J2000	Constellation
30	Deer Lick Group	22	37	4.1	34	24	57.3	Pegasus
31	Flaming Star Nebula	5	17	24	34	22	48	Auriga
32	Whale Galaxy	12	42	8.01	32	32	29.4	Canes Venatici
33	East Veil Nebula	20	56	18.97	31	44	34.8	Cygnus
34	Filamentary Nebula	20	45	38	30	42	29.9	Cygnus
35	Coma B	13	0	8.1	27	58	37.3	Coma Berenices
36	Koi Fish Galaxy	12	35	57.69	27	57	35.1	Coma Berenices
37	10 Vulpeculae Cluster	20	12	0.96	26	28	40.8	Vulpecula
38	Needle Galaxy	12	36	20.81	25	59	14.6	Coma Berenices
39	Eskimo Nebula	7	29	10.77	20	54	42.5	Gemini
40		11	20	3.8	18	21	24.5	Leo
42		21	1	29.47	16	11	16.5	Delphinus
43	The Little Sombrero Galaxy	0	3	14.95	16	8	42.8	Pegasus
41	Hyades	4	27	0	15	52	0.1	Taurus
44	Superman Galaxy	23	4	56.67	12	19	22.4	Pegasus
45		13	37	32.07	8	53	6.2	Bootes
46	Hubble's Variable Nebula	6	39	9.95	8	44	9.7	Monoceros
47		20	34	11.37	7	24	16.1	Delphinus
48		9	10	20.12	7	2	16.5	Cancer
49	Rosette Nebula	6	30	28.81	5	3	0	Monoceros
50	Rosette Nebula	6	31	54.96	4	56	31.2	Monoceros
51		1	4	47.81	2	7	4	Cetus
52		12	48	35.91	-5	-48	-3.1	Virgo
53	Spindle Galaxy	10	5	13.98	-7	-43	-6.9	Sextans
54		8	0	0.96	-10	-46	-12	Monoceros
55	Saturn Nebula	21	4	10.88	-11	-21	-48.3	Aquarius
56	Skull Nebula	0	47	3.34	-11	-52	-18.9	Cetus
57	Barnard's Galaxy	19	44	56.2	-14	-47	-51.3	Sagittarius
58	Caroline's Cluster	7	17	42.97	-15	-38	-31.2	Canis Major

Note that C41 (The Hyades) is out of place.

Coordinates (J2000)								
Caldwell	Popular Name	RA Hours J2000	RA Mins J2000	RA Secs J2000	Dec Degs J2000	Dec Mins J2000	Dec Secs J2000	Constellation
59	Ghost of Jupiter Nebula	10	24	46.11	-18	-38	-32.6	Hydra
60	Antennae	12	1	53.01	-18	-52	-3.3	Corvus
61	Antennae	12	1	53.69	-18	-53	-8.2	Corvus
62	Burbidge Chain	0	47	8.56	-20	-45	-37.4	Cetus
63	Helix Nebula	22	29	38.54	-20	-50	-13.6	Aquarius
64	Pirate's Jewels Cluster	7	18	41.04	-24	-57	-18	Canis Major
65	Sculptor Galaxy	0	47	33.14	-25	-17	-19.7	Sculptor
66		14	39	36.53	-26	-32	-18	Hydra
67		2	46	19.06	-30	-16	-29.7	Fornax
68	R CrA Nebula	19	1	46.4	-36	-57	-40	Corona Australis
69	Bug Nebula	17	13	44.2	-37	-6	-15.9	Scorpius
70	Southern Pinwheel Galaxy	0	54	53.48	-37	-41	-3.8	Sculptor
71	Electric Guitar Galaxy	7	52	10.08	-38	-31	-48	Puppis Australis
72	String of Pearls	0	14	53.61	-39	-11	-47.9	Sculptor
73		5	14	6.77	-40	-2	-47.6	Columba
74	Eight-Burst Planetary Nebula	10	7	1.77	-40	-26	-11.1	Vela
75		16	25	19.92	-40	-39	-10.8	Scorpius
76	Northern Jewel Box Cluster	16	54	8.51	-41	-49	-36	Scorpius
77	The Hamburger Galaxy	13	25	27.62	-43	-1	-8.8	Centaurus
78	Cacciatore Cluster	18	8	2.36	-43	-42	-53.6	Corona Australis
79		10	17	36.83	-46	-24	-44.9	Vela
80	Omega Cen Cluster	13	26	47.29	-47	-28	-46.1	Centaurus
81		17	25	29.11	-48	-25	-19.8	Ara
82		16	41	19.92	-48	-45	-46.8	Ara
83	The Tweezers Galaxy	13	5	27.28	-49	-28	-4.4	Centaurus
84		13	46	26.81	-51	-22	-27.3	Centaurus
85	Omicron Velorum Cluster	8	40	31.92	-53	-1	-58.8	Vela
86		17	40	42.09	-53	-40	-27.6	Ara
87		3	12	16.21	-55	-12	-58.4	Horologium

All in order!

Coordinates (J2000)								
Caldwell	Popular Name	RA Hours J2000	RA Mins J2000	RA Secs J2000	Dec Degs J2000	Dec Mins J2000	Dec Secs J2000	Constellation
88		15	5	31.21	-55	-35	-42	Circinus
89	S Norma Cluster	16	18	49.93	-57	-56	-6	Norma
90		9	21	25.34	-58	-18	-40.7	Carina
91	Wishing Well Cluster	11	5	39.12	-58	-45	-10.8	Carina
92	eta Carinae Nebula	10	44	19.01	-59	-53	-21.1	Carina
93	Pavo Globular Cluster	19	10	52.12	-59	-59	-4.4	Pavo
94	Jewel Box	12	53	38.88	-60	-21	-43.2	Crux
95		16	3	17.04	-60	-25	-55.2	Triangulum Austr
96	Diamond Cluster	7	58	4.08	-60	-45	-10.8	Carina
97	Pearl Cluster	11	36	18	-61	-36	-54	Centaurus
99	Coalsack Nebula	12	50	0.01	-62	-30	0	Crux
98	Coalsack Cluster	12	42	18	-62	-59	-42	Crux
100	Running Chicken Nebula	11	38	20.41	-63	-22	-22.1	Centaurus
101		19	9	46.1	-63	-51	-27.2	Pavo
102	Southern Pleiades	10	42	58.08	-64	-24	0	Carina
103	Tarantula Nebula	5	38	42.01	-69	-6	0	Dorado
104		1	3	14.27	-70	-50	-55.6	Tucana
105	The Southern Butterfly	12	59	33.92	-70	-52	-35.4	Musca
106	47 Tucanae	0	24	5.36	-72	-4	-53.2	Tucana
107		16	25	48.12	-72	-12	-7.9	Apus
108		12	25	45.43	-72	-39	-32.7	Musca
109		10	9	20.91	-80	-51	-30.7	Chamaeleon
*								

The Coalsack Nebula and the Coalsack Cluster are not in order.

2. [Constellations](#)

The following table shows how the 109 Caldwell objects are distributed across various constellations.

Constellation	Number of Caldwell Objects	Constellation	Number of Caldwell Objects	Constellation	Number of Caldwell Objects
Draco	2	Virgo	1	Corona Australis	2
Camelopardalis	2	Scorpius	3	Ara	3
Cassiopeia	6	Sagittarius	1	Norma	1
Cepheus	4	Aquarius	2	Centaurus	6
Lacerta	1	Taurus	1	Crux	3
Cygnus	7	Gemini	1	Carina	5
Bootes	1	Cancer	1	Vela	3
Canes Venatici	4	Leo	1	Puppis (Australis)	1
Lynx	1	Sextans	1	Columba	1
Auriga	1	Corvus	2	Dorado	1
Perseus	2	Hydra	2	Horologium	1
Andromeda	3	Monoceros	4	Tucana	2
Pegasus	3	Canis Major	2	Pavo	2
Delphinus	2	Cetus	3	Triangulum Australe	1
Vulpecula	1	Fornax	1	Circinus	1
Coma Berenices	3	Sculptor	3	Musca	2
				Apus	1
				Chamaeleon	1
				TOTAL	109

3. [Listing the Objects in Ascending Order of Magnitude Value.](#)

Use the query “Magnitude” which lists the Caldwell Objects in ascending order of magnitude value. (That is, the objects get dimmer as the list goes on.)

Magnitude										
Caldwell	Popular Name	Magnitude	RA Hours J2000	RA Mins J2000	RA Secs J2000	Dec Degs J2000	Dec Mins J2000	Dec Secs J2000	Constellation	
41	Hyades	0.5	4	27	0	15	52	0.1	Taurus	
14	Double Cluster	3.8	2	19	0.01	57	7	40.8	Perseus	
20	North America Nebula	4	20	58	47.05	44	19	48	Cygnus	
64	Pirate's Jewels Cluster	4.1	7	18	41.04	-24	-57	-18	Canis Major	
50	Rosette Nebula	4.8	6	31	54.96	4	56	31.2	Monoceros	
28		5.7	1	57	41.04	37	47	6	Andromeda	
71	Electric Guitar Galaxy	5.8	7	52	10.08	-38	-31	-48	Puppis Australis	
31	Flaming Star Nebula	6	5	17	24	34	22	48	Auriga	
16		6.4	22	15	7.92	49	53	52.8	Lacerta	
13	Dragonfly Cluster	6.4	1	19	35.04	58	17	13.2	Cassiopeia	
4	Iris Nebula	6.8	21	1	36.89	68	9	47.9	Cepheus	
34	Filamentary Nebula	7	20	45	38	30	42	29.9	Cygnus	
33	East Veil Nebula	7	20	56	18.97	31	44	34.8	Cygnus	
10	Lawnmower Cluster	7.1	1	46	8.89	61	14	6	Cassiopeia	
69	Bug Nebula	7.1	17	13	44.2	-37	-6	-15.9	Scorpius	
19	Cocoon Nebula	7.2	21	53	24.01	47	16	1.2	Cygnus	
58	Caroline's Cluster	7.2	7	17	42.97	-15	-38	-31.2	Canis Major	
27	Crescent Nebula	7.4	20	12	6.96	38	21	18	Cygnus	
54		7.6	8	0	0.96	-10	-46	-12	Monoceros	
63	Helix Nebula	7.6	22	29	38.54	-20	-50	-13.6	Aquarius	
9	Cave Nebula	7.7	22	57	17	62	28	32.9	Cepheus	
72	String of Pearls	7.9	0	14	53.61	-39	-11	-47.9	Sculptor	
65	Sculptor Galaxy	8	0	47	33.14	-25	-17	-19.7	Sculptor	
55	Saturn Nebula	8	21	4	10.88	-11	-21	-48.3	Aquarius	
70	Southern Pinwheel Galaxy	8.1	0	54	53.48	-37	-41	-3.8	Sculptor	
57	Barnard's Galaxy	8.1	19	44	56.2	-14	-47	-51.3	Sagittarius	
6	Cat's Eye Nebula	8.1	17	58	33.43	66	37	59.5	Draco	
37	10 Vulpeculae Cluster	8.1	20	12	0.96	26	28	40.8	Vulpecula	
1	Polarissima Cluster	8.1	0	48	25.92	85	15	18	Cepheus	

Magnitude										
Caldwell	Popular Name	Magnitude	RA Hours J2000	RA Mins J2000	RA Secs J2000	Dec Degs J2000	Dec Mins J2000	Dec Secs J2000	Constellation	
22	Blue Snowball	8.3	23	25	53.59	42	32	6	Andromeda	
59	Ghost of Jupiter Nebula	8.6	10	24	46.11	-18	-38	-32.6	Hydra	
47		8.8	20	34	11.37	7	24	16.1	Delphinus	
15	Blinking Planetary Nebula	8.8	19	44	48.16	50	31	30.3	Cygnus	
7		8.9	7	36	51.4	65	36	9.2	Camelopardalis	
46	Hubble's Variable Nebula	9	6	39	9.95	8	44	9.7	Monoceros	
49	Rosette Nebula	9	6	30	28.81	5	3	0	Monoceros	
5	Maffei 1 Group	9.1	3	46	48.52	68	5	46	Camelopardalis	
25	Intergalactic Wanderer	9.1	7	38	8.52	38	52	54.9	Lynx	
62	Burbidge Chain	9.1	0	47	8.56	-20	-45	-37.4	Cetus	
32	Whale Galaxy	9.2	12	42	8.01	32	32	29.4	Canes Venatici	
18		9.2	0	38	57.98	48	20	14.6	Cassiopeia	
51		9.2	1	4	47.81	2	7	4	Cetus	
21		9.4	12	28	11.12	44	5	36.8	Canes Venatici	
8		9.5	1	29	31.2	63	18	7.2	Cassiopeia	
17		9.5	0	33	12.13	48	30	31.5	Cassiopeia	
67		9.5	2	46	19.06	-30	-16	-29.7	Fornax	
30	Deer Lick Group	9.5	22	37	4.1	34	24	57.3	Pegasus	
12	Fireworks Galaxy	9.6	20	34	52.34	60	9	13.3	Cygnus	
39	Eskimo Nebula	9.7	7	29	10.77	20	54	42.5	Gemini	
53	Spindle Galaxy	9.9	10	5	13.98	-7	-43	-6.9	Sextans	
11	Bubble Nebula	10	23	20	48.29	61	12	6.1	Cassiopeia	
36	Koi Fish Galaxy	10	12	35	57.69	27	57	35.1	Coma Berenices	
26		10	12	17	29.66	37	48	25.6	Canes Venatici	
23		10.1	2	22	32.91	42	20	54	Andromeda	
48		10.5	9	10	20.12	7	2	16.5	Cancer	
42		10.5	21	1	29.47	16	11	16.5	Delphinus	
3		10.5	12	16	42.12	69	27	45.3	Draco	
2	Bow-Tie Nebula	10.7	0	13	1.02	72	31	19.1	Cepheus	

Magnitude										
Caldwell	Popular Name	Magnitude	RA Hours J2000	RA Mins J2000	RA Secs J2000	Dec Degs J2000	Dec Mins J2000	Dec Secs J2000	Constellation	
44	Superman Galaxy	10.9	23	4	56.67	12	19	22.4	Pegasus	
60	Antennae	10.9	12	1	53.01	-18	-52	-3.3	Corvus	
66		10.9	14	39	36.53	-26	-32	-18	Hydra	
45		11	13	37	32.07	8	53	6.2	Bootes	
52		11	12	48	35.91	-5	-48	-3.1	Virgo	
61	Antennae	11.1	12	1	53.69	-18	-53	-8.2	Corvus	
40		11.2	11	20	3.8	18	21	24.5	Leo	
35	Coma B	11.3	13	0	8.1	27	58	37.3	Coma Berenices	
43	The Little Sombrero Galaxy	11.6	0	3	14.95	16	8	42.8	Pegasus	
56	Skull Nebula	11.8	0	47	3.34	-11	-52	-18.9	Cetus	
38	Needle Galaxy	12.4	12	36	20.81	25	59	14.6	Coma Berenices	
24	Perseus A	12.5	3	19	48.17	41	30	42.1	Perseus	
29		13.7	13	10	56.32	37	3	32.2	Canes Venatici	
*										

The following list shows the Caldwell Objects, which are not visible from the south coast of England, in ascending order of magnitude value. (That is, the brightest objects come first.)

Magnitude										
Caldwell	Popular Name	Magnitude	RA Hours J2000	RA Mins J2000	RA Secs J2000	Dec Degs J2000	Dec Mins J2000	Dec Secs J2000	Constellation	
92	eta Carinae Nebula	1	10	44	19.01	-59	-53	-21.1	Carina	
102	Southern Pleiades	1.9	10	42	58.08	-64	-24	0	Carina	
85	Omicron Velorum Cluster	2.5	8	40	31.92	-53	-1	-58.8	Vela	
76	Northern Jewel Box Cluster	2.6	16	54	8.51	-41	-49	-36	Scorpius	
91	Wishing Well Cluster	3	11	5	39.12	-58	-45	-10.8	Carina	
96	Diamond Cluster	3.8	7	58	4.08	-60	-45	-10.8	Carina	
106	47 Tucanae	4.1	0	24	5.36	-72	-4	-53.2	Tucana	
94	Jewel Box	4.2	12	53	38.88	-60	-21	-43.2	Crux	
100	Running Chicken Nebula	4.5	11	38	20.41	-63	-22	-22.1	Centaurus	
95		5.1	16	3	17.04	-60	-25	-55.2	Triangulum Austr	
82		5.2	16	41	19.92	-48	-45	-46.8	Ara	
86		5.2	17	40	42.09	-53	-40	-27.6	Ara	
80	Omega Cen Cluster	5.3	13	26	47.29	-47	-28	-46.1	Centaurus	
97	Pearl Cluster	5.3	11	36	18	-61	-36	-54	Centaurus	
89	S Norma Cluster	5.4	16	18	49.93	-57	-56	-6	Norma	
75		5.8	16	25	19.92	-40	-39	-10.8	Scorpius	
93	Pavo Globular Cluster	6.3	19	10	52.12	-59	-59	-4.4	Pavo	

4. [Caldwell Objects in the New General Catalogue \(NGC Catalogue\)](#)

All but the following ten Caldwell Objects are listed in the NGC Catalogue.

Magnitude									
Caldwell	Popular Name	Magnitude	RA Hours J2000	RA Mins J2000	RA Secs J2000	Dec Degs J2000	Dec Mins J2000	Dec Secs J2000	Constellation
5	Maffei 1 Group	9.1	3	46	48.52	68	5	46	Camelopardalis
9	Cave Nebula	7.7	22	57	17	62	28	32.9	Cepheus
19	Cocoon Nebula	7.2	21	53	24.01	47	16	1.2	Cygnus
31	Flaming Star Nebula	6	5	17	24	34	22	48	Auriga
41	Hyades	0.5	4	27	0	15	52	0.1	Taurus
51		9.2	1	4	47.81	2	7	4	Cetus
85	Omicron Velorum Cluster	2.5	8	40	31.92	-53	-1	-58.8	Vela
99	Coalsack Nebula		12	50	0.01	-62	-30	0	Crux
100	Running Chicken Nebula	4.5	11	38	20.41	-63	-22	-22.1	Centaurus
102	Southern Pleiades	1.9	10	42	58.08	-64	-24	0	Carina

5. [Types of Caldwell Objects](#)

The following tables show the types of Caldwell Objects described on Stellarium.

STELLARIUM	
Astronomical Object	Total
Active Galaxies	6
Galaxies	27
Interacting Galaxies	2
Dark Nebula	1
Globular Star Clusters	18
Planetary Nebulae	13
Supernova Remnants	2
Cluster-Nebulosity	3
H II Regions	6
Emission Nebula	2
Reflection Nebula	1
Interstellar Matter	1
Open Star Clusters	27
Grand Total	109

WIKIPEDIA	
Astronomical Object	Total
Galaxies	35
Dark Nebula	1
Globular Star Clusters	18
Planetary Nebulae	13
Supernova Remnants	2
Cluster-Nebulosity	6
Nebulae	9
Open Star Clusters	25
Grand Total	109

CALDWELL OBJECTS ON STELLARIUM										
Galaxies		Cluster - Nebulosity	Dark Nebula	Nebulae	Globular Star Cluster	Open Star Clusters		Planetary Nebulae	Supernova Remnants	
C3	C48	C4	C99	C9	C25	C1	C91	C2	C33	
C5	C51	C19		C11	C42	C8	C94	C6	C34	
C7	C52	C103		C20	C47	C10	C95	C15		
C12	C53	Listed by WIKIPEDIA		C27	C66	C13	C96	C22		
C17	C57	C64		C31	C73	C14	C97	C39		
C18	C60	C76		C46	C78	C16	C98	C55		
C21	C61	C100		C49	C79	C28	C102	C56		
C23	C62			C68	C80	C37		C59		
C24	C65			C92	C81	C41		C63		
C26	C67			C100	C84	C50		C69		
C29	C70				C86	C54		C74		
C30	C72				C87	C58		C90		
C32	C77				C93	C64		C109		
C35	C83				C104	C71				
C36	C101				C105	C75				
C38					C106	C76				
C40					C107	C82				
C43					C108	C85				
C44						C88				
C45						C89				
35		3	1	10	18	27		13	2	
					Total	109				

Note that there is a slight discrepancy between Stellarium and Wikipedia since Wikipedia lists three extra clusters associated with nebulosity.

6. [Listing the Distance of Caldwell Objects from Earth](#)

Use the query “Distances” which lists the Caldwell Objects in ascending order of distance (in lightyears) from Earth.

Distances				
Caldwell	Popular Name	Distance (Ly)	Notes	Constellation
41	Hyades	153.3	Melotte 25	Taurus
63	Helix Nebula	518.7		Aquarius
102	Southern Pleiades	543.9	Distance 492 ly (Wikipedia) / IC	Carina
85	Omicron Velorum Cluster	574.1	IC 2391	Vela
99	Coalsack Nebula	600.2		Crux
96	Diamond Cluster	1128.7		Carina
4	Iris Nebula	1300.2	Distance 1400 ly (Wikipedia) / C	Cepheus
33	East Veil Nebula	1470.2	Distance 2500 ly (Wikipedia) / H	Cygnus
34	Filamentary Nebula	1470.2	Distance 2500 ly (Wikipedia) / Ir	Cygnus
28		1494	Distance 4700 ly (Wikipedia)	Andromeda
31	Flaming Star Nebula	1500.2	IC 405 / Radio source	Auriga
75		1533.1		Scorpius
56	Skull Nebula	1549.4	Magnitude 8 (Wikipedia)	Cetus
91	Wishing Well Cluster	1621.2		Carina
20	North America Nebula	1892		Cygnus
37	10 Vulpeculae Cluster	1957.2	Magnitude 6 (Wikipedia)	Vulpecula
9	Cave Nebula	2400.2	LBN 529 / SH 2-155	Cepheus
69	Bug Nebula	2417.1	Distance 5200 ly / Magnitude 13	Scorpius
95		2508.5		Triangulum Australe
46	Hubble's Variable Nebula	2609.6	Herbig Ae/Be star (SIMBAD)	Monoceros
16		2635.7	Distance 2500 ly (Wikipedia)	Lacerta
59	Ghost of Jupiter Nebula	3568.6	Distance 1400 ly (Wikipedia)	Hydra
8		3718.7		Cassiopeia
89	S Norma Cluster	3728.1		Norma
82		3767.6		Ara
64	Pirate's Jewels Cluster	3814.4	Distance 5100 ly (Wikipedia) / C	Canis Major
88		3888.3		Circinus
71	Electric Guitar Galaxy	3986.2		Puppis Australis
98	Coalsack Cluster	3989.4		Crux

Distances				
Caldwell	Popular Name	Distance (Ly)	Notes	Constellation
2	Bow-Tie Nebula	4074.2	Distance 3500 ly (Wikipedia)	Cepheus
76	Northern Jewel Box Cluster	4077.5	Distance 6000 ly / Open cluster	Scorpius
39	Eskimo Nebula	4106.9		Gemini
74	Eight-Burst Planetary Nebula	4119.9	Distance 2000 ly / Magnitude 8 (Vela
55	Saturn Nebula	4322.2	Distance 1400 ly (Wikipedia)	Aquarius
27	Crescent Nebula	4700.5	Interstellar matter (SIMBAD)	Cygnus
15	Blinking Planetary Nebula	5186.6	Distance 2200 ly (Wikipedia)	Cygnus
13	Dragonfly Cluster	5219.2		Cassiopeia
49	Rosette Nebula	5219.2	NGC 2237 / Distance 4900 ly (Wi	Monoceros
6	Cat's Eye Nebula	5294.2	Distance 3000 ly (Wikipedia)	Draco
97	Pearl Cluster	5692.2		Centaurus
100	Running Chicken Nebula	5852	Open cluster and nebula (Wikip	Centaurus
58	Caroline's Cluster	6155.4	Distance 3700 ly (Wikipedia)	Canis Major
22	Blue Snowball	6400	Distance 3200 ly (Wikipedia)	Andromeda
109		6442.5	Distance 5400 ly (Wikipedia)	Chamaeleon
19	Cocoon Nebula	6478.6	Distance 3300 ly (Wikipedia) / C	Cygnus
92	eta Carinae Nebula	6524	Distance 7500 ly / Magnitude 3 (Carina
14	Double Cluster	6781.7	Distance 7300 ly / NGC 869 and I	Perseus
86		7176.4	Melotte 176	Ara
90		7267.7	Distance 5500 ly (Wikipedia)	Carina
1	Polarissima Cluster	7507.3	Distance 4800 ly (Wikipedia)	Cepheus
50	Rosette Nebula	9109.3	Distance 4900 ly (Wikipedia)	Monoceros
11	Bubble Nebula	11090.8	Distance 7100 ly (Wikipedia)	Cassiopeia
94	Jewel Box	11206.9	Distance 4900 ly (Wikipedia)	Crux
54		11286.5	Distance 10000 ly (Wikipedia)	Monoceros
93	Pavo Globular Cluster	13048		Pavo
106	47 Tucanae	15298.8		Tucana
80	Omega Cen Cluster	15788	Distance 17000 ly / Magnitude 6	Centaurus
79		16310		Vela

Distances				
Caldwell	Popular Name	Distance (Ly)	Notes	Constellation
108		18919.6	Magnitude 7.8 (Wikipedia)	Musca
10	Lawnmower Cluster	19385.8	Distance 7200 ly (Wikipedia)	Cassiopeia
81		19572		Ara
105	The Southern Butterfly	21529.2	Distance 19,600 ly (Wikipedia)	Musca
78	Cacciatore Cluster	22834		Corona Australis
104		27727		Tucana
84		35882		Centaurus
73		39470.2		Columba
107		49908.6		Apus
47		52192	Distance 57,000 ly (Wikipedia)	Delphinus
87		53496.8		Horologium
66		114104.8		Hydra
42		137004		Delphinus
103	Tarantula Nebula	170015.4	Open cluster and nebula	Dorado
25	Intergalactic Wanderer	269441.2	Distance 275,000 ly (Wikipedia)	Lynx
18		2055000	Distance 2.3 M ly (Wikipedia) / I	Cassiopeia
17		2381000	Dwarf spheroidal galaxy	Cassiopeia
57	Barnard's Galaxy	4078000	Distance 2.3 M ly (Wikipedia) / I	Sagittarius
51		5252000	Distance 2.3 M ly (Wikipedia) / I	Cetus
70	Southern Pinwheel Galaxy	6459000	Distance 3.9 M ly (Wikipedia)	Sculptor
72	String of Pearls	6491000	Distance 4.2 M ly (Wikipedia)	Sculptor
5	Maffei 1 Group	8905000	Distance 10 M ly (Wikipedia) / S	Camelopardalis
21		10047000	Irregular galaxy / Emission-line	Canes Venatici
62	Burbidge Chain	11482000	Distance 6.8 M ly (Wikipedia) / :	Cetus
65	Sculptor Galaxy	11613000	Distance 9.8 M ly (Wikipedia) / :	Sculptor
7		13700000	Spiral galaxy	Camelopardalis
77	The Hamburger Galaxy	15984000	Seyfert 2 galaxy (SIMBAD)	Centaurus
3		17800000	Distance 7 M ly (Wikipedia) / Ba	Draco
12	Fireworks Galaxy	20877000	Distance 18 M ly / Originally Ce	Cygnus

Distances				
Caldwell	Popular Name	Distance (Ly)	Notes	Constellation
26		21105000	Distance 10 M ly (Wikipedia) / S	Canes Venatici
32	Whale Galaxy	22508000	Barred spiral galaxy	Canes Venatici
83	The Tweezers Galaxy	22964000	Distance 17 M ly (Wikipedia) / S	Centaurus
23		29749000	Distance 31 M ly (Wikipedia) / S	Andromeda
101		36861000	Distance 34 M ly (Wikipedia)	Pavo
53	Spindle Galaxy	43385000	Distance 22 M ly (Wikipedia) / L	Sextans
36	Koi Fish Galaxy	43711000	Distance 32 M ly (Wikipedia) / S	Coma Berenices
30	Deer Lick Group	53171000	Distance 47 M ly (Wikipedia) / S	Pegasus
48		55454000	Spiral galaxy	Cancer
38	Needle Galaxy	56759000	Distance 32 M ly / Magnitude 9.	Coma Berenices
67		65566000	Distance 47 M ly (Wikipedia) / L	Fornax
52		68176000	Distance 76 M ly (Wikipedia) / E	Virgo
45		74047000	Spiral galaxy	Bootes
29		81876000	Distance 69 M ly / Magnitude 9.	Canes Venatici
40		85791000		Leo
60	Antennae	91010000	Distance 83 M ly (Wikipedia)	Corvus
61	Antennae	91010000	Distance 83 M ly (Wikipedia)	Corvus
43	The Little Sombrero Galaxy	113191000	Distance 49 M ly (Wikipedia)	Pegasus
44	Superman Galaxy	119715000	Distance 106 M ly (Wikipedia) /	Pegasus
24	Perseus A	224752000	Distance 230 M ly (Wikipedia) /	Perseus
35	Coma B	391440000	Distance 300 M ly / Type-cD galax	Coma Berenices
*				

Note that some considerable differences exist in the distances quoted by Stellarium and Wikipedia!

* The distance of the Caldwell Object C 68 (R CrA Nebula) is quoted as 424 lightyears by Wikipedia.

7. [Details of Galaxy Types](#)

Use the query “Type Details” to compare the descriptions of the 35 Caldwell galaxies by Stellarium and by the SIMBAD database. This gives a glimpse of the level of understanding required to study the evolution of galaxies!

Type Details				
Caldwell	Popular Name	Type	Type Details	SIMBAD Details
24	Perseus A	Active Galaxy	cD pec, NLRG	p D
62	Burbidge Chain	Active Galaxy	SAB(s)d	SAB(s)d D
65	Sculptor Galaxy	Active Galaxy	SAB(s)c	SAB(s)c D
67		Active Galaxy	R' 1	SB(s)b D
77	The Hamburger Galaxy	Active Galaxy	S0 pec	S0 pec D
83	The Tweezers Galaxy	Active Galaxy	SB(s)cd	SB(s)cd edge D
3		Galaxy	SB(s)dm	Sc D
5	Maffei 1 Group	Galaxy	SAB(rs)cdV	SA(s)cd D
7		Galaxy	SAB(s)cd	SACd C
12	Fireworks Galaxy	Galaxy	SAB(rs)cd	SAB(rs)cd D
17		Galaxy	dSph/dE5	dGspD...D
18		Galaxy	dSph/dE3, Sy2	dGspD...D
21		Galaxy	IBm	Im/BCD C
23		Galaxy	SA(s)b	SA(s)b
26		Galaxy	Sc	Sd C
29		Galaxy	SAB(rs)bc	SABbc C
30	Deer Lick Group	Galaxy	SA(s)b	SAb C
32	Whale Galaxy	Galaxy	SB(s)d	Scd C
35	Coma B	Galaxy	E4	
36	Koi Fish Galaxy	Galaxy	SAB(rs)cd	SABcd C
38	Needle Galaxy	Galaxy	SA(s)b	Sab C
40		Galaxy	(R)SA(rs)0+	SAa C
43	The Little Sombrero Galaxy	Galaxy	SA(S)ab	SAa C
44	Superman Galaxy	Galaxy	SB(s)c	
45		Galaxy	SAB(rs)bc	SAC C
48		Galaxy	SA(r)ab	SAa C
51		Galaxy	IB(s)m	IB(s)m D
52		Galaxy	E6	E C
53	Spindle Galaxy	Galaxy	S0	S0 D
57	Barnard's Galaxy	Galaxy	IB(s)m	IBm D
70	Southern Pinwheel Galaxy	Galaxy	SA(s)d	Sc D
72	String of Pearls	Galaxy	SB(s)m	Irr D
101		Galaxy	SAB(r)bc	SAB(r)bc D
60	Antennae	Interacting Galaxy	SB(s)m pec	SB(s)m pec D
61	Antennae	Interacting Galaxy	SB(s)m pec	Sc D