

CALDWELL OBJECTS



OBSERVATION LOG

J. L. E. Dreyer's Astronomical Abbreviations

Ab.....	about	n.....	north
alm.....	almost	neb.....	nebula
am.....	among	nf.....	north following
app.....	appended	np.....	north preceding
att.....	attached	nr.....	near
b.....	brighter	N.....	Nucleus
be.....	between	p.....	pretty
biN.....	binuclear	p.....	preceding
B.....	bright	pg.....	pretty gradually
c.....	considerably	pm.....	pretty much
ch.....	chevelure	ps.....	pretty suddenly
co.....	coarse, coarsely	P.....	poor
com.....	cosmetic	quad.....	quadrilateral
cont.....	in contact	quar.....	quartile
C.....	compressed	r.....	resolvable, mottled
Cl.....	cluster	rr.....	partially resolved, some stars seen
d.....	diameter	rrr.....	well resolved, clearly consisting of stars
def.....	defined	R.....	round
dif.....	diffused	RR.....	exactly round
diffic.....	difficult	Ri.....	rich
dist.....	distance, distant	s.....	suddenly
D.....	double	s.....	south
e.....	extremely, excessively	sp.....	south preceding
ee.....	most extremely	sf.....	south following
er.....	easily resolvable	sc.....	scattered
exc.....	excentric	st.....	stars
E.....	extended	sev.....	several
f.....	following	susp.....	suspected
F.....	faint	sh.....	shaped
g.....	gradually	stell.....	stellar
gr.....	group	S.....	small
i.....	irregular	sm.....	smaller
inv.....	involved, involving	triN.....	trinuclear
iF.....	irregular figure	trap.....	trapezium
l.....	little, long	v.....	very
L.....	large	vv.....	very, very
m.....	much	var.....	variable
mm.....	mixed magnitudes	!.....	remarkable
mn.....	milky nebulosity	!!.....	very remarkable
M.....	middle, or in the middle	!!!.....	a magnificent object
		st 9...	stars from the 9th magnitude downwards
		st 9...13	stars from the 9th to 13th magnitude

GENERAL DESCRIPTION GUIDELINES

Galaxies

Did you use direct or averted vision?
What is the overall shape?
Is the core noticeable, compact, stellar ?
Can structure be seen in the galaxy, mottling, bright or dark patches or lanes?
Are the outer edges sharp or diffuse?
Identify any other DSO in the field.

Globular Clusters

Did you use direct or averted vision?
Is the core bright, compact, or not distinguishable?
Is it highly or loosely concentrated?
Is any part of it resolved into stars, averted vision or not, or does it show mottling, or stars resolved at the edges?
Identify any other DSO in the field.

Open Clusters

Is it easily distinguished from the background stars, is it well defined?
Is there a overall shape?
How many stars can you count in the cluster?
Are the stars concentrated in any one area?
Is the cluster fully resolved or is background nebulosity noticed?
Are there areas where stars are absent in the cluster?
Are there any brighter stars in the cluster and do any stand out in color?
Identify any other DSO in the field.

Open Cluster/ Nebulosity

Did you use direct or averted vision to view the cluster and nebulosity, are filters needed?
What is the overall shape?
Are the outer edges sharply defined?
Can both the cluster and nebulosity be seen with direct vision, or is averted vision or filters needed?
What is the overall shape?
Are the outer edges sharply defined?
Are the stars concentrated in any one area?
Is the cluster embedded in the nebulosity or is there a distinct separation?
Is any part of the nebula brighter or more concentrated?
Are there any voids or dark patches or lanes, bright filaments or streamers in the nebulosity?
Identify any other DSO in the field.

Nebula

Did you use direct or averted vision? filters needed?
What is the overall shape?
Are the outer edges sharply defined?
Is any part of the nebula brighter or more concentrated?
Are there any voids or dark patches or lanes, bright filaments or streamers in the nebulosity?
Is there an open cluster nearby or involved or any obvious stars involved with the nebulosity?
Identify any other DSO in the field.

Planetary Nebula

What is the overall shape, is it disk shaped or more stellar?
Are the edges sharp or diffuse?
Is it easy or difficult to identify in the field?
What is the color of the Planetary?
Is the center brighter, darker or uniform brightness as the edges?
Identify any other DSO in the field.

Caldwell Objects Observation Log

Observer	
----------	--

Object	Date	Time	Site	See	Tran	Equipment
--------	------	------	------	-----	------	-----------

C01	NGC-188					
-----	---------	--	--	--	--	--

Notes:

C02	NGC-40					
-----	--------	--	--	--	--	--

Notes:

C03	NGC-4236					
-----	----------	--	--	--	--	--

Notes:

C04	NGC-7023					
-----	----------	--	--	--	--	--

Notes:

C05	IC-342					
-----	--------	--	--	--	--	--

Notes:

C06	NGC-6543					
-----	----------	--	--	--	--	--

Notes:

C07	NGC-2403					
-----	----------	--	--	--	--	--

Notes:

C08	NGC-559					
-----	---------	--	--	--	--	--

Notes:

C09	sH2-155					
-----	---------	--	--	--	--	--

Notes:

C10	NGC-663					
-----	---------	--	--	--	--	--

Notes:

C11	NGC-7635					
-----	----------	--	--	--	--	--

Notes:

C12	NGC-6946					
-----	----------	--	--	--	--	--

Notes:

C13	NGC-457					
-----	---------	--	--	--	--	--

Notes:

C14	NGC-884/889					
-----	-------------	--	--	--	--	--

Notes:

Caldwell Objects Observation Log

Observer	
-----------------	--

Object	Date	Time	Site	See	Tran	Equipment
--------	------	------	------	-----	------	-----------

C15	NGC-6826					
Notes:						

C16	NGC-7243					
Notes:						

C17	NGC-147					
Notes:						

C18	NGC-185					
Notes:						

C19	IC-5146					
Notes:						

C20	NGC-7000					
Notes:						

C21	NGC-4449					
Notes:						

C22	NGC-7662					
Notes:						

C23	NGC-891					
Notes:						

C24	NGC-1275					
Notes:						

C25	NGC-2419					
Notes:						

C26	NGC-4244					
Notes:						

C27	NGC-6888					
Notes:						

C28	NGC-752					
Notes:						

Caldwell Objects Observation Log

Observer	
-----------------	--

Object	Date	Time	Site	See	Tran	Equipment
--------	------	------	------	-----	------	-----------

C29	NGC-5005					
Notes:						

C30	NGC-7331					
Notes:						

C31	IC-405					
Notes:						

C32	NGC-4631					
Notes:						

C33	NGC-6992/6995					
Notes:						

C34	NGC-6960					
Notes:						

C35	NGC-4889					
Notes:						

C36	NGC-4559					
Notes:						

C37	NGC-6885					
Notes:						

C38	NGC-4565					
Notes:						

C39	NGC-2392					
Notes:						

C40	NGC-3626					
Notes:						

C41	Haydes					
Notes:						

C42	NGC-7006					
Notes:						

Caldwell Objects Observation Log

Observer	
-----------------	--

Object	Date	Time	Site	See	Tran	Equipment
--------	------	------	------	-----	------	-----------

C43	NGC-7814					
Notes:						

C44	NGC-7479					
Notes:						

C45	NGC-5248					
Notes:						

C46	NGC-2261					
Notes:						

C47	NGC-6934					
Notes:						

C48	NGC-2775					
Notes:						

C49	NGC-2237/2239					
Notes:						

C50	NGC-2244					
Notes:						

C51	IC-1613					
Notes:						

C52	NGC-4697					
Notes:						

C53	NGC-3115					
Notes:						

C54	NGC-2506					
Notes:						

C55	NGC-7009					
Notes:						

C56	NGC-246					
Notes:						

Caldwell Objects Observation Log

Observer	
-----------------	--

Object	Date	Time	Site	See	Tran	Equipment
--------	------	------	------	-----	------	-----------

C57	NGC-6822					
Notes:						

C58	NGC-2360					
Notes:						

C59	NGC-3242					
Notes:						

C60	NGC-4038					
Notes:						

C61	NGC-4039					
Notes:						

C62	NGC-247					
Notes:						

C63	NGC-7293					
Notes:						

C64	NGC-2362					
Notes:						

C65	NGC-253					
Notes:						

C66	NGC-5694					
Notes:						

C67	NGC-1097					
Notes:						

C68	NGC-6729					
Notes:						

C69	NGC-6302					
Notes:						

C70	NGC-300					
Notes:						

Caldwell Objects Observation Log

Observer	
-----------------	--

Object	Date	Time	Site	See	Tran	Equipment
--------	------	------	------	-----	------	-----------

C71	NGC-2477					
Notes:						

C72	NGC-55					
Notes:						

C73	NGC-1851					
Notes:						

C74	NGC-3132					
Notes:						

C75	NGC-6124					
Notes:						

C76	NGC-6231					
Notes:						

C77	NGC-5128					
Notes:						

C78	NGC-6541					
Notes:						

C79	NGC-3201					
Notes:						

C80	NGC-5139					
Notes:						

C81	NGC-6352					
Notes:						

C82	NGC-6193					
Notes:						

C83	NGC-4945					
Notes:						

C84	NGC-5286					
Notes:						

Caldwell Objects Observation Log

Observer	
-----------------	--

Object	Date	Time	Site	See	Tran	Equipment
--------	------	------	------	-----	------	-----------

C85	IC-2391					
Notes:						

C86	NGC-6397					
Notes:						

C87	NGC-1261					
Notes:						

C88	NGC-5823					
Notes:						

C89	NGC-6067					
Notes:						

C90	NGC-2867					
Notes:						

C91	NGC3532					
Notes:						

C92	NGC-3372					
Notes:						

C93	NGC-6752					
Notes:						

C94	NGC-4755					
Notes:						

C95	NGC-6025					
Notes:						

C96	NGC-2516					
Notes:						

C97	NGC-3766					
Notes:						

C98	NGC-4609					
Notes:						

Caldwell Objects Observation Log

Observer	
-----------------	--

Object	Date	Time	Site	See	Tran	Equipment
--------	------	------	------	-----	------	-----------

C99	Coal Sack					
Notes:						

C100	IC-2944					
Notes:						

C101	NGC-6744					
Notes:						

C102	IC-2602					
Notes:						

C103	NGC-2070					
Notes:						

C104	NGC-362					
Notes:						

C105	NGC-4833					
Notes:						

C106	NGC-104					
Notes:						

C107	NGC-6101					
Notes:						

C108	NGC-4372					
Notes:						

C109	NGC-3195					
Notes:						