List of Acronyms in SIMBAD

François Ochsenbein

The table beginning on the next page is a complete list of catalogue acronyms and abbreviations presently used in SIMBAD, as they are known on *15 June 1990*.
In the column "Abbreviation", a • means that the whole catalogue is included in SIMBAD. The meaning of the "Objects" and "Format" columns are detailled below;

Object Symbol	Explanation
*	Stars
in RfN	Stars in Reflexion Nebulae
*	Double stars
?	Non-stellar objects
Ass	Stellar associations
Blue*	Blue stars
C*	Carbon Stars
Cl	Clusters of stars (open, globular)
Cl*	Stars in clusters
ClG	Clusters of galaxies
Dark N	Dark Nebulae
em Obj	Emission objects
em*	Emission stars
exG*	extragalactic stars
Flare*	Flare stars
G	Galaxies
gamma	Gamma-ray sources
Group G	Group of galaxies
HH	Herbig-Haro objects
HII	HII regions
HV*	High-Velocity Stars
IR	Infra-red objects
LMC*	Large Magellanic Cloud star
M*	M (spectral type) stars
MC*	Magellanic Clouds stars
MCld	Molecular Cloud
Neb	Nebulae (galactic)
Nova	Nova
OB*	O or B (spectral types) stars
PM*	Large proper motion stars
PN	Planetary Nebulae
PN?	Probable Planetary Nebulae
Psr	Pulsars
rad	radio sources
RfN	Reflextion Nebulae
Red*	Red stars
S*	S (spectral type) stars
SB	Spectroscopic Binaries
SGP*	South Galactic Pole stars
SN	Supernovae
SNR	Supernovae Remnants
UV	Ultra-violet objects
V*	Variable stars
WD	White Dwarfs
WR*	Wolf-Rayet stars
X	X-ray sources

Format Symbol	Explanation
+	+ or - sign required
-	- sign or separator required
A	Capital letter
a	lower-case letter
BB	Galactic latitude
bb	Fractions of galactic latitude
CCC	Constellation abbreviation (3 letters)
DD	Degrees (declination)
D0	Tens of degrees of declination
dd	Fractions of degrees
F	Field number
G	Greek (lower-case) letter (3 letters)
HH	Hours
hh	Fractions of hours
K	Velocity (km/s)
LLL	Degrees of galactic longitude
ll	Fractions of galactic longitude
MM	Minutes (arc or time)
mm	Fractions of minutes
N	Ordinal number
n	numerical exponent
R	Roman numeral
SS	Seconds (arc or time)
ss	Fractions of seconds
T	Type of object
V	V letter
v	Volume number
Y	Year (2 or 4 digits)

Objects	Abreviation	Explanation or _alias_	Author(s)	Reference	Format
	47 TUC 47 TUC	_See NGC 104_ _See Cl* NGC 104_			
*	*•	Bright stars			Gnn CCC NNN CCC ann CCC Ann CCC
**	**	Double stars			AAA NNNN A
**	** COU	Double stars	COUTEAU P.	66....86+	NNNN
**	** LDS	Luyten's double stars	LUYTEN W.J.	41.30001+	NNNN
	*V A A A A A A'	_See V*_ _See PN A66_ _See 1A_ _See ABCG_ _See ADS_ _See ANON_ _See PN A66_			
X	1A	ARIEL V			HHMM+DD HHMM+DDd
X	2A•	ARIEL	COOKE B.A.+	78..2514	HHMM+DDd
X	3A•	ARIEL	WARWICK R.S.+	81..2631+	HHMM+DDd
UV	AB	Author's initials	BRACCESI A.+	70..1003	NNN
ClG	ABCG•	Rich clusters of galaxies	ABELL G.O.	58...501+	NNNN S NNNN
	ABCGS ABEL ABEL ABGC	_See ABCG_ _See PN A66_ _See ABCG_ _See ABCG_			
*	AC	Astrographic Catalogue	EICHHORN H.	74.30004	+DD NNNN +DD NNNNA +DD NNNN-NNN
G	ACG	Arp's Compact Galaxies	ARP H.+	75..9030	HHMM+DD
	ACO ACOS AD	_See ABCG_ _See ABCG_ _See SN_			
**	ADS	Aitken Double Stars	AITKEN R.G.	32.30001	NNNNN AA
	AF AFCRL	_See AFGL_ _See AFGL_			
IR	AFGL	Air Force Geophysics Lab	PRICE S.D.+	76.30014+	NNNN
*	AG•	Astronomische Gesellschaft Katalog		58.30002+	+DD NNNN +DD NNNN.n
	AGK AGK2 AGK3 AGK3R	_See AG_ _See AG_ _See AG_ _See AGKR_			

Objects	Abreviation	Explanation or *alias*	Author(s)	Reference	Format
*	AGKR•	Reference stars of AGK3	CORBIN T.E.	78.30065	NNNNN
	AKN	*See ARK*			
	Al	*See PN Al*			
	ALF PER	*See CL MEL 20*			
G	AM	Authors' initials	ARP G.C.+	87.30115	HHMM+DDd HHMM+DDMM
	AMAS	*See CL*			
	AMAS2	*See CL**			
V*	AN•	Astronomische Nachrichten			NNN.YYYY
?	ANON	Anonymous			HHMM+DD HHMMSS+DDMM HHMMSS.s+DDMMSS
	AO	*See GAT*			
rad	AO	Arecibo Occultation	HAZARD C.+	67...490+	HHMM+DD
	AP	*See PULS*			
	Ap	*See PN Ap*			
G	APG	Author's name	ARP G.C.	66.30010	NNN
LMC*	ARDB	1st Author's name	ARDEBERG A.+	72...495	NNN
G	ARK	Author's name	ARAKELJAN M.A.+	75.30005	NNN
LMC*	ARMA•	Authors' names	ARDEBERG A.+	77..1515	NNN
	ARO	*See PN ARO*			
	ARP	*See APG*			
	AS	*See EM* AS*			
Ass	ASS	Stellar Associations			CCC T N-NNN
Ass	ASS CEP OB 3-		BLAAUW A.+	59....63	NNN
em*	ASS CHA T 1-		HENIZE K.G.	73...241	NN
Ass	ASS CYG OB 2-		REDDISH V.C.+	66.28752	NNNN
	AZ	*See AzV*			
	AZV	*See AzV*			
	AZVI	*See AzV*			
SMC*	AzV	Authors' names	AZZOPARDI M.+	75..1510+	NNNa
	B	*See GC*			
	B	*See SB*			
	B1S	*See B1*			
rad	B1	1st Bologna Catalogue	BRACCESI A.+	65.30013	HHMM+DDA
rad	B2	2nd Bologna Survey	COLLA G.+	70..1501+	HHMM+DDA HHMM+DDdA
rad	B2.1	2nd Bologna Survey	COLLA G.+	70..1501	HHMM+DDA
rad	B2.2	2nd Bologna Survey	COLLA G.+	72..1502	HHMM+DDA
rad	B2.3	2nd Bologna Survey	COLLA G.+	73..1509	HHMM+DDA
rad	B2.4	2nd Bologna Survey	FANTI C.+	74..1511	HHMM+DDA
	Ba	*See PN Ba*			
	BARNARD	*See BARN*			
DCld	BARN	Author's name	BARNARD E.E.	27.30003	NNN
exG V*	BASV	Baade-Swope variables	BAADE W.+	61..2002	NNN

Objects	Abreviation	Explanation or *alias*	Author(s)	Reference	Format
exG V*	BASW	Baade-Swope variables	BAADE W.+	63...220+	NNNN
	BALDONE	*See BC*			
C*	BC	Baldone Cat.	ALKSNIS A.+	76.30018+	NNN
*	BD	Bonner Durchmusterung	ARGELANDER F.+	00.30001+	+DD NNNNa +DD NNNNA
rad	BDA	Authors' initials, Field A	BLUM E.J.+	68.12004	NN
rad	BDB	Authors' initials, Field B	BLUM E.J.+	68.12004	NN
	Berkeley	*See CL Berk*			
HII	BFS	Authors' names	BLITZ L.+	82...525	NN
LMC*	BI	Authors' Initials	BRUNET J.P.+	75..1512	NNN
IR	BIRS•	Bright Infrared Stars	ELEMGREEN D.M.	80...264	NNN
	Biur Biurakan Bjurakan Bl BlDz BLANCO Blanco	*See CL BIURAKAN* *See CL BIURAKAN* *See CL BIURAKAN* *See PN Bl* *See PN BlDz* *See UBV* *See CL BLANCO*			
*	BM	Authors' initials	BLANCO V.M.+	55.25501	R NNN
Cl in LMC	BMG	Authors' initials	BHATIA R.K.+	89..1108	NNN
IR	BNKL•	Discoverer's initials	KLEINMANN D.E.+	67...351	NN
	BoBn Bochum BOSS	*See PN BoBn* *See CL BOCHUM* *See GC*			
PM*	BPM	Bruce Proper Motion survey	LUYTEN W.J.+	63.30006	NNNNN
	BR	*See NGC 1977*			
Neb	BRAN	Author's abbreviation	BRAND J.+	86..1568	NNNA
WR*	BREY•	Author's abbreviation	BREYSACHER J.	81..1515	NNN
	BREYS BS BS	*See BREY* *See BSCG* *See HR*			
SuperClG	BSCG	Authors' names	BAHCALL N.A.+	84....54	NN
*	BSD	Bergedorfer Spektral Durchmusterung	SCHWASSMANN A.+	35.30002+	FFF-NNNN
	BSC	*See HR*			
?	BSI*	BSI object			YY.NNNNN-xxxx
	BV BV	*See PN BV* *See SV* BV*			
rad	1C	1st Cambridge Cat.	RYLE M.+	50..2501	NN.NN
rad	2C	2nd Cambridge Cat.	SHAKESHAFT J.R.+	55.16001	NNNN
rad	3C	3rd Cambridge Cat.	EDGE D.O.+	59.16001+	NNN NNN.N
	4C1	*See 4C*			

Objects	Abreviation	Explanation or *alias*	Author(s)	Reference	Format
	4C2	*See 4C*			
rad	4C	4th Cambridge Cat.	PILKINTON J.D.H.+	65.16001+	+DDNN +DDNNA
rad	5C	5th Cambridge Cat.	BENN C.R.+	66..2502+	NN NNN NN NNNa
rad	6C	6th Cambridge Cat.	BALDWIN J.E.+	85..2799	HHMMSS+DDMMSS
	C C	*See CASE* *See Ci 18*			
Cl	C	Systematic Cluster designation			HHMM+DDd
C*	C*	Cool Carbon *	STEPHENSON C.B.	73.30010+	NNNN
C*	CASE	Case obs.	NASSAU J.J.+	54....41+	NNNN
	CASEG	*See CASG*			
G	CASG	Case Galaxies	PESCH P.+	86...508+	NNN
Blue *	CBS	Case Blue Stars	PESCH P.+	86...508+	NNN
	CC CCS	*See Ci 20* *See C**			
*	CD	Cordoba Durchmusterung	THOME J.M.+	00.30002+	+DD NNNNNA
	CDM	*See CD*			
UV	CEL$^\bullet$	Celescope	DAVIS R.J.+	73.32231	NNNN
*	CF$^\bullet$	Cape Faint stars	SPENCER-JONES H.+	39.30001	NNNNN
	CG CG CG CG CG-NGP CG-SGP	*See 1CG* *See 2CG* *See CASG* *See ACG* *See CGG* NGP* *See CGG* SGP*			
gamma	1CG	COS B	PINKAU K.	79.11001	LLL+BB
gamma	2CG	COS B	SWANENBURG B.N.+	81....36	LLL+BB
	CGCG	*See Z*			
dG*	CGG* NGP	Authors' initials Dwarfs	CORBALLY C.J.+	88..2058	NNN
dG*	CGG* SGP	Authors' initials Dwarfs	CORBALLY C.J.+	88..2057	NNN
	CGHA CHA CHI PER	*See EM* CGHA* *See TON S* *See NGC 884*			
PM*	Ci 18	Cincinnati Publ. 18	PORTER J.G.+	18.30008	NNNN
PM*	Ci 20	Cincinnati Publ. 20	PORTER J.G.+	30.30008	NNNN
C*	CIT$^\bullet$	Calif. Inst. Tech.	ULRICH B.T.+	66....43	NN
	CL2	*See CL**			
	CL BASEL	*See CL Basel*			
Cl*	CL Basel 3		GRUBISSICH C.	65.21335	NNNN
Cl*	CL Berk 11		JACKSON P.A.+	80..1578	NNNN
Cl*	CL Berk 19		CHRISTIAN C.A.	80..2082	NNNN
Cl*	CL Berk 21		CHRISTIAN C.A.+	79..2089	NNNN
Cl*	CL Berk 28		DUPUY D.L.+	76.12505	NNNN
Cl*	CL Berk 59		BLANCO V.M.+	59....76	NNNN
Cl*	CL Berk 62		FORBES D.	81..3099	NNNN

Objects	Abreviation	Explanation or *alias*	Author(s)	Reference	Format
Cl*	CL Berk 82		FORBES D.	86..3023	NNNN
Cl*	CL Berk 86		FORBES D.	81..3099	NNNN
Cl*	CL Berk 87		TURNER D.G.+	82..3077	NNNN
	CL Berk 94	*See CL* Berk 94*			
Cl*	CL Berk 94		WRAMDEMARK S.	78..1180	NNNN
Cl*	CL* Berk 94 YI		YILMAZ F.	70...172	NNNN
Cl*	CL Berk 96		DEL RIO G.	84..1535	NNNN
Cl*	CL BIURAKAN 2		DUPUY D.L.+	76.12505	NNNN
Cl*	CL BIURAKAN 10		MOFFAT A.F.J.+	75..1501	NNNN
Cl*	CL BLANCO 1		EPSTEIN I.	68...259	NNNN
Cl*	CL BOCHUM 2		MOFFAT A.F.J.+	75..1501	NNNN
Cl*	CL BOCHUM 3		MOFFAT A.F.J.+	75..1501	NNNN
Cl*	CL BOCHUM 4		MOFFAT A.F.J.+	75..1501	NNNN
Cl*	CL BOCHUM 8		MOFFAT A.F.J.+	75..1503	NNNN
Cl*	CL BOCHUM 9		MOFFAT A.F.J.+	75..1503	NNNN
Cl*	CL BOCHUM 10		MOFFAT A.F.J.+	75..1503+	NNNN
Cl*	CL BOCHUM 11		MOFFAT A.F.J.+	75..1503	NNNN
Cl*	CL BOCHUM 12		MOFFAT A.F.J.+	75..1503	NNNN
Cl*	CL BOCHUM 13		MOFFAT A.F.J.+	75..1502	NNNN
Cl*	CL BOCHUM 14		MOFFAT A.F.J.+	75..1502	NNNN
Cl*	CL BOCHUM 15		JACKSON P.D.+	77..1190	NNNN
Cl*	CL Coll 96		MOFFAT A.F.J.+	75..1501	NNNN
Cl*	CL Coll 121		FEINSTEIN A.	67...314	NNNN
Cl*	CL Coll 132		CLARIA J.J.	77..3116	NNNN
Cl*	CL Coll 140		CLARIA J.J.+	78..2015	NNNN
	CL Coll 140	*See CL* Coll 140*			
	CL COLL 140	*See CL Coll 140*			
	CL COLLINDER 140	*See CL Coll 140*			
	CL Collinder 140	*See CL Coll 140*			
Cl*	CL* Coll 140 W		WILLIAMS P.M.	67.14251	NNNN
Cl*	CL* Coll 140 LW		LYNGA G.+	84..1070	NNNN
	CL Coll 173	*See CL* Coll 173*			
Cl*	CL* Coll 173 LW		LYNGA G.+	84..1070	NNNN
Cl*	CL Coll 197		VOGT N.+	73.21103	NNNN
Cl*	CL Coll 205		VOGT N.+	73.21103	NNNN
Cl*	CL Coll 228		FEINSTEIN A.+	76..1521	NNNN
	CL COLL 228	*See CL Coll 228*			
	CL COLLINDER 228	*See CL Coll 228*			
	CL Collinder 228	*See CL Coll 228*			
Cl*	CL Coll 258		MOFFAT A.F.J.+	73...417	NNNN
Cl*	CL Coll 268		MOFFAT A.F.J.+	75..1502	NNNN
Cl*	CL Coll 271		MOFFAT A.F.J.+	73...417	NNNN
Cl*	CL Coll 307		MOFFAT A.F.J.+	75..1502	NNNN
Cl*	CL Coll 347		MOFFAT A.F.J.+	75..1502	NNNN

Objects	Abreviation	Explanation or *alias*	Author(s)	Reference	Format
Cl*	CL Coll 394		TURNER D.G.+	85..2110	NNNN
Cl*	CL Coll 399		HALL D.S.+	70..3002	NNNN
Cl*	CL Coll 463		TOWNSED R.E.	75...539	NNNN
Cl*	CL DOLIDZE 24		MOFFAT A.F.J.+	79..1558	NNNN
Cl*	CL DOLIDZE 25		MOFFAT A.F.J.+	75..1501	NNNN
Cl*	CL HAFFNER 8		FENKART R.P.+	72..1501	NNNN
Cl*	CL HAFFNER 15		VOGT N.+	72...502	NNNN
Cl*	CL HAFFNER 16		VOGT N.+	72...502	NNNN
Cl*	CL HARVARD 10		LYNGA G.	64.21314	NNNN
Cl*	CL HARVARD 20		TURNER D.G.	80..3096	NNNN
Cl*	CL HOGG 9		MOFFAT A.F.J.+	75..1503	NNNN
Cl*	CL HOGG 10		CLARIA J.J.	76..2004	NNNN
Cl*	CL* HOGG 10 MV		MOFFAT A.F.J.+	75..1503	NNNN
Cl*	CL HOGG 11		MOFFAT A.F.J.+	75..1503	NNNN
Cl*	CL HOGG 12		MOFFAT A.F.J.+	75..1503	NNNN
Cl*	CL HOGG 14		MOFFAT A.F.J.+	73...417	NNNN
Cl*	CL HOGG 15		FEINSTEIN A.	71..3001	NNNN
	CL HOGG 16	*See CL* HOGG 16*			
Cl*	CL HOGG 16		MOFFAT A.F.J.+	73...417	NNNN
Cl*	CL* HOGG 16 FEN		FENKART R.P.+	77..1560	NNNN
Cl*	CL HOGG 18		HOGG A.R.	61.10501	NNNN
Cl*	CL HOGG 22		MOFFAT A.F.J.+	73...417	NNNN
	CL KING	*See CL King*			
Cl*	CL King 8		BECKER W.+	76.30010	NNNN
Cl*	CL King 12		MOHAN V. +	84..4095	NNNN
Cl*	CL King 14		HARDORP J.	60.30005	NNNN
Cl in SMC	CL KRON		KRON G.E.	56..3005	NN
Cl in SMC	CL LINDSAY		LINDSAY E.M	58..2501	NNN
Cl*	CL LYNGA 2		LINDOFF U.	68.13757	NNNN
Cl*	CL LYNGA 4		MOFFAT A.F.J.+	75..1502	NNNN
Cl*	CL LYNGA 6		MOFFAT A.F.J.+	75..1502	NNNN
Cl*	CL LYNGA 6		VAN DEN BERGH S.+	76...260	NNNN
Cl*	CL LYNGA 7		LYNGA G.	64.21314	NNNN
Cl*	CL LYNGA 14		MOFFAT A.F.J.+	75..1502	NNNN
Cl*	CL MRK 38		GRUBISSICH C.+	80..1579	NNNN
	CL MRK 38	*See CL* MRK 38*			
Cl*	CL* MRK 38 MV		MOFFAT A.F.J.+	75..1034	NNNN
Cl*	CL MRK 50		GRUBISSICH C.	65.30002	NNNN
Cl*	CL MEL 20		HECKMANN O.+	56.30002	NNNN
	CL MEL 22	*See CL* MEL 22*			
Cl*	CL MEL 22		HERTZSPRUNG E.	47.30002	NNNN

Objects	Abreviation	Explanation or *alias*	Author(s)	Reference	Format
Cl*	CL MEL 25		VAN BUEREN H.G.	52.30001	NNNN
	CL MEL 25	*See CL* MEL 25*			
Cl*	CL* MEL 25 VA		VAN ALTENA W.F.	66..2002+	NNNN
Cl*	CL* MEL 25 LEID		PELS +	75...359	NNNN
Cl*	CL MEL 66		HAWARDEN T.G.	76..2605	NNNN
	CL MEL 71	*See CL* MEL 71*			
Cl*	CL* MEL 71 HAS		HASSAN S.M.	76..1907	NNNN
Cl*	CL* MEL 71 PJ		POUND M.W.+	86..3022	NNNN
Cl*	CL MEL 101		BRAES L.L.E.	62.21313	NNNN
Cl*	CL MEL 105		SHER D.	65...150	NNNN
Cl*	CL MEL 111		TRUMPLER R.J.	38.27001	NNNN
Cl*	CL* MEL 111 ARTY	N+1000	DELUCA E.E.+	81..3002	NNNN
	CL MEL 111	*See CL* MEL 111 ARTY*			
Cl*	CL MEL 227		EPSTEIN I.	68...259	NNNN
Cl*	CL PAL 3		CANTERNA R.+	78...406	NNNN
Cl*	CL PAL 4		BURBIDGE E.M.+	58...157	NNNN
Cl*	CL PAL 11		CANTERNA R.+	78...406	NNNN
Cl*	CL PAL 12		CANTERNA R.+	78...406	NNNN
Cl*	CL PAL 13		CANTERNA R.+	78...406	NNNN
Cl*	CL PISMIS 1		LINDOFF U.	68.13755	NNNN
Cl*	CL PISMIS 4		MOFFAT A.F.J.+	75..1501	NNNN
Cl*	CL PISMIS 5		VOGT N.+	73.21103	NNNN
Cl*	CL PISMIS 6		FITZGERALD M.P.+	79..1542	NNNN
	CL PISMIS 6	*See CL* PISMIS 6*			
Cl*	CL* PISMIS 6 VM		VOGT N.+	73.21103	NNNN
Cl*	CL PISMIS 8		FITZGERALD M.P.+	79..1542	NNNN
	CL PISMIS 8	*See CL* PISMIS 8*			
Cl*	CL* PISMIS 8 VM		VOGT N.+	73.21103	NNNN
Cl*	CL PISMIS 11		MOFFAT A.F.J.+	77..1006	NNNN
Cl*	CL PISMIS 12		MOFFAT A.F.J.+	75..1501	NNNN
Cl*	CL PISMIS 13		CLARIA J.J.	79.10516	NNNN
Cl*	CL PISMIS 16		VOGT N.+	73.21103	NNNN
Cl*	CL PISMIS 17		MOFFAT A.F.J.+	75..1503	NNNN
Cl*	CL PISMIS 18		MOFFAT A.F.J.+	73...417	NNNN
Cl*	CL PISMIS 20		LYNGA G.	64.21314	NNNN
Cl*	CL PISMIS 21		MOFFAT A.F.J.+	77..1006	NNNN
Cl*	CL PISMIS 22		WESTERLUND B.E.	69...102	NNNN
Cl*	CL PISMIS 24		MOFFAT A.F.J.+	73...417	NNNN
	CL ROSLUND	*See CL Roslund*			
Cl*	CL Roslund 4		RACINE R.	69..2006	NNNN
Cl*	CL Roslund 5		LEE P.D.+	71...164	NNNN
Cl*	CL RUP 18		MOFFAT A.F.J.+	75..1501	NNNN
Cl*	CL RUP 20		VOGT N.+	72...502	NNNN

Objects	Abreviation	Explanation or *alias*	Author(s)	Reference	Format
Cl*	CL RUP 32		MOFFAT A.F.J.+	75..1501	NNNN
Cl*	CL RUP 34		MOFFAT A.F.J.+	75..1501	NNNN
Cl*	CL RUP 36		VOGT N.+	72...502	NNNN
Cl*	CL RUP 44		MOFFAT A.F.J.+	74..1001	NNNN
Cl*	CL RUP 46		VOGT N.+	72...502	NNNN
Cl*	CL RUP 47		VOGT N.+	72...502	NNNN
Cl*	CL RUP 49		VOGT N.+	72...502	NNNN
Cl*	CL RUP 55		MOFFAT A.F.J.+	75..1501	NNNN
Cl*	CL RUP 59		VOGT N.+	72...502	NNNN
Cl*	CL RUP 67		MOFFAT A.F.J.+	75..1501	NNNN
Cl*	CL RUP 76		VOGT N.+	73.21103	NNNN
Cl*	CL RUP 79		MOFFAT A.F.J.+	75..1501	NNNN
Cl*	CL RUP 97		MOFFAT A.F.J.+	75..1503	NNNN
Cl*	CL RUP 98		MOFFAT A.F.J.+	73...417	NNNN
Cl*	CL RUP 107		MOFFAT A.F.J.+	75..1502	NNNN
Cl*	CL RUP 108		MOFFAT A.F.J.+	73...417	NNNN
Cl*	CL RUP 118		MOFFAT A.F.J.+	73...417	NNNN
Cl*	CL RUP 119		MOFFAT A.F.J.+	73...417	NNNN
Cl*	CL RUP 127		MOFFAT A.F.J.+	75..1502	NNNN
Cl*	CL RUP 166		MOFFAT A.F.J.+	73...417	NNNN
Cl*	CL SHER 1		MOFFAT A.F.J.+	75..1503	NNNN
Cl*	CL STEPHENSON 1		BRONKALLA W.	63.11251	NNNN
	CL STEPHENSON 1	*See CL* STEPHENSON 1*			
Cl*	CL* STEPHENSON 1 EG		EGGEN O.J. (NO + 1000)	68.....1	NNNN
Cl*	CL STOCK 2		KRZEMINSKI W.+	67...289	NNNN
Cl*	CL STOCK 7		MOFFAT A.F.J.	73..1515	NNNN
Cl*	CL STOCK 8		MAYER P.	64.30007	NNNN
Cl*	CL STOCK 13		MOFFAT A.F.J.+	75..1503	NNNN
Cl*	CL STOCK 14		MOFFAT A.F.J.+	75..1503	NNNN
Cl*	CL STOCK 14	[21,35]	TURNER D.G.	82..3063	NNNN
Cl*	CL STOCK 16		FENKART R.P.+	77..1560	NNNN
Cl*	CL* STOCK 16 DGT		TURNER D.G.	85...185	NNNN
	CL STOCK 16	*See CL* STOCK 16*			
Cl*	CL* STOCK 16 LYNG		LYNGA G.	70.30005	NNNN
Cl*	CL TOMBAUGH 1		TURNER D.G.	83.12503	NNNN
Cl*	CL TR 1		OJA T.	66.13755	NNNN
Cl*	CL TR 2		HOAG A.A.+	61.30005	NNNN
Cl*	CL TR 7		VOGT N.+	72...502	NNNN
Cl*	CL TR 9		PISMIS P.	70.25502	NNNN
	CL TR 10	*See CL* TR 10*			
Cl*	CL* TR 10 LW		LYNGA G.+	84..1070	NNNN
Cl*	CL* TR 10 LYNG		LYNGA G.	62.21309	NNNN
Cl*	CL TR 10		LYNGA G.	59.13751	NNNN
Cl*	CL TR 14		FEINSTEIN A.+	83..4085	NNNN

Objects	Abreviation	Explanation or *alias*	Author(s)	Reference	Format
Cl*	CL TR 15		GRUBISSICH C.	68.30006	NNNN
Cl*	CL TR 16		FEINSTEIN A.+	73...477	NNNN
Cl*	CL TR 17		STEPPE H.	77..1600	NNNN
Cl*	CL TR 18		SCHMIDT H.+	64.30006	NNNN
Cl*	CL TR 21		MOFFAT A.F.J.+	73...417	NNNN
Cl*	CL TR 22		LINDOFF U.	68.13756	NNNN
Cl*	CL TR 24		SEGGEWISS W.	67.30015	NNNN
Cl*	CL TR 24		HESKE A.+	84..1563	NNNN
Cl*	CL TR 26		TERZAN A.+	81..1576	NNNN
Cl*	CL TR 27		THE P.S.+	70...119	NNNN
Cl*	CL TR 27	[80,107]	MOFFAT A.F.+	77....21	NNNN
Cl*	CL TR 28		THE P.S.+	70...119	NNNN
Cl*	CL TR 33		GRUBISSICH C.	64.30004	NNNN
Cl*	CL TR 34		SEGGEWISS W.	67.30015	NNNN
Cl*	CL TR 35		YILMAZ F.	66.30006	NNNN
Cl*	CL TR 37		ALKSNIS A.	61.30004	NNNN
Cl*	CL UPGREN 1		RUFENER F.	71..1502	NNNN
	CL UPGREN 1	*See CL* UPGREN 1 UPB*			
Cl*	CL* UPGREN 1 UPB		UPGREN A.R.+	82..3030	NNNN
Cl*	CL VDB 1		ARP H.	60...181	NNNN
Cl*	CL WATERLOO 1		MOFFAT A.F.J.+	79..1558	NNNN
Cl*	CL WATERLOO 2		MOFFAT A.F.J.+	79..1558	NNNN
Cl*	CL WATERLOO 3		MOFFAT A.F.J.+	79..1558	NNNN
Cl*	CL WATERLOO 6		FITZGERALD M.P.+	79..1542	NNNN
Cl*	CL WESTERLUND 1		WESTERLUND B.E.	61.30003	NNNN
Cl*	CL WESTERLUND 2		MOFFAT A.F.J.+	75..1503	NNNN
Cl*	CL WESTERLUND 3		WESTERLUND B.E.	69...102	NNNN
M*	CLS	Case Late Stars	SANDULEAK N.	88...517	NNNA
	Cn	*See PN Cn*			
	CnMy	*See PN CnMy*			
MCld	CO	Systematic designation			LLL.ll+BB.bb
	COD	*See CD*			
	Coll	*See CL Coll*			
	COMA BER	*See CL MEL 111*			
	COU	*See ** COU*			
	COX	*See NGC 2516*			
	CP	*See CPD*			
	CP	*See PULS*			
rad	4CP		CASEWELL J.L.	66.30009	DD.NN.N

Objects	Abreviation	Explanation or *alias*	Author(s)	Reference	Format
*	CPC•	Cape Photograhic Catalogue	STOY R.H.+	23.30003+	vv +DD NNNNN vv.n +DD NNNN
*	CPC2	Cape Photograhic Catalogue 2	NICHOLSON W.+	84..2999	FFNNNN
	CPCII	*See CPC2*			
*	CPD	Cape Photographic Durchmusterung	GILL D.+	00.30005+	+DD NNNNN
	3CR CRL	*See 3C* *See AFGL*			
*	CSI•	Catalogue of Stellar Identifications	OCHSENBEIN F.+	81..1519	+DD NNNNN NN +DD -HHMMm NN
Blue obj	CSO	Case Stellar Object	PESCH P.+	86...508+	NNN
S*	CSS	Catalogue of S Stars (2nd ed.)	STEPHENSON C.B.	84.31150	NNNN
V*	CSV	Catalogue of Suspected Variables	KUKARKIN B.V.+	51.30003+	NNNNNN
rad	CTA	Caltech A list	HARRIS D.E.+	60..3009	NNN
rad	CTB	Caltech B list	WILSON R.W.+	60..3008	NNN
rad	CTD	Caltech D list	KELLERMANN K.I.+	65.30008	NNN
	CV MON CYG II CZC	*See CL VDB 1* *See ASS CYG OB 2* *See CPC*			
rad	DA	Dominion List A	GALT J.A.+	68..2003	NNN
rad	DB	Dominion List B	GALT J.A.+	68..2004	NNN
	DC DC	*See DRCG* *See DCld*			
M*	DC	Dearborn Catalogue	LEE O.J.+	47.30003+	NNNNN
Dark Cld	DCld	Dark Cloud	HARTLEY M.+	86..1502	LLL.l+BB.b
	Dd DdDm	*See PN Dd* *See PN DdDm*			
G	DDO	David Dunlap Obs.	VAN DEN BERGH S.	59.27501+	NNN
	DeHt DEL LYR DELALANDE	*See PN DeHt* *See CL STEPHENSON 1* *See LAL*			
HII	DEM	Authors' initials	DAVIES R.D.+	76.16005	L NNNa S NNNa
	DEV G	*See DV*			
C*	DJM	Author's initials	MACCONNEL D.J.	88..2183	NNN
*	DM	Durchmusterung (+89/-22=BD, -23/-51=CD, -52/-89=CPD)			+DD NNNNNa
	DO Dolidze	*See DC* *See CL DOLIDZE*			
rad	DR	Authors' names	DOWNES D.+	66...218	NN NN(OH)
ClG	DRCG	Dressler Cluster of Galaxies	DRESSLER A.	80...522	HHMM+DD
SGP*	DRIL•	Auhtor's abbreviation	DRILLING J.S.	77..2060	NN

Objects	Abreviation	Explanation or *alias*	Author(s)	Reference	Format
Group G	DV	Author's abbreviation	DE VAUCOULEURS G.	75.30006	NNN
rad	DW	Dwingeloo	DAVIS M.M.	67..1001	HHMM+DD
X	1E•	EINSTEIN (HEAO-2)	GIACONNI R.+	79...311+	HHMM.m+DDMM HHMMSS+DDMM.m
	EG	*See EGGR*			
WD	EGGR•	Authors' initials	EGGEN O.J.+	65...302+	NNN
PM*	EGM•	EGGEN proper motion	EGGEN O.J.	76...508	NNN
IR	Elia	Author's abbreviation	ELIAS J.H.	78...210+	N-NNN
	ELIAS Em	*See Elia* *See PN Em*			
em*	EM* AS	Additional Stars	MERRILL P.W.+	50....96+	NNN NNNA
em*	EM* CGHA	Castel Gondolfo H-alf	MCCARTHY M.F.	76.17011	NN
em*	EM* GGA	Gonzalez Anticenter	GONZALEZ G.+	54.25501+	NNN
em*	EM* GGR	Gonzalez Rotation	GONZALEZ G.+	56.25502	NNN
em*	EM* LKHA	Lick H-alpha	HERBIG G.H.+	54....25+	NNN
em*	EM* MWC•	Mount Wilson Catalog	MERRIL P.W.+	33.....3+	NNNN
em*	EM* RJHA•	Authors' initials	ROBERTSON T.H.+	89..2223	NNN
em*	EM* SR	Authors' initials	STRUVE O.+	49....21	NN
em*	EM* STHA		STEPHENSON C.B.+	86....66	NNN
em*	EM* UHA•	Uppsala H-alpha	WELIN G.	73..1505	NNNN
em*	EM* VES•	Vatican Emission Stars	COYNE S.J.+	74.17001+	NNNN
em*	EM* VRMF	Authors' initials	VEGA E.I.+	80..2057	NNN
?	EQ	Systematic designation			HHMM+DD HHMM.m+DDMM HHMM+DDd HHMM+DDMM HHMMSS+DDMM HHMMSS+DDMMSS HHMMSS.s+DDMMSS HHMMSS.s+DDMMSS.s
G	ESO•	European Southern Observatory	LAUBERTS A.	82.20401	FFF-NNN FFF-A NNN
X	EXO	Satellite name		84.30051	HHMM+DDd HHMMSS+DDMM.m
	F F FAIRALL	*See FEIGE* *See FRL* *See FRL*			
Blue*	FB•	Faint Blue stars	GREENSTEIN J.L.+	74...837	NNN
WR*	FD	LMC WR stars	FEHRENBACH C.+	76..1520	NN
	FEIGE	*See FEIG*			
Blue*	FEIG•		FEIGE J.	58...179	NNN
	Fg FK/4	*See PN Fg* *See FK4*			

Objects	Abreviation	Explanation or *alias*	Author(s)	Reference	Format
*	FK4•	4. Fundamental Katalog	FRICKE W.+	63.30007	NNNN
	FM FMH	*See NGC 4609* *See CL HOGG 15*			
G	FRL•		FAIRALL A.P.	77..2627+	NNN
	FUENC	*See Fuen C*			
C*	Fuen C	Author's name C	FUENMAYOR F.J.	81.13506+	NNN
X	FXP	Flaring X-ray PSR	KUMKOVA I.I.+	80..3259+	HHMM+DD
	G G	*See GRS* *See DV*			
PM*	G•	Author's initial	GICLAS A.L.+	59.27251+	FFFANN A FFF-NNN A
?	GAL	Systematic designation			LLL+BB LLL+BB+KKK LLL.l+BB.b LLL.l+BB.b+KKK LLL.ll+BB.bb LLL.ll+BB.bb+KKK
V*	GAPO•	Author's abbreviation	GAPOSCHKIN S.	62..2002	NNNa
*	GAT	Author's name	GATEWOOD G.+	73...524+	NNN
gamma	GB	Gamma Burst	ATTEIA J.L.+	87...567	YYMMDDA
gamma	GBS	Gamma Burst Source	ATTEIA J.L.+	87...567	HHMM+DD
*	GC•	General Catalogue	BOSS B.	37.34531	NNNNN
*	GCRV•	General Catalogue of Radial Velocities	WILSON R.E.	53.20400	NNNNN
	GCTP GCVS	*See PLX* *See V**			
X	GCX	Galactic Center X-ray sources			LLL+BB
WD	GD•	Giclas dwarfs	GICLAS A.L.+	65.27252+	NNNN
*	GEN#	Geneva Identification system	MERMILLIOD J.C.		+N.NNNNNNNNA
	G-G G-G GEA	*See EM* GGA* *See EM* GGR* *See PN GEA*			
HH	GGD	Authors' initials	GYULBUDAGHIAN A.L.	78...307	NN
MCld	GH2O	Systematic designation			LLL.ll+BB.bb
	GICLAS	*See G*			
*	GJ•	Authors' initials	GLIESE W.+	69.32291+	NNNNA NNN.NA
	GL GL GLIESE	*See AFGL* *See GJ* *See GJ*			
RfN	GM 1-	Authors' initials	GYULBADAGHIAN A.L.+	77.17751	NN
HH	GM 2-	Authors' initials	GYULBADAGHIAN A.L.+	77.30014	NN
Neb	GM 3-	Authors' initials	GYULBADAGHIAN A.L.+	77.10330	NN
*	GMb	Groombridge	DYSON F.W.+	05.30002	NNNN
G	GMP	Godwin galaxies	GODWIN J.G.+	83..2528	NNNN

Objects	Abreviation	Explanation or *alias*	Author(s)	Reference	Format
?	GOH	Systematic designation			LLL.ll+BB.bb
X	GPS	Galactic Plane Survey	WARWICK R.S.+	88..2622	HHMM+DDd
	Gr GR GR GR GR GR GR	*See GMb* *See GRA* *See SV* GR* *See AC* *See GR** *See EGGR* *See GRRV*			
Red*	GR*•	Giclas Red stars	GICLAS H.L.+	72.27251+	NN
rad	GRA	Grakova Radio Astron. obs	BRAUDE S.YA.+	78..4039+	HHMM+DD
	GROOMBRIDGE	*See GMb*			
V* in LMC	GRRV	Authors' initials Red Variable	GLASS I.S.+	85..2636	NN
RS	GRS	Galactic Radio Sources			LLL.ll+BB.bb
V* in LMC	GRV	Authors' initials Red Variable	REID N.+	88..2601	HHMM-DDMM
	GRW	*See AC*			
*	GSPC	Guide Star Photometric Catalogue	LASKER B.M.+	88...532	PNNN-A SNNN-A
Rad	GT	Authors' initials	GREGORY P.C.+	86..2170+	HHMM+DDda
HII	GUM	Author's name	GUM C.S.	55.16002	NNa
X	GX	Galactic X-ray			LLL.l LLL.l+BB.b
RfN	Gy 1-	Author's abbreviation	GYULBUDAGYAN A.L.	82.17751	NN
HH	Gy 2-	Author's abbreviation	GYULBUDAGYAN A.L.	82..3266+	NN
	1H h PER	*See H* *See NGC 869*			
X	H•	HEAO	MARSHALL F.E.+	79...537+	HHMM+DD HHMM+DDd
	H	*See PN H*			
MCld	H2O	Systematic designation			HHMM+DD
	Haffner	*See CL HAFFNER*			
em*	HARO 1-	Author's name	HARO G.	49..2002	NN
PN	HARO 2-	Author's name	HARO G.	52.25501	NN
PN?	HARO 3-	Author's name	HARO G.	52.25501	NN
em*	HARO 4-	Author's name	HARO G.	53...303	NNN
em*	HARO 5-	Author's name	HARO G.	53.25502	NN
em*	HARO 6-	Author's name	HARO G.	53.25501	NN
	Harvard Hb	*See CL HARVARD* *See PN Hb*			
OB*	Hbg	Heidelberg	KLARE G.+	66.30014+	NNNNa

Objects	Abreviation	Explanation or *alias*	Author(s)	Reference	Format
em*	HBC	Herbig and Bell Catalog	HERBIG G.H.+	72...155+	NNN
	HBV	*See SV* HBV*			
G	HCG	Hickson's Compact Groups of galaxies	HICKSON P.	82...388+	NNN NNNa
*	HD$^\bullet$	Henry Draper Catalogue	CANNON A.J.+	18.30001+	NNNNNN
	HDE He HEN	*See HD* *See HE* *See HE 3*			
PN	HE 1-	Author's initials	HENIZE K.G.	61..3001	N
PN	HE 2-	Author's initials	HENIZE K.G.	67...348	NNN
em*	HE 3-	Author's initials	HENIZE K.G.	76...524	NNNN
	HEAO Hen N Hen S Hen N Hen S	*See H* *See LHA 115-N* *See LHA 115-S* *See LHA 120-N* *See LHA 120-S*			
*	HERZ$^\bullet$	Author's name	HERZ N.	07.30001	NNNNN
	Hf HFG	*See PN Hf* *See PN HFG*			
WD	HG	Hyades Giclas	GICLAS H.L.+	62.27251	F-NNN
	H-H	*See HH*			
HH	HH$^\bullet$	Herbig-Haro objects	HERBIG G.H.+	74.27001+	NNNA NNNa
OB*	HILT$^\bullet$		HILTNER W.A.	56...503	NNNN
WD	HL	Authors' initials	HARO G.+	61.25502	CCC NN
	HL HM HMEN HP	*See PHL* *See ASS CHA T 1-* *See ASS CHA T 1* *See PULS*			
Flare*	HPRA		HARO G.+	68.30009+	NNN
*	HR$^\bullet$	Harvard Revised photometry	HOFFLEIT D.+	82.30006	NNNN
	HRC	*See HBC*			
Rad	HSNH	Authors' initials	HANDA T.+	87.13276	NNN
	Hu	*See PN Hu*			
Neb	HUBB		HUBBLE E.	22.....2	RR NN
	Hubble HV	*See PN Hb* *See SV* HV*			
?	HVC	High Velocity Clouds	HULSBOSCH A.N.M.+	88..1603	LLL+BB+VVV LLL.l+BB.b+VVV
Cl	HW	Authors' initials	HODGE P.W.+	74..2031	NN
	HYADES HYADES	*See CL MEL 25* *See CL* MEL 25*			
Blue*	HZ$^\bullet$	Authors' initials	HUMASSON M.L.+	47....10	NN
	H-Z I Zw	*See HZ* *See ZW I*			
V*	IBAN$^\bullet$	Author's abbreviation	IBANEZ M.	77.14555	NN

Objects	Abreviation	Explanation or *alias*	Author(s)	Reference	Format
?	IC	Index Catalogue	DREYER J.L.E.	53.16001	NNNN
	IC2	*See CL* IC*			
Cl*	IC 166		BURKHEAD M.S.	69..2005	NNNN
Cl*	IC 348		GINGRICH C.H.	22.....1	NNNN
Cl*	IC 361		PICIRILLO J.+	78..2090	NNNN
Cl*	IC 1369		HASSAN S.M.	73..1508	NNNN
	IC 1613	*See CL* IC 1613*			
Cl*	CL* IC 1613 AM		ARMANDROFF T.E.+	85...236	NNNN
Cl*	IC 1795		OGURA K.+	76.13263	NNNN
Cl*	IC 1805		VASILEVSKIS S.	65..2002	NNNN
Cl*	IC 1805		JOSHI U.C.+	83.12504	NNNN
Cl*	IC 1848		HOAG A.A.+	61.30005	NNNN
Cl*	IC 2157		CUFFEY J.	38.30002	NNNN
	IC 2391	*See CL* IC 2391*			
Cl*	IC 2391		PERRY C.L.+	69...104	NNNN
Cl*	CL* IC 2391 LW		LYNGA G.+	84..1070	NNNN
Cl*	IC 2395		LYNGA G.	59.13751	NNNN
Cl*	IC 2581		EVANS L.T.	69...274	NNNN
Cl*	IC 2602		BRAES L.L.E.	62....45	NNNN
Cl*	IC 2714		BECKER W.	60.30007	NNNN
Cl*	IC 2944		ARDEBERG A.+	77..1515	NNNN
	IC 2944	*See CL* IC 2944*			
Cl*	CL* IC 2944 THA		THACKERAY A.D.+	65...221	NNNN
Cl*	IC 4651		LINDOFF U.	72..1510	NNNN
Cl*	IC 4665		KOPFF E.	43.11251	NNNN
Cl*	IC 4725		JOHNSON H.L.	60...180	NNNN
Cl*	IC 4756		KOPFF E.	43.11251	NNNN
	IC 4756	*See CL* IC 4756*			
Cl*	CL* IC 4756 HER		HERZOG A.D.+	75...190	NNNN
Cl*	IC 4996		VAN SCHEWICK H.	67.30010	NNNN
Cl*	IC 5146		WALKER M.F.	60.21309	NNNN
**	IDS	Index catalogue of Double Stars	JEFFERS H.M.	63.30008	HHMMm+DDMMAAAA
	II Zw	*See ZW II*			
	III CEP	*See CEP OB 3*			
	III Zw	*See ZW III*			
	INN	*See SV* INN*			
IR	IRAS	Infra-Red Astronomical Satellite	BEICHMAN C.A.+	85.64001+	HHMMm+DDMM A HHMM+DDdPnn
IR	IRC•	Infra-Red Catalogue	NEUGEBAUER G.+	69.32221	+D0NNN
IR Cld	IREC	IR Exc. Cloud	DESERT F.X.+	88..9282	NNN
IR	IRSV	IR Survey Valinhos	EPCHTEIN N.+	85..1575+	HHMM+DDd
G	ISG	Authors' initials	ISSERSTEDT J.+	86..1420	NN
	IV Zw	*See ZW IV*			
IR	JENA			79.11512+	NNN

Objects	Abreviation	Explanation or *alias*	Author(s)	Reference	Format
Blue*	JL•	Authors' initials	JAIDEE S.+	69.13759	NNN
	Jn JP K	*See PN JN* *See PULS* *See PN K*			
G	Ka	Author's abbreviation	KAZARIAN M.A.	79.11766+	NNN
	KAZ KAZARIAN	*See Ka* *See Ka*			
X	KGX				LLL+BB
	King KISOC KISOHA	*See CL King* *See Kiso C* *See Kiso HA*			
C*	Kiso C 1-	Observatory	MAEHARA H.+	87.19503	NNN
C*	Kiso C 2-	Observatory	MAEHARA H.+	87.19508	NNN
Em*	Kiso HA-	Observatory	WIRAMIHARDJA S.D.+	89.13256	NNN
	Kj KjPn	*See PN Kj* *See PN KjPn*			
IR	KMS	Authors' initials	STROM K.M.+	89...552	NNN
	KO KO KOCH	*See PN KO* *See NGC 3532* *See CL* NGC 2264 KOCH*			
X	KOHX			76..3272	NNN
UV	KPD	Kitt Peak Downes	DOWNES R.A.	86...530	HHMM+DDMM
	Kr	*See PN Kr*			
Rad	KR	Authors' initials	KALLAS E.+	86..2212	NNNA
	KS KS	*See CL STOCK 2* *See Hbg*			
G	KUG	Kiso UV Galaxies	TAKASE B.+	84.19505+	HHMM+DDdA
*	KURT			80..1505	RR NNNN
UV	KUV	Kiso UV Objects	WEGNER G.+	85..2140+	HHMMm+DDMM FFF-NN
	KW KZP L L L L	*See CL* NGC 2632 KW* *See CSV* *See LAL* *See LAWD* *See LDN* *See LBN*			
PM*	L		LUYTEN W.J.	42.30001+	FFFF-NNNN
*	LAL	Discoverer's name	BAILY F.	00.30008	NNNNN
UV	LAN	Author's abbreviation	LANNING H.H.	73...358	NN
WD	LAWD	Luyten Atlas of WD	LUYTEN W.J.	49....22	NN
Blue*	LB	Luyten Blue	LUYTEN W.J.	53.30002	NNNNN
HII	LBN	Lynds Bright Nebulae	LYNDS B.T.	65..9027	LLL.ll+BB.bb
	LD LD	*See LBN* *See LDN*			
Dark N	LDN	Lynds Dark Nebulae	LYNDS B.T.	62...501	NNNNA
	LDS	*See ** LDS*			
C*	LEE•	Author's name	LEE O.J.+	40.30001+	NNN
	LEID	*See CL* MEL 25 LEID*			

Objects	Abreviation	Explanation or *alias*	Author(s)	Reference	Format
*	LF	Luminosity Function	MCCUSKEY S.W.+	49.....3+	FFa +DD NNN FF NNN
PM*	LFT	Luyten Five Tenths	LUYTEN W.J.	55.30001	NNNN
Cl	LH	Authors' initials	LUCKE P.B.+	70..2006	NNN
em*	LHA	Lamont-Hussey H-alfa	HENIZE K.G.	56...505	FFF-A NNN FFF-NNN
rad	LHE	Authors' initials	LONG R.J.+	63..2501	NNN
PM*	LHS•	Extension of LFT	LUYTEN W.J.	76.30002	NNNNNa
*	LID	Lausanne IDentification			NNNNNNNNNN.NN
	LICK H	*See EM* LKHA*			
em*	LIN	Author's abbreviation	LINDSAY E.M.	61..2022	NNNa
	LINDSAY LINDSAY LKH LKHA Lo LoTr	*See LIN* *See CL LINDSAY* *See EM* LKHA* *See EM* LKHA* *See PN Lo* *See PN LoTr*			
PM*	LP	Luyten Palomar	LUYTEN W.J.	63.30009+	FFFF-NNNA
PM*	LPM	Luyten Proper Motion	LUYTEN W.J.	67.30004	NNN
Rad	LRWR	Authors' initials	LOISEAU N.+	88..1593	NNN
	LRWRM LS	*See LRWR* *See LSWR*			
OB*	LS•	Luminous Stars	STEPHENSON C.B.+	59.20802+	RR +DD NNN NNNN
O*	LSE	Luminous Stars Extension	DRILLING J.S.+	83...423	NN
	LSN LSS LSSMW	*See LS* *See LS* *See LS*			
WR*	LSWR•	Author's initials WR stars	SMITH L.F.	68....44	NN
PM*	LTT	Luyten Two Tenths	LUYTEN W.J.	57.30001+	NNNNN
WD	LWD	Luyten White Dwarf	LUYTEN W.J.	70.30006+	FFF-NNN
	LYNDS LYNDS Lynga	*See LDN* *See LBN* *See CL LYNGA*			
X	1M	Massachussets OSO-7		79...514	HHMM+DDd
	M M	*See PN M* *See SV* M*			
?	M	Author's initial	MESSIER C.	00.30009	NNN
	M67 MA MaC MARK MARK	*See NGC 2682* *See MRK* *See PN MaC* *See CL MRK* *See MRK*			
?	MC	Martin Cohen	COHEN M.+	76...352	N
rad	MC1	Monloglo Cat. 1	DAVIES I.M.	73.25251	HHMM+DDdA
rad	MC2	Monloglo Cat. 2	SUTTON J.M.	74.25251	HHMM+DDdA

Objects	Abreviation	Explanation or *alias*	Author(s)	Reference	Format
rad	MC3	Monloglo Cat. 3	SUTTON J.M.	74.25251	HHMM+DDdA
rad	MC4	Monloglo Cat. 4	CLARKE J.N.	76.25251	HHMM+DDdA
rad	MC5	Monloglo Cat. 5			HHMM+DDdA
M*	MCC	McCormick obs.	VYSSOTSKY A.N.+	43.....4+	NNN
G	MCG•	Morphological Catalogue of Galaxies	VORONTSOV-VEL YAMINOV B.A.+	62.30008+	+FF-FF-NNNNA
	Me Mel Melotte MG	*See PN Me* *See CL MEL* *See CL MEL* *See MITG*			
WR* in LMC	MGWR	Morgan-Good WR stars	MORGEN D.H.+	85..2725+	N
em*	MHA	Merrill H-alpha			NNN-NNN
	Min	*See PN M*			
Rad	MITG	MIT-Green Bank	BENNETT C.L.+	86...518+	BHHMM+DDMM JHHMM+DDMM
	MK MKN MKR Mlr	*See MRK* *See MRK* *See MRK* *See ** MLR*			
OB*	MO•	Authors' initials	MUZZIO J.C.+	77..2022	NNN
	MP	*See PULS*			
WR*	MR•	Author's initials	ROBERTS M.S.	62...122	NNN
G	MRK•	Author's name	MARKARIAN B.E.+	67.11751+	NNNN NNNNA
C*	MSB•	Authors' initials	MERRIL P.W.+	33..3001+	NN
rad	MSH	Authors' initials	MILLS B.Y.+	58.25251+	HH+DNN
	MWC MX	*See EM* MWC* *See 1M*			
X	MXB•	Mass. X-ray burster	LEWIN W.H.G.+	81.25001	HHMM+DDd
	My MyCn Mz N N N N/30	*See PN My* *See PN MyCn* *See PN Mz* *See NOVA* *See NGC* *See LHA* *See N30*			
*	N30•	Normal system 1930	MORGAN H.R.	52.32061	NNNN
	Na	*See PN Na*			
?	NAME	Object name			AAAAAAAAAAAAAAAAAAA
rad	NB	Author's initials	BRANSON N.J.B.A	67..2503	DDNN
Rad	NEK	Author's initials	KASSIM N.E.	88...547	LLL.l+BB.b
?	NGC		DREYER J.L.E.	53.16001	NNNN
	NGC2	*See CL* NGC*			
Cl*	NGC 103		HARDORP J.	60.30005	NNNN
Cl*	NGC 104		WILDEY A.+	61...401+	NNNN
	NGC 104	*See CL* NGC 104*			
Cl*	CL* NGC 104 CHUN		CHUN M.S.+	78..2092	NNNN
Cl*	CL* NGC 104 HART		HARTWICK F.D.A.+	72.30003	NNNN

Objects	Abreviation	Explanation or *alias*	Author(s)	Reference	Format
Cl*	CL* NGC 104 HOGG		HOGG S.H.	73.27501	NNNN
Cl*	CL* NGC 104 LEE		LEE S.W.	77..1590	NNNN
Cl*	NGC 129		ARP H.C.+	59....64	NNNN
	NGC 147	*See CL* NGC 147*			
Cl*	CL* NGC 147 SH		SAHA A.+	87..2256	NNNN
Cl*	NGC 188		SANDAGE A.R.	62...400	NNNN
	NGC 224	*See CL* NGC 224*			
Cl*	CL* NGC 224 BA		BAADE W.+	64....55	NNNN
Cl*	CL* NGC 224 P		PELLET A.+	78..1567	NNNN
Cl*	NGC 225		HOAG A.A.+	61.30005	NNNN
	NGC 288	*See CL* NGC 288*			
Cl*	NGC 288		PENNY A.J.	84..2643	NNNN
Cl*	CL* NGC 288 ALC		ALCAINO G.	75..1508	NNNN
Cl*	CL* NGC 288 ARP		ARP H.	59..2009	NNNN
	NGC 300	*See CL* NGC 300*			
Cl*	CL* NGC 300 MWMM		MADORE B.F.+	87..9012	NNNN
Cl*	NGC 362		MENZIES J.W.	67.30006	NNNN
Cl*	NGC 457		BODEN E.	46.30001	NNNN
Cl*	NGC 559		LINDOFF U.	69.14002	NNNN
Cl*	NGC 581		STEPPE H.	74..1510	NNNN
	NGC 598	*See CL* NGC 598*			
Cl*	CL* NGC 598 CM		CONTI P.S.+	81...297	NNNN
Cl*	CL* NGC 598 MCA		MASSEY P.+	87..3086	NNNN
Cl*	CL* NGC 598 MCMS		MASSEY P.+	87..3086	NNNN
Cl*	NGC 609		LEE V.L.	71..2004	NNNN
Cl*	NGC 654		MUELLER E.A.	55.30002	NNNN
Cl*	CL* NGC 659 STEP		STEPPE H.	74..1510	NNNN
Cl*	NGC 659		MCCUSKEY S.W.+	64..2100	NNNN
	NGC 659	*See CL* NGC 659*			
Cl*	NGC 663		WALLENQUIST A.	29.30001	NNNN
Cl*	NGC 744		HOAG A.A.+	61.30005	NNNN
Cl*	NGC 752		HEINEMANN K.	26.11253	NNNN
Cl*	NGC 869		OOSTERHOFF P.TH.	37.30001	NNNN
Cl*	NGC 884		OOSTERHOFF P.TH.	37.30001	NNNN
Cl*	NGC 957		GIMENEZ A.+	80..1576	NNNN
Cl*	NGC 1027		HOAG A.A.+	61.30005	NNNN
Cl*	NGC 1039		DIECKVOSS W.	54.11251	NNNN
Cl*	NGC 1245		CHINCARINI G.	64.12251	NNNN
Cl*	NGC 1252		BOUCHET R.+	83..3056	NNNN

Objects	Abreviation	Explanation or *alias*	Author(s)	Reference	Format
Cl*	NGC 1261		ALCAINO G.+	71..1100	NNNN
Cl*	NGC 1342		HOAG A.A.+	61.30005	NNNN
Cl*	NGC 1444		HOAG A.A.+	61.30005	NNNN
Cl*	NGC 1502		PURGATHOFER A.	64.30003	NNNN
Cl*	NGC 1528		HOAG A.A.+	61.30005	NNNN
Cl*	NGC 1545		HOAG A.A.+	61.30005	NNNN
Cl*	NGC 1647		CUFFEY J.	37.30002	NNNN
Cl*	NGC 1662		HOAG A.A.+	61.30005	NNNN
Cl*	NGC 1664		LARSSON-LEANDER G.	57.30002	NNNN
Cl*	NGC 1750		LI HEN	54.30001	NNNN
Cl*	NGC 1778		HOAG A.A.+	61.30005	NNNN
Cl*	NGC 1807		PURGATHOFER A.	64.30003	NNNN
Cl*	NGC 1817		CUFFEY J.	38.30002	NNNN
	NGC 1841	*See CL* NGC 1841*			
Cl*	CL* NGC 1841 ABW		ANDERSEN J.+	87..2761	NNNN
Cl*	NGC 1851		ALCAINO G.	69...400	NNNN
	NGC 1851	*See CL* NGC 1851*			
Cl*	CL* NGC 1851 ALC		ALCAINO G.	76..1075	NNNN
Cl*	CL* NGC 1851 STET		STETSON P.B.	81..2060	NNNN
Cl*	NGC 1857		CUFFEY J.	37.30002	NNNN
	NGC 1866	*See CL* NGC 1866*			
Cl*	CL* NGC 1866 SAB		STROM J.+	83..1039	NNNN
Cl*	NGC 1893		CUFFEY J.	37.30002	NNNN
Cl*	NGC 1901		SANDULEAK N.+	68...260	NNNN
Cl*	NGC 1904		STETSON P.B.+	77..2100	NNNN
Cl*	NGC 1907		PURGATHOFER A.	64.30003	NNNN
Cl*	NGC 1912		CUFFEY J.	37.30002	NNNN
Cl*	NGC 1960		BODEN E.	51.30002	NNNN
Cl*	NGC 1977		BRUN A.	35.30001	NNNN
	NGC 1977	*See CL* NGC 1977*			
Cl*	CL* NGC 1977 P		PARENAGO P.P.	54.30009	NNNN
Cl*	NGC 2024		JOHNSON H.L.+	63.25501	NNNN
Cl*	CL* NGC 2068 SSCV		STROM K.M.	75....40	NNNN
Cl*	NGC 2081		WESTERLUND B.E.	61.30003	NNNN
Cl*	NGC 2099		VAN ZEIPEL H.+	21.30001	NNNN
Cl*	NGC 2112		RICHTLER T.	85..1525	NNNN
Cl*	NGC 2129		CUFFEY J.	38.30002	NNNN
Cl*	NGC 2141		BURKHEAD M.S.+	72...295	NNNN
Cl*	NGC 2158		ARP H.+	62...302	NNNN
Cl*	NGC 2168		CUFFEY J.	38.30002	NNNN
Cl*	NGC 2169		HOAG A.A.+	61.30005	NNNN
Cl*	NGC 2175		PISMIS P.	70.25501	NNNN
Cl*	NGC 2186		MOFFAT A.F.J.+	75..1501	NNNN
	NGC 2193	*See CL* NGC 2193*			

Objects	Abreviation	Explanation or *alias*	Author(s)	Reference	Format
Cl*	CL* NGC 2193 DCK		DA COSTA G.S.+	87..9135	NNNN
Cl*	NGC 2204		HAWARDEN T.G.	76..2604	NNNN
Cl*	NGC 2215		BECKER W.+	76.30010	NNNN
Cl*	NGC 2232		CLARIA J.J.	72....59	NNNN
Cl*	NGC 2243		HAWARDEN T.G.	75...399	NNNN
Cl*	NGC 2244		OGURA K.+	81.13251	NNNN
	NGC 2244	*See CL* NGC 2244*			
Cl*	CL* NGC 2244 JOHN		JOHNSON H.L.	62.21303	NNNN
Cl*	CL* NGC 2244 VS		VAN SCHEWICK H.	58.30001	NNNN
Cl*	NGC 2251		HOAG A.A.+	61.30005	NNNN
Cl*	NGC 2252		VAN SCHEWICK H.	58.30001	NNNN
Cl*	NGC 2264		WALKER M.F.	56...504	NNNN
	NGC 2264	*See CL* NGC 2264*			
Cl*	CL* NGC 2264 VAS		VASILEVSKIS S. (NO VAS.+300)	65..2001	NNNN
Cl*	CL* NGC 2264 KOCH		KOCH R.H.+	74...229	NNNN
Cl*	NGC 2269		MOFFAT A.F.J.+	75..1501	NNNN
Cl*	NGC 2281		VASILEVSKIS S.+	59..2003	NNNN
Cl*	NGC 2286		LI HEN	54.30001	NNNN
Cl*	NGC 2287		COX A.N.	54.....9	NNNN
Cl*	NGC 2301		GRUBISSICH C.+	62.30004	NNNN
Cl*	NGC 2302		MOFFAT A.F.J.+	75..1501	NNNN
Cl*	NGC 2323		CUFFEY J.	41.....3	NNNN
Cl*	NGC 2324		CUFFEY J.	41.....3	NNNN
Cl*	NGC 2335		CLARIA J.J.	73..1506	NNNN
Cl*	NGC 2343		CLARIA J.J.	72...308	NNNN
Cl*	NGC 2345		MOFFAT A.F.J.	74.21101	NNNN
Cl*	NGC 2353		HOAG A.A.+	61.30005	NNNN
Cl*	CL* NGC 2353 EG		EGGEN O.J.	78..3056	NNNN
Cl*	NGC 2354		DURBECK W.	60.30006	NNNN
Cl*	NGC 2360		BECKER W.+	76.30010	NNNN
Cl*	NGC 2362		JOHNSON H.L.	50...105	NNNN
Cl*	NGC 2367		VOGT N.+	72...502	NNNN
Cl*	NGC 2374		FENKART R.P.	72..1501	NNNN
Cl*	NGC 2383		VOGT N.+	72...502	NNNN
Cl*	NGC 2384		VOGT N.+	72...502	NNNN
	NGC 2403	*See CL* NGC 2403*			
Cl*	CL* NGC 2403 SAND		SANDAGE A.	84..2031	NNNN
Cl*	NGC 2414		VOGT N.+	72...502	NNNN
Cl*	NGC 2420		CANNON R.D.+	70..2502	NNNN
Cl*	NGC 2421		MOFFAT A.F.J.+	75..1501	NNNN
Cl*	NGC 2422		VAN SCHEWICK H.	66.30003	NNNN
Cl*	NGC 2423		HASSAN S.M.	76..1547	NNNN
Cl*	NGC 2437		CUFFEY J.	41.....3	NNNN
Cl*	NGC 2439		WHITE S.D.M.	75....56	NNNN

Objects	Abreviation	Explanation or *alias*	Author(s)	Reference	Format
Cl*	NGC 2447		BECKER W.+	76.30010	NNNN
	NGC 2451	*See CL* NGC 2451*			
Cl*	NGC 2451		WILLIAMS P.M.	67.14251	NNNN
Cl*	CL* NGC 2451 LW		LYNGA G.+	84..1070	NNNN
Cl*	NGC 2453		MOFFAT A.F.J.+	74..1502	NNNN
Cl*	NGC 2467		LODEN L.O.	66.21322	NNNN
	NGC 2477	*See CL* NGC 2477*			
Cl*	NGC 2477		EGGEN O.J.+	61.14762	NNNN
Cl*	CL* NGC 2477 HART		HARTWICK F.D.A.+	72.30003+	NNNN
Cl*	NGC 2482		MOFFAT A.F.J.+	75..1501	NNNN
Cl*	NGC 2483		FITZGERALD M.P.+	75...200	NNNN
Cl*	NGC 2489		LINDOFF U.+	68.13753	NNNN
Cl*	NGC 2506		MCCLURE R.D.+	81...209	NNNN
	NGC 2516	*See CL* NGC 2516*			
Cl*	NGC 2516		COX A.N.	55...302	NNNN
Cl*	CL* NGC 2516 LW		LYNGA G.+	84..1070	NNNN
Cl*	NGC 2527		LINDOFF U.	73..1507	NNNN
Cl*	NGC 2533		LINDOFF U.	68.13754	NNNN
Cl*	NGC 2539		PESCH P.	61...303	NNNN
Cl*	NGC 2546		LINDOFF U.	68.13755	NNNN
	NGC 2547	*See CL* NGC 2547*			
Cl*	NGC 2547		CLARIA J.J.	82..1501	NNNN
Cl*	CL* NGC 2547 LW		LYNGA G.+	84..1070	NNNN
	NGC 2547	*See CL* NGC 2547*			
Cl*	CL* NGC 2547 FER		FERNIE J.D.	59.21322	NNNN
Cl*	NGC 2548		LI HEN	54.30001	NNNN
Cl*	NGC 2567		LINDOFF U.	68.13754	NNNN
Cl*	NGC 2571		LINDOFF U.	68.13754	NNNN
Cl*	NGC 2579		LINDOFF U.	68.13755	NNNN
	NGC 2632	*See CL* NGC 2632*			
Cl*	CL* NGC 2632 ART		ARTIUKHINA N.M.	71.15501	NNNN
Cl*	CL* NGC 2632 HERT		HERTZSPRUNG E.	17.11251	NNNN
Cl*	CL* NGC 2632 KW		KLEIN-WASSINK W.J.	27.30001	NNNN
Cl*	CL* NGC 2632 VL		VANDERLINDEN H.L. (No VL+1000)	33.30001	NNNN
Cl*	NGC 2635		VOGT N.+	72...502	NNNN
Cl*	NGC 2659		STETSON P.B.	81..2061	NNNN
	NGC 2660	*See CL* NGC 2660*			
Cl*	CL* NGC 2660 HART		HARTWICK F.D.A.+	73...220	NNNN
Cl*	NGC 2669		VOGT N.+	73.21103	NNNN
Cl*	NGC 2670		LYNGA G.	59.13751	NNNN

Objects	Abreviation	Explanation or *alias*	Author(s)	Reference	Format
Cl*	NGC 2682		FAGERHOLM E.	06.30001	NNNN
	NGC 2682	*See CL* NGC 2682*			
Cl*	CL* NGC 2682 MUR		MURRAY C.A.+ (NO+400)	65.14752	NNNN
Cl*	NGC 2808		HARRIS W.E.	75...908	NNNN
	NGC 2808	*See CL* NGC 2808*			
Cl*	CL* NGC 2808 ALC		ALCAINO G. (NO+500)	69...400	NNNN
Cl*	NGC 2818		TIFFT W.G.+	72..9026	NNNN
Cl*	NGC 2910		BECKER W.+	76.30010	NNNN
Cl*	NGC 2925		TOPAKTAS L.	81..1905	NNNN
Cl*	NGC 2972		VOGT N.+	73.21103	NNNN
Cl*	NGC 3033		VOGT N.+	73.21103	NNNN
Cl*	NGC 3105		MOFFAT A.F.J.+	74..1503	NNNN
Cl*	NGC 3114		JANKOWITZ N.E.+	63.21326	NNNN
Cl*	NGC 3201		LEE S.W.	77..1558	NNNN
Cl*	NGC 3228		HOGG A.R.	63.....6	NNNN
	NGC 3228	*See CL* NGC 3228*			
Cl*	CL* NGC 3228 THE		THE P.S.+ (NO 30 TO 39)	74..1504	NNNN
Cl*	NGC 3255		MOFFAT A.F.J.+	75..1503	NNNN
Cl*	NGC 3293		TURNER D.G.+	80..2056	NNNN
	NGC 3293	*See CL* NGC 3293*			
Cl*	CL* NGC 3293 FEAS		FEAST M.W.	58....15	NNNN
Cl*	NGC 3324		CLARIA J.J.	77..1506	NNNN
Cl*	NGC 3330		BECKER W.+	76.30010	NNNN
Cl*	NGC 3496		SHER D.	65...150	NNNN
Cl*	CL* NGC 3532 FERN		FERNANDEZ J.A.+	80..1577	NNNN
Cl*	CL* NGC 3532 BUT		BUTLER C.J.	76..2901	NNNN
Cl*	NGC 3532		KOELBLOED D.	59.30001	NNNN
	NGC 3532	*See CL* NGC 3532*			
Cl*	NGC 3572		STEPPE H.	77..1600	NNNN
	NGC 3572	*See CL* NGC 3572*			
Cl*	CL* NGC 3572 MV		MOFFAT A.F.J.+	75..1503	NNNN
Cl*	NGC 3590		STEPPE H.	77..1600	NNNN
	NGC 3590	*See CL* NGC 3590*			
Cl*	CL* NGC 3590 MV		MOFFAT A.F.J.+	75..1503	NNNN
Cl*	NGC 3603		SHER D.	65...150	NNNN
Cl*	NGC 3680		EGGEN O.J.	69.....1	NNNN
Cl*	NGC 3766		AHMED F.	62.28751	NNNN
Cl*	NGC 3960		JANES K.A.	81..2059	NNNN
Cl*	NGC 4103		WESSELINK A.J.	69...275	NNNN
Cl*	NGC 4147		SANDAGE A.R.+	55..2001	NNNN
Cl*	NGC 4337		MOFFAT A.F.J.+	73...417	NNNN
Cl*	NGC 4349		LOHMANN W.	61.21309	NNNN

Objects	Abreviation	Explanation or *alias*	Author(s)	Reference	Format
Cl*	NGC 4439		MOFFAT A.F.J.+	73...417	NNNN
Cl*	NGC 4463		MOFFAT A.F.J.+	73...417	NNNN
Cl*	NGC 4609		FEINSTEIN A.+	71...311	NNNN
Cl*	NGC 4755		ARP H.+	58....84	NNNN
Cl*	NGC 4815		MOFFAT A.F.J.+	73...417	NNNN
Cl*	NGC 4833		ALCAINO G.	71..1001	NNNN
Cl*	NGC 5024		CUFFEY J.	65..2101	NNNN
Cl*	NGC 5053		SANDAGE A.+	77..2404	NNNN
	NGC 5053	*See CL* NGC 5053*			
Cl*	CL* NGC 5053 PURT		PURTGATHOFER A.	66.30004	NNNN
Cl*	NGC 5138		LINDOFF U.	72..1510	NNNN
Cl*	NGC 5139		WOOLLEY R.R.+	66.30005	NNNN
	NGC 5139	*See CL* NGC 5139*			
Cl*	CL* NGC 5139 GEY		GEYER E.H.	67...188	NNNN
Cl*	NGC 5168		FENKART R.P.+	77..1560	NNNN
Cl*	NGC 5272		SANDAGE A.R.	08.30001+	NNNN
	NGC 5272	*See CL* NGC 5272*			
Cl*	CL* NGC 5272 V		MEINUNGER I.	83.11511+	NNNN
	NGC 5168	*See CL* NGC 5168*			
Cl*	CL* NGC 5168 MV		MOFFAT A.F.J.+	73...417	NNNN
Cl*	NGC 5281		MOFFAT A.F.J.+	73...417	NNNN
Cl*	NGC 5316		RAHIM M.A.	66.11251	NNNN
Cl*	NGC 5367		WILLIAMS P.M.+	77..2587	NNNN
Cl*	NGC 5460		CLARIA J.J.	71...173	NNNN
	NGC 5466	*See CL* NGC 5466*			
Cl*	NGC 5466		BUONANNO R.+	84..1526	NNNN
Cl*	CL* NGC 5466 CUF		CUFFEY J.	61.21325	NNNN
Cl*	NGC 5606		MOFFAT A.F.J.+	73...417	NNNN
Cl*	NGC 5617		HAUG U.	78..1562	NNNN
	NGC 5617	*See CL* NGC 5617*			
Cl*	CL* NGC 5617 LIND		LINDOFF U.	68.13757	NNNN
Cl*	NGC 5662		HAUG U.	78..1562	NNNN
Cl*	NGC 5749		LYNGA G.	64.21314	NNNN
	NGC 5822	*See CL* NGC 5822*			
Cl*	NGC 5822		BRUCK M.T.+	68.28751	NNNN
Cl*	CL* NGC 5822 BOZ		BOZKURT S.	74.13501	NNNN
Cl*	NGC 5823		BRUCK M.T.+	68.28751	NNNN
Cl*	NGC 5897		SANDAGE A.+	68...327	NNNN
	NGC 5904	*See CL* NGC 5904*			
Cl*	CL* NGC 5904 GERA		GERASHENKO A.	27..3044	NNNN
Cl*	NGC 6005		MOFFAT A.F.J.+	75..1502	NNNN
Cl*	NGC 6025		FEINSTEIN A.	71...365	NNNN

Objects	Abreviation	Explanation or *alias*	Author(s)	Reference	Format
Cl*	NGC 6031		LINDOFF U.	66.13754	NNNN
Cl*	NGC 6067		THACKERAY A.D.+	62.21332	NNNN
Cl*	NGC 6087		LANDOLT A.J.	64...299	NNNN
	NGC 6121	*See CL* NGC 6121*			
Cl*	NGC 6121		GREENSTEIN J.L.	39.....1	NNNN
Cl*	CL* NGC 6121 LEE		LEE S.W.	77..1901	NNNN
Cl*	NGC 6124		KOELBLOED D.	59.30001	NNNN
Cl*	NGC 6134		LINDOFF U.	72..1510	NNNN
Cl*	NGC 6167		BRUCK M.T.+	66.28751	NNNN
Cl*	NGC 6169		MOFFAT A.F.J.+	73...417	NNNN
Cl*	NGC 6171		SANDAGE A.+	64....58	NNNN
Cl*	NGC 6178		MOFFAT A.F.J.+	73...417	NNNN
	NGC 6192	*See CL* NGC 6192*			
Cl*	NGC 6192		HANDSCHEL G.	72.30005	NNNN
Cl*	CL* NGC 6192 KF		KILAMBI G.C.+	83.30042	NNNN
Cl*	CL* NGC 6192 KING		KING D.J.	87.10510	NNNN
Cl*	NGC 6193		MOFFAT A.F.J.+	73...417	NNNN
Cl*	NGC 6200		FITZGERALD P.M.+	77.10521	NNNN
Cl*	NGC 6204		MOFFAT A.F.J.+	73...417	NNNN
Cl*	NGC 6205		LUDENDORF H.	05.30001	NNNN
Cl*	CL* NGC 6205 BARN		BARNARD E.E.	31.35001	NNNN
Cl*	NGC 6208		LINDOFF U.	72..1510	NNNN
Cl*	NGC 6218		RACINE R.	71..2003	NNNN
Cl*	NGC 6231		SEGGEWISS W.	68.30004	NNNN
	NGC 6242	*See CL* NGC 6242*			
Cl*	NGC 6242		MOFFAT A.F.J.+	73...417	NNNN
Cl*	CL* NGC 6242 SEG		SEGGEWISS W.	67.30015	NNNN
Cl*	NGC 6249		MOFFAT A.F.J.+	73...417	NNNN
Cl*	NGC 6250		MOFFAT A.F.J.+	75..1502	NNNN
Cl*	NGC 6259		HAWARDEN F.G.	74..2501	NNNN
Cl*	NGC 6268		SEGGEWISS W.	67.30015	NNNN
Cl*	NGC 6281		FEINSTEIN A.+	74...575	NNNN
Cl*	NGC 6304		HESSER J.E.+	76...381	NNNN
Cl*	NGC 6322		LOHMAN W.+	62.11251	NNNN
Cl*	NGC 6341		SANDAGE A.R.+	66...257	NNNN
Cl*	NGC 6352		HARTWICK F.D.A.+	72.30004	NNNN
	NGC 6352	*See CL* NGC 6352*			
Cl*	CL* NGC 6352 ALC		ALCAINO G. (NO+1000)	71..1002	NNNN
Cl*	NGC 6362		ALCAINO G.	70...477	NNNN
Cl*	NGC 6383		EVANS T.L.	78..2589	NNNN
	NGC 6383	*See CL* NGC 6383*			
Cl*	CL* NGC 6383 THE		THE P.S.	65.30009	NNNN
Cl*	NGC 6396		MOFFAT A.F.J.+	75..1502	NNNN
	NGC 6397	*See CL* NGC 6397*			

Objects	Abreviation	Explanation or *alias*	Author(s)	Reference	Format
Cl*	NGC 6397		WOOLLEY R.+	61.14761	NNNN
Cl*	CL* NGC 6397 AL		ALCAINO G.+	80..2107	NNNN
Cl*	CL* NGC 6397 BJAT		ANTHONY-TWAROG B.J.	87..2118	NNNN
Cl*	NGC 6405		ROHLFS K.+	59.30002	NNNN
Cl*	NGC 6416		THE P.S.+	70...119	NNNN
Cl*	NGC 6425		THE P.S.+	70...119	NNNN
Cl*	NGC 6441		HESSER J.E.+	76.....1	NNNN
Cl*	NGC 6475		KOELBLOED D.	59.30001	NNNN
Cl*	NGC 6494		HOAG A.A.+	61.30005	NNNN
Cl*	NGC 6514		OGURA K.+	75...771	NNNN
Cl*	NGC 6520		BECKER W.+	76.30010	NNNN
Cl*	NGC 6530		KILAMBI G.C.	77..2625	NNNN
	NGC 6530	*See CL* NGC 6530*			
Cl*	CL* NGC 6530 WALK		WALKER M.F.	57....32	NNNN
Cl*	NGC 6531		HOAG A.A.+	61.30005	NNNN
Cl*	NGC 6541		ALCAINO G.	71..1004	NNNN
Cl*	NGC 6546		GRAYZECK E.J.+	78..3104	NNNN
Cl*	NGC 6604		MOFFAT A.F.J.+	75..1502	NNNN
Cl*	NGC 6611		WALKER M.F.	61...300	NNNN
Cl*	NGC 6613		LINDOFF U.	71..1003	NNNN
Cl*	NGC 6618		OGURA K.+	76.13262	NNNN
Cl*	NGC 6626		ALCAINO G.	81..1903	NNNN
Cl*	NGC 6633		KOPFF E.	43.11251	NNNN
Cl*	NGC 6637		HARTWICK F.D.A.+	68...328	NNNN
Cl*	NGC 6649		MADORE B.F.+	75....55	NNNN
Cl*	NGC 6656		ARP H.C.+	59..2004	NNNN
Cl*	NGC 6664		ARP H.C.	58...173	NNNN
Cl*	NGC 6694		CUFFEY J.	40.....1	NNNN
Cl*	NGC 6704		FORBES D.+	78..2089	NNNN
Cl*	NGC 6705		MCNAMARA B.J.+	77..1561	NNNN
	NGC 6709	*See CL* NGC 6709*			
Cl*	NGC 6709		HOAG A.A.+	61.30005	NNNN
Cl*	CL* NGC 6709 HSS		HAKKILA J.+	83..1536	NNNN
Cl*	NGC 6716		LINDOFF U.	71..1003	NNNN
	NGC 6723	*See CL* NGC 6723*			
Cl*	NGC 6723		MENZIES J.	74..2502	NNNN
Cl*	CL* NGC 6723 MEN		MENZIES J.	84..2502	NNNN
	NGC 6752	*See CL* NGC 6752*			
Cl*	NGC 6752		ALCAINO G.	70...477	NNNN
Cl*	CL* NGC 6752 BUON		BUONANNO R.+	86..1578	NNNN
Cl*	CL* NGC 6752 CS		CANNON R.D.+	73..2502	NNNN
Cl*	CL* NGC 6752 GA		ALCAINO G.	72..1016	NNNN

Objects	Abreviation	Explanation or *alias*	Author(s)	Reference	Format
Cl*	NGC 6755		HOAG A.A.+	61.30005	NNNN
Cl*	NGC 6791		KINMAN T.D.	65...250	NNNN
Cl*	NGC 6802		HOAG A.A.+	61.30005	NNNN
Cl*	NGC 6809		LEE S.W.	77..1591	NNNN
Cl*	NGC 6811		LINDOFF U.	72..1001	NNNN
Cl*	NGC 6819		AUNER G.	74..1505	NNNN
Cl*	NGC 6823		BARKHATOVA K.A.	57...234	NNNN
Cl*	NGC 6830		BARKHATOVA K.A.	57...234	NNNN
Cl*	NGC 6834		FUNFSCHILLING H.	67.30007	NNNN
Cl*	NGC 6838		ARP H.C.+	71...455	NNNN
Cl*	NGC 6866		HOAG A.A.+	61.30005	NNNN
Cl*	NGC 6871		HOAG A.A.+	61.30005	NNNN
Cl*	NGC 6882		HOAG A.A.+	61.30005	NNNN
Cl*	NGC 6883		PURGATHOFER A.	64.30003	NNNN
Cl*	NGC 6981		DICKENS R.J.	72...445	NNNN
Cl*	NGC 6910		BECKER W.+	48.11251	NNNN
	NGC 6910	*See CL* NGC 6910*			
Cl*	CL* NGC 6910 TIF		TIFFT W.G.	58....48	NNNN
Cl*	NGC 6913		TIFFT W.G.	58....48	NNNN
Cl*	NGC 6939		KUSTNER F.	23.30001	NNNN
Cl*	NGC 6940		VASILEVSKIS S.+	57..2001	NNNN
Cl*	NGC 7006		SANDAGE A.+	67...116	NNNN
Cl*	NGC 7031		HOAG A.A.+	61.30005	NNNN
Cl*	NGC 7039		HASSAN S.M.	73..1508	NNNN
Cl*	NGC 7062		JONES B.F.+	70..1001	NNNN
Cl*	NGC 7063		HOAG A.A.+	61.30005	NNNN
Cl*	NGC 7067		BECKER W.	65.12251	NNNN
Cl*	CL* NGC 7078 AC		AURIERE M.+	81..1579	NNNN
Cl*	NGC 7082		HASSAN S.M.	73..1508	NNNN
Cl*	NGC 7086		HASSAN S.M.	67.30008	NNNN
Cl*	NGC 7089		ARP H.C.	55..2002	NNNN
Cl*	NGC 7092		MAVERS F.W.	40.30002	NNNN
Cl*	NGC 7099		DICKENS R.J.	72..2501	NNNN
Cl*	NGC 7128		HOAG A.A.+	61.30005	NNNN
Cl*	NGC 7142		VAN DEN BERGH S.	70..1002	NNNN
Cl*	NGC 7160		HOAG A.A.+	61.30005	NNNN
Cl*	NGC 7209		MAVERS F.W.	40.30002	NNNN
Cl*	NGC 7235		BECKER W.	65.12252	NNNN
Cl*	NGC 7243		LENGAUER G.G.	37.30003	NNNN
Cl*	NGC 7261		FENKART R.P.	68.12251	NNNN
Cl*	NGC 7380		HOAG A.A.+	61.30005	NNNN
Cl*	NGC 7419		HANDSCHEL G.	72.30005	NNNN
Cl*	NGC 7510		HOAG A.A.+	61.30005	NNNN
Cl*	NGC 7654		LUNDBY A.	46.30002	NNNN
Cl*	NGC 7686		HOAG A.A.+	61.30005	NNNN
Cl*	NGC 7762		CHINCARINI G.	66.12251	NNNN
Cl*	NGC 7788		BECKER W.	65.12253	NNNN
Cl*	NGC 7789		KUESTNER F.	23.30001	NNNN

Objects	Abreviation	Explanation or *alias*	Author(s)	Reference	Format
Cl*	CL* NGC 7789 M		TWAROG B.A.+	85..2113	NNNN
Cl*	NGC 7790		SANDAGE A.R.	58...171	NNNN
Cl*	NGC 7822		BLANCO V.	59....76	NNNN
	NIKC	*See NikC*			
C*	NikC	Author's name C	NIKOLASHVILI M.G.+	87.11760+	F-NN
IR	NML•	Authors' initials	NEUGEBAUER G.+	65...189	CCC
	NOV	*See NOVA*			
Nova	NOVA				CCC YYYYa
	NP	*See PULS*			
rad	NRAO	National Radio Astron. Obs	ROSS H.N.+	66...501+	NNNN HHMM+DD HHMM+DDA
	NS	*See SK*			
	Ns	*See PN Ns*			
V*	NSV	New Suspected Stars	KUKARKIN B.V.+	81.60013	NNNNN
T Tau	NTTS	Naked T Tau Stars	WALTER F.M.+	88..2179	HHMMSS+DDMMAA
	OB	*See OHIO B*			
	OC	*See OHIO C*			
	OCl	*See OCL*			
Cl	OCL	Open Clusters	ALTER G.+	70.30004+	NNNN.N
	OD	*See OHIO D*			
	OE	*See OHIO E*			
	OF	*See OHIO F*			
	OG	*See OHIO G*			
	OH	*See OHIO H*			
MCld	OH	Systematic designation			LLL.l+BB.b LLL.ll+BB.bb HHMM+DD
rad	OHIO	Ohio Survey	RINSLAND C.P.+	67..2008+	A DNN A -DNN A DNN.n A -DNN.n
	OI	*See OHIO I*			
	OJ	*See OHIO J*			
	OK	*See OHIO K*			
	OL	*See OHIO L*			
	OM	*See OHIO M*			
HV*	OM•	Observatoire de Marseille	CAROZZI N.	71..1501+	NNN
	OME CEN	*See NGC 5139*			
	OMI VEL	*See IC 2391*			
	ON	*See OHIO N*			
	OP	*See OHIO P*			
	OQ	*See OHIO Q*			
	OR	*See OHIO R*			
	ORI NEB	*See NGC 1977*			
	OS	*See OHIO S*			
	OSO	*See 1M*			
	OT	*See OHIO T*			

Objects	Abreviation	Explanation or *alias*	Author(s)	Reference	Format
rad	OTL	Ooty Lunar Occultation	SWARUP G.+	71.12001+	HHMM+DD HHMM+DDd
	OU	*See OHIO U*			
	OV	*See OHIO V*			
	OV	*See SV* OV*			
	OW	*See OHIO W*			
	OX	*See OHIO X*			
	OY	*See OHIO Y*			
	OZ	*See OHIO Z*			
	P	*See PSR*			
	P	*See SV* P*			
	P	*See CL* NGC 2264 KOCH*			
	P	*See CL* NGC 1977 P*			
	P	*See PKS*			
?	p	Provisional designations			AAAAAAAAAAA
	PAL	*See CL PAL*			
	PALOMAR	*See CL PAL*			
	PB	*See PN PB*			
*	PB	Palomar-Berger	BERGER J.+	77..1559+	NNNN
	PC	*See PN PC*			
Em Obj	PC	Palomar Confirmed	SCHMIDT M.	86...437+	HHMM+DDMM HHMM+DDMM A
	Pe	*See PN Pe*			
	Penna	*See CL* NGC 2264 KOCH*			
QSO	PG	Palomar-Green	GREEN R.F.+	76..3067+	HHMM+DD HHMM+DDd
Blue*	PHL•	Palomar-Haro-Luyten	HARO G.+	62.25501+	NNNN
	Pis	*See CL PISMIS*			
	Pismis	*See CL PISMIS*			
PN	PK•	Authors' initials	PEREK L.+	67.30013+	LLL+DD NN
rad	PKS	Parkes	EKERS J.A.+	69.25251+	HHMM+DD HHMM+DDd
	PLEIADES	*See CL MEL 22*			
*	PLX•	Parallaxes	JENKINS L.F.	52.32141+	NNNN NNNN.n
PM*	PM	Proper Motion stars			HHMMm+DDMM
SMC*	PMMR	Authors' initals	PREVOT L.+	83..1590+	NNN
PN	PN A66•	Properties of some old PN	ABELL G.O.	66..9017	NN
PN	PN A55•		ABELL G.O.	55..3002	NN
PN	PN Al•		ALLEN D.A.	73..9033+	N N-A
PN	PN Ap•		APRIAMASWILI S.P.	62..4501+	N-NN
PN	PN ARO•		HIGGS L.A.	71..9100	NNN
PN	PN Ba•		BAADE W.	35..3001	N
PN	PN Bl•		BLANCO V.M.	61.30006+	A N-NN
PN	PN BlDz•		BLAAUW A.+	75...826	N
PN	PN BoBn•		BOESHAAR G.O.+	77...257	N

Objects	Abreviation	Explanation or *alias*	Author(s)	Reference	Format
PN	PN BV•		BOHM-VITENSE E.	56..3004	N-N
PN	PN Cn•		CANNON A.J.	21.30002+	N-NN
PN	PN CnMy•		CANNON A.J.+	38.30004	NN
PN	PN Dd•		DOLIDZE M.W.	71.10251	N
PN	PN DdDm•		DOLIDZE M.W.+	66..9001	N
PN	PN DeHt•		DENGEL J.+	80..1011	N
PN	PN Em•		MCCUSKEY S.W.	61..3002	N
PN	PN Fg•		FLEMING M.	10.30001+	N
PN	PN GEA•		GEORGELIN Y.P.+	70...138+	N-NN
PN	PN H•		HARO G.+	51..3001+	N-NN
PN	PN Hb•		HUBBLE E.P.	21..3001	NN
PN	PN Hf•		HOFFLEIT D.	53.20803	NN N-N
PN	PN HFG•		HECKATHORN J.N.+	82..1158	N
PN	PN Hu•		HUMASON M.L.	21..3002+	N-N
PN	PN Jn•		MILLER F.D.+	49....20	N
PN	PN K 1-•		KOHOUTEK L.	62.13001+	NN
PN	PN K 2-•		KOHOUTEK L.	63.13001+	NN
PN	PN K 3-•		KOHOUTEK L.	69...260+	NN
PN	PN K 4-•		KOHOUTEK L.	69...260+	NN
PN	PN Kj•		KAZARIAN M.A.	76.30006+	N-N
PN	PN KjPn•		KAZARIAN M.A.+	71..9082	N
PN	PN KO•		KAZARIAN M.A.+	73..9099	N
PN	PN Kr•		KRASKONORSKAIA A.A.	62.10253	N-N
PN	PN Lo•		LONGMOORE A.J.	77..2615	NN
PN	PN LoTr•		LONGMOORE A.J.+	80..2605	NN
PN	PN M 1-•		MINKOWSKI R.	46..3003	NN
PN	PN M 2-•		MINKOWSKI R.	47..3002	NN
PN	PN M 3-•		MINKOWSKI R.	48..3005	NN
PN	PN M 4-•		MINKOWSKI R.	67.30013	NN
PN	PN MaC 1-•		MCCONNELL D.J.	78..1561	NN
PN	PN MaC 2-•		MCCONNELL D.J.	82..1530	N
PN	PN Me•		MERRILL P.W.	41..3002+	N-N
PN	PN My•		MAYALL M.W.	51..3002	NNN
PN	PN MyCn•		MAYALL M.W.+	40.30003	NN
PN	PN Mz•		MENZEL D.N.	22.30001	NN
PN	PN Na•		NASSAU J.J.+	64....52	N
PN	PN Ns•		NORDSTROEM B.	75...211	NNN
PN	PN PB•		PEIMBERT M.+	60.25501	NN
PN	PN PC•		PEIMBERT M.+	61.25501	NN
PN	PN Pe•		PEREK L.	62...185+	N-NN
PN	PN Ps•		PEASE F.G.	28..3001	N
PN	PN Pu•		PURGATHOFER A.	78..1082+	N
PN	PN PuWe•		PURGATHOFER A.+	80..1019	N
PN	PN Sa 1-•		SANDULEAK N.	74...313	NNN
PN	PN Sa 2-•		SANDULEAK N.	75..9016	NNN
PN	PN Sa 3-•		SANDULEAK N.	76.26001	NNN
PN	PN SaSt•		SANDULEAK N.+	72..9042+	N-NN
PN	PN Sd•		SHERWOOD W.A.	69..9070	N
PN	PN Sp•		SHAPLEY H.	36.30001	N

Objects	Abreviation	Explanation or *alias*	Author(s)	Reference	Format
PN	PN St•		STEPHENSON C.B.	78..3006	3-N
PN	PN Ste•		STENHOLM B.	75..9007	N-N
PN	PN StWr•		STOCK J.+	72.30006	N-NN
PN	PN SuWt•		SCHUSTER H.E.+	76..9003+	N
PN	PN SwSt•		SWINGS P.+	40.30004	N
PN	PN Tc•		THACKERAY A.D.	50...168	N
PN	PN Th 1-•		THE P.S.	62.30005	A
PN	PN Th 2-•		THE P.S.	62.30006	A
PN	PN Th 3-•		THE P.S.	64.30009	NN
PN	PN Th 4-•		THE P.S.	64.30010	NN
PN	PN TrBr•		TERZAN A.+	78..5001	N
PN	PN VBe•		VAN DEN BERGH S.	78...515+	N
PN	PN VBRC•		VAN DEN BERGH S.+	73..9025	N
PN	PN Vd•		VANDERVORT G.L.	64.30011	N-NN
PN	PN V-V•		VORONTSOV-VEL YAMINOV B.A.	61...177+	N-N
PN	PN VV•		VORONTSOV-VEL YAMINOV B.A.	34..4501	NNN
PN	PN VV'•		VORONTSOV-VEL YAMINOV B.A.	62.30007	NNN
PN	PN Vy•		VYSSOTSKY A.N.	42..3002	N-N
PN	PN We 1-•		WEINBERGER R.	77..1547	NN
PN	PN We 2-•		WEINBERGER R.	77..1548	NNN
PN	PN We 3-•		WEINBERGER R.	78.10519	N
	PN WeSa	*See PN WeSb*			
PN	PN WeSb•		WEINBERGER R.+	81..1143	N
PN	PN Y-C•		CESCO C.U.+	73..9018	2-NN
PN	PN YM•		JOHNSON H.M.	55....31+	NN
Flare*	POUB		POULAKOS C.	77.14006	N
Flare*	POUL•	Author's abbreviation	POULAKOS C.	77..1512	N
Red*	POVR		POULAKOS C	78..1521	NN
Em. obj	POX	Prism Objective X	KUNTH D.+	81..1580	NNN
	PP PRAESEPE Ps	*See PULS* *See NGC 2632* *See PN Ps*			
*	PS	Authors' initials	PHILIP A.G.D.+	68.25501+	N-NNN
	PSD	*See BSD*			
Psr	PSR•	Pulsar	TERZIAN Y.+	76..4047+	HHMM+DD HHMM HHMM+DDd
	Pu	*See PN Pu*			
Psr	PULS	Old designations		76..4047	AA HHMM AA HHMM+DD
	PuWe Q	*See PN PuWe* *See QSO*			
QSO	QSO•	Quasi-Stellar Objects	HEWITT A.+	80...520+	HHMM+DDd HHMM+DDdA HHMM+DDMM HHMM+DDMMA HHMM.m+DDMMa
	R R	*See RCW* *See ROSS*			

Objects	Abreviation	Explanation or *alias*	Author(s)	Reference	Format
	R R	*See RMC* *See SV* R*			
M*	RBTS	Author's initials	ROBERTSON T.H.	84..2116	NNN
HII	RCW	Authors' initials	RODGERS A.W.+	60..2503	NNN
Group G	RGCG	Authors' initials	RAMELA M.+	89..9119	NNN
	RJHA	*See EM* RJHA*			
Blue*	RL•	Authors' initials	RUBIN V.C.+	71..2002	NNN
LMC*	RM 1-	M* in LMC (Table 2)	REBEIROT E.+	83..1520+	NNN
LMC*	RM 2-	* in LMC (Table 3)	REBEIROT E.+	83..1520+	NNN
LMC*	RM 3-	Late *	ROBIN A.+	87..1540	NNNN
MC*	RMC•	Radcliffe Magellanic Clouds	FEAST M.W.+	60..2502	NNN NNNa
rad	RN	Authors' initals	RYLE M.+	62..2531	NN
	Roberts Ros Roslund ROSS	*See MR* *See CL Roslund* *See CL Roslund* *See SV* R*			
PM*	ROSS		ROSS F.E.	25..2001+	NNNN NNNNa
*	ROT•	Rotationnal velocity	BERNACCA P.L.+	70.32251+	NNNNN
X	ROX	Rho Oph X-ray	MONTMERLE T.+	83...328	NN
	Ru RUBI Rup Ruprecht RWT	*See CL RUPRECHT* *See RL* *See CL RUPRECHT* *See CL RUPRECHT* *See RL*			
X	2S	SAS-3	BRADT H.V.+	77.11027	HHMM+DDd
	S S S S S S* S*	*See SH 2-* *See SIM* *See SV* SON* *See SAND* *See SK* *See S1** *See CSS*			
S*	S1*	(1st ed.)	STEPHENSON C.B.	76.30003	NNN
*	SA	Selected Areas	PICKERING E.C.+	18.30002+	FFF-NNNN
	Sa SABI	*See PN Sa* *See ASS PER OB 1*			
M*	SAND•	Author's abbreviation	SANDULEAK N.	76..2018	NNN
*	SAO•	Smithsonian Astrophysical Observatory		66.32011	NNNNNN
	SaSt SB	*See PN SaSt* *See SKB*			
* in SGP	SB	Authors' intials	SLETTEBAK A.+	71...154	NNN
SB	SBC•	Spectroscopic Binaries	BATTEN A.H.	78.12752	NNN
Blue*	SBS•	Authors' initials	SLETTEBAK A.+	61....31	NNN

Objects	Abreviation	Explanation or *alias*	Author(s)	Reference	Format
G	SBSG	Second Byurakan Survey - Galaxies	MARKARIAN B.E.+	83..6503+	HHMM+DDdA
*	SBSS	Second Byurakan Survey: Stars	MARKARIAN B.E.+	83..6542+	HHMM+DDdA
ClG	SC	Southern Clusters	LUGGER P.M.	78...101	HHMM+DDd
	Sd	*See PN Sd*			
G	SER	Author's name	SERSIC J.L.	74..4001	FFF-NN
	SERSIC SG	*See SER* *See SIM*			
HII	SH 1-	Author's abbreviation	SHARPLESS S.	53...156	NNN
HII	SH 2-	Author's abbreviation	SHARPLESS S.	59...199	NNN
	SHA SHB Sher SHZ	*See SH 1-* *See SH 2-* *See CL SHER* *See SIM*			
rad	SIM	Simeis Obs.	SHAJN G.A.+	50.15252+	NNN HHMM+DDN
MC*	SK•	Author's abbreviation	SANDULEAK N.	68..2002+	NNN -DD NNN -DD NNNa
C*	SKB	Authors' initials	SLETTEBAK A.+	69...138	N
	SKKM	*See SkKM*			
SMC*	SkKM	Author's abbreviation K+M*	SANDULEAK N.	89..2191	NNN
*	SKY#	SKYMAP (revised version, in preparation)			NNNNN
SN	SN	Supernovae			YYYYA YYYYaa
SNR	SNR	SuperNovae Remnants(Syst.Design.)		83...511+	LLL.l+BB.b HHMM+DD.d
	SON	*See SV* SON*			
*	SOPS	Southern Objective Prism Survey	STOCK J.+	72.30006	RR a-NNN
	Sp SPZ SR SRN SRNH	*See PN Sp* *See SV* SVS* *See EM* SR* *See VDB* *See VDBH*			
*	SRS	Southern Reference Stars	HOG E.+	76.30015	NNNNN
	SS	*See SS73*			
em*	SS•	Authors' initials	STEPHENSON C.B.+	77...504	NNN
em*	SS73	Authors' initials	SANDULEAK N.+	73..9055	NNN
IR	SSV•	Authors' initials	STROM K.M.+	76..2012	NN
	St Ste Stephenson Stephenson	*See PN St* *See PN Ste* *See CL STEPHENSON* *See S**			

Objects	Abreviation	Explanation or *alias*	Author(s)	Reference	Format
	STHA	*See EM* STHA*			
	STO	*See SOPS*			
	Stock	*See CL STOCK*			
IR	STVS•	Authors' initials	STROM S.E.+	76..2013	NN
	StWr	*See PN StWr*			
	SUPERNOVA	*See SN*			
	SuWt	*See PN SuWt*			
V*	SV* BV•	Bamberg Variables			NNNN
V*	SV* GR•	Romano Variables			NNN
V*	SV* HBV•	Hamburg-Bergedorf Variables			NNNN
V*	SV* HV•	Harvard Variables			NNNNN
V*	SV* INN•	Innes Variables			NNNN
V*	SV* M•	Author's initial	MAFFEI P.	75.14501	NNN
V*	SV* OV•	Oklahoma Variables			NNNN
V*	SV* P•	Prager Variables			NNNN
V*	SV* R•	Ross Variables			NNNN
V*	SV* SON•	Sonneberg Variables			NNNNN
V*	SV* SVS	Soviet Variable Stars			NNNN
V*	SV* VB•	Bologne Variables			NNNN
V*	SV* VV•	Vatican Variables			NNN
V*	SV* WR•	Weber Variables			NNNN
V*	SV* ZI•	Zinner Variables			NNNN
	SVS	*See SV* SVS*			
	SwSt	*See PN SwSt*			
ClG	SWCG	Shane-Wirtanen Cl. of Gal.	SHECTMAN S.A.+	85...503	NNN
em*	SZ•	Author's abbreviation	SCWARTZ R.D.	77...514	NNN
	T	*See TON*			
	T	*See CL TR*			
T Tau	TAP	Tau-Aur-Per	FEIGELSON E.D.+	87..2235	NN
	Tc	*See PN Tc*			
UV	TD1	Satellite name	THOMPSON G.I.+	78.30064	NNNNN
	TERZ	*See Terz*			
Neb+V*	Terz	Author's abbreviation	TERZAN A.+	80.23001+	A NNNN
	TET CAR	*See IC 2602*			
	Th	*See PN Th*			
	TOL	*See Tol*			
G	Tol	Tololo Obs.	SMITH M.G.+	76...525	NNN
Blue*	TON	Tonantzintla	CHAVIRA E.+	57.25501+	NNNN
Blue*	TON S	Tonantzinlta South gal. pole	CHAVIRA E.	58.25501	NNN
	Tr	*See CL TR*			
	TrBr	*See PN TrBr*			
	Trumpler	*See CL TR*			
	TS	*See TON S*			
X	2U	UHURU	GIACONNI R.+	72.25001	HHMM+DD

Objects	Abreviation	Explanation or *alias*	Author(s)	Reference	Format
X	3U	UHURU	GIACONNI R.+	74.25001	HHMM+DD
X	4U•	UHURU	FORMAN W.+	78...520	HHMM+DD
	U	*See UGC*			
*	UBV•	UBV compilation	BLANCO V.M.	68.30011	NNNNN
G	UGC•	Uppsala General Catalogue	NILSON P.	73.20401	NNNNN NNNNNA
G	UGCA•	Non-UGC Galaxies	NILSON P.	74.20401	NNN
	UGCG UHA	*See UGC* *See EM* UHA*			
?	UKS	United Kingdom Schmidt			HHMM+DDd
em obj.	UM	Univ. of Michigan	MC ALPINE G.G.+	77...521+	NNN
	Upgren	*See CL UPGREN*			
Blue*	US	Author's name	USHER P.D.	81...501+	NNNN
	USN USNO	*See UBV* *See IDS*			
*	USNO•	US Naval Obs. parallaxes	HARRINGTON R.S.	80..2017	NNNN
	V V V Zw	*See MCC* *See V** *See ZW V*			
V*	V*	Variable stars	KUKARKIN B.V.+	69.21501+	AA CCC VNNNN CCC Gnn CCC Ann CCC ann CCC
	VA Van den Bergh VB VB	*See CL* MEL 25 VA* *See CL VDB* *See CL MEL 25* *See SV* VB*			
*	VB	Low-luminosity stars	VAN BRIESBROECK G.+	61..2021	NNNA
	VBe	*See PN VBe*			
G	VCC	Virgo Cluster Catalogue	BINGGELI B.+	85..2149	NNNN
	Vd VDB	*See PN Vd* *See CL VDB*			
* in RfN	VDB	Author's initials	VAN DEN BERGH S.	66....36+	NNNa
G	VDBG•	Van Den Bergh Galaxies	VAN DEN BERGH S.+	89..2116	NNN
RfN	VDBH•	Authors' initials	VAN DEN BERGH S.+	75...223	NNNa
	VBH VES	*See VDBH* *See EM* VES*			
em*	VE	Author's abbreviation	VELGHE A.G.	57....66	N-NN
	VI CYG VI Zw VII Zw VIII Zw VRO	*See ASS CYG OB 2* *See ZW VI* *See ZW VII* *See ZW VIII* *See VR*			

Objects	Abreviation	Explanation or *alias*	Author(s)	Reference	Format
rad	VR	Vermilion River Obs.	McLEOD J.M.+	65..2100+	DD.HH.NN
	VRMF	*See EM* VRMF*			
IR	VSS	Authors' initials	VRBA F.J.+	76..2043+	RRR-NNN
IR	VSS II-	Table II (rho Oph)	VRBA F.J.+	76..2043	NNN
IR	VSS VI-	Table VI (Lynds 1630)	VRBA F.J.+	76..2043	NN
IR	VSS VIII-	Table VIII (R CrA)	VRBA F.J.+	76..2043+	NN
IR	VSS IX-	Table IX (Lynds 1450)	VRBA F.J.+	76..2043	NN
IR	VSS XI-	Table XI (Lynds 1551)	VRBA F.J.+	76..2043	NN
IR	VSSG	Authors' initials	VRBA F.J.+	75..9151	NN
IR	VSST	Authors' initials	VRBA F.J.+	76..2014	NNN
PM*	VVO•	Van Vleck Obs.	GROSSENBACHER R.+	68...269+	NNN
	VV VV V-V VV' VYS VYSM W W W W W	*See PN VV* *See SV* VV* *See PN V-V* *See PN VV'* *See MCC* *See MCC* *See GJ* *See Weis* *See WSTB* *See GCRV* *See WOLF*			
rad	W	Author's initial	WESTERHOUT G.	58.30004	NN NNA NN (OH)
	WALK	*See NGC 2264*			
*	WAMS•	Author's name	WAMSTEKER W.	81..1511	NNN
	Wat WAS	*See CL WATERLOO* *See Was*			
Em. G	Was	Author's abbreviation	WASILEWSKI A.J.	83..9032+	NN
WD	WD	White Dwarfs	COOK G.P.+	77.30007	HHMM+DDA HHMM+DDdA
	WEIS	*See Weis*			
*	Weis	Weistrop	YOSS K.M.+	87..2260	NNNNN
	Westerlund	*See CL WESTERLUND*			
WD	WG•	Author's initials	WEGNER G.	73...633+	NN
	WIL	*See GCRV*			
rad	WK	Authors' initals	WINDRAM M.D.+	69..2510	NNN
rad	WKB	Authors' initials	WILLIAMS P.J.S.+	66.16002	HHMM+DDd
PM*	WOLF	Author's name	WOLF M.	19.30001+	NNNN NNNNa
	WOOLLEY	*See GJ*			
V*	WOOV		WOOLEY R.D.V.R.+	62.14752	NNN
C*	WORC•	Authors' initials	WESTERLUND B.E.+	78..1501	NNN
S*	WOS•		WESTERLUND B.E.+	78..1522	NNN
Red*	WP•	Authors' initials	WEINBERGER R.+	77..1507	NN
	WR	*See WRAY*			

Objects	Abreviation	Explanation or *alias*	Author(s)	Reference	Format
	WR	*See SV* WR*			
WR*	WR•	Wolf-Rayet stars	VAN DER HUCHT K.A.+	81.27751	NNNa
WR*	WR33	WR stars in M33	WRAY J.D.+	72..9062	NN
OB*	WRAM	Author's abbreviation	WRAMDEMARK S.	81..1509	NN
em*	WRAY 15-	Table 15	WRAY J.D.	66.30012	NNNN
PN	WRAY 16-	Table 16	WRAY J.D.	66.30012	NNN
PN?	WRAY 17-	Table 17	WRAY J.D.	66.30012	NNN
C*	WRAY 18-	Table 18	WRAY J.D.	66.30012	NNN
em Obj	WRAY 19-	Table 19	WRAY J.D.	66.30012	NN
WR*	WS	compiled in WR	WESTERLUND B.E.+	81.27751	NNN
SuperCl of G	WSCG	West SuperClusters of Galaxies	WEST M.J.	89..9418	NN
rad	WSTB	Westerbrock	BYSTEDT J.E.V.+	84..1243+	NNWNNN
PM*	WT•	Authors' initials	WROBLEWSKI H.+	89..1539	NNN
X	X	X-ray sources			CCC X-N
	XRS	*See 1XRS*			
X	1XRS	SAS-3	AMNUEL P.R.+	79...527	HHMM+DDd
X	XB	X-ray burster			HHMM+DDd
	Yale YP	*See PLX* *See PLX*			
*	YZ•	Yale Zones catalogues	SCHLESINGER F.+	34.30001+	vv NNNNN
G	Z•		ZWICKY F.+	60.30008+	FFF-NNN FFF-NNN/N HHMM.m+DDMM
	ZC ZET SCL ZI	*See ZwCl* *See CL BLANCO 1* *See SV* ZI*			
G	ZW	Author's abbreviation	ZWICKY F.+	71.30006+	RR NNNa
	ZWCL	*See ZwCl*			
ClG	ZwCl	Zwicky Clusters	ZWICKY F.+	60.30008+	HHMM+DDMM FFF-NN