The Second Reference Dictionary of the Nomenclature of Celestial Objects (Solar System excluded)

Volume I

Marie-Claire Lortet — lortet@mesioa.obspm.fr
DAEC, Observatoire de Meudon,
F–92195 Meudon, France

Suzanne Borde — borde@iap.fr
DASGAL, Observatoire de Paris,
F–75014 Paris, France

François Ochsenbein — francois@simbad.u-strasbg.fr
CDS, Observatoire de Strasbourg,
11, rue de l'Univserité,
F–67000 Strasbourg, France

This is a self-contained, revised and updated version of the *First Dictionary* and its Supplements, except for the Parts devoted to Individual Names and the Nomenclature based on Constellation Names which are not developed here.

How to use this Dictionary

The present work has been described by the authors in A&AS 1994 (in press). The present printed version is subdivided into two volumes: the *Table of Acronyms* in landscape format constitutes Vol. I; the introduction, and chapters 2 to 6 constitute Vol. II.
Most astronomical objects are named by an entry in some catalogue. These names generally consist of a word or *acronym* and a *numbering* which structure is called the *format*. To identify any object which is so named, the reader is referred to the main dictionary in Chapter 1 (Vol. I): Col.1 lists the *acronym*, Col.3 the *format*; Col.7 and 8 provide a key to the original references for each catalogue, as listed in Chapter 3. Papers are listed chronologically by year and alphabetically by first author's first letter within each year. For any catalogue which was published as a series of papers, the first paper with catalogue entries appears in its apropriate chronological place in the table and all subsequent papers in the series follow immediately after the first. Thus all papers of a given catalogue appear together and the reader can refer to them for specific information on a given source.
The computerized Dictionary allows several facilities which are described at the end of the Introduction and in Chapter 5. Auxiliary tables and Annexes are collected in Chapter 6.
The nomenclature based on constellation names (*e.g.* Cas A, Mon OB2, etc...) and individual names as opposed to catalogue names are not described here; we refer the reader to Parts V and VI of the previous version (First Dictionary, Fernandez et al., 1983; Lortet & Spite, 1986) and to a few other general references (Table 6.8 of the present edition). The 3-letter abbreviations recommended for constellation names are given in Table 6.9.

The following Table compares the present edition of the *Second Reference Dictionary of the Nomenclature of Celestial Objects* with its description in A&AS 1994 (in press):

	Second Reference Dictionary		A&AS paper	On-line (*)
Chap. 1	Table of Acronyms	(Vol.I)	Fig. 4	`cati`
	Introduction	(Vol.II)		
Chap. 2	Table of Comprehensive Catalogues		Fig. 5	`compil`
Chap. 3	Coded references		Fig. 6	`ref`
Chap. 4	Author Index		Fig. 7	`cata`
Chap. 5	The On–line Dictionary		Sec. 4	
Chap. 6	Auxiliary Tables & Annexes:			
Table 6.1	Wavelengths, Abbreviations, Types of Objects		—	(`cato`)
Table 6.2	Inventory of the Formats		Table 2	(`catf`)
Table 6.3	Recommended Formats		—	
Table 6.4	Misleading Formats		Table 3	
Table 6.5	Abbreviations for journals, translitteration		—	(`journal`)
Table 6.6	Very short usual designations		Table 4	
Table 6.7	A sample of misleading designations		Table 5	
Table 6.8	Individual names and Nomenclature based on Constellations		Table 6	
Table 6.9	Abbreviations for Constellation names		—	
Table 6.10	Abbreviations for Greek letters		—	

(*) See Chapter 5 on how to get started with the On-line version of the Dictionary. The parentheses in the last column indicate that the on-line information is different in its aim or presentation: `cato` used alone gives a census of of the types of objects; `journal` gives the whole set of abbreviations used for journals in *SIMBAD*.

Please report any error, comment or omission to one of the authors:

Suzanne Borde borde@iap.fr
François Ochsenbein francois@simbad.u-strasbg.fr
Marie-Claire Lortet lortet@mesioa.obspm.fr

Chapter 1

Table of Acronyms

The items entered into the Dictionary of Acronyms are as follows:

- Col. 1: Acronyms, in alphabetical order; note that a new kind of acronyms made of one to three authors' initials and the year of publication *between brackets* (e.g. [BS92]) has been introduced in *NED* ([?]) and more recently in *SIMBAD* when no suitable acronym could be found; the brackets should not be dropped in such designations.

  The "alphabetical order" is to be understood as follows: arabic or roman numerals before an acronym or just behind it have the same function as a serial number. The roman numerals before an acronym occupy one to four places and would lead to an unsuitable ordering of the acronyms, e.g. *IV Zw* with the letter I, *VIII Zw* with the letter V. Thus we wrote 4Zw , 8Zw instead of IVZw , VIIIZw, and classified *e.g.* PS VI (roman numeral) before PSC (three letters). For the ordering,we ignored the brackets.The following examples illustrate how the years, blanks or lowercase letters were taken into account:

  1H
  H
  [H28]
  [H80]
  H88
  [H92]
  H1-
  H2-
  H 1-
  H 2-
  H2O
  HA
  Ha

- Col. 2: A comment on the usage of the acronym; it is
  - a blank for the main acronym;
  - *use* ... (a main acronym follows) e.g. *B use Brey* means that B is a bad acronym which should never be used because it would generate confusions
  - *eq.* ... (a main acronym follows) eq. stands for *equivalent to* e.g. *BREY eq. Brey* means that we have chosen *Brey* as the main acronym for full information, refer to this throughout the book
  - *Catalog* this is an abbreviation for a catalogue (not an acronym for a source), this catalogue has no systematic acronym.
  - *Catalog: use* ... (a main acronym follows) e.g. *SSSC Catalog: use IRAS* . This means that the sources studied in this catalogue have the acronym IRAS

- Col. 3: Format (see Tables 6.2, 6.3, 6.4 in Vol.II)
- Col. 4: Number of objects
  This is the number corresponding to the coded reference (col. 7 or 9). It is the total number if more than one reference is given in col.7 (or 9). This number may not take into account duplications.

  A + sign may separate the object counts when only one entry is given though it may correspond to different formats and/or types of objects, as for *BWI* (112 RR Lyr stars and 9 eclipsing binaries), or *SYHG* (139 stars and 23 variable stars).

  A / sign may separate the *actual* number of objects and the *highest* object number, as in *LMC AGB*.

  There is no entry in this column in case of surveys or systematic designations, overlapping lists etc...
- Col. 5: Type of object
- Col. 6: Acronym used in *SIMBAD*
- Col. 7: Coded reference, refers to Chap.3 in Vol.II (Table of references), where the adopted scheme for these codes is detailed. In case of an acronym defined in a series of papers, note that the year refers to the *first appearance of the acronym* rather than to the year of actual publication: for instance, 1954H1 S which is the 18th reference, issued in 1984.

  As a rule no coded reference has been affected to most acronyms collected in compilations (e.g. PK Nomenclature), to most of the acronyms between brackets, or to acronyms qualified as *obsolete* in Col.11.
- Col. 8: First author
- Col. 9: 19 digits reference code in *SIMBAD* ; the last digit is the first author's initial, not a numeral! The abbreviations used for Journals in this code are given in Tables 6.5 in Vol.II .
- Col.10: Meaning of the acronym: acronyms are based on different ideas, namely: author's initials or names (rarely first name); instrument or observatory; geographical place on the earth; localization in the sky; type of object; year of observations (87GB) or of publication; several uninformative words such as catalogues, of, etc.; numeral (roman or arabic) corresponding to a table, the rank of a survey etc. (ex. 6C).
- Col.11: Short note , or reference to a remark or to synonymous acronyms given in the lower part of the page.

  The notes are usually : a qualifier for the acronym (discovery list, obsolete, systematic); a reference to a systematic nomenclature described in a Comprehensive Catalogue (PN Nomenclature refers to 1967PK and 1992AO); an explicit name when there is only one to three objects ; also the year of publication and the information about the availability of identification charts, for acronyms without coded reference; the relevant table number(s) of the papers quoted in Col.7 or 9 if necessary.

At the bottom of each page, synonymous acronyms corresponding to a main acronym and remarks are displayed; ambiguous synonyms (to be avoided) are enclosed in parentheses.

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
1A		HHMM+DD HHMM+DDd	-	(X)	1A	.	-	.	Ariel satellite, list 1	*(a)*
2A		HHMM+DDd	105	(X)	2A	1978C2	COOKE B.A.+	1978MNRAS.182..489C	Ariel satellite, list 2 ($\|b\| > 10^{\circ}$)	*(b)*
3A		HHMM+DDd	251	(X)	3A	1981M1 1981W2	McHARDY I.M.+ WARWICK R.S.+	1981MNRAS.197..893M 1981MNRAS.197..865W	Ariel satellite, list 3	*(c)*
A		NNNN	-	Flare $*$	-	.	-	.	Asiago	V $*$ Nmcl
A	*eq. 1A*	HHMM+DD HHMM+DDd	.	(X)	1A	.	-	.	Ariel satellite	
A	*eq. Anon*	HHMM+DD HHMM+DDd HHMMSS+DDMM HHMMSS.s+DDMMSS	.	G	ANON	.	-	.	Anonymous	
A	*use ADS*	NNNNNAA	.	Double $*$	ADS	1932A1	AITKEN R.G.	.	Aitken	
A	*use A55*	NN	.	PN	PN A55	1955A1	ABELL G.O.	1955PASP...67..258A	Abell	
A	*use Pal*	NN	.	GCl	Cl Pal	1955A1	ABELL G.O.	1955PASP...67..258A	Abell	
A	*use APG*	NNN	.	G	APG	1966A1	ARP G.C.	.	Arp	
A		NN	86	PN	PN A66	1966A2	ABELL G.O.	1966ApJ...144..259A	Abell	PN Nmcl *(d)*
A		R R(a) R.N	-	HVC	-	1968H1 A 1968H1 B 1975H1 A	HULSBOSCH A.N.M. GIOVANELLI R.+ HULSBOSCH A.N.M.	1968BAN....20...33H 1973A&AS...12..209G 1975A&A....40....1H	cloud complex labelled A	
A	*eq. ACO*	NNNN	.	Cluster of G	ACO	1958A1 1989AC	ABELL G.O. ABELL G.O.+	1958ApJS....3..211A 1989ApJS...70....1A	Abell	
A	*use Andrews*	NNNNN	.	$*$ in Orion	Andrews	1981AG	ANDREWS A.D.+	.	Andrews	

(a) 1A = (A) = Ariel
(b) 2A = Ariel
(c) 3A = Ariel
(d) A = (A') = A66 = (Abell)

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
A	*use ARDB*	NNN	.	* in LMC	ARDB	1972A2 A	ARDEBERG A.+	1972A&AS....6..249A	Ardeberg	
A'	*use A*	NN	.	PN	PN A66	1966A2	ABELL G.O.	1966ApJ...144..259A	Abell	
A1-		NNN	129	Blue Obj.	-	1968B1 A 1968B1 B	BARBIERI C.+ ERCULIANI ABATI L.	. 1982A&AS...48..333E	Asiago obs., field 1	
A2-		NNNa	487	Blue Obj.	p A2-	1972B1	BARBIERI C.+	1972Ap&SS..16..324B	Asiago obs., field 2	
A55		NN	73	PN	PN A55	1955A1	ABELL G.O.	1955PASP...67..258A	Abell, 1955	Obsolete, PK Nmcl *(a)*
A66	*eq. A*	NN	.	PN	PN A66	1966A2	ABELL G.O.	1966ApJ...144..259A	Abell, 1966	
AAO		+DD NNN	6037	*	AAO	1988C5	CHARGEISHVILI K.B.	1988AbaOB..65...18C	Abatsumani Astrophys. Obs.	
AB		NNN	175	(UV)	AB	1970B3	BRACCESI A.+	1970A&A.....5..264B	A. Braccesi	*(b)*
AB	*use SMC AB*	N	.	WR in SMC	-	1979A3	AZZOPARDI M.+	1979A&A....75..120A	Authors' initials	
Ab		NN	30	G in ACO 400	-	.	CORBELLI E.+	1991ApJ...370...49C	Abell cl., bright	
ABCG		NNNN	2712	Cluster of G	ABCG	1958A1	ABELL G.O.	1958ApJS....3..211A	Abell, Cluster of G	*(c)*
ABCG	*eq. ACO*	NNNN	.	Cluster of G	ACO	1989AC	ABELL G.O.+	1989ApJS...70....1A	Abell, Cluster of G	
ABCG S	*eq. ACOS*	NNNN	.	Cluster of G	ACO S	1989AC	ABELL G.O.+	1989ApJS...70....1A	Abell, Cluster of G, Suppl. southern	
Abel	*use A55*	NN	.	PN	PN A55	1955A1	ABELL G.O.	1955PASP...67..258A	Author's name	
Abel	*use Pal*	NN	.	GCl	Cl Pal	1955A1	ABELL G.O.	1955PASP...67..258A	Author's name	
Abel	*use ACO*	NNNN	.	Cluster of G	ACO	1958A1 1989AC	ABELL G.O. ABELL G.O.+	1958ApJS....3..211A 1989ApJS...70....1A	Author's name	

(a) A55 = (A) = (Abel) = (Abell)
(b) AB = (B)
(c) ABCG Revised and extended by ACO, ref. 1989AC

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
Abell	*use A55*	NN	.	PN	PN A55	1955A1	ABELL G.O.	1955PASP...67..258A	Author's name	
Abell	*use Pal*	NN	.	GCl	Cl Pal	1955A1	ABELL G.O.	1955PASP...67..258A	Author's name	
Abell	*use ACO*	NNNN	.	Cluster of G	ACO	1958A1 1989AC	ABELL G.O. ABELL G.O.+	1958ApJS....3..211A 1989ApJS...70....1A	Author's name	
Abell	*use A*	NN	.	PN	PN A66	1966A2	ABELL G.O.	1966ApJ...144..259A	Author's name	
Abetti		NN	23	Double *	-	.	-	.	Discoverer's name	IDS Nmcl *(a)*
ABGC	*use ACO*	NNNN	.	Cluster of G	ACO	1958A1 1989AC	ABELL G.O. ABELL G.O.+	1958ApJS....3..211A 1989ApJS...70....1A	Abell, Galaxy Cluster	
ABT	*eq. Abetti*	NN	.	Double *	-	.	-	.	Discoverer's name	
ABW-A		NNN	316	Carbon * in SMC	ABW-A	1986W1	WESTERLUND B.E.+	1986A&AS...65...79W	Authors 'initials, field A	
ABW-B		NNN	133	Carbon * in SMC	ABW-B	1986W1	WESTERLUND B.E.+	1986A&AS...65...79W	Authors 'initials, field B	
ABWR	*eq. SMC AB*	N	.	WR in SMC	-	1979A3	AZZOPARDI M.+	1979A&A....75..120A	Authors' initials, WR *	
AC		NN	20	Double *	** AC	.	CLARK A.	.	A. Clark	IDS Nmcl
AC		R	-	HVC	-	1968H1 A 1975H1 A	HULSBOSCH A.N.M. HULSBOSCH A.N.M.	1968BAN....20...33H 1975A&A....40....1H	Anticenter Cloud Complex	
AC		+DD NNNN +DD NNNNA DD.NNNNN +DD NNNN-NNN	-	*	AC	1974EC	EICHHORN H.	.	Astrographic Catalog	*(b)*
AC	*use ACO*	NNNN	.	Cluster of G	ACO	1989AC	ABELL G.O.+	1989ApJS...70....1A	Abell, Cluster of G	

(a) Abetti = ABT
(b) AC = (GR) = (Gr) = GRW

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
AC		NNN	30	Cluster of G	`p ACCG`	.	ABELL G.O.+	.	Abell & Corwin	*(a)*
ACCG	*eq. AC*	NNN	.	Cluster of G	`p ACCG`	.	ABELL G.O.+	.	Abell & Corwin, Cluster of G	
ACG		HHMM+DD	2	Compact G	`ACG`	`1975A3`	ARP H.+	`1975ApJ...197..291A`	Arp, Compact G	*(b)*
ACH		NN	15	GCl in M 31	`ACH`	.	AURIERE M.+	`1992A&A...256...95A`	Authors' initials	*(c)*
ACH92	*eq. ACH*	NN	.	GCl in M 31	`ACH`	.	AURIERE M.+	`1992A&A...256...95A`	Authors' initials, 1992	
ACO		NNNN	4076	Cluster of G	`ACO`	`1989AC`	ABELL G.O.+	`1989ApJS...70....1A`	Authors initials	*(d)*
ACOS		NNNN	1174	Cluster of G	`ACO S`	`1989AC`	ABELL G.O.+	`1989ApJS...70....1A`	Authors initials, Suppl. southern	*(e)*
ACO S	*eq. ACOS*	NNNN	.	Cluster of G	`ACO S`	`1989AC`	ABELL G.O.+	`1989ApJS...70....1A`	Authors initials, Suppl. southern	
AD	*use SN*	YYYYA YYYYaa	.	SN	`SN`	`1974SS`	SARGENT W.L.W.+	.	Anno Domini	
A.D.	*use SN*	YYYYA YYYYaa	.	SN	`SN`	`1974SS`	SARGENT W.L.W.+	.	Anno Domini	
ADS		NNNNNAA	17180	Double $*$	`ADS`	`1932A1`	AITKEN R.G.	.	Aitken, Double $*$	IDS Nmcl *(f)*
AE		N	1	V $*$	`NAME AE 1`	`1975E1`	ELVIUS A.	`1975A&A....44..117E`	A. Elvius	= V803 Cen, V $*$ Nmcl
Ae1-	*eq. Al*	N	.	PN	`PN Al`	.	ALLEN D.A.	`1973Obs....93...85A`	Author's name, list 1	

(a) AC = ACCG
Unpublished, Nos 101-130
(b) ACG = (CG)
Also format H/MM+DD or HH/MM+DD ; Rounded, not truncated coordinates
(c) ACH = ACH92 = (C)
Tables 3 and 4: format NN
(d) ACO = A = ABCG = (Abel) = (Abell) = (ABGC) = (AC)
Revision of ref. 1958A1 (ABCG) and extension to the southern hemisphere
(e) ACOS = ABCG S = ACO S = (S)
(f) ADS = (A) = (Aitken)

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
Ae2-	*eq. Al2-*	A	.	PN	PN Al 2-	.	ALLEN D.A.	1979Obs....99...83A	Author's name, list 2	
Ae 1-	*eq. Al*	N	.	PN	PN Al	.	ALLEN D.A.	1973Obs....93...85A	Author's name, list 1	
Ae 2-	*eq. Al2-*	A	.	PN	PN Al 2-	.	ALLEN D.A.	1979Obs....99...83A	Author's name, list 2	
AF	*use AFGL*	NNNN	.	(IR)	AFGL	1975W1 1976P1+	WALKER R.G.+ PRICE S.D.+	. .	Air Force	
Af		NN	49	G in ACO 400	-	.	CORBELLI E.+	1991ApJ...370...49C	Abell cl., faint	
A-F	*use CAFS*	NNNN	.	A-F *	CASE A-F	1988S2+	SANDULEAK N.	.	A-F type *	
AFCRL		NNN-NNNN	2363	(IR)	-	1972W1	WALKER R.G.+	.	Air Force Cambridge Research Lab.	
AFCRL		NNNN	≃ 3100	(IR)	AFGL	1975W1	WALKER R.G.+	.	Air Force Cambridge Research Lab.	updated by AFGL
AFCRL-UOA	*eq. UOA*	NN	.	(IR)	-	1973L2	LOW F.J.	.	Air Force Cambridge Research Lab., Univ. Of Arizona	
AFGL		NNNN	3500	(IR)	AFGL	1975W1 1976P1 A 1976P1 B 1976P1 C	WALKER R.G.+ PRICE S.D.+ PRICE S.D. GRASDALEN G.L.+	. . . 1983ApJS...53..413G	Air Force Geophys. Lab.	*(a)*
AG	*eq. AGK3*	+DD NNNN	.	*	AG	1975H2	HECKMANN O.+	.	Astr. Gesellschaft katalog	
AG	*eq. AGK3U*	+DD NNNN	.	*	AG	1992B3	BUCCIARELLI B.+	1992AJ....103.1689B	Astr. Gesellschaft katalog	
AGC		NN	15	Double *	** AGC	.	CLARK A.G.	.	A.G. Clark	IDS Nmcl
AGK		+DD NNNN	-	*	AG	.	-	.	Astr. Gesellschaft Katalog	Superseded by AGK3

(a) AFGL = (AF) = CRL = (GL)

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
AGK2		+DD NNNN	-	*	AG	.	-	.	Astr. Gesellschaft Katalog, 2nd version	Superseded by AGK3 *(a)*
AGK/2	*eq. AGK2*	+DD NNNN	.	*	AG	.	-	.	Astr. Gesellschaft Katalog, 2nd version	Superseded by AGK3
AGK3		+DD NNNN	180000	*	AG	1975H2	HECKMANN O.+	.	Astr. Gesellschaft Katalog, 3rd version	*(b)*
AGK/3	*eq. AGK3*	+DD NNNN	.	*	AG	1975H2	HECKMANN O.+	.	Astr. Gesellschaft Katalog, 3rd version	
AGK3R		NNNNN	21499	*	AGKR	.	CORBIN T.E.	1978IAUCo..48..505C	Astr. Gesellschaft Katalog, 3rd version, Reference stars	*(c)*
AGKR	*eq. AGK3R*	NNNNN	.	*	AGKR	.	CORBIN T.E.	1978IAUCo..48..505C	Astr. Gesellschaft Katalog, Reference *	
AGK3U		+DD NNNN	-	*	AG	1992B3	BUCCIARELLI B.+	1992AJ....103.1689B	AGK3 Updated	*(d)*
AGN	*catalog: use GN*	HH.MM.m.NN	.	Neb. Obj.	p GN	1985NV	NECKEL Th.+	.	Atlas of Gal. Nebula	
Aguero		NN	48	G	p Aguero	1971A1	AGUERO E.L.	1971PASP...83..310A	Author's name	
Aitken	*use ADS*	NNNNNAA	.	Double *	ADS	1932A1	AITKEN R.G.	.	Discoverer's name	
Akn	*eq. ARAK*	NNN	.	G	ARK	1975A2	ARAKELIAN M.A.	1975SoByu..47....3A	Author's name	
Al		N	1	PN	PN Al	.	ALLEN D.A.	1973Obs....93...85A	Author's name	*(e)*
Al1-	*eq. Al*	N	.	PN	PN Al	.	ALLEN D.A.	1973Obs....93...85A	Author's name, list 1	

(a) AGK2 = AGK/2
(b) AGK3 = AG = AGK/3
(c) AGK3R = AGKR
(d) AGK3U = AG
(e) Al = Ae1 = Ae 1- = Al1- = Al 1-
Al 1 = PN G006.8-08.6 = PK 006-08 1

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
Al2-		A	19	PN	`PN Al 2-`	.	ALLEN D.A.	`1979Obs....99...83A`	Author's name, list 2	PN Nmcl *(a)*
Al 1-	*eq. Al*	N	.	PN	`PN Al`	.	ALLEN D.A.	`1973Obs....93...85A`	Author's name, list 1	
Al 2-	*eq. Al2-*	A	.	PN	`PN Al 2-`	.	ALLEN D.A.	`1979Obs....99...83A`	Author's name, list 2	
AL-		NNN	446	Em. ∗ in LMC	-	`1964A1`	ANDREWS A.D.+	`1964IrAJ....6..241A`	Authors' initials	
Ali		NNNN	1192	Double ∗	`** ALI`	.	-	.	Author's name	IDS Nmcl
ALR-GC C		NN	34	Carbon ∗ in gal. bulge	`ALR -GC C`	`1991A2 A` `1991A2 B`	AZZOPARDI M.+ WESTERLUND B.E.+	`1991A&AS...88..265A` `1991A&A...244..367W`	Three discoverers' initials, Gal. Center, Carbon ∗	
Alter		N	1	OCl	`Cl Alter`	.	-	.	Author's name	= C 0029+628 = King 14
ALW 1-		N	8	Carbon ∗ in Scl Dw. G	-	. .	AZZOPARDI M.+ AZZOPARDI M.+	`1985A&A...144..388A` `1986A&A...161..232A`	Authors' initials, list 1	Table 2 (both ref.)
ALW 2-		NN	12	Carbon ∗ in Car Dw. G	-	. .	AZZOPARDI M.+ AZZOPARDI M.+	`1985A&A...144..388A` `1986A&A...161..232A`	Authors' initials, list 2	Table 3 (both ref.)
ALW 3-		N	7	Carbon ∗ in Leo II Dw. G	`p ALW 3-`	.	AZZOPARDI M.+	`1985A&A...144..388A`	Authors' initials, list 3	Table 4
ALW 4-		NN	19	Carbon ∗ in Leo I Dw. G	`p ALW 4-`	.	AZZOPARDI M.+	`1986A&A...161..232A`	Authors' initials, list 4	Table 4

(a) Al2- = Ae2- = Ae 2- = Al 2-

Acronym	Usage	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
AM		HHMM-DDM	-	G	AM	1987AM	ARP H.C.+	.	Authors' initials	Incorrect numbering (a)
AM-		N	4	GCl	NAME AM-	1979M1 A 1979M1 B	MADORE B.F.+ MADORE B.F.+	1979ApJ...227.L103M 1982PASP...94...40M	Authors' initials	(b)
[AMR93]		NN	56	*	[AMR93]	.	ARNAL E.M.+	1993MNRAS.265....1A	Authors' initials, 1993	
AN		NNN.YYYY	-	V *	AN	.	-	.	Astronomische Nachrichten	V * Nmcl
An	*use An Cl*	-	.	OCl	-	1978P3	PFLEIDERER J.+	.	Anonymous	
An 1 XRS	*eq. 1XRS*	HHMMm+DD	.	(X)	1XRS	.	AMNUEL P.R.+	1979ApJS...41..327A	X-ray source, list 1	
An 2 XRS	*eq. 2XRS*	HHMMm+DDd	.	(X)	-	1982AM	AMNUEL P.R.+	1982Ap&SS..82....3A	X-ray source, list 2	
An (Bok)	*eq. Bok*	-	.	OCl	-	1977P2	PHILIP A.G.	1977PASP...89..554P	Anonymous, Discoverer's name	
An Cl		N	4	OCl	-	1978P3	PFLEIDERER J.+	.	Anonymous Cluster	(c)
Andrews		NNNNN	16777	* in Orion	Andrews	1981AG	ANDREWS A.D.+	.	Author's name	(d)
ANON	*eq. Anon*	HHMM+DD HHMM+DDd HHMMSS+DDMM HHMMSS.s+DDMMSS	.	G	ANON	.	-	.	Anonymous	
Anon		HHMM+DD HHMM+DDd HHMMSS+DDMM HHMMSS.s+DDMMSS	-	G	ANON	.	-	.	Anonymous	(e)

(a) AM = APM
Ref 1987AM: In the format, the 3rd digit in the declination is incorrect: The authors have truncated the arc minutes instead of writing a decimal fraction of degree e.g. $+43° \ 59'$ is written +435

(b) AM- AM-1 = E1, galactocentric distance 118 kpc (Aaronson+, 1984, Ap. J. 276, 221-228 and plates 1 and 2)

(c) An Cl = (An)
An Cl 1 = C 0104+653 ; An Cl 2 = C 1755-050 ; An Cl 3 = C 2306+606 ; An Cl 4 = C 2348+620 (Lynga 1983 private communication)

(d) Andrews = (A)

(e) Anon = A = ANON = Anonym

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
Anon		NN	85	* Ring	-	1968I1 B 1968I1 C	URANOVA T.A. URANOVA T.A.	1973ACiCh.772....4U 1973ACiCh.773....3U	Anonymous	*(a)*
Anonym	*eq. Anon*	HHMM+DD HHMM+DDd HHMMSS+DDMM HHMMSS.s+DDMMSS	.	G	ANON	.	-	.	Anonymous	
ANS		HHMM+DD	-	(X)	-	.	-	.	Astron. Netherland satellite	
AO		HHMM+DDA	35	(Rad)	AO	1967H1 A 1967H1 B 1967H1 C 1967H1 D	HAZARD C.+ HAZARD C.+ GULKIS S.+ LANG K.R.+	1967ApJ...148..669H 1968ApJ...154..413H 1969ApJ...157.1047G 1970ApJ...160...17L	Arecibo obs., Occultation	
AO	*eq. GAT*	NNN	.	*	GAT	1973G1	GATEWOOD G.+	1973AJ.....78..769G	Allegheny Obs.	
AP	*use PSR*	HHMM+DD	.	PSR	PSR	1976TD	TERZIAN Y.+	1976Ap&SS..44..479T	Arecibo obs., Pulsar	Superseded by PSR
Ap1-		NN	12	PN	PN Ap 1-	.	FRANZMAN Y.L.	1962AZh....39..256F	Discoverer's name, list 1	PN Nmcl *(b)*
Ap2-		N	1	PN	PN Ap 2-	.	APRIAMASHVILI S.P.	1962ATsir.231...25A	Author's name, list 2	*(c)*
Ap3-		N	1	PN	PN Ap 3-	.	APRIAMASHVILI S.P.	1962ATsir.232....3A	Author's name, list 3	*(d)*
Ap4-		N	1	PN	PN Ap 4-	.	APRIAMASHVILI S.P.	1964ATsir.279....1A	Author's name, list 4	*(e)*
Ap5-		N	1	Not a PN	-	.	APRIAMASHVILI S.P.	.	Author's name, list 5	
Ap 1-	*eq. Ap1-*	NN	.	PN	PN Ap 1-	.	FRANZMAN Y.L.	1962AZh....39..256F	Discoverer's name, list 1	

(a) Anon = A = ANON = Anonym
(b) Ap1- = Ap 1-
(c) Ap2- = Ap 2-
Ap2-1 = PN G035.1-00.7 = PK 035-00 1
(d) Ap3- = Ap 3-
Ap3-1 = PK 037-02 1, rejected PN in ref. 1992AO
(e) Ap4- = Ap 4-
Ap4-1 = PN G048.0-02.3 = PK 048-02 1

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
Ap 2-	*eq. Ap2-*	N	.	PN	PN Ap 2-	.	APRIAMASHVILI S.P.	1962ATsir.231...25A	Author's name, list 2	
Ap 3-	*eq. Ap3-*	N	.	PN	PN Ap 3-	.	APRIAMASHVILI S.P.	1962ATsir.232....3A	Author's name, list 3	
Ap 4-	*eq. Ap4-*	N	.	PN	PN Ap 4-	.	APRIAMASHVILI S.P.	1962ATsir.231...25A	Author's name, list 4	
APG		NNN	338	G	APG	1966A1	ARP G.C.	.	Atlas of Peculiar G	*(a)*
APM	*eq. AM*	HHMM-DDd HHMM-DDMM	.	G	AM	1987AM	ARP H.C.+	.	Authors' names	
Apriamasvili		N	1	OCl	Cl Apriamaswili	1964A2	APRIAMASVILI S.P.	1964ATsir.280....1A	Author's name	= C 1845-059
Aqr C		NN	30	(UV)	-	1983C3	CARRUTHERS G.R.+	1983ApJS...53..623C	Aquarius, in S 201 Catalog	
Aqr NC		NN	22	(UV)	-	1983C3	CARRUTHERS G.R.+	1983ApJS...53..623C	Aquarius, Not in S 201 Catalog	
ARAK		NNN	591	G	ARK	1975A2	ARAKELIAN M.A.	1975SoByu..47....3A	Author's name	*(b)*
Arakelian	*eq. ARAK*	NNN	.	G	ARK	1975A2	ARAKELIAN M.A.	1975SoByu..47....3A	Author's name	
Arakeljan	*eq. ARAK*	NNN	.	G	ARK	1975A2	ARAKELIAN M.A.	1975SoByu..47....3A	Author's name	
Arakelyan	*eq. ARAK*	NNN	.	G	ARK	1975A2	ARAKELIAN M.A.	1975SoByu..47....3A	Author's name	
Ard		NNN	-	Double *	-	.	-	.	?	IDS Nmcl
ARDB		NNN	583	* in LMC	ARDB	1972A2 A	ARDEBERG A.+	1972A&AS....6..249A	First author's name	*(c)*
Ardeberg	*eq. ARDB*	NNN	.	* in LMC	ARDB	1972A2 A	ARDEBERG A.+	1972A&AS....6..249A	First author's name	
ARG		NN	99	Double *	** ARG	.	-	.	Argelander	IDS Nmcl
ARG		a	8	(Rad)	-	1974G1	GILLESPIE A.R.	1974MNRAS.166..11PG	A.R. Gillespie	

(a) APG = (A) = Arp
(b) ARAK = Akn = ARK = Arakelian = Arakeljan = Arakelyan
(c) ARDB = (A) = Ardeberg

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
Ariel	*eq. 1A*	HHMM+DD HHMM+DDd	.	(X)	`1A`	.	-	.	Ariel satellite	
Ariel	*eq. 2A*	HHMM+DDd	.	(X)	`2A`	1978C2	COOKE B.A.+	`1978MNRAS.182..489C`	Ariel satellite	
Ariel	*eq. 3A*	HHMM+DDd	.	(X)	`3A`	1981M1 1981W2	McHARDY I.M.+ WARWICK R.S.+	`1981MNRAS.197..893M` `1981MNRAS.197..865W`	Ariel satellite	
ARK	*eq. ARAK*	NNN	.	G	`ARK`	1975A2	ARAKELIAN M.A.	`1975SoByu..47....3A`	Author's name	
ARM	*use SMC ARM*	NN	.	Superg. in SMC	-	1977A4	ARDEBERG A.+	`1977A&AS...30..261A`	Authors' names	
Arm		AN	7+7	Arm in M 31	`NAME ARM AN IN M31`	.	ARP H.	`1964ApJ...139.1045A`	Arm feature	*(a)*
ARMA		NNN	125	*	`ARMA`	1977A3	ARDEBERG A.+	`1977A&AS...28..153A`	Authors' names	
ARMA	*use SMC ARM*	NN	.	Superg. in SMC	-	1977A4	ARDEBERG A.+	`1977A&AS...30..261A`	Authors' names	
ARO		NNN	557	PN	`PN ARO`	.	HIGGS L.A.	`1971PAB.....1....1H`	Algonquin Radio Obs.	
ARO		HHMM+DD	15	(Rad)	-	1972R1	ROSS H.N.	.	Algonquin Radio Obs.	
Arp		N	2	GCl	`Cl Arp`	1960A1	ARP H.+	`1960PASP...72...48A`	Author's name	C Nmcl
Arp	*eq. APG*	NNN	.	G	`APG`	1966A1	ARP G.C.	.	Author's name	
AS		NNN	521	Em. * (39 PN)	`EM* AS`	1950M1 A 1950M1 B	MERRILL P.W.+ MILLER W.C.+	`1950ApJ...112...72M` `1951ApJ...113..624M`	Additional Star	Continues MWC
As		-	-	V *	-	.	-	.	Asiago obs.	V * Nmcl
ASB		NN	79	(Rad)	-	1964B2	BENNETT A.S.	`1964MNRAS.127....1B`	A.S. Bennett	
1ASE		HHMM+DD	16	(X)	-	.	-	.	American Science and Engeneering	1971

(a) Arm   Format: (N1-N7) and (S1-S7) N and S refer to arms on the North following and South preceding sides of the major axis

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
2ASE		HHMM+DD	16	(X)	-	.	-	.	American Science and Engeneering	1971
ASh		NN	10	Blue Obj.	-	1958A2	AMBARTSUMIAN V.A.+	1958DoSSR..26..277A	Authors' initials	
Ass-		NN.N	89	Ass.	-	1970AR A 1970AR B	ALTER G.+ RUPRECHT J.+	. .	Association	
ASS CHA T 1-	*eq. HM*	NN	.	Em. *	ASS CHA T 1-	1973H3	HENIZE K.G.+	1973ApJ...180..115H	Association Chamaeleon T, list 1	
ASS CHA T 2-	*eq. WKK*	NN	.	*	ASS CHA T 2-	.	WHITTET D.C.B.+	1987MNRAS.224.497W	Association Chamaeleon T, list 2	Table 5
ASV		FFFF-NNN V NNNN CCC	-	*	-	1899H1	HAGEN I.G.	.	Atlas Stellarum Variabilium	
ASW		F-NN	121	*	-	.	ARDEBERG A.+	1973A&AS....9..163A	Authors' initials	*(a)*
AT		HHMM+DDd	27	(X)	1A	.	PYE J.P.+	1983MNRAS.205..875P	Ariel Transient	
AV	*eq. AzV*	NNNa	.	* in SMC	AzV	1975A1+	AZZOPARDI M.+	.	Authors' initials	
Av		N	4	OCl + Em. region	-	1972A1	ANTALOVA A.	1972BAICz..23..126A	Author's name	
Av-Hunter		-	1	OCl	-	.	-	.	Authors' names	= C 2334+481 *(b)*
Aveni-Hunter	*eq. Av-Hunter*	N	.	OCl	-	.	-	.	Authors' names	
AWM		N	7	Cluster of G	NAME AWM	1977A2	ALBERT C.E.	1977ApJ...211..309A	Authors' initials	
AZ	*eq. AzV*	NNNa	.	* in SMC	AzV	1975A1+	AZZOPARDI M.+	.	First author's name	
AZO	*eq. AzV*	NNNa	.	* in SMC	AzV	1975A1+	AZZOPARDI M.+	.	First author's name	
AZV	*eq. AzV*	NNNa	.	* in SMC	AzV	1975A1+	AZZOPARDI M.+	.	Authors' names	

(a) ASW In the format F for fields (Nos 1-4). Finding charts
(b) Av-Hunter = Aveni-Hunter

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
AzV		NNNa	524	* in SMC	AzV	1975A1 A 1975A1 B 1982AZ	AZZOPARDI M.+ AZZOPARDI M.+ AZZOPARDI M.+	1975A&AS...22..285A 1979A&AS...35..353A 1982A&AS...50..291A	Authors' names	*(a)*
AZVI	*eq. AzV*	NNNa	.	* in SMC	AzV	1975A1+	AZZOPARDI M.+	.	Authors' names	
AZVI...F		NNN	124	Foregd * to SMC	-	1975A1 B	AZZOPARDI M.+	1979A&AS...35..353A	Authors' names, Foregd *	*(b)*
B	*use Bailey*	.		OCl	-	.	-	.	Bailey	
B	*use Barnard*	NNN	.	DCld	BARN	1927B1	BARNARD E.E.	.	Barnard	
B	*use GC*	NNNNN	.	*	GC	1937B1	BOSS B.	.	Boss	
B	*use BA*	N-NNN	.	Obj. in M 31	BA	.	BAADE W.+	1964ApJ...139.1027B	Baade	
B		N	9	Std. * in SMC	-	1967B1	BASINSKI J.M.+	1967MNRAS.137...55B	Basinski	*(c)*
B		R	-	HVC	-	1968H1 A	HULSBOSCH A.N.M.	1968BAN....20...33H	Cloud Complex labelled B	
B	*use AB*	NNN	.	(UV)	AB	1970B3	BRACCESI A.+	1970A&A.....5..264B	Braccesi	
B	*use SB*	NNN	.	* near SGP	SB	1971S3	SLETTEBAK A.+	1971AJ.....76..338S	Brundage	
B	*use Batten*	NNN	.	SB	SBC	1978BF	BATTEN A.H.+	1978PDAO...15..121B	Batten	
B	*use BFS*	NN	.	H II and RFN	BFS	1982B1	BLITZ L.+	1982ApJS...49..183B	First author's initial	
[B55]		N	5	PN in M 31	-	.	BAADE W.	1955AJ.....60..151B	Baade, 1955	*(d)*
[B68]		NN	27	Nova in M 31	-	.	BORNGEN F.	1968AN....291...19B	Borngen, 1968	

(a) AzV = AV = AZ = AZO = AZV = AZVI
(b) AZVI...F = (F)
(c) B B, ref. 1967B1: B (9 standard *) is not a synonymous for BBB (377 SMC *)
(d) [B55] (Nos 1-6) No. 3 is missing

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
[B80]		NN	95	Faint Blue Obj.	[B80]	.	BORNGEN F.	1980AN....301..305B	Borngen, 1980	*(a)*
[B84]		NN ENN	81+12	V *	-	.	BLANCO B.M.	1984AJ.....89.1836B	Blanco, 1984	*(b)*
B1		A	11	(Rad)	-	1954B1	BOLTON J.G.+	1954AuJPh...7...96B	Bolton, list 1	
B1		HHMM+DDA	654	(Rad)	B1	1965B1	BRACCESI A.+	.	Bologna obs., 1st catalog	
B1S		HHMM+DDA	38	(Rad)	B1	1965B1	BRACCESI A.+	.	Bologna obs., 1st catalog Suppl.	
B2		NNN	104	(Rad)	-	1954B2	BOLTON J.G.+	1954AuJPh...7..110B	Bolton, list 2	
B2	*eq. B2.1*	HHMM+DDA	.	(Rad)	B2	1970C1 A	COLLA G.+	1970A&AS....1..281C	Bologna obs., 2nd survey	
B2	*eq. B2.2*	HHMM+DDA	.	(Rad)	B2	1970C1 B	COLLA G.+	1972A&AS....7....1C	Bologna obs., 2nd survey	
B2	*eq. B2.3*	HHMM+DDA	.	(Rad)	B2	1970C1 C	COLLA G.+	1973A&AS...11..291C	Bologna obs., 2nd survey	
B2	*eq. B2.4*	HHMM+DDA	.	(Rad)	B2	1970C1 D	FANTI C.+	1974A&AS...18..147F	Bologna obs., 2nd survey	
B2.1		HHMM+DDA	3235	(Rad)	B2	1970C1 A	COLLA G.+	1970A&AS....1..281C	Bologna obs., 2nd survey, part 1	*(c)*
B2.2		HHMM+DDA	3313	(Rad)	B2	1970C1 B	COLLA G.+	1972A&AS....7....1C	Bologna obs., 2nd survey, part 2	*(d)*
B2.3		HHMM+DDA	3227	(Rad)	B2	1970C1 C	COLLA G.+	1973A&AS...11..291C	Bologna obs., 2nd survey, part 3	*(e)*
B2.4		HHMM+DDA	448	(Rad)	B2	1970C1 D	FANTI C.+	1974A&AS...18..147F	Bologna obs., 2nd survey, part 4	*(f)*

(a) [B80] = (Bo)
(b) [B84] = (BW)
(Nos 1-81) and (Nos E1-E12) E for Eclipsing variables
(c) B2.1 = B2
(d) B2.2 = B2
(e) B2.3 = B2
(f) B2.4 = B2

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
B3		HHMM+DDdA	13354	(Rad)	`B3`	`1985F1`	FICARRA A.+	`1985A&AS...59..255F`	Bologna obs., 3rd survey	
B3.1	*eq. B3*	HHMM+DDdA	.	(Rad)	`B3`	`1985F1`	FICARRA A.+	`1985A&AS...59..255F`	Bologna obs., 3rd survey, part 1	
BA		1-NNN	688	Em. Neb. in M 31	`BA`	.	BAADE W.+	`1964ApJ...139.1027B`	Baade + Arp	Table 1 *(a)*
BA		2-NN	68	Exgl Neb. in M 31	`BA`	.	BAADE W.+	`1964ApJ...139.1027B`	Baade + Arp	Table 2 *(b)*
BA		3-NN	30	GCl in M 31	`BA`	.	BAADE W.+	`1964ApJ...139.1027B`	Baade + Arp	Table 3 *(c)*
BA		4-NN	40	Misc. Obj. in M 31	`BA`	.	BAADE W.+	`1964ApJ...139.1027B`	Baade + Arp	Table 4 *(d)*
Ba		N	1	PN	`PN Ba`	.	BAADE W.	`1935PASP...47...99B`	Author's name	*(e)*
Ba	*eq. Basel*	NN.N	.	OCl	`Cl Basel`	`1971B1`	BECKER W.+	`1971A&AS....4..241B`	Basel astr. institute	
Baade Swope	*eq. BASV*	NNN	.	Exgl V *	`BASV`	`1961B1`	BAADE W.+	`1961AJ.....66..300B`	Authors' names	
BAC		NNN	.	*	`NAME BAC`	.	-	.	Bordeaux Astrographic Catalogue	
Badalian		NN	31	V *	-	.	-	.	First author's name	V * Nmcl *(f)*
Badaljan	*eq. Badalian*	NN	.	V *	-	.	-	.	First author's name	
Bailey		.		OCl	-	.	-	.	Author's name	C Nmcl *(g)*

(a) BA = (B)
(b) BA = (B)
(c) BA = (B)
(d) BA = (B)
(e) Ba Ba 1 = PN G171.3-25.8 = PK 171-25 1
(f) Badalian = Badaljan
(g) Bailey = (B)

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
Baldone	*eq. BC*	NNN	.	Carbon *	BC	1977A1+	ALKSNIS A.+	.	Baldone obs.	
Balloon		NNNNNNNNN	306	UV Exc. Obj.	-	.	BIXLER J.V.+	1991A&A...250..370B	Balloon number	SCAP exp.
Barhatova	*eq. Barkhatova*	N	.	OCl	Cl Barkhatova	1958B1	BARKHATOVA K.A.	1958SvA.....2..410B	Author's name	
Barkhatova		N	2	OCl	Cl Barkhatova	1958B1	BARKHATOVA K.A.	1958SvA.....2..410B	Author's name	C Nmcl *(a)*
BARN	*eq. Barnard*	NNN	.	DCld	BARN	1927B1	BARNARD E.E.	.	Author's name	
Barnard		NNN	370	DCld	BARN	1927B1	BARNARD E.E.	.	Author's name	*(b)*
Basel		NN.N	20	OCl	Cl Basel	1971B1	BECKER W.+	1971A&AS....4..241B	Basel astr. institute	C Nmcl *(c)*
BASV		NNN	203	Exgl V *	BASV	1961B1	BAADE W.+	1961AJ.....66..300B	Authors' names, Variable *	*(d)*
BASW		VNN	54	V * in M 31	BASW	.	BAADE W.+	1963AJ.....68..435B	Authors' names	*(e)*
BASW		NNN	417	V * in M 31	BASW	.	BAADE W.+	1965AJ.....70..212B	Authors' names	*(f)*
BASW		AN	7	Nova in M 31	BASW	.	BAADE W.+	1965AJ.....70..212B	Authors' names	*(g)*
Batten		NNN	978	SB	SBC	1978BF	BATTEN A.H.+	1978PDAO...15..121B	First author's name	*(h)*
Bax		.		V *	-	.	-	.	Baxendell	V * Nmcl

(a) Barkhatova = Barhatova
(b) Barnard = (B) = BARN
(c) Basel = Ba
The last discovered cluster is Basel 20 = C 0931-561, Topaktas+ 1982, Astr. Astrophys. Suppl. 49, 475-482 ; Ref. 1979LY also quotes number 11.1 and 11.2
(d) BASV = Baade Swope
(e) BASW Identif. charts. Table III: (Nos 1-60), missing numbers, field IV in M 31. Fields I and III: see BASW format NNN. Field II: see GAPO. Finding charts.
(f) BASW Identif. charts. Table IV: (Nos 51-153) field I in M 31. Table VIII: (Nos 161-467) field III in M 31, the numbering continues Hubble 1929ApJ.69.103H. Field II: see GAPO, field IV: see BASW format VNN
(g) BASW Identif. charts. Table IV: (Nos N1-N7) 7 novae in M 31.
(h) Batten = (B) = SBC

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
B & B		NN	21	G	-	1970B2	BAHCALL J.N.+	1970PASP...82..721B	Authors' initials	
BB	*use BoBn*	N	.	PN	PN BoBn	.	BOESHAAR G.O.+	1977ApJ...213..421B	Authors' names	
BB	*use SCC*	NNN	.	SuperCl of ACO Cl	-	.	BATUSKI D.J.+	1985AJ.....90.1413B	Authors' initials	
[BB93]		NN	36	Stellar obj.	[BB93]	.	BEAUCHEMIN M.+	1993AJ....105.1587B	Authors' initials, 1993	Finding charts
BBB		NNN	377	$*$ in SMC	BBB	1967B1	BASINSKI J.M.+	1967MNRAS.137...55B	Authors' initials	
BBM		NN	91	(IR)	-	1992B4	BEICHMAN C.A.+	1992ApJ...386..248B	Authors' initials	
BBRCG		NN	61	(IR) in ρ Oph DCld	-	.	BARSONY M.+	1989ApJ...346L..93B	Authors' initials	
BBW		LLLBB	41	H II	p BBW	1955B2	BOK B.J.+	.	Authors' initials	
BBW	*use BRAN*	NNNA	.	Neb. Obj.	BRAN	1986B1	BRAND J.+	1986A&AS...65..537B	Authors' initials	
BC		NNN	255	Carbon $*$	BC	1977A1 A 1977A1 B 1977A1 C 1977A1 D 1977A1 E 1977A1 F	ALKSNIS A.+ ALKSNIS A.+ ALKSNE Z.+ ALKSNE Z.+ ALKSNIS A.+ ALKSNIS A.+	1977ISKZ....7...11A 1977ISKZ....8....5A 1981ISKZ...13....5A 1983NInfo..52..138A 1983ISKZ...19...40A .	Baldone obs., Carbon $*$	*(a)*
[BCG93]		NN	12	T Tau $*$ in Tau-Aur	[BCG93]	.	BRICENO C.+	1993PASP..105..686B	Authors' initials, 1993	
BD		+DD NNNNN	324188	$*$	BD	1886A1 A 1886A1 B	SCHONFELD E. ARGELANDER F.+	. .	Bonner Durchmusterung	*(b)*
BDA		NN	10	(Rad)	BDA	1968B4	BLUM E.J.+	1968ApL.....2...41B	Authors' initials, field A	

(a) BC = Baldone
(b) BD = DM

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
BDB		NN	24	(Rad)	`BDB`	1968B4	BLUM E.J.+	1968ApL.....2...41B	Authors' initials, field B	
BDS	*use BlDz*	N	.	PN	`PN BlDz`	.	BLAAUW A.+	1975A&A....44..469B	Authors' initials	
BDS		NNNNN	13665	Double *	`** BDS`	1906B1	BURNHAM S.W.	.	Burnham obs., Double *	IDS Nmcl *(a)*
BE		NNN	625	Em. * in LMC	`p BE`	1974B1	BOHANNAN B.+	1974A&AS...18...47B	Authors' initials	
Be	*eq. Bernes*	NNN	.	H II and RFN	`p BERNES`	1977B1	BERNES C.	1977A&AS...29...65B	Author's name	
Be	*eq. Berkeley*	NNN	.	OCl	`Cl Berkeley`	.	-	.	Berkeley univ.	
[BEM91]		NN	32	Carbon *	`[BEM91]`	.	BOTHUN G.+	1991AJ....101.2220B	Authors' initials, 1991	*(b)*
BEN		NN	79	(Rad)	-	1963B1	BENNETT A.S.	1963MNRAS.127....3B	Author's name	
Ber	*eq. Bernes*	NNN	.	H II and RFN	`p BERNES`	1977B1	BERNES C.	1977A&AS...29...65B	Author's name	
Berkeley		NNN	104?	OCl	`Cl Berkeley`	.	-	.	Berkeley univ.	C Nmcl *(c)*
Bernacca		NNN NNNN	3075	*	-	1970B1 A 1970B1 B 1970B1 C	BERNACCA P.L.+ BERNACCA P.L.+ BERNACCA P.L.+	. . .	First author's name	
BERNES	*eq. Bernes*	NNN	.	H II and RFN	`p BERNES`	1977B1	BERNES C.	1977A&AS...29...65B	Author's name	
Bernes		NNN	160	H II and RFN	`p BERNES`	1977B1	BERNES C.	1977A&AS...29...65B	Author's name	*(d)*
BES		FFF-NN AAA-NN	236	Faint G	-	1988B1	BROADHURST T.J.+	1988MNRAS.235..827B	Authors' initials	

(a) BDS = (BGC)
(b) [BEM91] Authors use a format A*NN, with A* = C* (Carbon *), H* (Helium *), or M* (M *). No. 6 is missing
(c) Berkeley = Be
Ref. 1979LY gives 90 clusters numbered between 1 and 104 ; First published in the first edition of the Catalogue of Star Clusters and Associations, 1958, see ref. 1970AR A
(d) Bernes = Be = Ber = BERNES = Bs

Acronym	Usage	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
BF	*eq. BVF*	NNN	.	UV Exc. Obj.	p BF	1980F1	FORMIGGINI L.+	1980A&AS...39..129F	Bologna obs., Faint?	
BFS		NN	65	H II and RFN	BFS	1982B1	BLITZ L.+	1982ApJS...49..183B	Authors' initials	*(a)*
BG		HHMM+DDA HHMMDDA HHMMDDd HHMMDDNN	586	(Rad)	BG	1974F1 A 1974F1 B	FANTI C.+ FANTI C.+	1974A&AS...16...43F 1981A&AS...43....1F	Bologna obs., Galactic	
BGC	*use BDS*	NNNNN	.	Double *	** BDS	1906B1	BURNHAN S.W.	.	Burnham obs., General Catalog	
BG CFH		NN	56	QSO	NAME BG CFH	.	GASTON B.	1983ApJ...272..411G	B. Gaston, Canadian-France-Hawai tel.	Table 2
BGE		HHMM+DDA	77	(Rad)	-	1977F2	FELLI M.+	1977A&AS...27..181F	Bologna obs., Galactic, Extended	
BG KPNO		NN	14	QSO	NAME BG KPNO	.	GASTON B.	1983ApJ...272..411G	B. Gaston, Kitt Peak National tel.	Table 3
[BHG88]		NNNNN	11438	* in M 31	-	.	BERKHUIJSEN E.M.+	1988A&AS...76...65B	Three first authors' initials, 1988	*(b)*
BHI		HHMM+DD	1	G	NAME BHI	.	SZOMORU A.+	1993AJ....105..464S	Bootes void, H I	
BHJ		NN	83	Ass. *	ASS CEP OB 3-	1959B1	BLAAUW A.+	1959ApJ...130...69B	Authors' initials	
BI		NNN	272	O-B2 * in LMC	BI	1975B1	BRUNET J.P.+	1975A&AS...21..109B	Two first authors' initials	*(c)*
Bi		NNN NN-NNN	1540	Em. *	-	1954B3	BIDELMAN W.P.	1954ApJS....1..175B	Author's name	
BIRS		NNN	137	(IR)	BIRS	1980E1	ELMEGREEN D.M.	1980ApJ...240..846E	Bright Infrared *	

(a) BFS = (B)
(b) [BHG88] Not all of the stars in the catalogue are necessarly members of M31
(c) BI = Bru

Acronym	Usage	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
Biur	*eq. Biurakan*	NN	.	OCl	Cl Biurakan	.	-	.	Biurakan obs.	
Biurakan		NN	13	OCl	Cl Biurakan	.	-	.	Biurakan obs.	C Nmcl *(a)*
[BJS91]		AFFF:NNN	236	QSO + Faint Obj. in M 31	[BJS91]	.	BOYLE B.J.+	1991MNRAS.251..482B	Authors' initials, 1991	*(b)*
Bjurakan	*eq. Biurakan*	NN	.	OCl	Cl Biurakan	.	-	.	Biurakan obs.	
BK		NA	8	Dw. G	NAME BK1N to BK8N	.	BORNGEN F.+	1982AN....303..189B	Authors' initials	*(c)*
BKGS		NNA	37	(X) in SMC	-	1987B3	BRUHWEILER F.C.+	1987ApJ...317..152B	Authors' initials	*(d)*
BL		HHMM+DDd	88	BL	-	1987B2 1987HB A 1987HB B	BURBIDGE G.+ HEWITT A.+ HEWITT A.+	1987AJ.....93....1B 1987ApJS...63....1H 1989ApJS...69....1H	BL Lac Obj.	
BL		HHMM+DDd	90	BL	-	1993HB	HEWITT A.+	1993ApJS...87..451H	BL Lac Obj.	
Bl		A	17	PN	PN Bl	1961B2	BLANCO V.M.	1961CoBos..13....1B	Author's name	PN Nmcl *(e)*
Bl		NN	25	Em. *	-	1961B2	BLANCO V.M.	1961CoBos..13....1B	Author's name	*(f)*
Bl1-	*eq. Bl*	A	.	PN	PN Bl	1961B2	BLANCO V.M.	1961CoBos..13....1B	Author's name, list 1	
Bl2-		N	1	PN	PN Bl 2-	.	BLANCO V.M.	.	Author's name, list 2	PK Nmcl *(g)*
Bl3-		NN	14	PN	PN Bl 3-	.	WEHINGER+	.	Author's name, list 3	PN Nmcl *(h)*

(a) Biurakan = Biur = Bjurakan
(b) [BJS91] Table 6: 66 QSO. Table 9: others objects. Format: the objects are in 3 fields F855, F861, F864.
(c) BK in M81/82 group. Identif. charts
(d) BKGS (Nos 1-35) ; Several identif. on Fig. 1 are lacking or erroneous for sources 20 to 35. A few sources have not been detected later by Wang+Wu (ref. 1992W1, Table 2C)
(e) Bl = Bl1- = Bl 1-
(f) Bl = Bl1- = Bl 1-
(g) Bl2- = Bl 2-
PN G104.1+01.0 = PK 104+00 1
(h) Bl3- = Bl 3-
14 PN excerpted from a list of 22 objects

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
Bl 1-	*eq. Bl*	A	.	PN	`PN Bl`	1961B2	BLANCO V.M.	`1961CoBos..13....1B`	Author's name, list 1	
Bl 2-	*eq. Bl2-*	N	.	PN	`PN Bl 2-`	.	BLANCO V.M.	.	Author's name, list 2	
Bl 3-	*eq. Bl3-*	NN	.	PN	`PN Bl 3-`	.	WEHINGER +	.	Author's name, list 3	
Blanco		N	1	OCl	`Cl Blanco`	1949B1	BLANCO V.M.	`1949PASP...61..183B`	Author's name	= C 0001-302
Blanco		NN	11	Em. Obj.	-	1962B2	BLANCO V.M.	`1962PASP...74..330B`	Author's name	
Blanco	*eq. USN*	NNNNN	.	*	`UBV`	1968B3	BLANCO V.M.+	`1968PUSNO.......21B`	Author's name	
BlDz		N	1	PN	`PN BlDz`	.	BLAAUW A.+	`1975A&A....44..469B`	Two first authors' names	*(a)*
BlFg		NN	26	Em. *	-	1964B1	BLANCO V.M.+	`1964PASP...76..438B`	Authors' names	
BLMC		NN	20/55	Bright * in LMC	-	1987M2	MOULD J.+	`1987ApJ...321..156M`	Bright * in LMC	
BM		R NNN	542	*	`BM`	1955B1	BLANCO V.M.+	`1955BOTT....2C..17B`	Authors' initials	*(b)*
BMB		NNN	306	M Giant	`p BMB`	1984B3	BLANCO V.M.+	`1984AJ.....89..636B`	Authors' initials	
BMB-B	*eq. SMC-B*	NN	.	Carbon and Late * in SMC	`BMB-B`	1980B1 A	BLANCO V.M.+	`1980ApJ...242..938B`	Authors' initials, Bar	
BMB-BW	*eq. LMC-BW*	NNN	.	Carbon and Late * in LMC	`BMB-BW`	1980B1 A 1980B1 B	BLANCO V.M.+ FROGEL J.A.+	`1980ApJ...242..938B` `1990ApJ...365..168F`	Authors' initials, Bar West	

(a) BlDz = (BDS)
BlDz 1 = PN G293.6+10.9 = PK 293+10 1
(b) BM = (TT)

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
BMB-O	*eq. LMC-O*	NNN	.	Carbon and Late * in LMC	`BMB-O`	`1980B1 A`	BLANCO V.M.+	`1980ApJ...242..938B`	Authors' initials, Optical center	
BMB-R	*eq. LMC-R*	NN	.	Carbon and Late * in LMC	`BMB-R`	`1980B1 A`	BLANCO V.M.+	`1980ApJ...242..938B`	Authors' initials, Radio center	
BMB-W	*eq. SMC-W*	NN	.	Carbon and Late * in SMC	`BMB-W`	`1980B1 A`	BLANCO V.M.+	`1980ApJ...242..938B`	Authors' initials, Wing	
BMG		NNN	282	OCl in LMC	`BMG`	`1989B1`	BHATIA R.K.+	`1989A&A...211....9B`	Authors' initials	
BN		N	1	(IR) in Orion	`BNKL`	`1967B5`	BECKLIN E.E.+	`1967ApJ...147..799B`	Authors' initials	*(a)*
BNKL	*eq. BN*	N	.	(IR) in Orion	`BNKL`	`1967B5`	BECKLIN E.E.+	`1967ApJ...147..799B`	Authors' initials	
BNKL	*eq. KL*	N	.	(IR) in Orion	`BNKL`	`1967K2`	KLEINMANN D.E.+	`1967ApJ...149L...1K`	Authors' initials	
Bo	*eq. Bochum*	NN	.	OCl	`Cl Bochum`	`1975M1+`	MOFFAT A.F.J.+	.	Bochum astr. inst.	
Bo	*use [B80]*	NN	.	Faint Blue Obj.	`[B80]`	.	BORNGEN F.	`1980AN....301..305B`	Borngen	
Bo	*use Bol*	NNN	.	GCl in M 31	`Bol`	. .	BATTISTINI P.+ BATTISTINI P.+	`1980A&AS...42..357B` `1987A&AS...67..447B`	Bologna obs.	
Bo	*use Bol*	ANNN	.	Misc. Obj. in M 31	`Bol`	. .	BATTISTINI P.+ BATTISTINI P.+	`1980A&AS...42..357B` `1987A&AS...67..447B`	Bologna obs.	
BoBn		N	1	PN	`PN BoBn`	.	BOESHAAR G.O.+	`1977ApJ...213..421B`	Authors' names	*(b)*

(a) BN = BNKL
(b) BoBn = (BB)
BoBn 1 = PN G108.4-76.1 = PK 108-76 1

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
Bochum		NN	15	OCl	Cl Bochum	1975M1 A 1975M1 B 1975M1 C 1975M1 D	MOFFAT A.F.J.+ MOFFAT A.F.J.+ MOFFAT A.F.J.+ FITZGERALD M.P.+	1975A&AS...20...85M 1975A&AS...20..125M 1975A&AS...20..155M 1976A&A....46..287F	Bochum astr. inst.	C Nmcl *(a)*
Bok		-	1	OCl	-	1977P2	PHILIP A.G.	1977PASP...89..554P	Discoverer's name	= C 1108-231 *(b)*
Bol		NNN	513	GCl in M 31	Bol	. .	BATTISTINI P.+ BATTISTINI P.+	1980A&AS...42..357B 1987A&AS...67..447B	Bologna obs.	*(c)*
Bol		ANNN	350	Misc. Obj. in M 31	Bol	. .	BATTISTINI P.+ BATTISTINI P.+	1980A&AS...42..357B 1987A&AS...67..447B	Bologna obs.	*(d)*
BolD	*eq. Bol*	ANNN	.	Misc. Obj. in M 31	Bol	. .	BATTISTINI P.+ BATTISTINI P.+	1980A&AS...42..357B 1987A&AS...67..447B	Bologna obs., objects of class D	
Boss	*use GC*	NNNNN	.	*	GC	1937B1	BOSS B.	.	Author's name	
BP		NNN	198	(Rad)	p BP	1968B2	BAILEY F.A.+	1968MNRAS.138...51B	Authors' initials	
BPM		NNNNN	98218	PM *	BPM	1963L3	LUYTEN W.J.	.	Bruce, Proper Motion survey	
BPS	*use CTCS*	FFFFF-NN	.	AB *	CTCS	1982P2 C+	BEERS T.C.+	.	Authors' initials	
BR	*eq. Brun*	FFF-NNNN	.	*	-	1957B1	BRUN A.	.	Author's name	
BR	*use Brey*	NNNa	.	WR in LMC	Brey	1981BR+	BREYSACHER J.	.	Author's name	
Br	*use Brodskaja*	NNN	.	OB *	-	1953B1	BRODSKAJA Eh.S.	1953IzKry..10..104B	Author's name	
Br	*use Brodskaja*	NNNN	.	*	-	1955B3	BRODSKAJA Eh.S.	1955IzKry..14....3B	Author's name	

(a) Bochum = Bo
(b) Bok = An (Bok)
(c) Bol = (Bo) = (N) = (C)
Table III in the first ref., Tables IV and V in the second ref.
(d) Bol = (Bo) = BolD = (N)
Table V in the first ref., Table VI in the second ref. ; Format DNNN: objects of class D, that is not GCl.

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
Br	*eq. Brun*	FFF-NNNN	.	*	-	1957B1	BRUN A.	.	Author's name	
Br	*use Brey*	NNNa	.	WR in LMC	Brey	1981BR+	BREYSACHER J.	.	Author's name	
BRABCMS-		N	7	PN	PN VBRC	.	VAN DEN BERGH S.+	1973ApJ...179..863V	Authors' initials	PN Nmcl *(a)*
Braes		NNNN	1113	*	p BRAES	1967B3	BRAES L.L.E.	1967BANS....2....1B	Author's name	
BRAID		NNN	474	Cluster of G	-	1978B2	BRAID M.K.+	1978MNRAS.182..241B	First author's name	
BRAN		NNNA	400	Neb. Obj.	BRAN	1986B1	BRAND J.+	1986A&AS...65..537B	First author's name	*(b)*
BREY	*eq. Brey*	NNNa	.	WR in LMC	Brey	1981BR+	BREYSACHER J.	.	Author's name	
Brey		NNNa	116	WR in LMC	Brey	1981BR A 1981BR B 1981BR C 1981BR D	BREYSACHER J. LORTET M.-C. HEYDARI-MALAYERI M.+ MOFFAT A.F.J.	1981A&AS...43..203B 1991IAUS..143..513L 1990A&A...236..L21H 1991A&A...244...L9M	Author's name	*(c)*
Breys	*eq. Brey*	NNNa	.	WR in LMC	Brey	1981BR+	BREYSACHER J.	.	Author's name	
Breysacher	*eq. Brey*	NNNa	.	WR in LMC	Brey	1981BR+	BREYSACHER J.	.	Author's name	
BRHT		NNa	64x2	Binary OCl in LMC	BRHT	1991B1	BHATIA R.K.+	1991A&AS...87..335B	Authors' initials	
Brodskaja		NNN	400	OB *	-	1953B1	BRODSKAJA Eh.S.	1953IzKry..10..104B	Author's name	*(d)*
Brodskaja		NNNN	5752	*	-	1955B3	BRODSKAJA Eh.S.	1955IzKry..14....3B	Author's name	*(e)*

(a) BRABCMS- = VBRC
(b) BRAN = BBW
(c) Brey = (BR) = (Br) = Brey = Breys = Breysacher = JB
Format NNNa: newly discovered WR stars are inserted in RA
(d) Brodskaja = (Br)
(e) Brodskaja = (Br)

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
Bru	*eq. BI*	NNN	.	O-B2 * in LMC	BI	1975B1	BRUNET J.P.+	1975A&AS...21..109B	First author's name	
BRUC	*eq. Bruck*	NNN	.	Cluster in SMC	p BRUC	1976B1	BRUCK M.T.	.	Author's name	
Bruck		NNN	168	Cluster in SMC	p BRUC	1976B1	BRUCK M.T.	.	Author's name	*(a)*
Bruggemann		NNN	190	* in Cluster	Cl* NGC 1039 Bru	1935B1	BRUGGEMANN H.	1935AAHam...4..157B	Author's name	
Brun		FFF-NNNN	44926	*	-	1957B1	BRUN A.	.	Author's name	*(b)*
BS	*use SB*	N	.	WR	-	1975S1	STENHOLM B.	1975A&A....39..307S	Stenholm B.	
BS		NNNN	9110	*	HR = BS	1964HF A 1964HF B 1982HJ A 1982HJ B 1982HJ C	HOFFLEIT D. HOFFLEIT D. HOFFLEIT D.+ HOFFLEIT D. PETERS A.R.+	. 1979BICDS..17...38H . 1984BICDS..27..161H 1992BICDS..40...71P	Bright * catalog	*(c)*
BS	*eq. BSCG*	NNA	.	SuperCl of G	BSCG	1984B1	BAHCALL N.A.+	1984ApJ...277...27B	Authors' initials	
Bs	*eq. Bernes*	NNN	.	H II and RFN	p BERNES	1977B1	BERNES C.	1977A&AS...29...65B	Author's name	
BSC	*use BS*	NNNN	.	*	HR = BS	1964HF+ 1982HJ+	HOFFLEIT D. HOFFLEIT D.+	. .	Bright * Catalog	
BSCG		NNA	16	SuperCl of G	BSCG	1984B1	BAHCALL N.A.+	1984ApJ...277...27B	Authors' initials, Cluster of G	*(d)*
BSD	*eq. PSD*	FFF-NNNN	.	Southern *	BSD	1929B1+	BECKER F.	.	Bergedorfer obs., Spektral Durchmusterung	

(a) Bruck = BRUC = (E)
(b) Brun = BR = Br
(c) BS = (BSC) = HR = (RHP)
(d) BSCG = BS

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
BSD		FFF-NNNN	173599	Northern ∗	BSD	1935S1	SCHWASSMANN A.+	1935BSD..........1S	Bergedorfer obs., Spektral Durchmusterung	*(a)*
BSO		NN	31	BSO	p BSO	1965S1	SANDAGE A.+	1965ApJ...142..412S	Blue Stellar Obj.	
BSO		N	2	BSO	-	1979A1	ARP H.+	1979ApJ...229..496A	Blue Stellar Obj.	
BSp	*use BSD*	FFF-NNNN	.	Northern ∗	BSD	1935S1	SCHWASSMANN A.+	1935BSD..........1S	Bergedorfer obs., Spektral	
BSS		HHMM+DDd	7	QSO	QSO	1980M1	MARKARIAN B.E.+	1980ATsir.1141...1M	Biurakan obs., Second Survey	
BST	*eq. VCC*	NNNN	.	G	VCC	1985B2	BINGGELI B.+	1985AJ.....90.1681B	Authors' initials	
[BST93]		aF.NNNN aFa.NNNN	47	Em. G	-	.	BOROSON T.A.+	1993ApJ...412..524B	Authors' initials, 1993	
BTS		NNN	179	Dw. G	BTS	1990B1	BINGGELI B.+	1990A&A...228...42B	Authors' initials	
Buc		NNN	212	V ∗	-	.	-	.	Bucarest	V ∗ Nmcl
BV		NNNN	1641	V ∗	SV∗ BV	.	-	.	Bamberg, Variable ∗	V ∗ Nmcl
BV		NN	44	Exgl N	-	1956B1	BOHM-VITENSE E.	1956PASP...68..430B	Author's name	
BV	*eq. BV 5-*	N	.	PN	PN BV	1956B1	BOHM-VITENSE E.	1956PASP...68..430B	Author's name	
BV 5-		N	3	PN	PN BV	1956B1	BOHM-VITENSE E.	1956PASP...68..430B	Author's name, Table V	PN Nmcl *(b)*
BVF		NNN	298	UV Exc. Obj.	p BF	1980F1	FORMIGGINI L.+	1980A&AS...39..129F	Bologna obs., Very Faint	*(c)*
BW	*use BW79*	NN	.	Em. G + QSO	p BW79	1979B2	BOHUSKI T.J.+	1979ApJ...231..653B	Authors' initials	

(a) BSD = BSp = (SA)
(b) BV 5- = BV
(c) BVF = BF

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
BW	*use LMC-BW*	NNN	.	Carbon and Late * in LMC	BMB-BW	1980B1+	BLANCO V.M.+	.	Bar West	
BW	*use [B84]*	NN ENN	.	V *	-	.	BLANCO B.M.	1984AJ.....89.1836B	Baade's window	
BW		FF-NN	578	(IR)	-	. .	RUELAS-MAYORGA R.A.+	1992A&AS..93....61R 1992A&AS...93...61R	Baade's window	*(a)*
BW2		FF-NN	7	(IR)	-	.	RUELAS-MAYORGA R.A.+	1992A&AS...95..379R	Baade's window, list 2	*(b)*
BW79		NN	23	Em. G + QSO	p BW79	1979B2	BOHUSKI T.J.+	1979ApJ...231..653B	Authors' initials, 1979	*(c)*
BWE		HHMM+DDMMA	53522	(Rad)	-	1991B3	BECKER R.H.+	1991ApJS...75....1B	Authors' initials	
BWI		NNN EN	112+9	V *	BWI	.	BLANCO B.M.	1992AJ....103.1872B	Blanco, Window I	*(d)*
BYB		NN	70	(IR) in Cha DCld	BYB	.	BAUD B.+	1984ApJ...278L..53B	Three first authors' initials	identif. chart
1C		NN.NN	50	(Rad)	1C	1950R1	RYLE M.+	1950MNRAS.110..508R	1st Cambridge catalog	
2C		NNNN	1936	(Rad)	2C	1955S1	SHAKESHAFT J.R.+	1955MmRAS..67..106S	2nd Cambridge catalog	
3C		NNN	471	(Rad)	3C	1959E1	EDGE D.O.+	1959MmRAS..68...37E	3rd Cambridge catalog	
3C		NNN.N	328	(Rad)	3C	1962B1 A 1962B1 B 1962B1 C 1962B1 D	BENNETT A.S. SMITH H.E.+ SMITH H.E.+ SPINRAD H.+	1962MmRAS..68..163B 1976PASP...88..621S 1980PASP...92..553S 1985PASP...97..932S	3rd Cambridge catalog	*(e)*

(a) BW = RT
Authors use a format FF/NN
(b) BW2 Authors use a format FF/NN
(c) BW79 = (BW)
(d) BWI RR Lyrae (Nos 1-112) and (Nos E1-E9) E for Eclipsing. Identif. charts.
(e) 3C = 3CR

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
4C		DD.NN -DD.NN	1219	(Rad)	4C	1965P2	PILKINTON J.D.H.+	1965MmRAS..69..183P	4th Cambridge catalog	*(a)*
4C		DD.NN -DD.NN	3624	(Rad)	4C	1967G1	GOWER J.F.R.+	1967MmRAS..71...49G	4th Cambridge catalog	*(b)*
4C1	*eq. 4C*	DD.NN -DD.NN	.	(Rad)	4C	1965P2	PILKINTON J.D.H.+	1965MmRAS..69..183P	4th Cambridge catalog	
4C2	*eq. 4C*	DD.NN -DD.NN	.	(Rad)	4C	1967G1	GOWER J.F.R.+	1967MmRAS..71...49G	4th Cambridge catalog	
4CP		DD.NN.N	1551	(Rad)	4CP	1966C1	CASWELL J.L.	.	4th Cambridge catalog, Pencil beam fluxes	
4CT		DD.NN.N	726	(Rad)	p 4CT	1969C1	CASWELL J.L.+	1969MNRAS.145..181C	4th Cambridge catalog, Total flux	*(c)*
4C(T)	*eq. 4CT*	DD.NN.N	.	(Rad)	p 4CT	1969C1	CASWELL J.L.+	1969MNRAS.145..181C	?	
5C	*use 5C1. to 5C20.*	NN.NNNa NN NNNa	.	(Rad)	5C 1 *to* 5C 20	1966K2 1968P2 1969P1 1970W1 1975P1 1977W1 1978P2 1981S1 1982B2 A 1982B2 B 1984G1 1986B4	KENDERDINE S.+ POOLEY G.G.+ POOLEY G.G. WILLSON M.A.G. PEARSON T.J. WAGGETT P.C. PEARSON T.J.+ PEARSON T.J.+ SCHUCH N.J. BENN C.R.+ BENN C.R.+ GREEN D.A.	1966MNRAS.134..189K 1968MNRAS.139..529P 1969MNRAS.144..101P 1970MNRAS.151....1W 1975MNRAS.171..475P 1977MNRAS.181..547W 1978MNRAS.182..273P 1981MNRAS.196..695S 1982MNRAS.200..747B 1988MNRAS.230....1B 1984MNRAS.211..433G 1986MNRAS.222..731B	5th Cambridge catalog	
5C1.		NNN	106	(Rad)	5C 1	1966K2	KENDERDINE S.+	1966MNRAS.134..189K	5th Cambridge catalog, part 1	
5C2.		NNNa	207	(Rad)	5C 2	1968P2	POOLEY G.G.+	1968MNRAS.139..529P	5th Cambridge catalog, part 2	

(a) 4C = 4C1
(b) 4C = 4C2
(c) 4CT = 4C(T)

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
5C3.		NNN	213	(Rad)	5C 3	1969P1	POOLEY G.G.	1969MNRAS.144..101P	5th Cambridge catalog, part 3	
5C4.		NNN	189	(Rad)	5C 4	1970W1	WILLSON M.A.G.	1970MNRAS.151....1W	5th Cambridge catalog, part 4	
5C5.		NNNa	250	(Rad)	5C 5	1975P1	PEARSON T.J.	1975MNRAS.171..475P	5th Cambridge catalog, part 5	
5C6.		NNN	535	(Rad)	5C 6	1978P2	PEARSON T.J.+	1978MNRAS.182..273P	5th Cambridge catalog, part 6	
5C7.		NNN	121	(Rad)	5C 7	1978P2	PEARSON T.J.+	1978MNRAS.182..273P	5th Cambridge catalog, part 7	
5C8.		NNN	163	(Rad)	5C 8	1984G1	GREEN D.A.	1984MNRAS.211..433G	5th Cambridge catalog, part 8	
5C9.		NNN	214	(Rad)	5C 9	1977W1	WAGGETT P.C.	1977MNRAS.181..547W	5th Cambridge catalog, part 9	
5C10.		NNNa	313	(Rad)	5C 10	1981S1	SCHUCH N.J.	1981MNRAS.196..695S	5th Cambridge catalog, part 10	
5C12.		NNNa	691	(Rad)	5C 12	1982B2 A 1982B2 B 1982B2 C	BENN C.R.+ BENN C.R.+ BENN C.R.+	1982MNRAS.200..747B 1988MNRAS.230....1B 1988MNRAS.251..253B	5th Cambridge catalog, part 12	
5C20.		NNNa	222	(Rad)	5C 20	1986B4	BIRKINSHAW M.	1986MNRAS.222..731B	5th Cambridge catalog, part 20	
6C		HHMM+DDMM HHMMSS+DDMMSS	1761	(Rad)	6C	1985B1 A	BALDWIN J.E.+	1985MNRAS.217..717B	6th Cambridge catalog	
6C		. BHHMMSS.s+DDMMSS	22448	(Rad)	6C	1985B1 B 1985B1 C 1985B1 D 1985B1 E 1985B1 F	HALES S.E.G.+ HALES S.E.G.+ HALES S.E.G.+ HALES S.E.G.+ HALES S.E.G.+	1988MNRAS.234..919H 1990MNRAS.246..256H 1991MNRAS.251...46H 1993MNRAS.262.1057H 1993MNRAS.263...25H	6th Cambridge catalog	

Acronym	Usage	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
7C		. HHMMSS.ss+DDMMSS.ss	4723	(Rad)	7C	1990M1 A 1990M1 B	McGILCHRIST M.M.+ McGILCHRIST M.M.+	1990MNRAS.246..110M 1990MNRAS.246..123M	7th Cambridge catalog	
8C		HHMM+DDdA HHMMSS+DDMMSS	$\simeq$ 5000	(Rad)	-	1990R3 A 1990R3 B	REES N. LACY M.+	1990MNRAS.244..233R 1992MNRAS.256..404L	8th Cambridge catalog	
C	*use Case*	NNN	.	Carbon ∗	CASE	1954N1+	NASSAU J.J.+	.	Case univ.	
C	*use Cox*	NNNA	.	∗ in Cluster	NGC 2516	1955C1	COX A.N.	1955ApJ...121..628C	Cox	
C		N	3	WD	-	1960S1 A 1960S1 B	STEPHENSON C.B. STEPHENSON C.B.	1960PASP...72..387S 1962PASP...74..210S	Case univ.	
C		R RA	-	HVC	-	1968H1 A 1968H1 B 1975H1 A	HULSBOSCH A.N.M. GIOVANELLI R.+ HULSBOSCH A.N.M.	1968BAN....20...33H 1973A&AS...12..209G 1975A&A....40....1H	Cloud Complex labelled C	
C		NN	72	∗ in LMC	-	1972A2 A 1972A2 B	ARDEBERG A.+ BRUNET J.P.+	1972A&AS....6..249A 1973A&AS....9..447B	Complementary	
C		HHMM+DDd	-	OCl	C	1979LY A 1979LY B 1979LY C 1987LY A 1987LY B	LYNGA G. LYNGA G. LYNGA G. LYNGA G. JANES K.A.+	. 1982BICDS..23...89L 1983BICDS..24..127L . 1988AJ.....95..771J	Cluster	
C		HHMM+DDd	167	GCl	C	1985WE	WEBBINK R.F.	1985IAUS..113..541W	Cluster	
C	*use Ci 18-*	NNNN	.	PM ∗	Ci 18	1918P2	PORTER J.G.+	1918PCinO..18....4P	Cincinnati obs.	
C	*use ACH* or *Bol*	MMSSDDMMm	.	GCl in M 31	ACH *or* Bol	. .	AURIERE M.+ BATTISTINI P.+	1992A&A...256...95A 1987A&AS...67..447B	Cluster	*(a)*
C84	*eq. VS*	NNN	.	(X) in M 31	C84	1984C1	CRAMPTON D.+	1984ApJ...284..663C	Crampton, 1984	

(a) C A very bad format where the hours (00^h) and the declination sign (+) are omitted.

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
C*	*eq. CCS*	NNNN	.	Carbon *	`C*`	`1973S3+` `1977A1 F`	STEPHENSON C.B. ALKSNIS A.+	. .	Carbon *	
CA	*eq. MQCG*	HHMM+DDd	.	Cluster of G	`p CA`	`1975M2`	MELNICK J.+	`1975ApJ...198..L97M`	Calan obs.	
CA	*eq. Calar Alto*	N	.	(IR)	`-`	`1976W1`	WEINBERGER R.+	`1976A&A....48..327W`	Calar Alto obs.	

CAFS		NNNN	1110	A-F *	`CASE A-F`	`1988S2 A`
						`1988S2 B`
						`1988S2 C`
							SANDULEAK N.
							PESCH P.+
							MacCONNELL D.+
								`1988ApJS...66..309S`
								`1989ApJS...71..549P`
								`1993ApJS...86..453M`
									Case univ., A and F *	*(a)*

CAL		NN A	97+7	(Soft X) in LMC	`p CAL`	`1981L2 A` `1981L2 B`	LONG K.S.+ COWLEY A.P.+	`1981ApJ...248..925L` `1984ApJ...286..196C`	Columbia Astrophys. Laboratory	*(b)*
CALAN	*eq. SER*	FFF-NNN	.	Cluster of G + G	`SER`	`1974S1`	SERSIC J.L.	`1974Ap&SS..28..365S`	Calan obs.	
Calar Alto		N	2	(IR)	`-`	`1976W1`	WEINBERGER R.+	`1976A&A....48..327W`	Calar Alto obs.	*(c)*
CaPa		N	1	PN	`-`	.	CALOI V.+	`1974A&A....36..139C`	Authors' names	*(d)*
Car	*use CarC*	NNN	.	Carbon *	`-`	`1989A1`	AARONSON M.+	`1989ApJS...70..637A`	Carina	
CarC		NNN	108	Carbon *	`-`	`1989A1`	AARONSON M.+	`1989ApJS...70..637A`	Carina, Carbon *	*(e)*
CASE	*eq. Case*	NNN	.	Carbon *	`CASE`	`1954N1+`	NASSAU J.J.+	.	Case univ.	

Case		NNN	749	Carbon *	`CASE`	`1954N1 A`
						`1954N1 B`
						`1954N1 C`
							NASSAU J.J.+
							NASSAU J.J.+
							BLANCO V.M.
								`1954ApJ...120..129N`
								`1957ApJ...125..195N`
								`1958ApJ...127..191B`
									Case univ.	*(f)*

(a) CAFS = (A-F) = CASE A-F
(b) CAL = LHG
See the remark for LMC X- ; The 7 sources with format A were discovered in ref. 1981L2 B. Sources C and D are marginal unconfirmed HRI detections.
(c) Calar Alto = CA
(d) CaPa = CiPg
= PK 065-27 2, rejected as PN in ref. 1992AO
(e) CarC = (Car)
(f) Case = (C) = CASE

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
CASE A-F	*eq. CAFS*	NNNN	.	A-F *	CASE A-F	1988S2+	SANDULEAK N.	.	Case univ.	
CASEG		NNN	1351	Blue or Em. G	CASG	1983P2 A	PESCH P.+	1983ApJS...51..171P	Case univ., G	*(a)*
						1983P2 B	SANDULEAK N.+	1984ApJS...55..517S		
						1983P2 C	PESCH P.+	1986ApJS...60..543P		
						1983P2 D	SANDULEAK N.+	1987ApJS...63..809S		
						1983P2 F	PESCH P.+	1988ApJS...66..297P		
						1983P2 G	PESCH P.+	1989ApJS...70..163P		
						1983P2 H	SANDULEAK N.+	1989ApJS...70..173S		
						1983P2 I	SANDULEAK N.+	1990ApJS...72..291S		
						1983P2 J	PESCH P.+	1991ApJS...76.1043P		
						1983P2 K	STEPHENSON C.B.+	1992ApJS...82..471S		
CASG	*eq. CASEG*	NN	.	Blue or Em. G	CASG	1983P2+	PESCH P.+	.	Case univ., G	
CB	*use CB59*	NNN	.	A *	-	1959B2	BERTAUD C.	1959JO.....42...45B	Authors' initials	
CB	*use [CB88]*	NNN	.	MCld	[CB88]	1988C3	CLEMENS D.P.+	1988ApJS...68..257C	Authors' initials	
CB59		NNN	476	A *	-	1959B2	BERTAUD C.	1959JO.....42...45B	Authors' initials, 1959	*(b)*
[CB88]		NNN	248	MCld	[CB88]	1988C3	CLEMENS D.P.+	1988ApJS...68..257C	Authors' initials, 1988	*(c)*
Cb		NN	18	G in Cluster of G	-	.	CORBELLI E.+	1991ApJ...370...49C	Cancer cl., bright	
CBS		NNN	418	Blue *	CBS	1983P2 A	PESCH P.+	1983ApJS...51..171P	Case univ., Blue *	
						1983P2 B	SANDULEAK N.+	1984ApJS...55..517S		
						1983P2 C	PESCH P.+	1986ApJS...60..543P		
						1983P2 E	WAGNER R.M.+	1988ApJ...328..213W		
						1983P2 F	PESCH P.+	1988ApJS...66..297P		
						1983P2 G	PESCH P.+	1989ApJS...70..163P		
						1983P2 H	SANDULEAK N.+	1989ApJS...70..173S		
						1983P2 I	SANDULEAK N.+	1990ApJS...72..291S		
						1983P2 J	PESCH P.+	1991ApJS...76.1043P		
						1983P2 K	STEPHENSON C.B.+	1992ApJS...82..471S		

(a) CASEG = CASG = (CG)
(b) CB59 = (CB)
(c) [CB88] = (CB)

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
[CBW93]		NNN	352	G	`[CBW93]`	.	COLLESS M.+	`1993MNRAS.262..475C`	Three first authors' initials, 1993	*(a)*
CC	*use Ci 20-*	NNNN	.	PM *	`Ci 20`	`1930P1`	PORTER J.G.+	`1930PCinO..20...32P`	Cincinnati obs.	
CCCGS	*catalog: use CGCS*	NNNN	.	Carbon *	`CGCS`	`1989ST`	STEPHENSON C.B.	.	Catalog of Cool Carbon Gal. *	
CCCS	*catalog: use CCS*	NNNN	.	Carbon *	`C*`	`1973S3+` `1977A1 F`	STEPHENSON C.B. ALKSNIS A.+	. .	Catalog of Cool Carbon *	
CCDM		HHMMm+DDMM	.	Double *	`CCDM`	.	DOMMANGET J.	`1983BICDS..24...83D`	Catalog of Comp. of Double and Mult. *	*(b)*
CCGCS	*catalog: use CGCS*	NNNN	.	Carbon *	`CGCS`	`1989ST`	STEPHENSON C.B.	.	Catalog of Cool Gal. Carbon *	
[CCH92]		. HHMM.m+DDMM	488+14+8	Poss. QSO + Em. G + WD	`-`	.	CRAMPTON D.+	`1992AJ....104.1706C`	Three first authors' initials, 1992	

CCS		NNNN	3324	Carbon *	`C*`	`1973S3 A`
						`1973S3 B`
						`1973S3 C`
						`1973S3 D`
						`1977A1 F`
							STEPHENSON C.B.
							STEPHENSON C.B.
							WILLEMS F.J.
							WILLEMS F.J.
							ALKSNIS A.+
								`1973PW&SO...1....4S`
								`1985AJ.....90..784S`
								`1988A&A...203...51W`
								`1988A&A...203...65W`
								.
									Cool Carbon *	*(c)*

[CCS85]		NNN	109	Poss. GCl in M 31	`[CCS85]`	.	CRAMPTON D.+	`1985ApJ...288..494C`	Three first authors' initials, 1985	Table 2 *(d)*
[CCS92]		HHMM+DDA HHMM+DDdA	56	Exgl (Rad)	`[CCS92]`	.	CLEGG A.W.+	`1992ApJ...386..143C`	Three first authors' initials, 1992	

(a) [CBW93] Table 2: 352 G among (Nos 1-801)
(b) CCDM The format, based on J2000 coordinates, should be understood as **J**HHMMm+DDMM
(c) CCS = C* = (CNUM)
Catalog: (Nos 1-3219) ; (Nos 3220-3324) are numbered by us (ref. B), and also found in litterature as NC NNN.
(d) [CCS85] = (D) = DAO

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
CD		+DD NNNNN	≃ 515000	*	CD	1892T1 A 1892T1 B 1892T1 C 1892T1 D 1892T1 E	THOME J.M. THOME J.M. THOME J.M. THOME J.M. PERRINE C.D.	1892RNAO...16....1T 1894RNAO...17....1T 1900RNAO...18....1T 1914RNAO...21....1T 1932RNAO...21....1P	Cordoba obs., Durchmusterung	*(a)*
Cd		NNN	763	* in Cluster	-	1971C2	CUDWORTH K.M.	1971AJ.....76..475C	Author's name	
CDM	*eq. CD*	+DD NNNNN	.	*	CD	1892T1+	THOME J.M.	.	Cordoba obs., Durchmusterung	
CDN		-	1	Bright-dark N	-	1974F3	FITZGERALD M.P.	1974A&A....32..465F	Comparison Dark Nebula	
[CDS90]		RNNN	354	(Rad)	-	.	CONDON J.J.+	1990AJ.....99.1071C	Authors' initials, 1990	Table II
[CDS90]		NNN	130	G	-	.	CONDON J.J.+	1990AJ.....99.1071C	Authors' initials, 1990	Table III
CED		NNN	215	H II and RFN	p CED	1946C1	CEDERBLAD S.	.	Author's name	*(b)*
Cederblad	*eq. CED*	NNN	.	H II and RFN	p CED	1946C1	CEDERBLAD S.	.	Author's name	
CeGi		NN	47	PN	PN Y-C	1973C1 A 1973C1 B	CESCO C.U.+ CESCO C.U.+	1973A&AS...11..335C 1984BAAA...28..159C	Authors' names	PN Nmcl *(c)*
CEL		NNNN	5068	UV Obj.	CEL	1973D3	DAVIS R.J.+	1973SAOSR.350.....D	Celescope catalog	*(d)*
Cen	*use CenC*	NNN	.	Carbon *	-	1989A1	AARONSON M.+	1989ApJS...70..637A	Centaurus	
CenC		NNN	100	Carbon *	-	1989A1	AARONSON M.+	1989ApJS...70..637A	Centaurus, Carbon *	*(e)*
CF		NNNNN	20554	*	CF	1939S2	SPENCER-JONES H.+	.	Cape obs., Faint *	

(a) CD = CDM = COD = CoD = DM
(b) CED = Cederblad
(c) CeGi = (CG) = YC = Y-C
(d) CEL = (UV)
(e) CenC = (Cen)

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
Cf		NN	34	G in Cluster of G	-	.	CORBELLI E.+	1991ApJ...370...49C	Cancer cl., faint	
CfA	*eq. GHCG*	NNN	.	Group of G	GHCG	1983G1	GELLER M.J.+	1983ApJS...52...61G	Center for Astrophysics	
CFN		NN	35	Nova in M 31	-	.	CIARDULLO R.+	1987ApJ...318..520C	Three first authors' initials	Table 3
1CG		LLL+BB	13	(Gamma)	1CG	.	PINKAU K.	1979Natur.277...17P	1st COS B, Gamma	*(a)*
2CG		LLL+BB	25	(Gamma)	2CG	1981S2 A 1981S2 B	SWANENBURG B.N.+ BIGNAMI G.F.+	1981ApJ...243L..69S 1983ARA&A..21...61B	2nd COS B, Gamma	*(b)*
CG	*use 1CG*	LLL+BB	.	(Gamma)	1CG	.	PINKAU K.	1979Natur.277...17P	2nd COS B, Gamma	
CG	*use 2CG*	LLL+BB	.	(Gamma)	2CG	1981S2+	SWANENBURG B.N.+	.	2nd COS B, Gamma	
CG	*use ACG*	HHMM+DD	.	Compact G	ACG	1975A3	ARP H.+	1975ApJ...197..291A	Compact G	
CG		NNA	38	RFN	p CG	1976H1 A 1976H1 B 1976H1 C 1976H1 D 1976H1 E	HAWARDEN T.G.+ SANDQVIST Aa. ZEALEY W.J.+ REIPURTH B. SRIDHARAN T.K.	1976MNRAS.175..P19H 1976MNRAS.177..P69S 1983ApL....23..119Z 1983A&A...117..183R 1992JApA...13..217S	Cometary Globule	
CG	*use CASEG*	NNN	.	G	CASG	1983P2+	PESCH P.+	.	Case univ., G	
CG	*use CeGi*	NN	.	PN	PN Y-C	1973C1+	CESCO C.U.+	.	Authors' initials	
CG	*use Y-C*	NN	.	Very Red *	-	1973C1+	CESCO C.U.+	.	Authors' initials	
CGCG	*catalog: use Z*	FFF-NNN FFF-NNN/N HHMM.m+DDMM	.	G	Z	1960Z1+	ZWICKY F.+	.	Catalog of G and Clusters of G	
CGCG	*catalog: use ZWCL*	HHMM+DDMM FFF-NN	.	Cluster of G	ZwCl	1960Z1+	ZWICKY F.+	.	Catalog of G and Clusters of G	

(a) 1CG = (CG)
(b) 2CG = (CG)

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
CGCS		NNNN	5987	Carbon *	`CGCS`	`1989ST`	STEPHENSON C.B.	.	Cool Gal. Carbon *	
CGG* NGP	*eq. CG-NGP*	NNN	.	Dw.	`CGG* NGP`	`1988C2`	CORBALLY C.J.+	`1988AJ.....95..745C`	Authors' initials, G *, North Gal. Pole	
CGG* SGP	*eq. CG-SGP*	NNN	.	Dw.	`CGG* SGP`	`1988C1`	CORBALLY C.J.+	`1988AJ.....95..739C`	Authors' initials, G *, South Gal. Pole	
CGHA	*eq. CgHα*	NN	.	Em. *	`EM* CGHA`	`1976M1`	McCARTHY M.F.	`1976VatOP...1..213M`	Castel Gandolfo, Hα	
CgHα		NN	81	Em. *	`EM* CGHA`	`1976M1`	McCARTHY M.F.	`1976VatOP...1..213M`	Castel Gandolfo, Hα	*(a)*
CGMW1-		NNNN	2411	G	`CGMW 1-`	`1990S2 A`	SAITO M.+	`1990PASJ...42..603S`	Candidate G behind the Milky Way, list 1	
CGMW2-		NNNN	4633	G	`CGMW 2-`	`1990S2 B`	SAITO M.+	`1990PASJ...43..449S`	Candidate G behind the Milky Way, list 2	
CG-NGP		NNN	192	Dw.	`CGG* NGP`	`1988C2`	CORBALLY C.J.+	`1988AJ.....95..745C`	Authors' initials, North Gal. Pole	*(b)*
CGO		NNN	664	O *	`p CGO`	`1974C2`	CRUZ-GONZALEZ C.+	`1974RMxAA...1..211C`	Cruz-Gonzales, O *	
CG-SGP		NNN	214	Dw.	`CGG* SGP`	`1988C1`	CORBALLY C.J.+	`1988AJ.....95..739C`	Authors' initials, South Gal. Pole	*(c)*
CH	*use [CHH92]*	NNN	.	* in RMC 136	`[CHH92]`	.	CAMPBELL B.+	`1992AJ....104.1721C`	Campbell + Hunter + ...	
CH	*use [CHH92]*	NNNN	.	* outside RMC 136	`[CHH92]`	.	CAMPBELL B.+	`1992AJ....104.1721C`	Campbell + Hunter + ...	
CHA	*use TonS*	NNN	.	Blue * near SGP	`TON S`	`1958C1`	CHAVIRA E.	`1958BITon...2H..15C`	Author's name	

(a) CgHα = CGHA
(b) CG-NGP = CGG* NGP
(c) CG-SGP = CGG* SGP

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
CHAG	*eq. ChaG*	NN	.	G	-	1989C2	CHAVIRA E.	1989RMxAA..17..109C	Author's name, G	
ChaG		NN	24	G	-	1989C2	CHAVIRA E.	1989RMxAA..17..109C	Author's name, G	*(a)*
Chavira	*use TonS*	NNN	.	Blue * near SGP	TON S	1958C1	CHAVIRA E.	1958BITon...2H..15C	Author's name	
[CHH92]		NNN	214	* in RMC 136	[CHH92]	. .	CAMPBELL B.+	1992AJ.104.1721C 1992AJ....104.1721C	Three first authors' initials, 1992	*(b)*
[CHH92]		NNNN	801	* outside RMC 136	[CHH92]	. .	CAMPBELL B.+	1992AJ.104.1721C 1992AJ....104.1721C	Three first authors' initials, 1992	*(c)*
CHX		NN NNa	22 + 32	(Soft X) (Opt)	p CHX	1989F2	FEIGELSON E.D.+	1989ApJ...338..262F	Chamaeleon, X-ray source	
CHXR		NN	89	(X)	CHXR	.	FEIGELSON E.D.+	1993ApJ...416..623F	Chamaeleon, X-ray source, Rosat satellite	*(d)*
Ci 18	*eq. Ci 18-*	NNNN	.	PM *	Ci 18	1918P2	PORTER J.G.+	1918PCinO..18....4P	Cincinnati obs.	
Ci 18-		NNNN	3164	PM *	Ci 18	1918P2	PORTER J.G.+	1918PCinO..18....4P	Cincinnati obs.	*(e)*
Ci 20	*eq. Ci 20-*	NNNN	.	PM *	Ci 20	1930P1	PORTER J.G.+	1930PCinO..20...32P	Cincinnati obs.	
Ci 20-		NNNN	1474	PM *	Ci 20	1930P1	PORTER J.G.+	1930PCinO..20...32P	Cincinnati obs.	*(f)*
CIG		NNNN	1051	G	p KIG	1973K3	KARACHENTSEVA V.E.	1973SoSAO...8....3K	Catalog of Isolated G	*(g)*

(a) ChaG = CHAG
(b) [CHH92] = (CH)
Table 2: (Nos 1-214)
(c) [CHH92] = (CH)
The format NNNN is always a 4 digits format, table 3: (Nos 5001-5104), table 4: (Nos 6001-6477), table 5: (Nos 7001-7162), table 6: (Nos 8001-8058), first digit 5 to 8 for * found on PC5 to 8.
(d) CHXR Tables 2,3. Identif. charts
(e) Ci 18- = (C) = Ci 18 = Cin 18-
(f) Ci 20- = (CC) = Ci 20 = Cin 20-
(g) CIG = K73 = (KAR) = KIG

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
CIII		ANNN	40/956	Red * in LMC	-	1987M2	MOULD J.+	1987ApJ...321..156M	Constellation III (roman num.)	
Cin 18-	*eq. Ci 18-*	NNNN	.	PM *	Ci 18	1918P2	PORTER J.G.+	1918PCinO..18....4P	Cincinnati obs.	
Cin 20-	*eq. Ci 20-*	NNNN	.	PM *	Ci 20	1930P1	PORTER J.G.+	1930PCinO..20...32P	Cincinnati obs.	
CiPg	*eq. CaPa*	N	.	PN	-	.	CALOI V.+	1974A&A....36..139C	Authors' names	
Cir	*use CirC*	NN	.	Carbon *	-	1989A1	AARONSON M.+	1989ApJS...70..637A	Circinus	
CirC		NN	39	Carbon *	-	1989A1	AARONSON M.+	1989ApJS...70..637A	Circinus, Carbon *	*(a)*
CIT		NN	14	*	CIT	1966U1	ULRICH B.T.+	1966ApJ...146..288U	California Inst. of Technology	
CK		NN	13	* in Serpens MCld	CK	.	CHURCHWELL E.+	1986ApJ...300..729C	Authors' initials	
CL		N	7	(Rad)	-	1973K2	KEEN N.J.+	1973A&A....28..197K	Cygnus Loop	
CL		HHMM+DD	590	(Rad)	-	1975V3	VINER M.R.+	1975AJ.....80..931V	Clark Lake obs.	
Cl	*use HMS*	HHMM+DDMMA	.	Cluster of G	HMS	1956H1+	HUMASON M.L.+	.	Cluster	
Cloud		NA	5	Cld	-	1968H2	HEILES C.	1968ApJ...151..919H	Type of object	
Cloud		A	7	Cld	-	1969V1	VERSCHUUR G.L.	1969ApL.....4...85V	Type of object	
Cloud		NN	15	Cld	-	1972S1	SCOVILLE N.Z.+	1972ApJ...172..335S	Type of object	
Cloud		NN	14	Cld	-	1973H2	HEILES C.	1973ApJ...183..441H	Type of object	
CLS		NNNA	132	Red *	CLS	1988S1	SANDULEAK N.+	1988ApJS...66..387S	Case univ., Late *	
CM	*use [CM81]*	NN	.	WR in M 33	Cl* NGC 598 CM	.	CONTI P.S.+	1981ApJ...249..471C	Authors' initials	
[CM81]		NN	14	WR in M 33	Cl* NGC 598 CM	.	CONTI P.S.+	1981ApJ...249..471C	Authors' initials, 1981	*(b)*

(a) CirC = (Cir)
(b) [CM81] = (CM)

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
[CM84]		NNNA	166	(Rad)	`[CM84]`	.	CONDON J.J.+	`1984AJ.....89..610C`	Authors' initials, 1984	
[CM92]		WNNa	24	SuperCl of G	-	.	CAPPI A.+	`1992A&A...259..423C`	Authors' initials, 1992	*(a)*
CMC		NNNNNN	$\simeq$ 800000	*	`CMC`	.	-	`1993BICDS..42....5F`	Carlsberg Meridian Catalogues	*(b)*
Cn1-		N	6	PN	`PN Cn 1-`	.	CANNON A.J.	`1921HarCi.224....1C`	Author's name, list 1	PN Nmcl *(c)*
Cn2-		N	1	PN	`PN Cn 2-`	.	CANNON A.J.	`1923BHarO.784....1C`	Author's name, list 2	*(d)*
Cn3-		N	1	PN	`PN Cn 3-`	.	CANNON A.J.	`1926BHarO.837....2C`	Author's name, list 3	*(e)*
Cn 1-	*eq. Cn1-*	N	.	PN	`PN Cn 1-`	.	CANNON A.J.	`1921HarCi.224....1C`	Author's name, list 1	
Cn 2-	*eq. Cn2-*	N	.	PN	`PN Cn 2-`	.	CANNON A.J.	`1923BHarO.784....1C`	Author's name, list 2	
Cn 3-	*eq. Cn3-*	N	.	PN	`PN Cn 3-`	.	CANNON A.J.	`1926BHarO.837....2C`	Author's name, list 3	
CnMy		NN	1	PN	`PN CnMy`	.	CANNON A.J.+	`1938BHarO.908...20C`	Authors' names	*(f)*
CNUM	*use CCS*	NNNN	.	Carbon *	`C*`	`1973S3+` `1977A1 F`	STEPHENSON C.B. ALKSNIS A.+	. .	Catalog Number	
CO		LLL.ℓ+BB.b	.	MCld	`CO`	.	-	.	CO molecular cloud	Systematic
COD	*eq. CD*	+DD NNNNN	.	*	`CD`	`1892T1+`	THOME J.M.	.	Cordoba Obs., Durchmusterung	

(a) [CM92] = (CM)
Table 2: (N1-N11) Northern clusters, Table 3: (S1-S13) Southern clusters
(b) CMC Six catalogues (CMC1 to CMC6), available on magnetic tape.
(c) Cn1- = Cn 1-
(d) Cn2- = Cn 2-
Cn2-1 = PN G356.2-04.4 = PK 356-4 1
(e) Cn3- = Cn 3-
Cn3-1 = PN G038.2+12.0 = PK 038+12 1
(f) CnMy = CnMy 17 = PK 001-06 1 ; PN excerpted from a list of 21 objects, rejected as a PN in ref. 1992AO

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
CoD	*eq. CD*	+DD NNNNN	.	*	`CD`	`1892T1+`	THOME J.M.	.	Cordoba obs., Durchmusterung	
Collinder		NNN	471	OCl	`Cl Collinder`	`1931C1`	COLLINDER P.	.	Author's name	C Nmcl *(a)*
CoMaC		N	3	Poss. PN	`-`	`1974C1 G`	COYNE G.V.+	`1983VatOP...2...73C`	Authors' names	PN Nmcl *(b)*
Coo		NNN	.	Double *	`** COO`	.	-	.	Cordoba obs.	Obsolete *(c)*
CoO	*eq. Coo*	NNN	.	Double *	`** COO`	.	-	.	Cordoba Obs.	
Cor		NNN	.	Double *	`-`	.	-	.	Cordoba obs.	Obsolete. IDS Nmcl
Cornell		N	2	(Gamma)	`-`	.	-	.	Cornell univ.	
COU		NNNN	.	Double *	`** COU`	.	-	.	Author's name	IDS Nmcl *(d)*
COU		104		H II	`-`	`1951C1`	COURTES G.	.	Author's name	
Couteau	*eq. COU*	NNNN	.	Double *	`** COU`	.	COUTEAU	.	Author's name	
Cox		NNNA	116	* in Cluster	`NGC 2516`	`1955C1`	COX A.N.	`1955ApJ...121..628C`	Author's name	*(e)*
CP	*use CPD*	-DD NNNNN	.	*	`CPD`	`1896G1+`	GILL D.+	.	Cape obs., Photographic	
CP	*use PSR*	HHMM+DD	.	PSR	`PSR`	`1976TD`	TERZIAN Y.+	`1976Ap&SS..44..479T`	Cambridge obs., Pulsar	Superseded by PSR
CPC		NNNA	258	IRAS G	`-`	.	VAN DRIEL W.+	`1993A&AS..101..207V`	Chopped Photometric Channel	
CPC		VV NNNN	.	*	`CPC`	.		.	Cape obs., Photographic Catalog	Cape Annals 17–22

(a) Collinder = (CR) = (Cr) = (LK) = LUNDMARK = Lundmark
(b) CoMaC CoMaC 1 = VES 866, CoMaC 3 = VES 905 are poss. PN, CoMaC 2 is rejected as a PN in ref. 1992AO.
(c) Coo = CoO
Supersedes Cor, IDS Nmcl
(d) COU = Couteau
(e) Cox = (C)

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
CPD		-DD NNNNN	454875	*	`CPD`	1896G1 A 1896G1 B 1896G1 C 1896G1 D	GILL D.+ GILL D.+ GILL D.+ GILL D.	1896AnCap...3....1G 1897AnCap...4....1G 1900AnCap...5....1G 1903AnCap...9....1G	Cape obs., Photographic Durchmusterung	*(a)*
CPG	*eq. Karachentsev*	NNN	.	Pair of G	`p KARA`	1972K2	KARACHENTSEV I.D.	1972SoSAO...7....1K	Catalog of Pairs of G	
CPG	*eq. Karachentsev*	NNNa	.	G in pair	`p KARA`	1972K2	KARACHENTSEV I.D.	1972SoSAO...7....1K	Catalog of Pairs of G	
CPGA	*catalog: use AM*	HHMM-DD<u>M</u>	.	G	`AM`	1987AM	ARP H.C.+	.	Catalogue of Southern Peculiar G	
3CR	*eq. 3C*	NNN.N	.	(Rad)	`3C`	1962B1+	BENNETT A.S.	.	3rd Cambridge catalog, Revised	
CR		-	562	(Rad)	-	1966C2	CROWTHER J.H.	.	Author's name	
CR		NN	47	G	`p CR`	1971C1	CHINCARINI G.+	1971ApJ...168..321C	Authors' initials	
CR	*use Collinder*	NNN	.	OCl	`Cl Collinder`	1931C1	COLLINDER P.	.	Author's name	
Cr	*use Collinder*	NNN	.	OCl	`Cl Collinder`	1931C1	COLLINDER P.	.	Author's name	
CrA		N	3	(X)	`NAME CrA`	.	WALTER F.M.	1986ApJ...306..573W	Corona Australis	
[CRB93]		MMSS.s-MMSS	91	* in ρ Oph DCld	-	.	COMERON F.+	1993ApJ...416..185C	Three first authors' initials, 1993	*(b)*
CRBB		N	1	PN	-	.	McCARTHY J.K.+	.	Four first authors' initials	*(c)*
CRI		NNN	130	(Rad)	-	1969A1	ANDRIEVSKI A.E.+	1969ATsir.494....1A	Crimee?	
CRL	*eq. AFGL*	NNNN	.	(IR)	`AFGL`	1975W1 1976P1+	WALKER R.G.+ PRICE S.D.+	. .	Cambridge Research Lab.	*(d)*

(a) CPD = (CP) = DM
(b) [CRB93] This format is to be avoided: offset position relative to RA=16h, Dec=-24 °
(c) CRBB CRBB 1 = PN G359.2-33.5
(d) CRL First defined in ref. 1975W1. The confirmed sources are in the AFGL catalogue (ref. 1976P1) with the same number.
CRL 618 = PN G166.4-06.5 = PK 166-06 1 (PN) and CRL 2688 = PK 080-06(1) (Poss. PN) ; CRL 2688 is also called the Egg Nebula

Acronym	Usage	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
Cru	*use CruC*	NN	.	Carbon *	-	1989A1	AARONSON M.+	1989ApJS...70..637A	Crux	
CruC		NN	67	Carbon *	-	1989A1	AARONSON M.+	1989ApJS...70..637A	Crux, Carbon *	*(a)*
CRX	*eq. VS*	NNN	.	(X) in M 31	C84	1984C1	CRAMPTON D.+	1984ApJ...284..663C	Crampton, X source	
CS	*use CTCS*	FFFFF-NN	.	AB *	CTCS	1982P2+	PIER J.R.	.	Curtis Schmidt telescope	
CS		N	3	(Rad) in Orion	NAME CS	.	MUNDY L.G.+	1986ApJ...304L..51M	Continuum Source	
[CS92]		NN	14	*	[CS92]	.	CERNIS K.+	1992BaltA...1..163C	Authors' initials, 1992	
C-S		NN	21	* near HH	NAME C-S	1980C2	COHEN M.+	1980MNRAS.191..165C	Authors' initials	*(b)*
CSI		+DD-HHMMm N +DD NNNNN NN	434946	*	CSI	1973JB A 1973JB B 1983E1	JUNG J.+ OCHSENBEIN F.+ EGRET D.	1973BICDS...4...27J 1981A&AS...43..259O 1983BICDS..24..109E	Catalog of Stellar Identif.	
CSO		NNN	1121	Blue Obj.	CSO	1983P2 A 1983P2 B 1983P2 C 1983P2 F 1983P2 G 1983P2 H 1983P2 I 1983P2 J 1983P2 K	PESCH P.+ SANDULEAK N.+ PESCH P.+ PESCH P.+ PESCH P.+ SANDULEAK N.+ SANDULEAK N.+ PESCH P.+ STEPHENSON C.B.+	1983ApJS...51..171P 1984ApJS...55..517S 1986ApJS...60..543P 1988ApJS...66..297P 1989ApJS...70..163P 1989ApJS...70..173S 1990ApJS...72..291S 1991ApJS...76.1043P 1992ApJS...82..471S	Case univ., Stellar Obj.	
CSS	*use CTCS*	FFFFF-NN	.	AB *	CTCS	1982P2+	PIER J.R.	.	Curtis Schmidt, Survey	
CSS		NNNN	1347	S *	CSS	1984ST A	STEPHENSON C.B.	.	Catalog of S *	*(c)*

(a) CruC = (Cru)
(b) C-S The 1st star in table 1, supposed to excite HH1, has been studied by Cohen+Schwartz 1979, Ap. J. Lett. 233, L77-L80 and plate 2, and by Mundt+Hartman 1983, Ap. J. 268, 766-777 and named the Cohen-Schwartz star (C-S).
See also ref. 1974H2 F
(c) CSS = CSS1

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
CSS1	*eq. CSS*	NNNN	.	S *	`CSS`	`1984ST A`	STEPHENSON C.B.	.	Catalog of S *, list 1	
CSS2		NN	75	S *	`CSS2`	`1984ST B`	STEPHENSON C.B.	`1990AJ....100..569S`	Catalog of S *, complementary list 2	
CSV		NNNNNN	12000	Susp. V *	`CSV`	`1951KP A` `1951KP B`	KUKARKIN B.V.+ KUKARKIN B.V.+	. .	Catalog of Suspected Variable stars	*(a)*
CT		NN	27	G	-	`1973T1`	TIFFT W.G.+	`1973ApJ...181...15T`	Coma, Tifft	
CT		NNN	373	UV Exc. Obj. near SGP	`[CT83]`	`1983C2`	CAMPUSANO L.E.+	`1983AJ.....88.1304C`	Authors' initials	*(b)*
[CT83]	*eq. CT*	NNN	.	UV Exc. Obj. near SGP	`[CT83]`	`1983C2`	CAMPUSANO L.E.+	`1983AJ.....88.1304C`	Authors' initials, 1983	
CTA		NNN	106	(Rad)	`CTA`	`1960H1`	HARRIS D.E.+	`1960PASP...72..237H`	Caltech obs., list A	
CTB		NNN	110	(Rad)	`CTB`	`1960W1`	WILSON R.W.+	`1960PASP...72..331W`	Caltech obs., list B	*(c)*
CTC		.		(Rad)	-	.	-	.	Caltech obs., list C	Obsolete *(d)*

CTCS		FFFFF-NN	.	*	`CTCS`	`1982P2 A`
						`1982P2 B`
						`1982P2 C`
						`1982P2 D`
						`1982P2 E`
						`1982P2 F`
						`1982P2 G`
						`1982P2 H`
						`1982P2 I`
							PIER J.R.
							PIER J.R.
							BEERS T.C.+
							BEERS T.C.+
							DOINIDIS S.P.+
							PRESTON G.W.+
							DOINIDIS S.P.+
							BEERS T.C.+
							BEERS T.C.+
								`1982AJ.....87.1515P`
								`1983ApJS...53..791P`
								`1985AJ.....90.2089B`
								`1988ApJS...67..461B`
								`1990PASP..102.1392D`
								`1991ApJS...76.1001P`
								`1991PASP..103..973D`
								`1992AJ....103..267B`
								`1992AJ....103.1987B`
									Cerro Tololo obs., Curtis Schmidt telescope	*(e)*

(a) CSV = KZP
(b) CT = [CT83]
(c) CTB = (WB)
(d) CTC Private list
(e) CTCS = (BPS) = (CS) = (CSS)

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
CTD		NNN	143	(Rad)	`CTD`	`1965K1`	KELLERMANN K.I.+	`1965POVRO...12...1K`	Caltech obs., list D	
[CTF93]		NNN	312	(IR) in LDN 1641	`[CTF93]`	. .	CHEN H.+ CHEN H.+	`1993ApJ...416..235C` `1994ApJS...90..149C`	Authors' initials,1993	*(a)*
CTIO	*use Tol*	HHMM+DDd	.	Em. G + QSO	`Tol`	`1976S4`	SMITH M.G.+	`1976ApJS...32..217S`	Cerro Tololo International Obs.	*(b)*
CTS		N	1	PN	`-`	.	CAPELLARO E.+	`1987IAUS..131...61C`	Authors' initials	*(c)*

CTS		NN	70	Seyf. G	`CTS`	`1989M2 A`
						`1989M2 B`
						`1989M2 D`
							MAZA J.+
							MAZA J.+
							MAZA J.+
								`1989ApJS...69..349M`
								`1989ApJS...69..353M`
								`1992RMxAA..24..147M`
									Calan Tololo Survey	

CTS		NNNN	42	H II G	`CTS`	`1989M2 C`	MAZA J.+	`1991A&AS...89..389M`	Calan Tololo Survey	*(d)*
CTS		NNN	200	QSO	`CTS`	`1989M2 E`	MAZA J.+	`1993RMxAA..25...51M`	Calan Tololo Survey	*(e)*
CTSS		N	4	PN	`p CTSS`	.	CAPPELLARO E.+	`1990A&AS...86..503C`	Authors' initials	*(f)*

CUL		HHMM+DD	2068	(Rad)	`-`	`1973S1 A`
						`1973S1 B`
						`1973S1 C`
							SLEE O.B.+
							SLEE O.B.+
							SLEE O.B.
								`1973AuJPS..27....1S`
								`1975AuJPS..36....1S`
								`1977AuJPS..43....1S`
									Culgoora obs.	

CV		.		V $*$	`-`	.	-	.	Cordoba obs., Variable	V $*$ Nmcl
CW		HHMM+DDd	-	(Opt)	`NAME CW`	`1982S1`	SHORE S.N.	`1982PASP...94..682S`	Case univ., Western reserve	*(g)*

(a) [CTF93] First ref.: N=224, second ref.: N=59, betw. Nos 1-312.
(b) CTIO CTIO 1230-275 = Tol 26 = Tololo 1230-275 = PN G298.0+34.8 = PK 298+34 1
(c) CTS CTS 1 = PN G019.8+05.6
(d) CTS format: (Nos 1001-1042)
(e) CTS format: (Nos 201-400)
(f) CTSS CTSS 1 = PK 043+02 1 ; CTSS 2 = PN G 044.1+05.8 = PK 044+05 2 ; CTSS 3 = SH 2-78 = PN G 046.8+03.8 = PK 046+03 1 ; CTSS 4 = PN G 046.8+02.9 = PK 046+02 1
(g) CW Rounded, not truncated coord.

Acronym	Usage	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
CWRU		N	1	(Gamma)	-	.	-	.	Case Western Reserve Univ.	
CXH		N	6	(X)	-	1991W1	WENDKER H.J.+	1991A&A...241..551W	Cygnus X, Hole	
CXR		NN	13	(X)	-	1991W1	WENDKER H.J.+	1991A&A...241..551W	Cygnus X, Ridge	
CZ	*eq. Czernic*	NN	.	OCl	Cl Czernik	1966C3	CZERNIK M.	1966AcA....16...93C	Author's name	
Czernic		NN	45	OCl	Cl Czernik	1966C3	CZERNIK M.	1966AcA....16...93C	Author's name	C Nmcl *(a)*
Czernik	*eq. Czernic*	NN	.	OCl	Cl Czernik	1966C3	CZERNIK M.	1966AcA....16...93C	Author's name	
D		NN	12	(Rad)	-	1959D2	DRAKE F.D.	.	Drake	
D	*use DGVW*	NNN	.	(Rad)	-	1965D1	DAVIS M.M.+	1965BAN....18...42D	Davis	
D	*use [CCS85]*	NNN	.	Poss. GCl in M 31	[CCS85]	.	CRAMPTON D.+	1985ApJ...288..494C	Dominion astroph. obs.	
DA		NNN	615	(Rad)	DA	1968G2	GALT J.A.+	1968AJ.....73..135G	Dominion obs., list A	
DAO	*eq. [CCS85]*	NNN	.	Poss. GCl in M 31	[CCS85]	.	CRAMPTON D.+	1985ApJ...288..494C	Dominion Astroph. Obs.	
DB		NNN	124	(Rad)	DB	1968B5	BRIDLE A.H.+	1968AJ.....73..717B	Dominion obs., list B	
DB	*use [DB76]*	FFF-NN	.	G	-	.	DODD R.J.+	1976A&AS...25..519D	Authors' initials	
[DB76]		FFF-NN	29	G	[DB76]	.	DODD R.J.+	1976A&AS...25..519D	Authors' initials	Identif. charts *(b)*
DBB	*eq. IREC*	NNN	.	IR Cld	IREC	1988D1	DESERT F.X.+	1988ApJ...334..815D	Authors' initials	
DBS		N	3+2	SNR + Poss. SNR	DBS	.	D'ODORICO S.+	1978A&A....63...63D	Authors' initials	Identif. charts
DC	*eq. DO*	NNNNN	.	Faint Red *	DO	1947L1	LEE O.J.+	1947AnDea....1...5L	Dearborn obs., Catalog	

(a) Czernic = CZ = Czernik
(b) [DB76] = (DB)

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
DC		N	3	G	-	1976R1	RICHTER N.+	1976AN....297..275R	Double Compact	
DC	*use DRCG*	HHMM-DD	.	Cluster of G	DRCG	1980D1	DRESSLER A.	1980ApJS...42..565D	Dressler, Cluster	
DC		LLL-N	46	H II	-	1971D2	DOTTORI H.+	1971Ap&SS..13..180D	Authors' initials	
DC	*use DCLD*	LLL.ℓ+BB.b LLL.ℓℓ+BB.bb	.	DCld and Globule	DCld	1984F1 1986H1	FEITZINGER J.V.+ HARTLEY M.+	1984A&AS...58..365F 1986A&AS...63...27H	Dark Cloud	
[DCL92]		NNN	362	∗ in LMC	[DCL92]	.	DEHARVENG L.+	1992A&AS...94..359D	Authors' initials, 1992	*(a)*
DCLD		LLL.ℓℓ+BB.bb	820	DCld and Globule	DCld	1984F1	FEITZINGER J.V.+	1984A&AS...58..365F	Dark Cloud	*(b)*
DCLD		LLL.ℓ+BB.b	1101	DCld	DCld	1986H1	HARTLEY M.+	1986A&AS...63...27H	Dark Cloud	*(c)*
DCld	*eq. DCLD*	LLL.ℓ+BB.b LLL.ℓℓ+BB.bb	.	DCld and Globule	DCld	1984F1 1986H1	FEITZINGER J.V.+ HARTLEY M.+	1984A&AS...58..365F 1986A&AS...63...27H	Dark Cloud	
Dd		N	1	PN	PN Dd	.	DOLIDZE M.W.	1971ATsir.629....6D	Author's name	*(d)*
DDB		1-NN	19	Poss. SNR in M 31	DDB	. .	D'ODORICO S.+	1980A&AS..40....67D 1980A&AS...40...67D	D'Odorico + Dopita + Benvenuti	Identif. charts *(e)*
DDB		2-NN	19	Poss. SNR in M 33	DDB	. .	D'ODORICO S.+	1980A&AS..40....67D 1980A&AS...40...67D	D'Odorico + Dopita + Benvenuti	Identif. charts *(f)*
DdDm		N	1	PN	PN DdDm	1966D1	DOLIDZE M.V.+	1966ATsir.385....7D	Authors' names	*(g)*

(a) [DCL92] ∗ in the LMC Henize HII region N 159A. (Misprint in the tittle of the ref.: N159A and not N156A).
(b) DCLD = (DC) = DCld
(c) DCLD = (DC) = DCld
(d) Dd = Dd
Dd 1 = PN G078.6+05.2 = PK 078+05 1
(e) DDB Table II: Format 1-NN (authors write format 1.NN), N=19, SNR candidates in M 31
(f) DDB Table IV: Format 2-NN (authors write format 1.NN), N=19, SNR candidates in M 33
(g) DdDm = DoDz
DdDm 1 = PN G061.9+41.3 = PK 061+41 1 = KO 1

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
DDHW		-	-	PN	-	.	DANZIGER I.J.+	1978ApJ...220..458D	Authors' initials	
DDO		NNN	243	Dw. G	DDO	1959V1 A 1959V1 B	VAN DEN BERGH S. VAN DEN BERGH S.	1959PDDO....2..145V 1966AJ.....71..922V	David Dunlap Obs.	*(a)*
DeHt		N	5	PN	-	. .	DENGEL H.+ DENGEL J.+	1979MitAG..45..182D 1980A&A....85..356D	Two first authors' names	PN Nmcl *(b)*
Dejc		N	1	GCl	-	1963D1	DEJC A.N.+	1963ATsir.259....1D	Author's name	= C 0234+209 *(c)*
Delalande	*use Lalande*	NNNNN	.	*	LAL	1847B1	BAILY F.	.	Author's name	
DEM	*use DEM L*	NNNa	.	H II in LMC	DEM L	1976D1 A	DAVIES R.D.+	1976MmRAS..81...89D	Authors' initials, LMC	
DEM	*use DEM S*	NNNa	.	H II in SMC	DEM S	1976D1+	DAVIES R.D.+	.	Authors' initials, SMC	
DEML	*eq. DEM L*	NNNa	.	H II in LMC	DEM L	1976D1 A	DAVIES R.D.+	1976MmRAS..81...89D	Authors' initials, LMC	
DEM L		NNNa	329	H II in LMC	DEM L	1976D1 A	DAVIES R.D.+	1976MmRAS..81...89D	Authors' initials, Large MC	*(d)*
DEM LMC	*eq. DEM L*	NNNa	.	H II in LMC	DEM L	1976D1 A	DAVIES R.D.+	1976MmRAS..81...89D	Authors' initials, LMC	
DEMS	*eq. DEM S*	NNNa	.	H II in SMC	DEM S	1976D1+	DAVIES R.D.+	.	Authors' initials, SMC	

(a) DDO = (Van den Bergh)
(b) DeHt = (DHW)
(c) Dejc = Deutch
(d) DEM L = (DEM) = DEML = DEM LMC

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
DEM S		NNNa	172	H II in SMC	`DEM S`	`1976D1 A` `1976D1 B`	DAVIES R.D.+ MEABURN J.	`1976MmRAS..81...89D` `1986MNRAS.223..317M`	Authors' initials, Small MC	*(a)*
DEM SMC	*eq. DEM S*	NNN	.	H II in SMC	`DEM S`	`1976D1+`	DAVIES R.D.+	.	Authors' initials, SMC	
Deutch	*eq. Dejc*	.		GCl	`-`	`1963D1`	DEJC A.N.+	`1963ATsir.259....1D`	Author's name	
DEV G		NN	54	Group of G	`DV`	`1975D1`	DE VAUCOULEURS G.	.	De Vaucouleurs, G	*(b)*
DG-		NNN	192	RFN	`p DG`	`1963V1`	VON DORSCHNER J.+	`1963AN....287..257V`	Authors' initials	
DGVW		NNN	149	(Rad)	`-`	`1965D1`	DAVIS M.M.+	`1965BAN....18...42D`	Authors' initials	*(c)*

DHK		NN	36	Red V $*$	`DHK`	.
						.
						.
						.
						.
							KAISER D.H.+
							KAISER D.H.+
							KAISER D.H.
							KAISER D.H.
							KAISER D.H.
								`1989IBVS.3313....1K`
								`1989IBVS.3442....1K`
								`1989IBVS.3480....1K`
								`1989IBVS.3677....1K`
								`1989IBVS.3814....1K`
									First author's initials	Identif. chart

DHW	*use DeHt*	N	.	PN	`PN DeHt`	. .	DENGEL H.+ DENGEL H.+	`1979MitAG..45..182D` `1980A&A....85..356D`	Authors' initials	
DI		NNNN	1679	Blue $*$ betw. MC	`-`	`1991D1`	DEMERS S.+	`1991A&AS...91..171D`	Authors' initials	
[DI93]		NNNN	$\simeq$ 2000	$*$ in Leo II	`[DI93]`	.	DEMERS S.+	`1993MNRAS.261..657D`	Authors' initials	Identif. charts
[DIK93]		NNa	57	Very Red $*$ betw. MC	`[DIK93]`	.	DEMERS S.+	`1993MNRAS.260..103D`	Authors' initials, 1993	*(d)*

(a) DEM S = (DEM) = DEMS = DEM SMC = SMC-DEM
(b) DEV G = DV = (G)
(c) DGVW = (D)
(d) [DIK93] Table 1: (Nos 1-43) betw. MC, Table 2: (Nos 44-57) in the NE halo of SMC. Identif. charts

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
DJM		NNN	466	Carbon *	`DJM`	`1988M1`	MacCONNELL D.J.	`1988AJ.....96..354M`	D.J. McConnell	
DK		NN	66	* in Fornax dw. G	`p DK`	.	DEMERS S.+	`1979PASP...91..761D`	Authors' initials	Identif. charts
DM	*eq. BD*	+DD NNNNN	.	*	`DM`	`1886A1+`	SCHONFELD E.	.	Durchmusterung Nmcl	*(a)*
DM	*eq. CD*	+DD NNNNN	.	*	`DM`	`1892T1+`	THOME J.M.	.	Durchmusterung Nmcl	*(b)*
DM	*eq. CPD*	+DD NNNNN	.	*	`DM`	`1896G1+`	GILL D.+	.	Durchmusterung Nmcl	*(c)*
DN	*use DNCG*	HHMM-DDd	.	Cluster of G	`p STR`	`1977D1`	DUUS A.+	`1977ApJS...35..209D`	Authors' initials	
DNCG		HHMM-DDd	957	Cluster of G	`p STR`	`1977D1`	DUUS A.+	`1977ApJS...35..209D`	Authors' initials, Cluster of G	*(d)*
DO		NNNNN	44076	Faint Red *	`DO`	`1947L1`	LEE O.J.+	`1947AnDea....1...5L`	Dearborn Obs.	*(e)*
Do	*eq. Dd*	N	.	PN	`PN Dd`	.	DOLIDZE M.W.	`1971ATsir.629....6D`	Author's name	
Do-Ar		NN	88	Em. * in Ass.	`p DO-AR`	`1959D1`	DOLIDZE M.V.+	`1959AZh....36..444D`	Authors' names	
DoDz	*eq. DdDm*	N	.	PN	`PN DdDm`	`1966D1`	DOLIDZE M.V.+	`1966ATsir.385....7D`	Authors' names	
Dolidze		NN	47	OCl	`Cl Dolidze`	`1961D1`	DOLIDZE M.V.	`1961ACiCh.223...11D`	Author's name	C Nmcl
Dolidze-Dzimselejsvili		NN	11	OCl	Cl Dolidze-Dzim	`1966D1`	DOLIDZE M.V.+	`1966ATsir.385....7D`	Authors' names	C Nmcl

(a) DM = (RDM)
Durchmusterung Nomenclature, first introduced in the HD catalogue (2nd column): BD for stars north of δ (1875) = -23°; See BD, CD or CPD, 900000 stars
(b) DM = (RDM)
Durchmusterung Nomenclature, first introduced in the HD catalogue (2nd column): CD (Cordoba) for -23°> δ (1875) > -52°; See BD, CD or CPD, 900000 stars
(c) DM = (RDM)
Durchmusterung Nomenclature, first introduced in the HD catalogue (2nd column): CPD (Cape) for stars south of -52°; See BD, CD or CPD, 900000 stars
(d) DNCG = DN = (S) = STR
(e) DO = (DC)

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
DON	*eq. Don*	NNNN	.	Double *	`** DON`	1955R1	ROSSITER R.A.	1955POMic..11....1R	Discoverer's name: Donner	
Don		NNNN	1031	Double *	`** DON`	1955R1	ROSSITER R.A.	1955POMic..11....1R	Discoverer's name: Donner	IDS Nmcl *(a)*
Dor IR		NN	33	(IR) in LMC	-	1981M3	McGREGOR P.J.+	1981ApJ...250..116M	Doradus, InfraRed	*(b)*
Dor IRS		NNN IRS NNN	175	(IR) in 30 Dor	`Dor IRS`	1992H2	HYLAND A.R.+	1992MNRAS.257..391H	Doradus, InfraRed Source	*(c)*
DOW		NNN	117	SNR	-	1971D3	DOWNES D.	1971AJ.....76..305D	Author's name	see SNR *(d)*
Downes	*eq. DOW*	NNN	.	SNR	-	1971D3	DOWNES D.	1971AJ.....76..305D	Author's name	
DR		NN	21	(Rad)	`DR`	1966D2	DOWNES D.+	1966ApJ...144..937D	Authors' initials	*(e)*
DRCG		HHMM-DD	17	Cluster of G	`DRCG`	1980D1	DRESSLER A.	1980ApJS...42..565D	Dressler, Cluster of G	*(f)*
DRIL		NN	51	* near SGP	`DRIL`	1977D2	DRILLING J.S.	1977AJ.....82..714D	Author's name	
DS		N	2	PN	-	1983D2	DRILLING J.S.	1983ApJ...270L..13D	Author's name	PN Nmcl *(g)*
DS	*use EDS*	HHMMSS+DDMMSS	.	(X)	-	1991P1	PRIMINI F.A.+	1991ApJ...374..440P	Deep Survey	
DU		NNN	527	H II	-	1976D2		.	Author's name	*(h)*
DUB	*DU*	NNN	.	H II	-	1976D2		.	Author's name	
DUBOUT	*DU*	NNN	.	H II	-	1976D2		.	Author's name	

(a) Don = DON
(b) Dor IR = MH
(Nos 1-35), Nos 9, 12 missing
(c) Dor IRS = (IRS)
(d) DOW = Downes
(e) DR (Nos 1-27), Nos 2, 8, 14, 24, 25, 26 are not defined
(f) DRCG = (DC)
(g) DS The central * of DS 1 is LSS 2018 ; The central * of DS 2 is LSS 125 = PN G335.5+12.4 = PK 335+12 1
(h) DU = DUB = DUBOUT

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
Dufay		N	1	GCl	`Cl Dufay`	.	DUFAY J.+	.	Author's name	= C 1727-299
DuRe		N	1	PN	`-`	.	DUERBECK H.W.+	`1990A&A...231L..11D`	Authors' names	*(a)*
DV	*eq. DEV G*	NN	.	Group of G	`DV`	`1975D1`	DE VAUCOULEURS G.	.	De Vaucouleurs	
DW		HHMM+DD	188	(Rad)	`DW`	`1967D1`	DAVIS M.M.	`1967BAN....19..201D`	Dwingeloo obs.	
DWB		NNN	193	H II	`p DWB`	`1969D1`	DICKEL H.R.+	`1969A&A.....1..270D`	Authors' initials	

1E		HHMM+DD.d
		HHMM.m+DDMM
		HHMMSS+DDMM.m
			.	(X)	`1E`	`1981V1`
						`1982M1 A`
						`1982M1 B`
						`1984G2`
						`1984H2`
						`1988H1`
							VAIANA G.S.+
							MACCACARO T.+
							STOCKE J.T.+
							GIOIA I.M.+
							HERTZ P.+
							HERTZ P.+
								`1981ApJ...245..163V`
								`1982ApJ...253..504M`
								`1983ApJ...273..458S`
								`1984ApJ...283..495G`
								`1984ApJ...278..137H`
								`1988AJ.....96..233H`
									Einstein obs.	*(b)*

E		N	9	Region	`NAME EN REGION`	`1962C1`	COUSINS A.W.J.+	`1962RGOB...49.....C`	E region	
E	*use Edinburgh*	NNNA	.	M * + Carbon *	`-`	`1970N1+`	NANDY K.+	.	Edinburgh obs.	
E	*use Bruck*	NNN	.	Cluster in SMC	`p BRUC`	`1976B1`	BRUCK M.T.	.	Edinburgh obs.	
E		N	3	GCl	`NAME E1, 2, 3`	`1976L1`	LAUBERTS A.	`1976A&A....52..309L`	ESO (B) plates	*(c)*

E	*eq. 1E*	HHMM+DD.d
		HHMM.m+DDMM
		HHMMSS+DDMM.m
			.	(X)	`1E`	`1981V1`
						`1982M1+`
						`1984G2`
						`1984H2`
						`1988H1`
							VAIANA G.S.+
							MACCACARO T.+
							GIOIA I.M.+
							HERTZ P.+
							HERTZ P.+
								`1981ApJ...245..163V`
								.
								`1984ApJ...283..495G`
								`1984ApJ...278..137H`
								`1988AJ.....96..233H`
									Einstein obs.	

E	*use TF*	NNN	.	(X) in M 31	`TF`	`1991T1`	TRINCHIERI G.+	`1991ApJ...382...82T`	Einstein obs.	

(a) DuRe DuRe 1 = PN G302.3-01.3
(b) 1E = E = (IE)
(c) E E1 = AM-1 ; galactocentric distance 118 kpc (Aaronson+, 1984, Ap. J. 276, 221-228 and plates 1 and 2)

Acronym	Usage	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
EC		HHMMm-DDMM	-	(Opt)	EC	.	KILKENNY D.+	1991MNRAS.248..664K	Edinburgh-Cape survey	*(a)*
[EC92]		NNN	163	* in Serpens MCld	[EC92]	.	EIROA C.+	1992A&A...262..468E	Authors' initials, 1992	
ECX6-		NNA	41	(Rad)	ECX6-	1991W1	WENDKER H.J.+	1991A&A...241..551W	Effelsberg obs., Cygnus X, 6cm	
EDCC		NNN	737	Cluster of G	EDCC	1992LN	LUMSDEN S.L.+	1992MNRAS.258....1L	Edinburgh-Durham Cluster Catalogue	*(b)*
Edinburgh		NNNA	1568	M * + Carbon *	-	1970N1 A 1970N1 B 1970N1 C 1970N1 D	NANDY K.+ NANDY K.+ NANDY K.+ NANDY K.+	1971PROE....7....1N 1971PROE....7...73N 1976PROE....9....4N .	Edinburgh obs.	*(c)*
EDS		HHMMSS+DDMMSS	25	(X)	-	1991P1	PRIMINI F.A.+	1991ApJ...374..440P	Extended Deep Survey	*(d)*
EDSGC	*catalog*	-	-	G	-	. .	COLLINS C.A.+ HEYDON-DUMBLETON+	1989MNRAS.236P...7C 1989MNRAS.238..379H	Edinburg-Durham Southern Galaxy Catalog	
EG	*use EGGR*	NNN	.	WD	EGGR	1965E1+	EGGEN O.J.+	.	Authors' initials	(Nos 1-266)
EGB		NN HHMM+DD	7	PN or central * of PN	NAME EGB	.	ELLIS R.S.+	.	Authors' initials	Low Brightness Obj.
EGGR		NNN	266	WD	EGGR	1965E1 A 1965E1 B 1965E1 C 1965E1 D	EGGEN O.J.+ EGGEN O.J.+ EGGEN O.J.+ GREENSTEIN J.L.	1965ApJ...141...83E 1965ApJ...142..925E 1967ApJ...150..927E 1969ApJ...158..281G	Authors' names	(Nos 1-266) *(e)*

(a) EC First reference from this survey. In this ref., N=20 Faint Blue Obj.
(b) EDCC N=769, among which 32 objects (Table 4) are misidentified as clusters.
(c) Edinburgh = (E)
(d) EDS = (DS)
(e) EGGR = (EG) = (Eggen-Greenstein)

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
EGGR		NNN	482	WD	EGGR	1970G1 A 1970G1 B 1970G1 C 1970G1 D 1970G1 E 1970G1 F 1970G1 G	GREENSTEIN J.L. GREENSTEIN J.L. GREENSTEIN J.L. GREENSTEIN J.L. GREENSTEIN J.L.+ GREENSTEIN J.L. GREENSTEIN J.L.	1970ApJ...162L..55G 1974ApJ...189L.131G 1975ApJ...196L.117G 1976ApJ...207L.119G 1977ApJ...218L..21G 1979ApJ...227..244G 1980ApJ...242..738G	Authors' names	(Nos 267-748) *(a)*
Eggen-Green.	*use EGGR*	NNN	.	WD	EGGR	1965E1+	EGGEN O.J.	.	Authors' names	*(b)*
EGM		NNNa NNNA NNNAA	>823	PM ∗	EGM	1976E1	EGGEN O.J.	1976ApJS...30..351E	Eggen, Proper Motion	
EIC		NNN	896	(IR)	-	1978S1	SWEENEY L.H.+	.	Equatorial Infrared Catalog	
EL	*use Elias 1-*	NN	.	(IR) in IC 5146 DCld complex	Elia 1-	1978E1 A	ELIAS J.H.	1978ApJ...223..859E	Author's name	
EL	*use Elias 2-*	NN	.	(IR) in ρ Oph DCld	Elia 2-	1978E1 B	ELIAS J.H.	1978ApJ...224..453E	Author's name	*(c)*
EL	*use Elias 3-*	NN	.	(IR) in Tau DCld complex	Elia 3-	1978E1 C	ELIAS J.H.	1978ApJ...224..857E	Author's name	
Elia 1-	*eq. Elias 1-*	NN	.	(IR) in IC 5146 DCld complex	Elia 1-	1978E1 A	ELIAS J.H.	1978ApJ...223..859E	Author's name, list 1	
Elia 2-	*eq. Elias 2-*	NN	.	(IR) in ρ Oph DCld	Elia 2-	1978E1 B	ELIAS J.H.	1978ApJ...224..453E	Author's name, list 2	
Elia 3-	*eq. Elias 3-*	NN	.	(IR) in Tau DCld complex	Elia 3-	1978E1 C	ELIAS J.H.	1978ApJ...224..857E	Author's name, list 3	

(a) EGGR = (GR) = (Gr)
(b) Eggen-Green. Full names are Eggen-Greenstein
(c) EL often used for Elias 2-

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
Elias 1-		NN	16	(IR) in IC 5146 DCld complex	`Elia 1-`	`1978E1 A`	ELIAS J.H.	`1978ApJ...223..859E`	Author's name, list 1	*(a)*
Elias 2-		NN	87	(IR) in ρ Oph DCld	`Elia 2-`	`1978E1 B`	ELIAS J.H.	`1978ApJ...224..453E`	Author's name, list 2	*(b)*
Elias 3-		NN	30	(IR) in Tau DCld complex	`Elia 3-`	`1978E1 C`	ELIAS J.H.	`1978ApJ...224..857E`	Author's name, list 3	*(c)*
ELS	*eq. KisoHA*	FFFF-NNN	.	Em. $*$	`-`	`1989W1+`	WIRAMIHARDJA S.D.+	.	Emission Line $*$	
Em		N	4	Em. $*$	`-`	`1961M1`	McCUSKEY S.W.	`1961PASP...73..264M`	Emission Obj.	
Em		N	3	PN	`PN Em`	`1961M1`	McCUSKEY S.W.	`1961PASP...73..264M`	Emission obj.	Nos 1,2,5; PK Nmcl

EMSS		HHMM.m+DDMM	835	(X)	`1E`	`1990G2 A`
						`1990G2 B`
						`1990G2 C`
							GIOIA I.M.+
							STOCKE J.T.+
							MACCACARO T.+
								`1990ApJS...72..567G`
								`1991ApJS...76..813S`
								`1991ApJ...374..117M`
									Extended Medium Sensitivity Survey	*(d)*

1ES		HHMM+DDd	819	(X)	`-`	`1992E1`	ELVIS M.+	`1992ApJS...80..257E`	1st Einstein Slew survey	
ES		NNN	$\simeq 120$	$*$ in Cluster	`NGC 2477`	`1961E1`	EGGEN O.J.+	`1961RGOB...24.....E`	Authors' initials	

ESO		FFF-TTT NN
		FFF-NN
			18438	(Opt)	`ESO`	`1974H1 A`
						`1974H1 B`
						`1974H1 C`
						`1974H1 D`
						`1974H1 E`
						`1974H1 F`
						`1974H1 G`
						`1974H1 H`
						`1974H1 I`
							HOLMBERG E.B.+
							HOLMBERG E.B.+
							HOLMBERG E.B.+
							HOLMBERG E.B.+
							HOLMBERG E.B.+
							HOLMBERG E.B.+
							HOLMBERG E.B.+
							LAUBERTS A.+
							LAUBERTS A.+
								`1974A&AS...18..463H`
								`1974A&AS...18..491H`
								`1975A&AS...22..327H`
								`1977A&AS...27..295H`
								`1978A&AS...31...15H`
								`1978A&AS...34..285H`
								`1980A&AS...39..173H`
								`1981A&AS...43..307L`
								`1981A&AS...46..311L`
									European Southern Obs.	*(e)*

(a) Elias 1- = (EL) = Elia 1-
(b) Elias 2- = (EL) = Elia 2-
(c) Elias 3- = (EL) = Elia 3- = (TAU) = (Tau)
(d) EMSS = MS
(e) ESO Discovery name ; The type in the format is an additional tentative information, not an identifier ; Thus the object ESO 426-PN?13 when reobserved and discovered to be a galaxy, becomes ESO 426-G13, now usually named ESO 426-13 ; 687 objects from catalogues of 1974H1 and 1982LA are compiled as PN.

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
ESO		HHMMSS+DDMM.m	.	(Opt)	-	1982LA	LAUBERTS A.	.	European Southern Obs.	*(a)*
Event		YY-N	24	Transient (Gamma)	-	.	-	.	Type of obj.	
EXE		N	2	(X)	NAME EXE	.	BURROWS D.N.+	1993ApJ...406...97B	Eridanus X-ray Enhancement	*(b)*
EXO		HHMM+DDd HHMM.m+DDMM HHMMSS+DDMM.m	.	(X)	EXO	. 1991G2	ANDREWS D.+ GIOMMI P.+	1984EXOSA...3....1A 1991ApJ...378...77G	Exosat satellite	*(c)*
EXOSAT	*eq. EXO*	HHMM+DDd HHMM.m+DDMM HHMMSS+DDMM.m	.	(X)	EXO	. 1991G2	ANDREWS D.+ GIOMMI P.+	1984EXOSA...3....1A 1991ApJ...378...77G	Exosat satellite	
F	*eq. Feige*	NNN	.	Blue *	FEIG	1958F1	FEIGE J.	1958ApJ...128..267F	Feige	
F	*use AZVI...F*	NNN	.	Foregd * to SMC	-	1975A1 B	AZZOPARDI M.+	1979A&AS...35..353A	Foregd * to SMC	
F	*eq. Fairall*	NNNN	.	G	FRL	1977F1+	FAIRALL A.P.	.	Fairall	
F-	*eq. Fairall*	NNNN	.	G	FRL	1977F1+	FAIRALL A.P.	.	Fairall	
[F80]		NN	46	Em. G	-	.	FAIRALL A.P.	1980MNRAS.191..391F	Fairall, 1980	*(d)*
FAIR	*eq. Fairall*	NNNN	.	G	FRL	1977F1+	FAIRALL A.P.	.	Fairall	
Fairall		NNNN	1185	G	FRL	1977F1 A 1977F1 B 1977F1 C 1977F1 D 1977F1 E 1977F1 F 1977F1 G	FAIRALL A.P. FAIRALL A.P. FAIRALL A.P. FAIRALL A.P. FAIRALL A.P. FAIRALL A.P. FAIRALL A.P.	1977MNRAS.180..391F 1979MNRAS.188..349F 1980MNRAS.192..389F 1981MNRAS.196..417F 1983MNRAS.203...47F 1984MNRAS.210...69F 1988MNRAS.233..691F	Author's name	*(e)*
Fairall	*use [F80]*	NN	.	Em. G	-	.	FAIRALL A.P.	1980MNRAS.191..391F	Author's name	

(a) ESO — 687 objects from catalogues of 1974H1 and 1982LA are compiled as PN
(b) EXE — Table 4, maps
(c) EXO = EXOSAT
(d) [F80] = (Fairall)
(e) Fairall = (F) = (F-) = FAIR = FRL

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
FB		NNN	189	Blue *	FB	1974G2	GREENSTEIN J.L.+	1974ApJS...28..157G	Faint Blue	
FBS		HHMM+DDd	323+25	*	-	1989A2 A 1989A2 B 1989A2 C 1989A2 D	ABRAHAMIAN H.V.+ ABRAHAMIAN H.V.+ ABRAHAMIAN H.V.+ ABRAHAMIAN H.V.+	1989Afz....31..601A 1990Afz....32...29A 1990Afz....33..213A 1990Afz....33..345A	First Biurakan Survey	
FBS		B-NNN	323	Blue *	-	1989A2 B 1989A2 C 1989A2 D	ABRAHAMIAN H.V.+ ABRAHAMIAN H.V.+ ABRAHAMIAN H.V.+	1990Afz....32...29A 1990Afz....33..213A 1990Afz....33..345A	First Biurakan Survey	*(a)*
FBS		L-NN	25	Late *	-	1989A2 A	ABRAHAMIAN H.V.+	1989Afz....31..601A	First Biurakan Survey	*(b)*
FC		NNN	467	Central * of PN	-	1982AC A 1982AC B 1982AC C	ACKER A.+ ACKER A.+ ACKER A.+	1982PSCDS...3.....A . .	Finding Chart	
FC		NNNbis	13	Central * of PN	-	1982AC D	ACKER A.+	.	Finding Chart	
FCC		NNN	340	G	FCC	1989F1	FERGUSON H.C.	1989AJ.....98..367F	Fornax Cluster Catalog	
FCC		BNNNN	2338	G	FCC	1989F1	FERGUSON H.C.	1989AJ.....98..367F	Fornax Cluster Catalog	*(c)*
FD		NN	80	WR in LMC	FD	1976F1	FEHRENBACH Ch.+	1976A&AS...24..379F	Two first authors' initials	
FEIG	*eq. Feige*	NNN	.	Blue *	FEIG	1958F1	FEIGE J.	1958ApJ...128..267F	Author's name	
Feig	*eq. Feige*	NNN	.	Blue *	FEIG	1958F1	FEIGE J.	1958ApJ...128..267F	Author's name	
FEIGE	*eq. Feige*	NNN	.	Blue *	FEIG	1958F1	FEIGE J.	1958ApJ...128..267F	Author's name	
Feige		NNN	114	Blue *	FEIG	1958F1	FEIGE J.	1958ApJ...128..267F	Author's name	*(d)*
Feinstein		N	1	OCl	Cl Feinstein	1964F1	FEINSTEIN A.	1964Obs....84..111F	Author's name	= C 1103-595

(a) FBS B in the format for Blue star
(b) FBS L in the format for Late-type star
(c) FCC Table III: B in the format means Background
(d) Feige = (F) = FEIG = FEIGE = Feig

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
FEST1-		NNN	489	DCld	`FEST 1-`	`1984F1`	FEITZINGER J.V.+	`1984A&AS...58..365F`	Authors' names, list 1	
FEST2-		NNN	331	Globule	`FEST 2-`	`1984F1`	FEITZINGER J.V.+	`1984A&AS...58..365F`	Authors' names, list 2	
FF		NN	73	$*$ in OCl	`NGC 6281`	`1974F2`	FEINSTEIN A.+	`1974PASP...86..284F`	Authors' initials	
Fg		N	3	PN	`PN Fg`	.	FLEMING M.	`1910HarCi.158.....F`	Author's name	*(a)*
						.	FLEMING M.	`1911HarCi.167.....F`		
FGC		NNNN	2573	Spiral G	`-`	.	KARACHENTSEV I.D.+	`1993AN....314...97K`	Flat Galaxy Catalogue	*(b)*
FGCA		NNNA	291	Spiral G	`-`	.	KARACHENTSEV I.D.+	`1993AN....314...97K`	Flat Galaxy Catalogue, Addendum	*(c)*
FGCE		NNNN	1882	Spiral G	`-`	.	KARACHENTSEV I.D.+	`1993AN....314...97K`	Flat Galaxy Catalogue, southern Extension	*(d)*
FI		NN	18	Poss. G	`FI`	.	FITZGERALD M.P.	`1974A&A....31..467F`	Authors' initials	
FJ		HHMM-DD	175	(Rad)	`-`	`1973F1`	FINLAY E.A.+	`1973AuJPh..26..389F`	Authors' initials	*(e)*
[FJ78]		NNN	315	PN in M 31	`[FJ78]`	.	FORD H.C.+	`1978ApJS...38..351F`	Authors' initials, 1978	Table 2
FJF	*eq. FuenC*	NNN	.	Carbon $*$	`Fuen C`	`1981F1+`	FUENMAYOR F.J.	.	F.J. Fuenmayor	
FJM		N	6	(Far IR)	`-`	`1972F1`	FURNISS I.+	`1972ApJ...176.L105F`	Authors' initials	

(a) Fg — 3 PN excerpted from a list of 31 objects ; Fg 1 = PN G290.5+07.9 = PK 290+07 1 ; Fg 2 = PN G346.3-06.8 = PK 346-06 1 ; Fg 3 = PN G352.9-07.5 = PK 352-07 1
(b) FGC — Beware: the headers of the col. are everywhere FGC, while p. 106-172 refer to FGC, p. 173-218 refer to FGCE, p. 219-222 refer to FGCA which is given the format NNNA
(c) FGCA — In the format, A for Addendum
(d) FGCE — Dec < -17.5°
(e) FJ = FRO

Acronym	Usage	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
FK		N	3	Em. *	NAME FK	.	FEIGELSON E.D.+	1983AJ.....88..431F	Authors' initials	(a)
FK3	eq. FK4	NNNN	.	*	FK4	.	-	.	Fundamental Katalog, 3rd	
FK4		NNNN	1595	*	FK4	1963F1	FRICKE W.+	1963VeARI..10..144F	Fundamental Katalog, 4th	(b)
FK 4	eq. FK4	NNNN	.	*	FK4	1963F1	FRICKE W.+	1963VeARI..10..144F	Fundamental Katalog, 4th	
FK/4	eq. FK4	NNNN	.	*	FK4	1963F1	FRICKE W.+	1963VeARI..10..144F	Fundamental Katalog, 4th	
FK5		NNNN	> 1535	*	FK4	1988F1	FRICKE W.+	1988VeARI..32....1F	Fundamental Katalog, 5th	(c)
FKSZ		NNNN	587	Faint *	-	1958Z1	ZVEREV M.S.+	.	Russian acronym for General Catalog of Fundamental faint *	
Fl	eq. FLO	NNN	.	* in SMC	p FLO	1972F2	FLORSCH A.	1972POStr...2....1F	Author's name	
[FLH92]		GNN ANN	32+13	G + Arc	[FLH92]	. .	FORT B.+	1992ApJ...399.L125F 1992ApJ...399L.125F	Three first authors' initials, 1992	(d)
FLO		NNN	776	* in SMC	p FLO	1972F2	FLORSCH A.	1972POStr...2....1F	Author's name	(e)
FLSBG		NNN	321	G	-	1988D2 A 1988D2 B	DAVIES J.I.+ IRWIN M.J.+	1988MNRAS.232..239D 1990MNRAS.245..289I	Fornax Low Surface Brigtness G	
FM		NN	52	* in OCl	NGC 4609	1971F1	FEINSTEIN A.+	1971PASP...83..219F	Authors' initials	

(a) FK Table III: FK 1 = 1E 0429.3+1755 ; FK 2 = 1E 0429.3+1813 ; FK 3 = 1E 0500.0+2518
(b) FK4 = FK3 = FK 4 = FK/4
(c) FK5 For details on the numbering, see comments of ref. 1988F1
(d) [FLH92] (Nos G1-G32) for Galaxies, and (Nos A0-A10) for Arcs with subdivisions A01 and A02 of A0 (thwy should be A0:1, A0:2)
(e) FLO = Fl

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
FM		FFF-NN	69	Ring G	FM	.	FEW J.M.A.+	1986MNRAS.222..673F	Authors' initials	*(a)*
FMH		NN	17	* in OCl	Cl Hogg 15	1971F1	FEINSTEIN A.+	1971PASP...83..219F	Authors' initials, Hogg cluster	*(b)*
FM H	*eq. FMH*	NN	.	* in OCl	Cl Hogg 15	1971F1	FEINSTEIN A.+	1971PASP...83..219F	Authors' initials, Hogg cluster	
FORNAX		N	5	GCl in Fornax dw. G	NAME FORNAX	.	HODGE P.W.	1961AJ.....66...83H	Fornax region	Identif. charts
F3R		NNNN	6483	(Rad)	F3R	.	FURST E.+	1990A&AS...85..805F	Furst, and three authors with an "R" initial	*(c)*
FR		NNN	120	Cluster of G	-	1966F1	FOMALONT E.B.+	1966ApJ...146..528F	Authors' initials	
FRL	*eq. Fairall*	NNNN	.	G	FRL	1977F1+	FAIRALL A.P.	.	Author's name	
FRO	*eq. FJ*	HHMM-DD	.	(Rad)	-	1973F1	FINLAY E.A.+	1973AuJPh..26..389F	Fleurs Radio Obs.	
Frolov		-	1	OCl	NAME FROLOV	1977F3	FROLOV V.N.	1977IzPul.195...80F	Author's name	= C 2354+613
FSC	*catalog: use IRAS*	.		(IR)	IRAS	1989MK	MOSHIR M.+	.	Faint Source Catalog	
FSG		R-NNN	788	G in Nearby Groups	-	1990F1	FERGUSON H.C.+	1990AJ....100....1F	Authors' initials, G	*(d)*
FSS	*catalog: use IRAS*	.		(IR)	IRAS	1989MK	MOSHIR M.+	.	Faint Source Survey	

(a) FM Catalog of Galaxies on Microfiche MN 222/1
(b) FMH = FM H
(c) F3R = (Reich 3-)
Maps of these objects are found in ref. 1990A&AS.58.197R, 1990A&AS.85.633R and 1990A&AS.85.691F. A few duplicated entries.
(d) FSG R in the format is the numbering of the tables for each group

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
[FTC93]		HHMMSS.ss-DDMMSS.ss	7	(Rad) in Orion	`[FTC93]`	.	FELLI M.+	`1993A&AS..101..127F`	Three first authors' initials, 1993	*(a)*
FuenC		NNN	499	Carbon *	`Fuen C`	`1981F1 A` `1981F1 B`	FUENMAYOR F.J. JURA M.+	`1981RMxAA...6...83F` `1989ApJ...336..924J`	Author's name, Carbon *	*(b)*
Fuen C	*eq. FuenC*	NNN	.	Carbon *	`Fuen C`	`1981F1+`	FUENMAYOR F.J.	.	Author's name, Carbon *	
FXP		HHMM+DD	1	Flaring (X) PSR in LMC	`FXP`	`1982M2`	MAZETS E.P.+	`1982Ap&SS..84..173M`	Flaring X-ray Pulsar	= FXP 0520-66
G	*eq. GRS*	LLL.ℓ+BB.b LLL.ℓℓ+BB.bb	.	(Rad)	`GRS`	.	-	.	Galactic	Systematic
G	*use Gum*	NNa NN	.	H II (4PN)	`GUM`	`1955G2`	GUM C.S.	`1955MmRAS..67..155G`	Gum	
G	*use HG*	F-NNN	.	WD	`HG`	`1962G1`	GICLAS H.L.+	`1962LowOB...5..257G`	Giclas	

G		NNN
		NNNbis
			767	* in LMC	`Cl* LMC G`	`1970F1 A`
						`1970F1 B`
						`1970F1 C`
						`1970F1 D`
						`1970F1 E`
							FEHRENBACH C.+
							FEHRENBACH C.+
							FEHRENBACH C.+
							FEHRENBACH C.+
							FEHRENBACH C.+
								`1970A&AS....1....1F`
								`1973A&AS...10..231F`
								`1981A&AS...46...13F`
								`1982A&AS...48....1F`
								`1982A&AS...48..409F`
									Grande vitesse	

G	*eq. Giclas*	FFF-NNNA	.	PM *	`G`	`1971G1+`	GICLAS H.L.+	.	Author's name	
G	*use G...-B*	FFF-BNNA FFFBNNA	.	PM *	-	`1971G1 C`	GICLAS H.L.+	`1979LowOB...8..145G`	Author's name	
G		HHMMSS+DDMM	19	(Rad)	-	`1975R1`	ROSS H.N.	`1975ApJ...200..790R`	Goldstone obs. source	
G	*use DEV G*	NN	.	Group of G	`DV`	`1975D1`	DE VAUCOULEURS G.	.	Group of G	
G	*use SKHB*	NNN	.	GCl in M 31	`SKHB`	.	SARGENT W.L.W.+	`1977AJ.....82..947S`	GCl	

(a) [FTC93] Table 5: 7 new compact sources in Orion. (Tables 1, 2: GMR sources). Authors don't give any format to their list, so we use the coordinates as format.
(b) FuenC = FJF = Fuen C

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
G	*use JJ*	NNNA	.	G in Fornax Cl	p JJ	1980J1	JONES J.E.+	1980MNRAS.191..685J	Galaxy	
G	*use WOHG*	NNN	.	M Giant in LMC	-	1981W1	WESTERLUND B.E.+	1981A&AS...43..267W	Giant	
Gamma	*eq. G-Gamma*	LLL+DD	.	(Gamma)	-	.	-	.	Gamma-ray	Greek letter
Gapo		NNNa	223	V * in M 31	Gapo	.	GAPOSCHKIN S.	1962AJ.....67..334G	Author's name	*(a)*
GAT		NNNN	1258	*	GAT	1973G1	GATEWOOD G.+	1973AJ.....78..769G	First author's name	*(b)*
87GB		HHMM+DDMM	54579	(Rad)	87GB	1991G1	GREGORY P.C.+	1991ApJS...75.1011G	1987, Green Bank obs.	
GB		N	1	G	-	1967B4	BURBIDGE E.M.+	1967ApJ...150..783B	G. Burbidge	
GB		HHMM+DD.d	1158	(Rad)	-	1971M1 A 1971M1 B 1971M1 C	MASLOWSKI J. MASLOWSKI J. MASLOWSKI J.	1971A&A....14..215M 1972A&A....16..197M 1972AcA....22..227M	Green Bank obs.	
GB		YYMMDDA	95	(Gamma)	GB	1982K1	KLEBESADEL R.+	1982ApJ...259..L51K	Gamma Burst	*(c)*
GB		YYMMDDA YYYY MMM DDA	84	(Gamma)	GB	1987A1	ATTEIA J.-L.+	1987ApJS...64..305A	Gamma Burst	*(d)*
G...-B		FFF-BNNA FFFBNNA	.	PM *	G	1971G1 C	GICLAS H.L.+	1979LowOB...8..145G	Giclas, Blue	*(e)*
GB2		HHMM+DDd	2022	(Rad)	GB2	1978M1	MACHALSKI J.	1978AcA....28..367M	Green Bank obs., 2nd survey	

(a) Gapo (Nos 1-223), field II in M 31. Fields in I, III and IVin M 31: see BASW

(b) GAT = AO
(Nos 70-81, 163-217, 364-457, 485-537, 598-690, 1000) are missing ; ref. 1973G1 is the beginning of the list (Nos 1-22), and its comment contains the references of the following lists.

(c) GB = GRB = GRBS
(Gamma-Ray Burster) ref. 1982K1 ; the format is of the type 790305A that is two digits for the year, two for the month and two for the day, A,B serving to distinguish between events occuring on the same day

(d) GB = GRB = GRBS
(Gamma-Ray Burster) ref. 1987A1 ; the format is as for GB (ref. 1982K1), or of the type 1979 Mar 05A that is year, 3 letter abbreviation for the month, two digits for the day, and A,B serving to distinguish between events occuring on the same day

(e) G...-B = (G) = (Giclas)
In the format B stands for Blue

Acronym	Usage	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
GB3		HHMM+DDd	502+174	(Rad)	-	1987R2	RYS S.+	1987AcA....37..163R	Green Bank obs., 3rd survey	*(a)*
GBS		HHMM+DD	.	(Gamma)	GBS	1982K1 1987A1	KLEBESADEL R.+ ATTEIA J.-L.+	1982ApJ...259..L51K 1987ApJS...64..305A	Gamma Burst Source	
GC		NNNNN	33342	*	GC	1937B1	BOSS B.	.	General Catalog	*(b)*
GC		HHMM+DD	830	(Rad)	-	1971D1 A 1971D1 B 1971D1 C	DAVIS M.M. PAULINY-TOTH I.I.K.+ PAULINY-TOTH I.I.K.+	1971AJ.....76..980D 1972AJ.....77..265P 1972AJ.....77..797P	Green Bank obs., C list	
GC		HHMM+DDA	1230	(Rad)	-	1972P3 B	PAULINY-TOTH I.I.K.+	1972AJ.....77..797P	Green Bank obs., C list	
GCCS	*catalog: use CCS*	NNNN	.	Carbon *	C*	1973S3+	STEPHENSON C.B.	.	General Catalog of Carbon *	
GCCCS	*catalog: use CCS*	NNNN	.	Carbon *	C*	1973S3+	STEPHENSON C.B.	.	General Catalog of Cool Carbon *	
GCCGCS	*catalog: use CGCS*	NNNN	.	Carbon *	CGCS	1989ST	STEPHENSON C.B.	.	General Catalog of Cool Gal. Carbon *	
GCl		HHMM-DDd	1	GCl	C	.	-	.	Globular Cluster	= C 0422-213 *(c)*
GCl-		NNN.N	137	GCl	p GCl-	1970AR A 1970AR B	ALTER G.+ RUPRECHT J.+	. .	Globular Cluster	
GCM		±L.ll±BB.bb	$\geq$ 41	MCld	-	. .	GUSTEN R.+ HUTTEMEISTER S.+	1981A&A...103..197G 1993A&A...280..255H	Gal. Center Molecular cloud	*(d)*
GCRV	*eq. Wilson*	NNNNN	.	*	GCRV	1953W1	WILSON R.E.	.	General Catalog of stellar Radial Velocities	

(a) GB3 Table 1: N=502, Table 2: N=174
(b) GC = (B) = (Boss)
(c) GCl Used by West+, Astr. Astrophys. Suppl. 38, 69 for a globular cluster at 83 +or- 12kpc
(d) GCM = (M)

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
GCS		NN	15	(IR)	-	1983K2	KOBAYASHI Y.+	1983PASJ...35..101K	Gal. Center Source	
GCSS	*catalog:use Stephenson*	NNN	.	S *	S1*	1976ST	STEPHENSON C.B.	1976PW&SO...2....2S	General Catalog of S Stars	
GCTP	*eq. Jenkins*	NNNN NNNN.NN	.	*	PLX	1952J1+	JENKINS L.F.	.	General Catalog of Trigon. stellar Parallaxes	
GCVS	*catalog: use V*	AA CCC VNNNN CCC	.	V *	V*	1969KK+ 1985KS+	KUKARKIN B.V.+ KHOLOPOV P.N.+	. .	General Catalog of Variable *	
GCX		LL+B LLL+BB	.	(X)	GCX	.	-	.	Gal. Center X-ray source	
GD		NNNNA	1712	Susp. WD + Blue *	GD	1980G1	GICLAS H.L.+	1980LowOB...8..157G	Giclas, Dwarf	*(a)*
GD-	*eq. GD*	NNNNA	.	Susp. WD + Blue *	GD	1980G1	GICLAS H.L.+	1980LowOB...8..157G	Giclas, Dwarf	
GDC		N	7	DCld	GDC	1976H1 D	REIPURTH B.	1983A&A...117..183R	Gum Dark Cloud	
GEA		N-NN	.	PN	PN GEA	. . .	GEORGELIN Y.P.+ GEORGELIN Y.P.+ GEORGELIN Y.P.+	1970A&A.....6..349G 1970A&A.....7..133G 1970A&AS....3....1G	Authors' name	
GEL		NN	18	* in Serpens MCld	GEL	.	GOMEZ DE CASTRO A.I.+	1988A&A...201..299G	Authors' initials	Identif. charts
Geminga		-	1	(Gamma)	NAME GEMINGA	1977T3	THOMPSON D.J.+	1977ApJ...213..252T	source in Gem	
Gershberg		NN	78	Flare *	-	.	MULLAN D.J.+	1989ApJ...343..400M	List of Gersbergh	*(b)*
GF		NNANa	23	GF	GF	1979S1	SCHNEIDER S.+	1979ApJS...41...87S	Globular Filaments	
[GF92]		NNNN	314	G or K Giant	-	.	GEISLER D.+	1992AJ....104..128G	Authors' initials, 1992	*(c)*

(a) GD = GD-
(b) Gershberg Table 2: list of 78 * from Gershberg R.E., 1978, Low Mass Flaring Stars (Moscow: Nauka)
(c) [GF92] N = 3539 in the total calibrated list.

Acronym	Usage	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
G-G	*use GGA*	NNN	.	Em. *	EM* GGA	1954G1+	GONZALEZ Gr.+	.	Authors' initials	
G-G	*use GGR*	NNN	.	Em. *	EM* GGR	1956G1	GONZALEZ Gr.+	1956BOTT....2F..16G	Authors' initials	
GGA		NNN	411	Em. *	EM* GGA	1954G1 A 1954G1 B	GONZALEZ Gr.+ GONZALEZ Gr.+	1954BOTT....19...3G 1956BOTT....2E..19G	Authors' initials, Anticenter	*(a)*
G-Gamma		LLL+DD	.	(Gamma)	-	.	-	.	Gal. γ -ray	Obsolete *(b)*
GGD		NN	37	Poss. HH	GGD	1978G2	GYULBUDAGHIAN A.L.+	1978ApJ...224L.137G	Authors' initials	*(c)*
GGR		NNN	212	Em. *	EM* GGR	1956G1	GONZALEZ Gr.+	1956BOTT....2F..16G	Authors' initials, Gal. Rotation	*(d)*
GH	*use HG*	F-NNN	.	WD	HG	1962G1	GICLAS H.L.+	1962LowOB...5..257G	Giclas, Hyades	
GH	*use GHCG*	NNN	.	Group of G	GHCG	1983G1	GELLER M.J.+	1983ApJS...52...61G	Authors' initials	
GH		FF-NN	96	G backgd to LMC	GH	1990G1	GURWELL M.+	1990PASP..102..849G	Authors' initials	
GHCG		NNN	176	Group of G	GHCG	1983G1	GELLER M.J.+	1983ApJS...52...61G	Authors' initials, Cluster of G	*(e)*
GH2O	*eq. H2O*	LLL.ℓ+BB.b LLL.$\ell\ell$+BB.bb	.	Gal. Maser or MCld	GH2O	.	-	.	Gal. H2O em. source	Systematic
GH2O	*eq. H20*	LLL.$\ell\ell\ell$+BB.bbb	.	Gal. Maser	GH20	1988CP	CESARONI R.+	1988A&AS...76..445C	Gal. H2O em. source	

(a) GGA = (G-G)
(b) G-Gamma = Gamma
(c) GGD (Nos 1-36) are identical to GM2- (Nos 1-36) (ref. 1977G3)
(d) GGR = (G-G)
(e) GHCG = CfA = (GH)

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
Giclas		FFF-NNNA	11923	PM *	G	1971G1 A 1971G1 B 1971G1 C	GICLAS H.L.+ GICLAS H.L.+ GICLAS H.L.+	. 1978LowOB...8...89G 1979LowOB...8..145G	Author's name	*(a)*
Giclas	*use G...-B*	FFF-BNNA FFFBNNA	.	PM *	G	1971G1 C	GICLAS H.L.+	1979LowOB...8..145G	Author's name	
Gingrich		NN	20	OCl	Cl Gingerich	1922G1	GINGRICH C.H.	1922ApJ....56..139G	Author's name	
Giovanelli		NNN	799	HVC, IVC	-	1975H1 B	GIOVANELLI R.	1980AJ.....85.1155G	Author's name	
GJ		NNNNA NNN.NA	≃ 2000	*	GJ	1969G1 A 1969G1 B	GLIESE W. GLIESE W.+	1969VeARI..22....1G 1979A&AS...38..423G	Authors' initials in ref. 1969G1 B	*(b)*
GJ	*eq. Woolley*	9NNNA	.	*	GJ	1970W3	WOOLLEY R.v.d.R.+	1970ROAn.........5W	Authors' initials in ref. 1969G1 B	
GJJC		N	1	PN	-	.	GILLETT F.C.+	1989ApJ...338..862G	Four first authors' initials	*(c)*
GL	*use GJ*	NNNNA NNN.NA	.	*	GJ	1969G1+	GLIESE W.	.	Author's name	
GL	*use Woolley*	9NNNA	.	*	GJ	1970W3	WOOLLEY R.v.d.R.+	1970ROAn.........5W	Gliese	
GL	*use AFGL*	NNNN	.	(IR)	AFGL	1975W1 1976P1+	WALKER R.G.+ PRICE S.D.+	. .	Geophysics Lab.	
Gl	*use GJ*	NNNNA NNN.NA	.	*	GJ	1969G1+	GLIESE W.	.	Author's name	
Gl	*use Woolley*	9NNNA	.	*	GJ	1970W3	WOOLLEY R.v.d.R.+	1970ROAn.........5W	Gliese	
Glass		A	22	* in Cha T Ass.	Glass	.	GLASS I.S.	1979MNRAS.187..305G	Author's name	*(d)*

(a) Giclas = (G)
(b) GJ = GL = Gl = GLIESE = Gliese = (NSC)
(c) GJJC GJJC 1 = PN G009.8-07.5
(d) Glass Table 2. Identif. (Plate I)

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
Glazar		HHMM+DD HHMM+DD.N	43	* in OB Ass.	-	. . .	TOVMASSIAN H.M.+ TOVMASSIAN H.M.+ TOVMASSIAN H.M.+	1990Afz....32....5T 1992Ap&SS.188..217T 1994MNRAS.266..337T	Glazar telescope	*(a)*
GLIESE	*eq. GJ*	NNNNA NNN.NA	.	*	GJ	1969G1+	GLIESE W.	.	Author's name	
GLIESE	*eq. Woolley*	9NNNA	.	*	GJ	1970W3	WOOLLEY R.v.d.R.+	1970ROAn.........5W	Author's name in ref 1969G1+	
Gliese	*eq. GJ*	NNNNA NNN.NA	.	*	GJ	1969G1+	GLIESE W.	.	Author's name	
Gliese	*eq. Woolley*	9NNNA	.	*	GJ	1970W3	WOOLLEY R.v.d.R.+	1970ROAn.........5W	Author's name in ref 1969G1+	
GM		NNN	275	Em. Obj.	-	1976G1	GOMEZ T.+	1976RMxAA...1..381G	Authors' initials	
GM	*use GM1-*	NN	.	RFN	GM 1-	1977G2	GYULBUDAGHIAN A.L.+	1977SvAL....3...58G	Authors' initials	
GM1-		NN	79	RFN	GM 1-	1977G2	GYULBUDAGHIAN A.L.+	1977SvAL....3...58G	Authors' initials, list 1	*(b)*
GM2-		NN	42	HH-like + Neb. Obj.	GM 2-	1977G3	GYULBUDAGHIAN A.L.+	1977DoSSR..64..104G	Authors' initials, list 2	*(c)*
GM3-		NN	15	Neb. Obj.	GM 3-	1977G4	GYULBUDAGHIAN A.L.+	1977ACiCh.953....1G	Authors' initials, list 3	*(d)*
GM 1-	*use GM1-*	NN	.	RFN	GM 1-	1977G2	GYULBUDAGHIAN A.L.+	1977SvAL....3...58G	Authors' initials, list 1	
GM 2-	*eq. GM2-*	NN	.	HH-like + Neb. Obj.	GM 2-	1977G3	GYULBUDAGHIAN A.L.+	1977DoSSR..64..104G	Authors' initials, list 2	
GM 3-	*eq. GM3-*	NN	.	Neb. Obj.	GM 3-	1977G4	GYULBUDAGHIAN A.L.+	1977ACiCh.953....1G	Authors' initials, list 3	

(a) Glazar — Ultraviolet (1640Å) observations with the space telescope "Glazar", both a survey at high galactic latitudes and investigation of regions of stellar associations.
Note: in the format HHMM+DD.N the fraction .N means an *insertion*, not a decimal. Identif. charts, 1950 coord.

(b) GM1- = (GM) = GM 1-
GM 1-11 is a poss. PN in Gasparian+ 1988Afz....28..679G, and in ref. 1992AO

(c) GM2- = GM 2-
Nos 1-36 are identical to GGD (Nos 1-36) (ref. 1978G2).

(d) GM3- = GM 3-

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
GMB	*eq. Gmb*	NNNN	.	*	GMb	1905D1	DYSON F.W.+	.	Observer's name: Groombridge	
GMb	*eq. Gmb*	NNNN	.	*	GMb	1905D1	DYSON F.W.+	.	Observer's name: Groombridge	
Gmb		NNNN	4243	*	GMb	1905D1	DYSON F.W.+	.	Observer's name: Groombridge	*(a)*
[GMD93]		NN	19	(X) in Fornax dw. G	[GMD93]	.	GIZIS J.E.+	1993PASP..105..871G	Authors' initials, 1993	
GMP		NNNN	.	G	GMP	.	GODWIN J.G.+	1983MNRAS.202..113G	Authors' initials	
GMR		NN A	26+18	(Rad) in Orion	-	. . .	GARAY G.+ CHURCHWELL E.+ FELLI M.+	1987ApJ...314..535G 1987ApJ...321..516C 1993A&AS..101..127F	Authors' initials	*(b)*
[GMS93]		NN	25	Poss. QSO	[GMS93]	.	GAIDOS E.J.+	1993PASP..105.1294G	Authors' initials, 1993	
GN		NN	28	(Rad)	-	1965N2	NICOLSON G.D.	1965PASP...77..260N	G. Nicolson	
GN		HH.MM.m.NN	435	Neb. Obj.	p GN	1985NV	NECKEL Th.+	.	Gal. Nebula	*(c)*
GNA		NN	81	G	GNA	1986P1	PETERSON B.A.+	1986MNRAS.221..233P	G, North, field A	*(d)*
GNB		NN	95	G	-	1986P1	PETERSON B.A.+	1986MNRAS.221..233P	G, North, field B	*(e)*
GNO	*use HGCG*	NN	.	Group of G	-	1982H1	HUCHRA J.P.+	1982ApJ...257..423H	Group No.	
GOH	*eq. OH*	LLL.ℓ+BB.b LLL.$\ell\ell$+BB.bb	.	Gal. OH	GOH	1979TU 1992B1	TURNER B.E. BECKER R.H.+	1979A&AS...37....1T 1992AJ....103..544B	Gal. OH sources	

(a) Gmb = GMB = GMb = (Gr) = Grb = Groombridge
(b) GMR Radio sources in Orion nebula (format NN in Trapezium)
(c) GN Some objects are PN, named NeVe, in ref. 1992AO
(d) GNA The numbering is of historic interest only, and have no well-defined meaning
(e) GNB The numbering is of historic interest only, and have no well-defined meaning

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
Gopal		HHMM+DDd	60	(Rad)	-	. . .	GOPAL-KRISHNA SPOELSTRA T.A.T.+ GOPAL-KRISHNA	1983A&A...123..107G 1985A&A...152...38S 1993A&A...271..101G	First author's name	*(a)*
Goy		NNN	971	O *	-	1980G2	GOY G.	1980A&AS...42...91G	Author's name	
GP		NNN	923	G in Coma Cl	GP	.	GODWIN J.C.+	1977MNRAS.181..323G	Authors' initials	map
GPN	*catalog: use PN*	GLLL.ℓ+BB.b	.	PN	-	1992AO	ACKER A.+	.	Galactic Planetary Nebula	
GPS	*use Gopal*	HHMM+DDd	.	(Rad)	-	. . .	GOPAL-KRISHNA SPOELSTRA T.A.T.+ GOPAL-KRISHNA	1983A&A...123..107G 1985A&A...152...38S 1993A&A...271..101G	Gigahertz Peaked Spectrum	
GPS		HHMM+DDd	70	(X)	GPS	1988W1	WARWICK R.S.+	1988MNRAS.232..551W	Gal. Plane Survey	
GPS	*use GPSR*	LLL.$\ell\ell\ell$+BB.bbb	.	(Rad)	-	1990Z1+	ZOONEMATKERMANI S.+	.	Gal. Plane Survey	
GPSR		LLL.$\ell\ell\ell$+BB.bbb	3449	(Rad)	-	1990Z1 A 1990Z1 B	ZOONEMATKERMANI S.+ HELFAND D.J.+	1990ApJS...74..181Z 1992ApJS...80..211H	Gal. Plane Survey, Radio source	*(b)*
GR		NNN	292	V *	SV* GR	.	ROMANO G.	.	G. Romano	V * Nmcl
GR		NN	90	G	NAME GR	1956R1 A 1956R1 B 1956R1 C 1956R1 D	REAVES G. REAVES G. REAVES G. REAVES G.	1956AJ.....61...69R . 1962PASP...74..392R .	G. Reaves	No. 83 not defined *(c)*
GR	*use EGGR*	NNN	.	WD	EGGR	1970G1+	GREENSTEIN J.L.	.	Author's name	(Nos 267-558)
GR	*use AC*	+DD NNNNA DD.NNNNN +DD NNNN-NNN	.	*	AC	1974EC	EICHHORN H.	.	Greenwich obs.	

(a) Gopal = (GPS)
The authors use the acronym GPS, which here can be seen to be used for an X-ray and a radio survey of the Galactic Plane.
(b) GPSR = (GPS)
(c) GR = G.R.

Acronym	Usage	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
GR		HHMM+DD	1322	(Rad)	GRA	1978B1 A 1978B1 B 1978B1 C 1978B1 D	BRAUDE S.Ya.+ BRAUDE S.Ya.+ BRAUDE S.Ya.+ BRAUDE S.Ya.+	1978Ap&SS..54...37B 1979Ap&SS..64...73B 1981Ap&SS..74..409B 1985Ap&SS.111....1B	Grakovo Radio obs.	*(a)*
GR		NNN	504	Red ∗	GR∗	1980G1	GICLAS H.L.+	1980LowOB...8..157G	Giclas, Red ∗	*(b)*
GR		+DD NN	846	Dw. G	p GRDG	1983R1	REAVES G.	1983ApJS...53..375R	G. Reaves	*(c)*
GR	*eq. GRRV*	NN	.	Red V ∗ in LMC	GRRV	1985G1	GLASS I.S.+	1985MNRAS.214..405G	Authors' initials	
GR	*use GRV*	NNN	.	Group of G	[V84]	1984V1	VENNIK J.	1984TarOT..73....1V	Group of G	*(d)*
GR-	*eq. GR*	NNN	.	Red ∗	GR∗	1980G1	GICLAS H.L.+	1980LowOB...8..157G	Giclas, Red ∗	
GR∗	*eq. GR*	NNN	.	Red ∗	GR∗	1980G1	GICLAS H.L.+	1980LowOB...8..157G	Giclas, Red ∗	
G.R.	*eq. GR*	NN	.	G	NAME GR	1956R1+	REAVES G.	.	G. Reaves	
Gr	*use EGGR*	NNN	.	WD	EGGR	1970G1+	GREENSTEIN J.L.	.	Author's name	(Nos 267-558)
Gr	*use AC*	+DD NNNNA DD.NNNNN +DD NNNN-NNN	.	∗	AC	1974EC	EICHHORN H.	.	Greenwich obs.	
Gr	*use Gmb*	NNNN	.	∗	GMb	1905D1	DYSON F.W.+	.	Observer's name: Groombridge	
GRA	*eq. GR*	HHMM+DD	.	(Rad)	GRA	1978B1+	BRAUDE S.Ya.+	.	Grakovo Radio obs.	
Graff		N	1	OCl	Cl Graff	.	-	.	Author's name	= C 1832+051
Graham		-	1	OCl	NAME GRAHAM CL	.	-	.	Author's name	= C 1054-627

(a) GR = GRA
(b) GR = GR- = GR∗
(c) GR = GRDG
(d) GR 15 are Possible Red V ∗

Acronym	Usage	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
Grasdalen		-	1	OCl	NAME GRASDALEN C	1975V4	VRBA F.J.+	1975ApJ...197...77V	Author's name	= C 1622-243
GRB	*eq. GB*	YYMMDDA	.	(Gamma)	GB	1982K1	KLEBESADEL R.+	1982ApJ...259..L51K	Gamma Ray Burst	
GRB	*eq. GB*	YYMMDDA YYYY MMM DDA	.	(Gamma)	GB	1987A1	ATTEIA J.-L.+	1987ApJS...64..305A	Gamma Ray Burst	
Grb	*eq. Gmb*	NNNN	.	*	GMb	1905D1	DYSON F.W.+	.	Observer's name: Groombridge	
GRBS	*eq. GB*	YYMMDDA	.	(Gamma)	GB	1982K1	KLEBESADEL R.+	1982ApJ...259..L51K	Gamma Ray Burst Source	
GRBS	*eq. GB*	YYMMDDA YYYY MMM DDA	.	(Gamma)	GB	1987A1	ATTEIA J.-L.+	1987ApJS...64..305A	Gamma Ray Burst Source	
GRDG	*eq. GR*	+DD NN	.	Dw. G	p GRDG	1983R1	REAVES G.	1983ApJS...53..375R	G. Reaves, Dwarf G	
Groombridge	*eq. Gmb*	NNNN	.	*	GMb	1905D1	DYSON F.W.+	.	Observer's name: Groombridge	
GRS		LLL.ℓ+BB.b LLL.ℓℓ+BB.bb	.	(Rad)	GRS	.	-	.	Gal. radio source	Systematic *(a)*
Gru C		NN	17	(UV)	-	1983C3	CARRUTHERS G.R.+	1983ApJS...53..623C	Grus, in S 201 Catalog	
Gru NC		NN	23	(UV)	-	1983C3	CARRUTHERS G.R.+	1983ApJS...53..623C	Grus, Not in S 201 Catalog	
GRRV		NN	49	Red V * in LMC	GRRV	1985G1	GLASS I.S.+	1985MNRAS.214..405G	Authors' initials, Red Variable	*(b)*
GRV		NNN	116	Group of G	[V84]	1984V1	VENNIK J.	1984TarOT..73....1V	Group of G, Vennik	*(c)*
GRV		HHMM-DDMM	126+15	Red V * in LMC	GRV	1988R1	REID N.+	1988MNRAS.232...53R	Two authors' initials, Variable *	*(d)*

(a) GRS = (G)
(b) GRRV = (GR)
(c) GRV = (GR) = [V84]
(d) GRV = NRV

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
[GRV93]		NN	23	Neb. Obj.	[GRV93]	.	GYULBUDAGHIAN A.L.+	1993RMxAA..25...19G	Authors' initials, 1993	*(a)*
GRW	*eq. AC*	+DD NNNNA DD.NNNNN +DD NNNN-NNN	.	*	AC	1974EC	EICHHORN H.	.	Greenwich obs.	
GS		NNN	286	H II	-	1955G1	GAZE V.F.+	.	Authors' initials	*(b)*
GS	*eq. GSH*	LLL+BB+VV LLL+BB+VVV	.	H I Shell	p GSH	1979H1+ 1982W1	HEILES C. WATANABE T.	. 1982A&A...111..333W	Gal. Shell	
GSA		NNNA	137	G	-	1986P1	PETERSON B.A.+	1986MNRAS.221..233P	G, South, field A	*(c)*
GSAN		N	5	G	-	1986P1	PETERSON B.A.+	1986MNRAS.221..233P	G, South, field AN	*(d)*
GSC		FFFFFNNNNN FFFFF-NNNNN	$\simeq 25.10^6$	*	GSC	1990LS A 1990LS B 1990LS C	LASKER B.M.+ RUSSELL J.L.+ JENKNER H.+	1990AJ.....99.2019L 1990AJ.....99.2059R 1990AJ.....99.2082J	Guide Star Catalog	
GSD		NNN	179	G	-	1986P1	PETERSON B.A.+	1986MNRAS.221..233P	G, South, field D	*(e)*
GSF		NNN	100	G	-	1986P1	PETERSON B.A.+	1986MNRAS.221..233P	G, South, field F	*(f)*
GSH		LLL+BB+VV LLL+BB+VVV	107	H I Shell	p GSH	1979H1 A 1979H1 B 1982W1	HEILES C. HEILES C. WATANABE T.	1979ApJ...229..533H 1984ApJS...55..585H 1982A&A...111..333W	Gal. Shell, Heiles	*(g)*
GSPC		ANNN-A	1477	Ph. Std. *	GSPC	1988L2	LASKER B.M.+	1988ApJS...68....1L	Guide Star Photometric Catalog	*(h)*
GSS		NN	41	(IR) in ρ Oph DCld	p GSS	.	GRASDALEN G.L.+	1973ApJ...184L..53G	Authors' initials	*(i)*

(a) [GRV93] Plates for nebulous objects: Plates 1 to 5
(b) GS = (HS)
(c) GSA The numbering is of historic interest only, and have no well-defined meaning
(d) GSAN The numbering is of historic interest only, and have no well-defined meaning
(e) GSD The numbering is of historic interest only, and have no well-defined meaning
(f) GSF The numbering is of historic interest only, and have no well-defined meaning
(g) GSH = GS
(h) GSPC In the format, the first letter is P for Palomar (northern hemisphere) N=583, or S for SERC (southern hemisphere) N=894
(i) GSS not numbered, but found numbered (format NN) in later literature ; see the remark for VSSG

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
GT		HHMM+DDd	534	(Rad)	GT	1981G1 A 1981G1 B	GREGORY P.C.+ TAYLOR A.R.+	1981ApJ...248..596G 1983AJ.....88.1784T	Authors' initials	
GT		HHMM+DDda	1274	(Rad)	GT	1981G1 C	GREGORY P.C.+	1986AJ.....92..371G	Authors' initials	
GT		HHMM+DDMM	20	(Rad)	GT	1981G1 D	DURIC N.+	1988AJ.....95.1149D	Authors' initials	
GUM	*eq. Gum*	NNa NN	.	H II (4PN)	GUM	1955G2	GUM C.S.	1955MmRAS..67..155G	Author's name	
Gum		NNa NN	97	H II (4PN)	GUM	1955G2	GUM C.S.	1955MmRAS..67..155G	Author's name	*(a)*
GV		NNN	328	(Rad)	p GV	1968G3	GRUEFF G.+	1968ApL.....2..113G	Authors' initials	
GW		.		WD	-	.	-	.	Greenwich obs.	WD Nmcl
GW		LLL.ℓ+B.b	118	Gal. Worm	-	1992K1	KOO B.-C.+	1992ApJ...390..108K	Gal. Worm	*(b)*
[GWC93]		NN	70	(Rad)	[GWC93]	.	GRAY A.D.+	1993MNRAS.264..678G	Three first authors' initials, 1993	
GX		LLL.ℓ+BB.b LLL.l	-	(X)	GX	.	-	.	Gal. X-ray source	
[GY92]		NNN	481	(IR) in ρ Oph DCld	[GY92]	.	GREENE T.P.+	1992ApJ...395..516G	Authors' initials, 1992	no plates *(c)*
Gy1-		NN	13	RFN	Gy 1-	1982G1	GYULBUDAGHIAN A.L.	1982PAZh....8..222G	Author's name, list 1	*(d)*
Gy2-		NN	22	HH-like	Gy 2-	1982G2 A 1982G2 B	GYULBUDAGHIAN A.L. TORELLES J.M.+	1982SvAL....8..123G 1983RMxAA...8..147T	Discoverer's name: Gyulbudaghian, list 2	*(e)*

(a) Gum = (G) = GUM = (Stromlo)
PN -> Gum 27, 47, 52, 60
(b) GW Format: absence of leading zeroes, $|b|$ ¡ 10°
(c) [GY92] = (IRS)
(d) Gy1- = Gy 1- = (Gyulbudaghian)
(e) Gy2- = Gy 2-
Dont'use the numbering in the discovery list ref. 1982G2 A, the objects have been renumbered in 1982G2 B for and after No. 5, which is new

Acronym	Usage	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
Gy3-		NN	12	HH-like	Gy 3-	.	GYULBUDAGHIAN A.L.	1984Afz....20..631G	Author's name, list 3	*(a)*
Gy4-		N	5	*	Gy 4-	.	GYULBUDAGHIAN A.L.	1984ATsir.1342...7G	Author's name, list 4	*(b)*
Gy 1-	*eq. Gy1-*	NN	.	RFN	Gy 1-	1982G1	GYULBUDAGHIAN A.L.	1982PAZh....8..222G	Author's name, list 1	
Gy 2-	*eq. Gy2-*	NN	.	HH-like	Gy 2-	1982G2 B	TORELLES J.M.+	1983RMxAA...8..147T	Discoverer's name: Gyulbudaghian, list 2	
Gy 3-	*eq. Gy3-*	NN	.	HH-like	Gy 3-	.	GYULBUDAGHIAN A.L.	1984Afz....20..631G	Author's name, list 3	
Gy 4-	*eq. Gy4-*	N	.	*	Gy 4-	.	GYULBUDAGHIAN A.L.	1984ATsir.1342...7G	Author's name, list 4	
Gyulbudaghian	*use Gy1-*	NN	.	RFN	Gy 1-	1982G1	GYULBUDAGHIAN A.L.	1982PAZh....8..222G	Author's name	
1H	*eq. H*	HHMM+DD HHMM+DDd	.	(X)	H	1979M3 1983NJ 1984WM	MARSHALL F.E.+ NUGENT J.J.+ WOOD K.S.+	1979ApJS...40..657M 1983ApJS...51....1N 1984ApJS...56..507W	HEAO A-1 experiment	
H	*use [H32]*	NNN R	.	Neb. Obj. in M 31	[H32]	.	HUBBLE E.	1932ApJ....76...44H	Hubble	
H	*use H1-*	NN	.	PN	PN H 1-	.	HARO G.	1952BOTT....11...1H	Haro	
H	*use H2-*	NN	.	Poss. PN	PN H 2-	.	HARO G.	1952BOTT....11...1H	Haro	
H	*use Hoffleit*	NN	.	Bright N	-	1953H5	HOFFLEIT D.	1953AnHar.119...37H	Author's name	
H	*use Hf*	NN	.	PN	PN Hf	1953H5	HOFFLEIT D.	1953AnHar.119...37H	Author's name	
H		NN	24	(Rad)	-	1954H2	HADDOCK F.T.+	1954Natur.174..176H	Haddock	
H	*use Hodge*	NN	.	GCl in LMC	NAME HODGE	1960H2	HODGE P.W.	1960ApJ...131..351H	Hodge	
H	*use HIG*	NN	.	(Rad)	-	1966H1	HIGGS L.A.	1966MNRAS.132...67H	Higgs	
H	*use NRAO*	HHMM+DD	.	(Rad)	NRAO	1967H2	HOGLUND B.	1967ApJS...15...61H	Hoglund	

(a) Gy3- = Gy 3-
(b) Gy4- = Gy 4-

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
H		HHMM+DD	60	(Hard X)	H	1979M3 .	MARSHALL F.E.+ PICCINOTTI G.+	1979ApJS...40..657M 1982ApJ...253..485P	HEAO satellite	A-2 experiment *(a)*
H		HHMM+DD	114	(Soft X)	H	1983NJ	NUGENT J.J.+	1983ApJS...51....1N	HEAO satellite	A-2 experiment *(b)*
H		HHMM+DDd	72	(Hard X)	H	1984L1	LEVINE A.M.+	1984ApJS...54..581L	HEAO satellite	A4 experiment *(c)*
H		HHMM+DDd	842	(X)	H	1984WM	WOOD K.S.+	1984ApJS...56..507W	HEAO satellite	*(d)*
[H28]		VNN	50	V * in M 31	-	.	HUBBLE E.	1928ApJ....69..103H	Hubble, 1928	*(e)*
[H28]		NN	86	Nova in M 31	-	.	HUBBLE E.	1928ApJ....69..103H	Hubble, 1928	*(f)*
[H32]		NNN R	140+8	Neb. Obj. in M 31	[H32]	.	HUBBLE E.	1932ApJ....76...44H	Hubble, 1932	*(g)*
[H80]		NNN	730	Dark N in M 31	-	.	HODGE P.W.	1980AJ.....85..376H	Hodge, 1980	
H88	*eq. HodgeC88*	NNN	.	Cluster in LMC	H88	1988H2	HODGE P.	1988PASP..100.1051H	Hodge, 1988	
[H92]	*eq. HENG*	NN	.	G	[H92]	1992H1	HENNING P.A.	1992ApJS...78..365H	Henning, 1992	
H1-		NN	67	PN	PN H 1-	.	HARO G.	1952BOTT....11...1H	Haro, list 1 of PN	PN Nmcl *(h)*

(a) H = 1H = HEAO
(b) H = 1H = HEAO
(c) H = 1H = H4 = HEAO = HEAO 4-
(d) H = 1H = HEAO
(e) [H28] Tables I, II: (V1-V50) V for Variable *
(f) [H28] Tables IV, V: Nos 26, 36, 39 are rejected as novae, and the following omitted on the grounds that the preceding unobserved intervals are excessive: Nos 12, 13, 15, 24, 25, 38, 46, 47, 48, 53, and 73.
(g) [H32] = (H)
Format NNN: table I: (Nos 1-140); Format R: 8 objects probably associated with NGC 205 nebula (see p. 55, NGC 205 is a faint companion of M 31), written with a roman num. on the plates.
(h) H1- = (H) = H 1- = (HARO 2-) = (Haro 2-)
Table 1 in 1952BOTT.11.1H ; Nos 25 and 49 are rejected as PN in ref. 1992AO.

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
H2-		NN	48	Poss. PN	`PN H 2-`	.	HARO G.	`1952BOTT....11...1H`	Haro, list 2 of PN	PN Nmcl *(a)*
H3-		NN	2	PN	`PN H 3-`	`1953H4`	HARO G.+	`1953BOTT....18...3H`	Haro, list 3 of PN	PN Nmcl *(b)*
H4	*eq. H*	HHMM+DDd	.	(Hard X)	`H`	`1984L1`	LEVINE A.M.+	`1984ApJS...54..581L`	HEAO satellite, A-4 experiment	
H4-		N	1	PN	`PN H 4-`	.	HARO G.	`1951PASP...63..144H`	Haro, PN list 4	*(c)*
H 1-	*eq. H1-*	NN	.	PN	`PN H 1-`	.	HARO G.	`1952BOTT....11...1H`	Haro, PN list 1	
H 2-	*eq. H2-*	NN	.	Poss. PN	`PN H 2-`	.	HARO G.	`1952BOTT....11...1H`	Haro, PN list 2	
H 3-	*eq. H3-*	NN	.	PN	`PN H 3-`	`1953H4`	HARO G.+	`1953BOTT....18...3H`	Haro, PN list 3	
H 4-	*eq. H4-*	N	1	PN	`PN H 4-`	.	HARO G.	`1951PASP...63..144H`	Haro, PN list 4	
H2O		LLL.ℓ+BB.b LLL.$\ell\ell$+BB.bb	.	Gal. Maser or MCld	`GH2O`	.	-	.	H2O em. source	Systematic *(d)*
H2O		HHMM+DD	.	Maser or MCld	`H2O`	.	-	.	H2O em. source	Systematic *(e)*
H2O		LLL.$\ell\ell\ell$+BB.bbb	526	Gal. Maser	`GH2O`	`1988CP`	CESARONI R.+	`1988A&AS...76..445C`	H2O em. source	*(f)*
H2O		HHMM+DD	13	Exgl Maser	`H2O`	`1988CP`	CESARONI R.+	`1988A&AS...76..445C`	H2O em. source	
HA		N	7	(Rad)	`-`	`1972A3`	ARP H.C.	`1972ApJ...174.L111A`	H. Arp	
Ha	*eq. Haffner*	NNa (N)	.	OCl	`Cl Haffner`	`1957H1`	HAFFNER H.	`1957ZA.....43...89H`	Author's name	

(a) H2- = (H) = H 2- = (HARO 3-) = (Haro 3-)
Table 2 in 1952BOTT.11.1H ; H2-9 is a Nova
(b) H3- = H 3- = (HARO 6-) = (Haro 6-)
H3-29 = Haro 6-29 = PN G174.2-14.6; H3-75 = Haro 6-75 = PN G193.6-09.5
(c) H4- = H 4-
H4-1 = PN G049.3+88.1 = PK 049+88 1
(d) H2O = GH2O
May be either an acronym (with format LLL.$\ell\ell$+BB.bb) or a specificator
(e) H2O May be either an acronym (with format LLL.$\ell\ell$+BB.bb) or a specificator
(f) H2O = GH2O

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
HAFFNER	*eq. Haffner*	NNa (N)	.	OCl	`Cl Haffner`	1957H1	HAFFNER H.	`1957ZA.....43...89H`	Author's name	
Haffner		NNa (N)	26	OCl	`Cl Haffner`	1957H1	HAFFNER H.	`1957ZA.....43...89H`	Author's name	C Nmcl *(a)*
HARO	*eq. Haro*	NN	.	Em. * + Blue G	`p HARO`	1956H4	HARO G.	.	Author's name	
HARO 1-	*eq. Haro 1-*	NN	.	Em. *	`HARO 1-`	1949H1	HARO G.	`1949AJ.....54..188H`	Author's name, list 1	
HARO 2-	*use H1-*	NN	.	PN	`PN H 1-`	.	HARO G.	`1952BOTT....11...1H`	Author's name, list 2	
HARO 3-	*use H2-*	Poss. NN	.	PN	`PN H 2-`	.	HARO G.	`1952BOTT....11...1H`	Author's name, list 3	
HARO 4-	*eq. Haro 4-*	NNN	.	Em. Obj.	`Haro 4-`	1953H2	HARO G.	`1953ApJ...117...73H`	Author's name, list 4	
HARO 5-	*eq. Haro 5-*	NN	.	Em. *	`Haro 5-`	1953H3	HARO G.+	`1953BOTT....17..11H`	Author's name, list 5	
HARO 6-	*eq. Haro 6-*	NN	.	Em. *	`Haro 6-`	1953H4	HARO G.+	`1953BOTT....18...3H`	Author's name, list 6	
HARO 6-	*use H3-*	NN	.	PN	`PN H 3-`	1953H4	HARO G.+	`1953BOTT....18...3H`	Author's name, list 6	
HARO 7-	*eq. Haro 7-*	NN	.	Em. *	`Haro 7-`	1972HR	HARO G.+	`1972ApJ...174..401H`	Author's name, list 7	
Haro	*use Haro 4-*	NNN	.	Em. Obj.	`Haro 4-`	1953H2	HARO G.	`1953ApJ...117...73H`	Author's name	
Haro		NN	44	Em. G + Blue G	`p HARO`	1956H4	HARO G.	.	Author's name	*(b)*
Haro 1-		NN	17	Em. *	`Haro 1-`	1949H1	HARO G.	`1949AJ.....54..188H`	Author's name, list 1	*(c)*
Haro 2-	*use H1-*	NN	.	PN	`PN H 1-`	.	HARO G.	`1952BOTT....11...1H`	Author's name, list 2	

(a) Haffner = Ha = HAFFNER
(b) Haro = HARO = (T)
(c) Haro 1- = HARO 1-

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
Haro 3-	*use H2-*	Poss. NN	.	PN	PN H 2-	.	HARO G.	1952BOTT....11...1H	Author's name, list 3	
Haro 4-		NNN	255	Em. Obj.	Haro 4-	1953H2	HARO G.	1953ApJ...117...73H	Author's name, list 4	*(a)*
Haro 5-		NN	98	Em. *	Haro 5-	1953H3	HARO G.+	1953BOTT....17..11H	Author's name, list 5	*(b)*
Haro 6-		NN	71	Em. *	Haro 6-	1953H4	HARO G.+	1953BOTT....18...3H	Author's name, list 6	*(c)*
Haro 6-	*use H3-*	NN	.	PN	PN H 3-	1953H4	HARO G.+	1953BOTT....18...3H	Author's name, list 6	
Haro 7-		NN	-	Em. *	Haro 7-	1972HR	HARO G.+	1972ApJ...174..401H	Author's name, list 7	*(d)*
Harvard		NN	47	OCl	Cl Harvard	.	-	.	Harvard univ.	C Nmcl
HaTr		NN	14	PN	-	.	HARTL H.+	1985A&A...145...41H	Authors' names	See ref. 1982AC D *(e)*
Haute Provence		N	6?	GCl	Cl Haute-Provence	.	-	.	Haute Provence obs.	*(f)*
Havlen-Moffat		-	1	OCl	-	1977H1	HAVLEN R.J.+	1977A&A....58..351H	Authors' names	= C 1715-387
HaWe		N	3	PN	-	.	HARTL H.+	1987A&AS...69..519H	Authors' names	PN Nmcl *(g)*
HAWK		NN	26	V *	p HAWK	.	HAWKINS M.R.S.	1984MNRAS.206..433H	Author's name	Identif. charts *(h)*
HB		HHMM+DDd	.	(X)	-	.	-	.	Hakucho Burster	
HB	*eq. Hubble*	NN	.	PN	PN Hb	.	HUBBLE E.P.	1921PASP...33..174H	Author's name	

(a) Haro 4- = (Haro) = HARO 4-
(b) Haro 5- = HARO 5- = (HM)
(c) Haro 6- = HARO 6-
(d) Haro 7- = HARO 7-
(e) HaTr = HtTr
(f) Haute Provence = OHP = HP
No. 1 = An. (Dufay, Berthier, Morignat) = C 1727-299 ; Nos 2, 3, 4, 5 are Terzan 1, 2, 4, 6 respectively.
(g) HaWe HaWe 3, 5, 9 are true PN in ref. 1992AO
(h) HAWK = (R)

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
HB		NN	23	(Rad)	p HB	1953H1	HANBURY BROWN R.+	1953MNRAS.113..123H	Hanbury Brown	*(a)*
Hb	*eq. Hubble*	NN	.	PN	PN Hb	.	HUBBLE E.P.	1921PASP...33..174H	Author's name	
HBC	*eq. HRC*	NNN	.	Em. *	HBC	1972HR	HERBIG G.H.+	1972ApJ...174..401H	Herbig Bell Catalog	
HBC		NNN	742	Em. *	HBC	1988HB A 1988HB B	HERBIG G.H.+ WEAVER Wm.+	1988LicOB1111....1H 1992ApJS...78..239W	Herbig Bell Catalog	*(b)*
HBDS		N	1	PN	-	.	HEBER U.+	1984MitAG..62..252H	Authors' names	*(c)*
Hbg		NNNN	1660	OB *	Hbg	1966K3 1977G1	KLARE G.+ GARRISON R.F.+	1966VeHei..18....9K 1977ApJS...35..111G	Heidelberg objective prism survey	*(d)*
HBH	*use HB*	NN	.	(Rad)	p HB	1953H1	HANBURY BROWN R.+	1953MNRAS.113..123H	Authors' initials	
HBMR		NN	31	(Rad)	-	1964H1	HIGGS L.A.+	1964MNRAS.127..367H	Authors' initials	
HBV	*CRAMPTON D.+*	NNN	.	V * (1PN)	SV* HBV	.		1970ApL.....6....5C	Hamburg-Bergedorf obs., Variable *	V * Nmcl *(e)*
HC		NN	45	(Rad)	p HC	1969H1	HOLDEN D.J.+	1969MNRAS.143..407H	Authors' initials	
HC	*use [HC88]*	NNN	.	* in LMC	[HC88]	.	HARTWICK F.D.A.+	1988ApJ...334..135H	Authors' initials	
[HC88]		NNN	53	CH * in LMC	[HC88]	.	HARTWICK F.D.A.+	1988ApJ...334..135H	Authors' initials, 1988	*(f)*
[HC89]		NN	47	(Rad)	[HC89]	.	HELFAND D.J.+	1989AJ.....98.1652H	Authors' initials, 1989	

(a) HB = (HBH)
(b) HBC Replaces HRC (ref. 1972HR) for Nos 1-323 ; Note that the letter "n" or an asterisk are not part of the designation, but are separate items of information: n means star embedded in a nebulosity
(c) HBDS HBDS 1 = PN G049.3+88.1 = PK 049+88 1
(d) Hbg = (KS)
(e) HBV HBV 475 = V1329 CYG = PK 077-05 1 (PN + M4+WN5 symbiotic *) ; see ref. 1981VH A, p. 277
For the Magellanic Clouds, the HBV stars are identified in ref. 1967HW and 1977HW ; see also Gaposhkin ref. 1970G2
(f) [HC88] = (HC) = LMC CH
N=53 among (Nos 1-222)

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
HCG		NNN	100	Group of G	HCG	1982H2 A 1982H2 B	HICKSON P. HICKSON P.+	1982ApJ...255..382H 1989ApJS...70..687H	Hickson, Compact Group	*(a)*
HCG		NNNa	463	G in Group of G	HCG	1982H2 B	HICKSON P.+	1989ApJS...70..687H	Hickson, Compact Group	*(b)*
[HCH93]		NN	54	$*$ in SMC	[HCH93]	.	HATZIDIMITRIOU D.+	1993MNRAS.261..873H	Authors' initials, 1993	*(c)*
HD		NNNNNN	225300	$*$	HD	1918C1	CANNON A.J.+	1918AnHar..91.....C	H. Draper catalog	
HDE		NNNNNN	$\simeq$ 130000	$*$	HD	1925C1 A 1925C1 B 1925C1 C	CANNON A.J. CANNON A.J.+ ROSER S.+	1925AnHar.100...17C 1949AnHar.112....1C 1991A&AS...88..277R	H. Draper, Extension	
HDN		NN	45	DCld in SMC	-	1974H5	HODGE P.W.	1974PASP...86..263H	Hodge, Dark Nebula	
HDW	*eq. HtDe*	NN	.	PN + Poss. PN	-	.	HARTL H.+	1983MitAG..60..325H	Authors' initials	
HE	*use He2-*	NNN	.	PN	HE 2-	.	HENIZE K.G.	1967ApJS...14..125H	Author's name	
HE	*use He3-*	NNNN	.	Em. $*$ (23PN)	HE 3-	1976H2	HENIZE K.G.	1976ApJS...30..491H	Author's name	
He	.			WD	-	.	-	.	Hertzsprung	WD Nmcl
He1-		N	7	PN	HE 1-	.	HENIZE K.G.	1961PASP...73..159H	Author's name, list 1	*(d)*
He2-		NNN	468	PN	HE 2-	.	HENIZE K.G.	1967ApJS...14..125H	Author's name, list 2	PN Nmcl *(e)*
He3-		NNNN	1929	Em. $*$ (23PN)	HE 3-	1976H2	HENIZE K.G.	1976ApJS...30..491H	Author's name, list 3	*(f)*
HE 1-	*eq. He1-*	N	.	PN	HE 1-	.	HENIZE K.G.	1961PASP...73..159H	Author's name, list 1	

(a) HCG = (HICK)
(b) HCG = (HICK)
(c) [HCH93] N=54 $*$ among (Nos 1-63)
(d) He1- = HE 1- = He 1-
(e) He2- = (HE) = HE 2- = He 2- = (HEN) = (LHα)
(f) He3- = (HE) = HE 3- = He 3- = (HEN) = HEN 3
23 objects are compiled as PN, see PN Nmcl

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
HE 2-	*eq. He2-*	NNN	.	PN	HE 2-	.	HENIZE K.G.	1967ApJS...14..125H	Author's name, list 2	
HE 3-	*eq. He3-*	NNNN	.	Em. * (23PN)	HE 3-	1976H2	HENIZE K.G.	1976ApJS...30..491H	Author's name, list 3	
He 1-	*eq. He1-*	N	.	PN	HE 1-	.	HENIZE K.G.	1961PASP...73..159H	Author's name, list 1	
He 2-	*eq. He2-*	NNN	.	PN	HE 2-	.	HENIZE K.G.	1967ApJS...14..125H	Author's name, list 2	
He 3-	*eq. He3-*	NNNN	.	Em. * (23PN)	HE 3-	1976H2	HENIZE K.G.	1976ApJS...30..491H	Author's name, list 3	
HEAO	*eq. H*	HHMM+DD HHMM+DDd	.	(X)	H	1979M3 . 1983NJ 1984L1	MARSHALL F.E.+ PICCINOTTI G.+ NUGENT J.J.+ LEVINE A.M.+	1979ApJS...40..657M 1982ApJ...253..485P 1983ApJS...51....1N 1984ApJS...54..581L	HEAO satellite	A-2 experiment
HEAO 4-	*eq. H*	HHMM+DDd	.	(Hard X)	H	1984L1	LEVINE A.M.+	1984ApJS...54..581L	HEAO satellite, A-4 experiment	
HeFa	*eq.*	N	.	PN	-	.	HENIZE K.G.+	1983IAUS..103..544H	Authors' names	
HeFe	*eq. HFG*	N	.	PN	PN HFG	.	HECKATHORN J.N.+	1982A&A...114..414H	Authors' initials	
HEN	*use He2-*	NNN	.	PN	HE 2-	.	HENIZE K.G.	1967ApJS...14..125H	Author's name	
HEN	*use He3-*	NNNN	.	Em. * (23PN)	HE 3-	1976H2	HENIZE K.G.	1976ApJS...30..491H	Author's name	
HEN 3-	*eq. He3-*	NNNN	.	Em. * (23PN)	HE 3-	1976H2	HENIZE K.G.	1976ApJS...30..491H	Author's name	
HENG		NN	39	G	[H92]	1992H1	HENNING P.A.	1992ApJS...78..365H	Author's name, G	*(a)*
Hen N	*eq. LHA 115-N*	NN	.	H II in SMC	LHA 115-N	1956H2	HENIZE K.G.	1956ApJS....2..315H	Author's name, Nebula	

(a) HENG = [H92]

Acronym	Usage	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
Hen N	*eq. LHA 120-N*	NN	.	H II in LMC	LHA 120-N	1956H2	HENIZE K.G.	1956ApJS....2..315H	Author's name, Nebula	
Hen S	*eq. LHA 115-S*	NN	.	Em. * in SMC	LHA 115-S	1956H2	HENIZE K.G.	1956ApJS....2..315H	Author's name, Star	
Hen S	*eq. LHA 120-S*	NN	.	Em. * in LMC	LHA 120-S	1956H2	HENIZE K.G.	1956ApJS....2..315H	Author's name, Star	
HENIZE	*eq. HENUN*	NNN	.	*	p HENUN	.	-	.	Author's name	
HENUN		NNN	.	*	p HENUN	.	-	.	Henize, Unpublished list	Unpublished *(a)*
Herbig		NN	33	RFN	-	1954H1 F	HERBIG G.H.	1959ApJS....4..337H	Author's name	
Herbst	*use VdBH*	NN	.	RFN	VDBH	1975V1 B	HERBST W.	1975AJ.....80..212H	Author's name	
Herbst	*use VdBH*	NNa	.	* in RFN	VDBH	1975V1 B	HERBST W.	1975AJ.....80..212H	Author's name	
HERZ		NNNNN	.	*	HERZ	.	HERZ N.	.	Author's name	
Hf	*eq. Hoffleit*	NN	.	Bright N	-	1953H5	HOFFLEIT D.	1953AnHar.119...37H	Author's name	
Hf		NN	6	PN	PN Hf	1953H5	HOFFLEIT D.	1953AnHar.119...37H	Author's name	*(b)*
Hf2-		N	2	PN	PN Hf 2-	1953H5	HOFFLEIT D.	1953AnHar.119...37H	Author's name	PN Nmcl *(c)*
Hf 2-	*eq. Hf2-*	N	.	PN	PN Hf 2-	1953H5	HOFFLEIT D.	1953AnHar.119...37H	Author's name	
HFE		NN	72	(Far IR)	-	1971H1	HOFFMANN W.F.+	1971ApJ...170..L89H	Authors' initials	
HFG		N	1	PN	PN HFG	.	HECKATHORN J.N.+	1982A&A...114..414H	Authors' initials	*(d)*

(a) HENUN = HENIZE
(b) Hf = (H) = Hoffleit
Hf 4, 38, 39, 48, 62, 69 are compiled as PN
(c) Hf2- = Hf 2-
(d) HFG = HeFe
HFG 1 = PN G136.3+05.5 = PK 136+05 1

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
HFS1-		NNN	359	Flare * in Orion	HPRA	1968H3 A 1968H3 B 1968H3 C 1968H3 D 1968H3 E	HARO G. HARO G.+ PARSAMIAN E.+ CHAVIRA E.+ PARSAMIAN E.+	. 1969BITon...5...59H 1978BITon...2..341P 1991RMxAA..22...15C 1993RMxAA..25...71P	Haro, Flare *, table 1	*(a)*
HFS3-		NN	13	Flare * in NGC 2264	Cl* NGC 2264 HAR	1968H3 A	HARO G.	.	Haro, Flare *, table 3	*(b)*
HFS4-		NN	11	Flare * in Tau DCld	-	1968H3 A	HARO G.	.	Haro, Flare *, table 4	*(c)*
HFS5-		NN	61	Flare * in Pleiades	Cl* Melotte 22 HAR	1968H3 A	HARO G.	.	Haro, Flare *, table 5	*(d)*
HFS7-		N	4	Flare * in Coma	-	1968H3 A	HARO G.	.	Haro, Flare *, table 7	*(e)*
HFS8-		NN	11	Flare * in Praesepe	Cl* NGC 2632 HAR	1968H3 A	HARO G.	.	Haro, Flare *, table 8	*(f)*
HG		F-NNN	292	WD	HG	1962G1	GICLAS H.L.+	1962LowOB...5..257G	Hyades, Giclas	WD Nmcl *(g)*
HG	*use HGCG*	NN	.	Group of G	-	1982H1	HUCHRA J.P.+	1982ApJ...257..423H	Authors' initials	
HGCG		NN	92	Group of G	-	1982H1	HUCHRA J.P.+	1982ApJ...257..423H	Authors' initials, Cluster of G	*(h)*

(a) HFS1- = HPRA = (T) = (Ton) = (Tonantzintla)
Nos 255, 256, 258, 259, 299-325 are missing.
(b) HFS3- = (Tonantzintla)
(c) HFS4- = (Tonantzintla)
(d) HFS5- = (Tonantzintla)
(e) HFS7- = (Tonantzintla)
(f) HFS8- = (Tonantzintla)
(g) HG = (G) = (GH)
(h) HGCG = (GNO) = (HG)

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
HGT		NNN	61+76	*	HGT	.	HALPERN J.P.+	1985ApJ...296..190H	Authors' initials	*(a)*
						.	HALPERN J.P.+	1988ApJ...330..201H		
HH		NNNA	138	HH	HH	1974H2 A	HERBIG G.H.	1974LicOB.658.....H	Herbig Haro obj.	*(b)*
		NNNa				1974H2 B	STROM S.E.+	1974ApJ...191..111S		
		NNNAN				1974H2 C	SCHWARTZ R.D.	1977ApJS...35..161S		
		NNN(W)				1974H2 D	DOPITA M.A.	1978ApJS...37..117D		
		NNNAW				1974H2 E	HERBIG G.H.+	1981AJ.....86.1232H		
						1974H2 F	DOPITA M.A.+	1982ApJ...263L..73D		
						1974H2 G	JONES B.F.+	1982AJ.....87.1223J		
						1974H2 H	HERBIG G.H.+	1983AJ.....88.1040H		
						1974H2 I	SCHWARTZ R.D.+	1984AJ.....89.1735S		
						1974H2 J	PETTERSSON B.	1984A&A...139..135P		
						1974H2 K	HARTIGAN P.+	1985ApJS...59..383H		
						1974H2 L	HARTIGAN P.+	1987AJ.....93..913H		
						1974H2 M	JONES B.F.+	1987AJ.....94.1260J		
						1974H2 N	REIPURTH B.+	1988A&A...202..219R		
						1974H2 O	REIPURTH B.	1989A&A...220..249R		
						1974H2 P	REIPURTH B.	1989Natur.340...42R		
						1974H2 Q	REIPURTH B.+	1989Msngr..55...32R		
						1974H2 R	OGURA K.	1990PASP..102.1366O		
						1974H2 S	REIPURTH B.+	1990A&A...229..527R		
						1974H2 T	OGURA K.+	1991AJ....101..185O		
						1974H2 U	OGURA K.	1991AJ....101.1803O		
						1974H2 V	REIPURTH B.+	1991A&A...246..535R		
						1974H2 W	OGURA K.	1991PASAu...9..295O		
						1974H2 X	REIPURTH B.+	1992A&A...256...L1R		
						1974H2 Y	REIPURTH B.+	1992A&A...256..225R		
						1974H2 Z	REIPURTH B.+	1992A&A...257..693R		
						1974H2AA	WALSH J.R.+	1992MNRAS.257..110W		
						1974H2AB	OGURA K.+	1992ApJ...400..248O		
						1974H2AC	REIPURTH B.+	1993A&A...273..221R		
						1988VH	VON HIPPEL T.+	1988A&AS...74..431V		
HH-	*eq. HH*	NNNA	.	HH	HH	1974H2+	HERBIG G.H.	.	Herbig Haro obj.	
		NNNa				1988VH	VON HIPPEL T.+	1988A&AS...74..431V		
		NNNAN								
		NNN(W)								
		NNNAW								

(a) HGT (Nos 1-61) in the first ref., (Nos 101-176) in the second ref. Identif. charts
(b) HH = HH- = H-H
Numerous subdivisions (may be A, A1, AS where S stands for south, etc..) ; Nos 37, and 121 are missing. Ref. 1988A&AS.74.431V (1988VH) is a compilation.
A complete revision and the extension of the numbering to numerous HH or HH-like objects is under completion (as of April 1994) by B. Reipurth.

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
H-H	*eq. HH*	NNNA NNNa NNNAN NNN(W) NNNAW	.	HH	`HH`	`1974H2+` `1988VH`	HERBIG G.H. VON HIPPEL T.+	. `1988A&AS...74..431V`	Herbig Haro obj.	
[HHC93]		FFNN	35	*	-	.	HUGHES J.+	`1993AJ....105..571H`	Authors' initials, 1993	*(a)*
HHIC	*catalog: use PGC*	NNNNN	.	G	`PGC`	`1989PF D`	BOTTINELLI L.+	`1990A&AS...82..391B`	Homogeneized Hydrogen I Catalog	
HHL		NN	77	HH-like	`p HHL`	`1987G1`	GYULBUDAGHIAN A.L.+	`1987RMxAA..15...53G`	Herbig Haro Like obj.	
HIC	*catalog: use PGC*	NNNNN	.	G	`PGC`	`1989PF C`	PATUREL G.+	.	Hydrogen I Catalog	
HIC		NNNNNNA	118322	*	-	`1992TC A` `1992TC B`	TURON C.+ TURON C.+	. `1992BICDS..41....9T`	Hipparcos Input Catalogue	
HICK	*use HCG*	NNN	.	Group of G	`HCG`	`1982H2+`	HICKSON P.	.	Hickson, Compact Group	
HICK	*use HCG*	NNNa	.	G in Group of G	`HCG`	`1982H2 B`	HICKSON P.+	`1989ApJS...70..687H`	Hickson, Compact Group	
HIG		NN	31	(Rad)	-	`1966H1`	HIGGS L.A.	`1966MNRAS.132...67H`	Author's name	*(b)*
HILT	*eq. Hilt*	NNNN	.	OB *	`HILT`	`1956H3`	HILTNER W.A.	`1956ApJS....2..389H`	Author's name	
Hilt		NNNN	1259	OB *	`HILT`	`1956H3`	HILTNER W.A.	`1956ApJS....2..389H`	Author's name	*(c)*
Hiltner	*eq. Hilt*	NNNN	.	OB *	`HILT`	`1956H3`	HILTNER W.A.	`1956ApJS....2..389H`	Author's name	
HIP		-	-	*	-				Hipparcos catalogue	*(d)*

(a) [HHC93] 35 * in Lupus field. In the format two first digits FF: first digit is the letter F for Field, and second digit (Nos 1-4) of the field; two last digits NN: running number in each field. The format is always a four digits format. Ex.: Object F409 is the star 9 in the field F4. No identif. charts.
(b) HIG = (H)
(c) Hilt = HILT = Hiltner
(d) HIP in preparation, results of Hipparcos mission.

Acronym	Usage	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
HJM		AFF-NNa	96	(IR) in Cha DCld	HJM	. .	HYLAND A.R.+ JONES T.J.+	1982MNRAS.201.1095H 1985AJ.....90.1191J	Authors' initials	*(a)*
H-K		NN	30	Red Dw.	-	1965K2	KLARE G.+	1965Obs....85..202K	Heidelberg Konigstuhl obs.	
HKV		-	-	PN	-	.	HRIVNAK B.J.+	1988ApJ...331..832H	Authors' initials	
HL		CCC NN	.	WD	HL	.	HARO G.+	1961BOTT....3...35H	Authors' initials	
HL	*use PHL*	NNNN	.	Faint Blue ∗	PHL	1962H1+	HARO G.+	.	Authors' initials	
HLF		NA	4	Field	-	1966P2	PHILIP A.G.D.	1966ApJS...12..391P	High Latitude Field	
HLF2		DD NNN	1895	∗	-	1966P2	PHILIP A.G.D.	1966ApJS...12..391P	High Latitude Field 2	
Hln		NN	17	Double ∗	-	1974H4	HOLDEN F.	1974PASP...86..907H	Author's name	
HLS		GNN NN	11	G	HLS	.	HOFFMAN G.L.+	1992AJ....104.2086H	Authors' initials	*(b)*
HM	*use Haro 5-*	NN	.	Em. ∗	Haro 5-	1953H3	HARO G.+	1953BOTT....17..11H	Authors' initials	
HM		NNNN	1293	(Rad)	-	1965H2	HOWARD W.E.III+	1965ApJS...10....1H	Authors' initials	
HM	*use MLO*	HHMM+DDA HHMM+DD.d	.	(Rad)	-	1970H1	HOSKINS D.G.+	1970AuJPS..15....1H	Authors' initials	
HM		NN	32	Em. ∗	ASS CHA T 1-	1973H3	HENIZE K.G.+	1973ApJ...180..115H	Henize + Mendoza	*(c)*
HMEN	*eq. HM* +1(2 aut.)	NN	.	Em. ∗	ASS CHA T 1-	1973H3	HENIZE K.G.+	1973ApJ...180..115H	Henize + Mendoza	

(a) HJM In the format AFF is for (C1 to C10) or (E1 to E4) "blocks". Numbering of objects in the "block" C1 is continued in the second ref.
(b) HLS The format GNN (G for Galaxy) is used by authors, the format NN is found in the literature. No identif. charts.
(c) HM = ASS CHA T 1- = HMEN

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
HMV		HHMM+DDMMA NN	15	MCld	`HMS`	1956H1 A 1956H1 B .	HUMASON M.L.+ NOONAN T.W. HEITHAUSEN A.+	1956AJ.....61...97H 1973AJ.....78...26N 1987A&A...179..263H	Authors' initials	*(a)*
Hn		NN	26	Hα obj. in Cha	`Hn`	.	HARTIGAN P.	1993AJ....105.1511H	Hartigan	
HO		+DD A	2544	* near NGP	`p HO`	1973H1	HAGGKVIST L.+	1973A&AS...12..381H	Authors' initials	*(b)*
H.O.	*eq. HO*	+DD A	.	* near NGP	`p HO`	1973H1	HAGGKVIST L.+	1973A&AS...12..381H	Authors' initials	
Ho	*eq. Holmberg*	R	.	G	`NAME HOLMBERG`	1950H1	HOLMBERG E.	.	Author's name	
Ho	*eq. Hogg*	NNN	.	OCl	`Cl Hogg`	1965H1	HOGG A.R.	.	Author's name	
Hoag	*eq. HS*	NN	.	QSO	-	1977H2	H0AG A.A.+	1977ApJ...217..362H	Discoverer's name	
Hoag		N	3	QSO	`NAME HOAG`	.	BURBIDGE E.M.+	1980ApJ...242L..55B	Discoverer's name	
Hodge		NN	12	GCl in LMC	`NAME HODGE`	1960H2	HODGE P.W.	1960ApJ...131..351H	Author's name	*(c)*
HodgeC60	*eq. Hodge*	NN	.	GCl in LMC	`NAME HODGE`	1960H2	HODGE P.W.	1960ApJ...131..351H	Author's name, C, 1960	
HodgeC86		NNN	213	Cluster in SMC	-	1986H2	HODGE P.	1986PASP...98.1113H	Author's name, C, 1986	
HodgeC88		NNN	390	Cluster in LMC	`H88`	1988H2	HODGE P.	1988PASP..100.1051H	Author's name, C, 1988	*(d)*
Hoffleit		NN	63	Bright N	-	1953H5	HOFFLEIT D.	1953AnHar.119...37H	Author's name	*(e)*
Hoffleit	*use Hf*	NN	.	PN	`PN Hf`	1953H5	HOFFLEIT D.	1953AnHar.119...37H	Author's name	

(a) HMV = (Cl)
(b) HO = H.O.
(c) Hodge = (H) = HodgeC60
Nos 1-14 ; Nos 12, 13 are missing
(d) HodgeC88 = H88
Hodge 11 = H 11 = SL 868 (sometimes printed H II) (α = 06h14.6m, δ = -69°51m, 1975), is not from this reference
(e) Hoffleit = (H) = Hf

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
Hogg		NNN	133	OCl	Cl Hogg	1965H1	HOGG A.R.	.	Author's name	C Nmcl *(a)*
Hol	*eq. Holetschek*	.		OCl	-	.	-	.	Author's name	
Holetschek		.		OCl	-	.	-	.	Author's name	C Nmcl *(b)*
Holm	*eq. Holmberg*	R	.	G	NAME HOLMBERG	1950H1	HOLMBERG E.	.	Author's name	
HOLMBERG	*eq. Holmberg*	R	.	G	NAME HOLMBERG	1950H1	HOLMBERG E.	.	Author's name	
Holmberg		R	.	G	NAME HOLMBERG	1950H1	HOLMBERG E.	.	Author's name	*(c)*
HP	*eq. Haute Provence*	N	.	GCl	Cl Haute-Provence	.	-	.	Obs. de Haute Provence	
HP	*use PSR*	HHMM+DD	.	PSR	PSR	1976TD	TERZIAN Y.+	1976Ap&SS..44..479T	Harvard obs., Pulsar	Superseded by PSR
HPRA	*eq. HFS1-*	NNN	.	Flare * in Ori	HPRA	1968H3+	HARO G.	.	Haro, Parsamian, RAfaga (spanish)	
HPW		NN R	50	Dw. G	-	1965H3	HODGE P.W.+	1965AJ.....70..559H	Authors' initials	
HR	*eq. BS*	NNNN	.	*	HR = BS	1964HF+ 1982HJ+	HOFFLEIT D. HOFFLEIT D.+	. .	Harvard obs., Revised photometry	
HR		NN	55	(Rad)	-	1969H2	HUGHES V.A.+	1969AJ.....74..604H	Authors' initials	
[HR92]		NN	44	* in HH 34 complex	[HR92]	.	HEATHCOTE S.+	1992AJ....104.2193H	Authors' initials, 1992	Table 2
HRC		NNN	323	Em. *	HBC	1972HR	HERBIG G.H.+	1972ApJ...174..401H	Herbig + Rao, Catalog	*(d)*
HRG		FFFNN	108	Ring G	HRG	.	FAUNDEZ-ABANS M.+	1992A&AS...94..245F	Hertling, Ring Galaxy	*(e)*

(a) Hogg = (Ho)
(b) Holetschek = Hol
Not quoted in 1970AR nor in 1979LY
(c) Holmberg = (Ho) = Holm= HOLMBERG
(d) HRC = HBC
subset of HBC (ref. 1988HB), use acronym HBC ; Better information in ref. 1988HB.
(e) HRG Format FFFNN: always 5 digitswithout space or separator, the first three FFF are ESO plate number, the two last NN are ring galaxy running number in that plate.

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
HS		NNN	455	OCl in LMC	`p HS`	`1966H2`	HODGE P.W.+	`1966AJ.....71..363H`	Authors' initials	Identif. charts
HS		NN	75	QSO	`-`	`1977H2`	H0AG A.A.+	`1977ApJ...217..362H`	Authors' initials	*(a)*
HS	*use GS*	NNN	.	H II	`-`	`1955G1`	GAZE V.F.+	.	Authors' initials (erroneous)	*(b)*
HS		HHMM+DDMM	-	(Opt)	`-`	.	VOGEL S.+	`1993A&AS...98..193V`	Hamburg Survey	*(c)*
HSNH		NNN	144	(Rad)	`HSNH`	`1987H1`	HANDA T.+	`1987PASJ...39..709H`	Four first authors' initials	
HtTr	*eq. HaTr*	N	.	PN	`-`	.	HARTL H.+	`1985A&A...145...41H`	Authors' names	
HtDe		NN	-	PN	`-`	.	HARTL H.+	`1983MitAG..60..325H`	Two first authors' names	*(d)*
Hu1-		N	2	PN	`PN Hu 1-`	.	HUMASON M.L.	`1921PASP...33..175H`	Author's name	PN Nmcl *(e)*
Hu2-		N	1	PN	`PN Hu 2-`	.	HUMASON M.L.	`1922PASP...34..296H`	Author's name	*(f)*
Hu 1-	*eq. Hu1-*	N	.	PN	`PN Hu 1-`	.	HUMASON M.L.	`1921PASP...33..175H`	Author's name	
Hu 2-	*eq. Hu2-*	N	.	PN	`PN Hu 2-`	.	HUMASON M.L.	`1922PASP...34..296H`	Author's name	
Hub	*eq. Hubble*	NN	.	PN	`PN Hb`	.	HUBBLE E.P.	`1921PASP...33..174H`	Author's name	
HUBB I		NN	33	Neb. Obj.	`HUBB I`	.	HUBBLE E.	`1922ApJ....56..162H`	Author's name, Table I	*(g)*
HUBB II		NN	29	Neb. Obj.	`HUBB II`	.	HUBBLE E.	`1922ApJ....56..162H`	Author's name, Table II	*(h)*

(a) HS = Hoag
(b) HS Ref. 1955G1, HS: Erroneous translit. Haze for Gaze
(c) HS First reference from this survey. In this ref., N=32 Em. G
(d) HtDe = HDW
(e) Hu1- = Hu 1-
(f) Hu2- = Hu 2-
Hu2-1 = PN G051.4+09.6 = PK 051+09 1
(g) HUBB I = Hubble I
Table I: diffuse neb. with continuous spectra, ex. IC 348, Pleiades..
(h) HUBB II = Hubble II
Table II: diffuse neb. with em. spectra, ex. NGC 1499, NGC 6611..

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
Hubble		NN	12	PN (2 are not PN)	`PN Hb`	.	HUBBLE E.P.	`1921PASP...33..174H`	Author's name	Hb 10, 11 are not PN *(a)*
Hubble I	*eq. HUBB I*	NN	.	Neb. Obj.	`HUBB I`	.	HUBBLE E.	`1922ApJ....56..162H`	Author's name, Table I	
Hubble II	*eq. HUBB II*	NN	.	Neb. Obj.	`HUBB II`	.	HUBBLE E.	`1922ApJ....56..162H`	Author's name, Table II	
HuBi		-	-	PN	-	.	HU J.Y.+	`1990A&A...234..435H`	Authors' names	
HuDo		-	-	PN	-	.	HU J.Y.+	.	Authors' names	
HuLo		N	1	Poss. PN	-	.	HUA C.T.+	`1990A&A...235..403H`	Authors' names	PN Nmcl
HV		NNNNN	15000	V *	`SV* HV`	.	-	.	Harvard univ., Variable *	V * Nmcl
HV		NNNNN	.	V * in LMC	`SV* HV`	`1967HW`	HODGE P.W.+	.	Harvard univ., Variable *	V * Nmcl
HV		NNNNN	.	V * in SMC	`SV* HV`	`1977HW`	HODGE P.W.+	.	Harvard univ., Variable *	V * Nmcl
HVC		LLL+BB+VVV LLL.ℓ+BB.b+VVV	123	HVC	`HVC`	`1975H1 A` `1975H1 B` `1975H1 C` `1975H1 D` `1975H1 E`	HULSBOSCH A.N.M. GIOVANELLI R. MIRABEL I.F. HULSBOSCH A.N.M.+ BAJAJA E.+	`1975A&A....40....1H` `1980AJ.....85.1155G` `1981ApJ...247...97M` `1988A&AS...75..191H` `1989A&AS...78..345B`	High-Velocity Cloud	
HW		NN	86	OCl in SMC	`HW`	`1974H3`	HODGE P.W.+	`1974AJ.....79..858H`	Authors' initials	
HXR		HHMM+DD	.	(X)	-	.	-	.	Hard X-Ray	
HYP		NN	60	Cluster of G	-	`1977E1`	EINESTO J.+	.	Hypergalaxy	
HZ		NNA	48	Blue *	`HZ`	`1947H1`	HUMASON M.L.+	`1947ApJ...105...85H`	Authors' initials	*(b)*

(a) Hubble = HB = Hb = Hub
(b) HZ = H-Z
(Nos 1-15) are in the region of Hyades, and are also designated as Cl* Melotte 25 HZ in the Simbad database

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
H-Z	*eq. HZ*	NNA	.	Blue *	HZ	1947H1	HUMASON M.L.+	1947ApJ...105...85H	Authors' initials	
I	*use KisoC1-*	NNN	.	Carbon *	-	1987M1 A	MAEHARA H.+	1987AnTok..21..293M	Ichikawa	
I	*use IC*	NNNN	.	(Opt)	IC	1895D1 A	DREYER J.L.E.	.	Roman num. list I	
[I92]		NNN	185	Nonstel. Obj. in M 33	-	.	IVANOV G.R.	1992ApL....28..281I	Ivanov, 1992	
[I93]		NN MNN	65+10	*	-	.	IBRAGIMOV M.A.	1993AZh....70..339I	Ibragimov, 1993	*(a)*
IAU		HHNDA HHSDA	38	(Rad)	-	1955P1	PAWSEY J.L.	1955ApJ...121....1P	International Astronomical Union	
IBAN		NN	.	V *	IBAN	.	IBANEZ M.	1977IBVS.1246....1I	Author's name	
IC		NNNN	5386	(Opt)	IC	1895D1 A 1895D1 B 1988S3	DREYER J.L.E. DREYER J.L.E. SINNOTT R.W.	. . .	Index Catalog	*(b)*
IC I	*use IC*	NNNN	.	(Opt)	IC	1895D1 A	DREYER J.L.E.	.	Index Cat., list I	
IC II	*use IC*	NNNN	.	(Opt)	IC	1895D1 B	DREYER J.L.E.	.	Index Cat., list II	
ICA		NN	78	Young Ass. betw. MC		1992B6	BATTINELLI P.+	1992AJ....104.1458B	Inter-Cloud Association	
IDK		N	6	Blue * Ass. betw. MC	-	1990I1 A 1990I1 B 1990I1 C	IRWIN M.J.+ DEMERS S.+ GRONDIN L.	1990AJ.....99..191I 1991AJ....101..911D 1992AJ....103.1234G	Authors' initials	

(a) [I93] Format MNN: * projected onto B35.

(b) IC = (I) or (II) = (IC I) or (IC II)
For identifications of NGC and IC numbers in the Magellanic Clouds or in M 33 see Lortet 1986, Astr. Astrophys. Suppl. 64, p. 303-324 for objects in LMC and SMC, p. 325-328 for objects in M 33

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
IDS		. HHMM.mNDDMMA HHMM.mSDDMMA	≃ 64000	Double *	`IDS`	`1963JV`	JEFFERS H.M.+	.	Index catalog of Double *	format: 1900 co-ord. *(a)*

IE	*use 1E*	HHMM+DD.d
		HHMM.m+DDMM
		HHMMSS+DDMM.m
			.	(X)	`1E`	`1981V1`
						`1982M1+`
						`1984G2`
						`1984H2`
						`1988H1`
							VAIANA G.S.+
							MACCACARO T.+
							GIOIA I.M.+
							HERTZ P.+
							HERTZ P.+
								`1981ApJ...245..163V`
								.
								`1984ApJ...283..495G`
								`1984ApJ...278..137H`
								`1988AJ.....96..233H`
									Erroneously printed for 1E	

IFM-B		NNNNa	2112	Blue Superg.	`IFM-B`	.	IVANOV G.R.+	`1993ApJS...89...85I`	Authors' initials, Blue	Table 2
IFM-R		NNN	391	Red Superg.	`IFM-R`	.	IVANOV G.R.+	`1993ApJS...89...85I`	Authors' initials, Red	Table 3
IGVV		NNN	852	IG	`p IG VV`	`1970V1 A` `1970V1 B`	VORONTSOV-V. B.A. VORONTSOV-V. B.A.	. `1977A&AS...28....1V`	Interacting G, Vorontsov-Vel'yaminov	*(b)*
IG VV	*eq. IGVV*	NNN	.	IG	`p IG VV`	`1970V1+`	VORONTSOV-V. B.A.	.	Interacting G, Vorontsov-Vel'yaminov	
II	*use IC*	NNNN	.	(Opt)	`IC`	`1895D1 B`	DREYER J.L.E.	.	Roman num. list II	
III ZW	*eq. 3Zw*	NNNa	.	G	`ZW III`	`1971Z1 A`	ZWICKY F.+	.	Zwicky, list III (roman num.)	
IISZ	*eq. 2SZ*	NN	.	Compact G	`p SZ II`	`1978R2`	RODGERS A.W.+	`1978ApJ...225..768R`	Southern Zwicky, II (roman num.) 2nd field	
II SZ	*eq. 2SZ*	NN	.	Compact G	`p SZ II`	`1978R2`	RODGERS A.W.+	`1978ApJ...225..768R`	Southern Zwicky, II (roman num.) 2nd field	
II ZW	*eq. 2Zw*	NNNa	.	G	`ZW II`	`1971Z1 A`	ZWICKY F.+	.	Zwicky, list II (roman num.)	

(a) IDS = (USNO) updated by WDS
(b) IGVV = IG VV = (V) = VV

Acronym	Usage	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
IKT		NN	25	(Soft X) in SMC	p IKT	1983I1	INOUE H.+	.	Authors' initials	
ILF 1	*eq. MacRae*	+DD NNN	.	*	-	1952M1	MacRAE D.A.	1952ApJ...116..592M	Intermediate Latitude, Field 1	
ILF-1	*eq. MacRae*	+DD NNN	.	*	-	1952M1	MacRAE D.A.	1952ApJ...116..592M	Intermediate Latitude, Field 1	
ILS		NNN	440	*	-	1969M1	MELCHIOR P.+	.	Intermediate Latitude Service	*(a)*
INN		NNNN	.	V *	SV* Inn	.	-	.	Innes	V * Nmcl *(b)*
Innes	*eq. INN*	NNNN	.	V *	SV* Inn	.	-	.	Innes	
IPS		HHMM+DD	1789	(Rad)	-	1987P1	PURVIS A.+	1987MNRAS.229..589P	InterPlanetary Scintillation	
IRAS		HHMM+DDdPNN	.	(IR)	IRAS	.	-	.	Infrared Astronomical Satellite	*(c)*

(a) ILS = (MD)
(b) INN = Innes
(c) IRAS Provisory lists have been published as Circulars in Astr. Astrophys. with the format HHMM+DDdPNN where P stands for preliminary and NN is the No. of the Circular.
No. 1 : Astr. Astrophys. 123 , C1-C2 , 1983, (N = 18)
No. 2 : Astr. Astrophys. 124 , C1-C2 , 1983, (N = 38)
No. 3 : Astr. Astrophys. 127 , C1 , 1983, (N = 43)
No. 4 : Astr. Astrophys. 128 , C1 , 1983, (N = 20)
No. 5 : Astr. Astrophys. 130 , C1 , 1983, (N = 25)
No. 6 : Astr. Astrophys. 131 , C1 , 1983, (N = 76)
No. 7 : Astr. Astrophys. 131 , C2 , 1983, (N = 28)
No. 8 : Astr. Astrophys. 132 , C1 , 1984, (N = 28)
No. 9 : Astr. Astrophys. 132 , C2 , 1984, (N = 33)
No. 10 : Astr. Astrophys. 134 , C1-C4 , 1984, N = 179, Minisurvey
No. 11 : Astr. Astrophys. 134 , C5 , 1984, (N = 54)
No. 12 : (not published, contains no sources)
No. 13 : Astr. Astrophys. 137 , C1 , 1984, (N = 18)
No. 14 : Astr. Astrophys. 137 , C3 , 1984, (N = 24)
No. 15 : Astr. Astrophys. 137 , C4 , 1984, (N = 34)

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
IRAS		HHMM+DDMM HHMMm+DDMMA FHHMMm+DDMMA SHHMMm+DDdA XHHMM+DDdA	.	(IR)	IRAS	1985IR A 1985IR B 1985IR C 1985IR D 1985IR E 1985IR F 1985IR G 1985IR H 1985IR I 1988BN 1988HW 1988IR 1989FL 1989MK	- - KLEINMANN S.G.+ HELOU G.+ LONSDALE C.J.+ OLNON F.M.+ DE MUIZON M.+ DEUL E.R.+ CHEESEMAN P.+ BEICHMAN C.A.+ HELOU G.+ - FULLMER L.+ MOSHIR M.+	. . . . . 1986A&AS...65..607O 1988A&A...203..207D 1989A&AS...81..207D	Infrared Astronomical Satellite	*(a)*
IRC		+D0NNN	$\simeq$ 20000	(IR)	IRC	1969N1	NEUGEBAUER G.+	.	Infrared Catalog	*(b)*
IRc		N	5	(IR) in Orion	-	1973R2	RIEKE G.H.+	1973ApJ...186...L7R	Infrared compact	
Ir-Ch		NN	55	Em. *	-	1956I1	IRIARTE B.+	1956BOTT....2E..31I	Authors' names	
IRe		N	2	(IR) in Orion	NAME IRe	1973R2	RIEKE G.H.+	1973ApJ...186...L7R	Infrared, extended	
IREC		NNN	516	IR Cld	IREC	1988D1	DESERT F.X.+	1988ApJ...334..815D	Infrared Exc. Cloud	*(c)*
IRS		NN	.	(IR)	NAME obj. IRS	.	-	.	IR source	*(d)*
IRS	*use WLY2*	NN	.	(IR) in ρ Oph DCld	-	.	WILKING B.A.+	1989ApJ...340..823W	InfraRed Source	
IRS	*use [GY92]*	NNN	.	(IR) in ρ Oph DCld	[GY92]	.	GREENE T.P.+	1992ApJ...395..516G	InfraRed Source	

(a) IRAS Several IRAS catalogues have a catalogue name (see synonyms) and incidentally an extended acronym :
FSS ; (ref. 1989MK) ; found as IRAS FSS or IRAS F
LRS ; (ref. 1985IR F) ; IRAS LRS
PSC ; (ref. 1988IR) ; IRAS PSC or IRAS P ; (obsoletes 1985IR B)
SSC ; (ref. 1985IR C) ; IRAS SSC or IRAS S
SSSC ; (ref. 1988HW) ; IRAS SSSC or IRAS X ; (obsoletes 1985IR D)

(b) IRC The first two digits (the second is zero) stand for a range in δ : -10 for -15 to -5 n.. ; 0 for -5 to +5 n.. ; +10 for +5 to +15.

(c) IREC = DBB

(d) IRS Specificator for IR sources in a larger obj.

Acronym	Usage	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
IRS	*use Dor IRS*	NNN	.	(IR) in LMC	`Dor IRS`	1992H2	HYLAND A.R.+	1992MNRAS.257..391H	InfraRed Source	
IRSV		HHMM+DDMM	338	(IR)	`IRSV`	1985E1 A 1985E1 B	EPCHTEIN N.+ EPCHTEIN N.+	1985A&AS...61..203E 1987A&AS...71...39E	Infrared Survey, Valinhos obs.	
ISG		NN	59	G	`ISG`	1986I1	ISSERSTEDT J.+	1986A&A...167...11I	Authors' initials, G	
Iskudarian		N	1	OCl	Cl Iskurzdajan	1961I1	ISKUDARIAN S.G.+	1961ATsir.221....6I	First author's name	= C 1846+368 *(a)*
Iskurzdajan	*eq. Iskudarian*	-	.	OCl	Cl Iskurzdajan	1961I1	ISKUDARIAN S.G.+	1961ATsir.221....6I	First author's name	
IsWe		N	2	PN	`PN IsWe`	1987I1	ISHIDA K.+	1987A&A...178..227I	Authors' names	*(b)*
ISZ	*eq. 1SZ*	NNN	.	Compact G	`p SZ I`	1978R2	RODGERS A.W.+	1978ApJ...225..768R	Southern Zwicky, I (roman num.): 1st field	
I SZ	*eq. 1SZ*	NNN	.	Compact G	`p SZ I`	1978R2	RODGERS A.W.+	1978ApJ...225..768R	Southern Zwicky, I (roman num.): 1st field	
IVC		LLL.ℓ+BB.b+VVV	.	IVC	`p IVC`	1975H1 A 1975H1 B	HULSBOSCH A.N.M. GIOVANELLI R.	1975A&A....40....1H 1980AJ.....85.1155G	Intermediate-Velocity Cloud	
I ZW	*eq. 1Zw*	NNNa	.	G	`ZW I`	1971Z1 A	ZWICKY F.+	.	Zwicky, list I (roman num.)	
IV ZW	*eq. 4Zw*	NNNa	.	G	`ZW IV`	1971Z1 A	ZWICKY F.+	.	Zwicky, list IV (roman num.)	
IW	*eq. IsWe*	N	.	PN	`PN IsWe`	1987I1	ISHIDA K.+	1987A&A...178..227I	Authors' initials	
J		NNNN	3355	*	-	.	JONCKHEERE R.	1916Obs....39..134J	Jonckheere	*(c)*
J		NNNN	3	PN	`NAME JONCKHEERE`	.	JONCKHEERE R.	1916Obs....39..134J	Jonckheere	*(d)*

(a) Iskudarian = Iskurzdajan
(b) IsWe = IW
(c) J Jonckheere R., 1962, general catalogue of 3350 faint double stars, observed from 1906 to 1962. Edit. Observatoire de Marseille.
Ref. for these objects are collected p. 7 and in the Index, which gives J2000 coordinates ; Nebulae, Novae are listed p. 418. For double *, use IDS Nmcl.
(d) J = Jonckheere
Nos 320, 475, 900 of Jonckheere R., 1962, general catalogue of 3350 faint double stars

Acronym	Usage	Format	Number	Obj. Type		Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
J	*use J1-*	NN	.	PN in LMC		`Cl* LMC J`	1980J2	JACOBY G.H.	1980ApJS...42....1J	Jacoby	
J	*use J2-*	NN	.	PN in SMC		`Cl* SMC J`	1980J2	JACOBY G.H.	1980ApJS...42....1J	Jacoby	
J1-		NNN	116	H II RFN	+	-	1955J1 A	JOHNSON H.M.	1955ApJ...121..604J	Johnson	
J1-	*use YM*	NN	.	PN		`PN YM`	1955J1 A	JOHNSON H.M.	1955ApJ...121..604J	Johnson	
J1-		NN	41	PN in LMC		`Cl* LMC J`	1980J2	JACOBY G.H.	1980ApJS...42....1J	Jacoby, list 1	Table 2B *(a)*
J2-		NN	21	H II RFN	+	-	1955J1 B	JOHNSON H.M.	1956ApJ...124...90J	Johnson	
J2-	*use YM*	NN	.	PN		`PN YM`	1955J1 B	JOHNSON H.M.	1956ApJ...124...90J	Johnson	
J2-		NN	27	PN in SMC		`Cl* SMC J`	1980J2	JACOBY G.H.	1980ApJS...42....1J	Jacoby, list 2	Table 2A *(b)*
Jacoby	*use J1-*	NN	.	PN in LMC		`Cl* LMC J`	1980J2	JACOBY G.H.	1980ApJS...42....1J	Author's name	
Jacoby	*use J2-*	NN	.	PN in SMC		`Cl* SMC J`	1980J2	JACOBY G.H.	1980ApJS...42....1J	Author's name	
JB	*eq. Brey*	NNNa	.	WR in LMC		`Brey`	1981BR+	BREYSACHER J.	.	J. Breysacher	
[JC93]		N-NN	5+15	V * Em. G	+	`[JC93]`	.	JIANG Z.+	1993AcApS..13..378J	Authors' initials, 1993	Finding charts *(c)*
JENA		NN	37	Extr. Red *		`JENA`	1973D4 A	DORSCHNER J.+	1973AN...294..153D	Jena univ.	*(d)*
JENA		A	5	Extr. Red *		`JENA`	1973D4 B	FRIEDEMANN C.	1973AN...298..327F	Jena univ.	*(e)*

(a) J1- = (J) = (Jacoby)
(b) J2- = (J) = (Jacoby)
(c) [JC93] Table I: format 1-N (Nos 1-5), V *. Table II: format 2-NN (Nos 1-15), Em. G
(d) JENA Obj. 28 ; 31 ; 32 were found to be spurious in ref. 1973D4 B
(e) JENA No. A = 17 ; No. B = 18 in ref. 1973D4 A ; No. 28 ; 31 ; 32 in ref. 1973D4 A are found to be spurious

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
Jenkins		NNNN NNNN.NN	7534	*	PLX	1952J1 A 1952J1 B	JENKINS L.F. JENKINS L.F.	. .	Author's name	*(a)*
Jessup	*eq. Jsp*	NNN	.	Double *	** Jsp	1955R1	ROSSITER R.A.	1955POMic..11....1R	Discoverer's name	
JH		NNN	245	*	JH	.	JONES B.F.+	1979AJ.....84.1872J	Authors' initials	*(b)*
JHC		NNN	161	O-M *	p JHC	.	JACOBY G.H.+	1984ApJS...56..257J	Authors' initials	
JJ		NNNA	150	G in Fornax Cl	p JJ	1980J1	JONES J.E.+	1980MNRAS.191..685J	Authors' initials	*(c)*
JL		NNN	296	*	JL	1969J1	JAIDEE S.+	1969ArA.....5..345J	Authors' initials	
Jn		N	1	PN	PN Jn	.	MILLER F.D.+	1949ApJ...109..537M	Discoverer's name: Jones	*(d)*
JnEr		N	1	PN	-	.	BARBIERI C.+	1977PASP...89..261B	Discoverers' names	*(e)*
JoDi		N	1	Poss. PN	-	.	JONES E.M.+	1984BAAS...16..975J	Authors' names	PN Nmcl
Jonckheere	*eq. J*	NNNN	.	PN	NAME JONCKHEERE	.	JONCKHEERE R.	1916Obs....39..134J	Author's name	
JP	*use PSR*	HHMM+DD	.	PSR	PSR	1976TD	TERZIAN Y.+	1976Ap&SS..44..479T	Jodrell Bank, Pulsar	Superseded by PSR
JSP	*eq. Jsp*	NNN	.	Double *	** Jsp	1955R1	ROSSITER R.A.	1955POMic..11....1R	Discoverer's name: Jessup	
Jsp		NNN	803	Double *	** JSP	1955R1	ROSSITER R.A.	1955POMic..11....1R	Discoverer's name: Jessup	IDS Nmcl *(f)*
JW		NNNN	1053	* in Orion	JW	.	JONES B.F.+	1988AJ.....95.1755J	Authors' initials	*(g)*

(a) Jenkins = GCTP = PLX = = (Y) = Yale = YC = YCSP = YCTSP = YP = YPC
(b) JH Table III: (Nos 1-237) and (Nos 426-433)
(c) JJ = (G)
(d) Jn Jn 1 = PN G104.2-29.6 = PK 104-29 1
(e) JnEr JnEr 1 = PN G164.8+31.1 = PK 164+31 1
(f) Jsp = Jessup = JSP
(g) JW Stars within 15 arcmin of the center of the Orion nebula

Acronym	Usage	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
1Jy		HHMM+DDd	518	(Rad)	1Jy	1981K2	KUHR H.+	1981A&AS...45..367K	1Jy (flux density)	
K		NN	7	Flare *	-	.	-	.	Konkoly obs.	V * Nmcl *(a)*
K	*use Ku*	NNN	.	* in NGC 7078	NGC 7078	.	KUSTNER F.	1921VeUSB..15....1K	Kustner	
K	*use King*	NN	.	OCl	Cl King	1949K1	KING I.	1949BHarO.919...41K	King	
K	*use Kh*	NNN	.	Dark N	p KH	1955K1	KHAVTASI D.Sh.	1955AbaOB..18...29K	Khavtasi	
K	*use Kron*	NN	.	OCl in SMC	Cl Kron	1956K1	KRON G.E.	1956PASP...68..125K	Kron	
K	*use Kh*	NNN	.	Dark N	-	1960K1	KHAVTASI D.Sh.	.	Khavtasi	
K	*use KLNS*	NN	.	(Rad)	-	1960K2	KUZ'MIN A.D.+	1960AZh....37..975K	Kuz'min	
K	*use Klemola*	NNN	.	Blue *	-	1962K1	KLEMOLA A.R.	1962AJ.....67..740K	Klemola	
K		Ra R.N	-	HVC	-	1968H1 A	HULSBOSCH A.N.M.	1968BAN....20...33H	Cloud Complex labelled K	
K	*use Karachentsev*	NNN	.	Pair of G	p KARA	1972K2	KARACHENTSEV I.D.	1972SoSAO...7....1K	Karachentsev	
K	*use Karachentsev*	NNNa	.	G in pair	p KARA	1972K2	KARACHENTSEV I.D.	1972SoSAO...7....1K	Karachentsev	
K	*use KUV*	HHMMm+DDMMA FFFF-NNN FFFF NNN	.	UV Obj.	KUV	1980N1+	NOGUCHI T.+	.	Kiso obs.	
K	*use KK*	FFF-NNN	.	*	p KK	1984K1+	KELLY B.D.+	.	Kelly or Kilkenny	
K1-		NN	33	PN	PN K 1-	.	KOHOUTEK L.	1962BAICz..13..120K	Kohoutek	PN Nmcl *(b)*
						.	KOHOUTEK L.	1963BAICz..14...70K		
						.	KOHOUTEK L.	1971A&A....13..493K		
						.	KOHOUTEK L.	1977A&A....59..137K		

(a) K Szecsenyi-Nagy
(b) K1- = K 1-

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
K2-		NN	17	PN	`PN K 2-`	.	KOHOUTEK L.	`1963BAICz..14...70K`	Kohoutek	PN Nmcl *(a)*
						.	KOHOUTEK L.	`1964BAICz..15..162K`		
						.	KOHOUTEK L.	`1971A&A....13..493K`		
						.	KOHOUTEK L.	`1977A&A....59..137K`		
K3-		NN	94	PN	`PN K 3-`	`1965K3 A`	KOHOUTEK L.	`1965BAIC...16..221K`	Kohoutek	PN Nmcl *(b)*
						`1965K3 B`	KOHOUTEK L.	`1969BAICz..20..307K`		
						`1965K3 C`	KOHOUTEK L.	`1972A&A....16..291K`		
K4-		NN	69	PN	`PN K 4-`	`1965K3 A`	KOHOUTEK L.	`1965BAIC...16..221K`	Kohoutek	PN Nmcl *(c)*
						`1965K3 B`	KOHOUTEK L.	`1969BAICz..20..307K`		
						`1965K3 C`	KOHOUTEK L.	`1972A&A....16..291K`		
K 1-	*eq. K1-*	NN	.	PN	`PN K 1-`	.	KOHOUTEK L.	`1962BAICz..13..120K`	Kohoutek	
						.	KOHOUTEK L.	`1963BAICz..14...70K`		
						.	KOHOUTEK L.	`1971A&A....13..493K`		
						.	KOHOUTEK L.	`1977A&A....59..137K`		
K 2-	*eq. K2-*	NN	.	PN	`PN K 2-`	.	KOHOUTEK L.	`1963BAICz..14...70K`	Kohoutek	
						.	KOHOUTEK L.	`1964BAICz..15..162K`		
						.	KOHOUTEK L.	`1971A&A....13..493K`		
						.	KOHOUTEK L.	`1977A&A....59..137K`		
K 3-	*eq. K3-*	NN	.	PN	`PN K 3-`	`1965K3+`	KOHOUTEK L.	.	Kohoutek	
K 4-	*eq. K4-*	NN	.	PN	`PN K 4-`	`1965K3+`	KOHOUTEK L.	.	Kohoutek	
K68	*eq. Karachentseva*	NNN	.	Dw. G	`p KDWG`	`1968K2`	KARACHENTSEVA V.E.	`1968SoByu..39...61K`	Karachentseva, 1968	
K72	*eq. Karachentsev*	NNN	.	Pair of G	`p KARA`	`1972K2`	KARACHENTSEV I.D.	`1972SoSAO...7....1K`	Karachentsev, 1972	
K72	*eq. Karachentsev*	NNNa	.	G in pair	`p KARA`	`1972K2`	KARACHENTSEV I.D.	`1972SoSAO...7....1K`	Karachentsev, 1972	
K73	*eq. CIG*	NNNN	.	G	`p KIG`	`1973K3`	KARACHENTSEVA V.E.	`1973SoSAO...8....3K`	Karachentseva, 1973	

(a) K2- = K 2-
(b) K3- = K 3-
(c) K4- = K 4-

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
K79		NN	84	Triplet of G	-	1979K2	KARACHENTSEVA B.E.+	1979AISAO..11....3K	Karachentseva, 1979	
K79		NNA	84x3	G in triplet	-	1979K2	KARACHENTSEVA B.E.+	1979AISAO..11....3K	Karachentseva, 1979	
K90	*eq. ZCOM*	NNN	.	G	-	1990K1	KARACHENTSEV I.D.+	1990MNRAS.243..390K	Karachentsev, 1990	
Ka	*eq. KAZ*	NNN	.	G	Ka	1979K1+	KAZARIAN M.A.	.	Author's name	
Ka1-	*eq. Kj1-*	N	.	PN	PN Kj 1-	.	KAZARIAN M.A.	1966Afz.....2..371K	Author's name, list 1	
Ka2-	*eq. Kj2-*	N	.	PN	PN Kj 2-	.	KAZARIAN M.A.	1976Afz....12..385K	Author's name, list 2	
Ka 1-	*eq. Kj1-*	N	.	PN	PN Kj 1-	.	KAZARIAN M.A.	1966Afz.....2..371K	Author's name, list 1	
Ka 2-	*eq. Kj2-*	N	.	PN	PN Kj 2-	.	KAZARIAN M.A.	1976Afz....12..385K	Author's name, list 2	
KaPa	*eq. KjPn*	N	.	PN	PN KjPn	.	KAZARIAN M.A.+	1971ATsir.602....6K	Authors' names	
KAR	*use Karachentseva*	NNN	.	Dw. G	p KDWG	1968K2	KARACHENTSEVA V.E.	1968SoByu..39...61K	Author's name	
KAR	*use CIG*	NNNN	.	G	p KIG	1973K3	KARACHENTSEVA V.E.	1973SoSAO...8....3K	Author's name	
KARA	*eq. Karachentsev*	NNN	.	Pair of G	p KARA	1972K2	KARACHENTSEV I.D.	1972SoSAO...7....1K	Author's name	
KARA	*eq. Karachentsev*	NNNa	.	G in pair	p KARA	1972K2	KARACHENTSEV I.D.	1972SoSAO...7....1K	Author's name	
Kara	*eq. Karachentsev*	NNN	.	Pair of G	p KARA	1972K2	KARACHENTSEV I.D.	1972SoSAO...7....1K	Author's name	
Kara	*eq. Karachentsev*	NNNa	.	G in pair	p KARA	1972K2	KARACHENTSEV I.D.	1972SoSAO...7....1K	Author's name	
Karachentsev		NNN	603	Pair of G	p KARA	1972K2	KARACHENTSEV I.D.	1972SoSAO...7....1K	Author's name	*(a)*
Karachentsev		NNNa	603×2	G in pair	p KARA	1972K2	KARACHENTSEV I.D.	1972SoSAO...7....1K	Author's name	*(b)*
Karachentseva		NNN	241	Dw. G	p KDWG	1968K2	KARACHENTSEVA V.E.	1968SoByu..39...61K	Author's name	*(c)*

(a) Karachentsev = CPG = (K) = K72 = KARA = Kara
Cross-identif. with several catalogues are given for 370 double galaxies by Tifft 1982, Ap. J. Suppl. 50, 319-390 (Tables 1 and 2), as well as redshift information

(b) Karachentsev = CPG = (K) = K72 = KARA = Kara

(c) Karachentseva = K68 = (KAR) = KDWG

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
KAZ		NNN	580	G	Ka	1979K1 A 1979K1 B 1979K1 C 1979K1 D 1979K1 E	KAZARIAN M.A. KAZARIAN M.A. KAZARIAN M.A.+ KAZARIAN M.A.+ KAZARIAN M.A.+	1979Afz....15....1K 1979Afz....15..117K 1980Afz....16....7K 1982Afz....18..512K 1983Afz....19..119K	Author's name	*(a)*
Kazarian	*eq. KAZ*	NNN	.	G	Ka	1979K1+	KAZARIAN M.A.	.	Author's name	
KCB	*eq. KSV*	NNNN	.	*	-	1971P1	PAVLOV N.N.+	.	Cyrillic letters for KSV	
KDWG	*eq. Karachentseva*	NNN	.	Dw. G	p KDWG	1968K2	KARACHENTSEVA V.E.	1968SoByu..39...61K	Karachentseva, Dwarf G	
Ke	*use Kes*	NN	.	(Rad)	p KES	1968K1	KESTEVEN M.J.L.	1968AuJPh..21..369K	Author's name	
KES	*eq. Kes*	NN	.	(Rad)	p KES	1968K1	KESTEVEN M.J.L.	1968AuJPh..21..369K	Author's name	
Kes		NN	80	(Rad)	p KES	1968K1	KESTEVEN M.J.L.	1968AuJPh..21..369K	Author's name	*(b)*
Kesteven	*eq. Kes*	NN	.	(Rad)	p KES	1968K1	KESTEVEN M.J.L.	1968AuJPh..21..369K	Author's name	
KFL		NN	-	PN	-	.	KINMAN T.D.+	1988AJ.....95..804K	Authors' initials	PN Nmcl
KFVD		HH.h+DD.d	129	Void	-	1991K1	KAUFFMANN G.+	1991MNRAS.248..313K	Authors' initials, Void	
KG		NNN	69	Red * in SMC	-	1986S3	SUNTZEFF N.B.+	1986AJ.....91..275S	Discoverers' initials: Klemola + Graham	*(c)*
KGX		LLL+BB	<10	(X)	KGX	.	-	.	Russian satellite name, X-ray source	
KH	*eq. Kh*	NNN	.	Dark N	p KH	1955K1	KHAVTASI D.Sh.	1955AbaOB..18...29K	Author's name	
KH	*eq. Kh*	NNN	.	Dark N	-	1960K1	KHAVTASI D.Sh.	.	Author's name	
Kh		NNN	797	Dark N	p KH	1955K1	KHAVTASI D.Sh.	1955AbaOB..18...29K	Author's name	Catalog *(d)*

(a) KAZ = Ka = Kazarian
(b) Kes = (Ke) = KES = Kesteven
(c) KG Nos up to 212
(d) Kh = (K) = KH = Khav = Khavtasi = Khavtassi
The same cloud is given different running numbers in the Catalog (ref. 1955K1) and in the Atlas (ref. 1960K1)

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
Kh		NNN	762	Dark N	-	1960K1	KHAVTASI D.Sh.	.	Author's name	Atlas *(a)*
Khav	*eq. Kh*	NNN	.	Dark N	p KH	1955K1	KHAVTASI D.Sh.	1955AbaOB..18...29K	Author's name	
Khav	*eq. Kh*	NNN	.	Dark N	-	1960K1	KHAVTASI D.Sh.	.	Author's name	
Khavtasi	*eq. Kh*	NNN	.	Dark N	p KH	1955K1	KHAVTASI D.Sh.	1955AbaOB..18...29K	Author's name	
Khavtasi	*eq. Kh*	NNN	.	Dark N	p KH	1960K1	KHAVTASI D.Sh.	.	Author's name	
Khavtassi	*eq. Kh*	NNN	.	Dark N	p KH	1955K1	KHAVTASI D.Sh.	1955AbaOB..18...29K	Author's name	
Khavtassi	*eq. Kh*	NNN	.	Dark N	-	1960K1	KHAVTASI D.Sh.	.	Author's name	
KHG 1-		NN CNN	16+11	G	p KHG 1-	.	KERR F.J.+	1987ApJ...320L..99K	Authors' initials, Galaxy, 1st list	*(b)*
KIG	*eq. CIG*	NNNN	.	G	p KIG	1973K3	KARACHENTSEVA V.E.	1973SoSAO...8....3K	Katalog Izol. G	
KiHa	*eq. KisoHA*	FFFF-NNN	.	Em. *	-	1989W1+	WIRAMIHARDJA S.D.+	.	Kiso obs., Hα obj.	
King		NN	21	OCl	Cl King	1949K1	KING I.	1949BHarO.919...41K	Author's name	C Nmcl *(c)*
KisoC1-		NNN	210	Carbon *	-	1987M1 A	MAEHARA H.+	1987AnTok..21..293M	Kiso obs., Carbon *, list 1	*(d)*
KisoC2-		NNN	125	Carbon *	-	1987M1 B	MAEHARA H.+	1987AnTok..21..423M	Kiso obs., Carbon *, list 2	
KisoC3-		NNN	128	Carbon *	-	1987M1 C	MAEHARA H.+	1988AnTok..22...59M	Kiso obs., Carbon *, list 3	
KisoC4-		NN	60	Carbon *	-	1987M1 D	MAEHARA H.+	1990PNAOJ...1..207M	Kiso obs., Carbon *, list 4	

(a) Kh = (K) = KH = Khav = Khavtasi = Khavtassi
The same cloud is given different running numbers in the Catalog (ref. 1955K1) and in the Atlas (ref. 1960K1)
(b) KHG 1- In format CNN the letter C is for galaxies in Clear region
(c) King = (K)
(d) KisoC1- = (I)

Acronym	Usage	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
KisoC5-		NNN	226	Carbon *	-	1987M1 E	MAEHARA H.+	1991PNAOJ...2..203M	Kiso obs., Carbon *, list 5	
KisoHA		FFFF-NNN	1198	Em. *	-	1989W1 A 1989W1 B 1989W1 C 1989W1 D	WIRAMIHARDJA S.D.+ KOGURE T.+ WIRAMIHARDJA S.D.+ WIRAMIHARDJA S.D.+	1989PASJ...41..155W 1989PASJ...41.1195K 1991PASJ...43...27W 1993PASJ...45..643W	Kiso obs., Hα obj.	*(a)*
KisoM1-		NNN	722	M *	-	1981I1	ICHIKAWA T.	1981PASJ...33..107I	Kiso obs., M *, list 1	
Kj1-		N	2	PN	PN Kj 1-	.	KAZARIAN M.A.	1966Afz.....2..371K	Author's name, list 1	PN Nmcl *(b)*
Kj2-		N	2	PN	PN Kj 2-	.	KAZARIAN M.A.	1976Afz....12..385K	Author's name, list 2	PN Nmcl *(c)*
Kj 1-	*eq. Kj1-*	N	.	PN	PN Kj 1-	.	KAZARIAN M.A.	1966Afz.....2..371K	Author's name, list 1	
Kj 2-	*eq. Kj2-*	N	.	PN	PN Kj 2-	.	KAZARIAN M.A.	1976Afz....12..385K	Author's name, list 2	
KjPn		N	8	PN	PN KjPn	.	KAZARIAN M.A.+	1971ATsir.602....6K	Authors' names	PN Nmcl *(d)*
KK		FFF-NNN	569	*	p KK	1984K1 A 1984K1 B 1984K1 C 1984K1 D	KELLY B.D.+ KILKENNY D.+ KELLY B.D.+ KILKENNY D.+	1984SAAOC...8...85K 1986SAAOC..10...17K 1986SAAOC..10...27K 1987MNRAS.229..345K	Authors' initials	*(e)*
KKL		NN	84	Triplet of G	KKL	.	KARACHENTSEV I.D.+	1989AISAO..27...67K	Authors' initials	

(a) KisoHA = ELS = KiHa
The authors use the acronym ELS, introduced in their second paper.
(b) Kj1- = Ka 1- = Ka1- = Kj 1-
Kj1-1 = Sh2-272 = PK 197-02 2, is a H II region ; Kj1-2 = Sh2-99 = PK 069+01 1 ; rejected as PN in ref. 1992AO
(c) Kj2- = Ka 2- = Ka2- = Kj 2-
(d) KjPn = KaPa
(e) KK = (K)

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
KKO		NN	84	Flare * in Orion	-	.	KILADZE R.I.	1972IBVS..670....1K	Kiladze, Konkoly Obs.	
						.	KILADZE R.I.+	1980IBVS.1725....1K		
						.	NATSVLISHVILI R.Sh.+	1980IBVS.1726....1N		
						.	NATSVLISHVILI R.Sh.+	1981IBVS.1926....1N		
KL		N	1	(IR) in Orion	BNKL	1967K2	KLEINMANN D.E.+	1967ApJ...149L...1K	Authors' initials	*(a)*
KLEM		NN	44	Cluster of G	p KLEM	1969K1	KLEMOLA A.R.	1969AJ.....74..804K	Author's name	*(b)*
Klemola		NNN	205	Blue *	-	1962K1	KLEMOLA A.R.	1962AJ.....67..740K	Author's name	*(c)*
Klemola	*eq. KLEM*	NN	.	Cluster of G	p KLEM	1969K1	KLEMOLA A.R.	1969AJ.....74..804K	Author's name	
KLNS		NN	57	(Rad)	-	1960K2	KUZ'MIN A.D.+	1960AZh....37..975K	Authors' initials	*(d)*
KMS		NNN	123	(IR) in LDN 1641	KMS	1989S2	STROM K.M.+	1989ApJS...71..183S	K.M. Strom	*(e)*
KO		N	1	PN	PN KO	.	KAZARIAN M.A.+	1973ATsir.753....3K	Authors' initials	KO 1 = PN G061.9+41.3 = PK 061+41 1 = DdDm 1
KO		NNN	255	* in OCl NGC 6124	NGC 6124	1959K1	KOELBLOED D.	1959BAN....14..265K	Author's name	*(f)*
KO		NNN	130	* in OCl NGC 6475	NGC 6475	1959K1	KOELBLOED D.	1959BAN....14..265K	Author's name	*(g)*
KO		NN	46	* in OCl NGC 3532	NGC 3532	1959K1	KOELBLOED D.	1959BAN....14..265K	Author's name	*(h)*
Ko	*eq. KO*	NNN	255	* in OCl NGC 6124	NGC 6124	1959K1	KOELBLOED D.	1959BAN....14..265K	Author's name	

(a) KL = BNKL
(b) KLEM = Klemola
(c) Klemola = (K)
(d) KLNS = (K) = Kuzmin
(e) KMS = (SN)
(f) KO = Ko
(g) KO = Ko
(h) KO = Ko

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
Ko	*eq. KO*	NNN	.	* in OCl NGC 6475	`NGC 6475`	1959K1	KOELBLOED D.	`1959BAN....14..265K`	Author's name	
Ko	*eq. KO*	NN	.	* in OCl NGC 3532	`NGC 3532`	1959K1	KOELBLOED D.	`1959BAN....14..265K`	Author's name	
Koch		NNN	300	* in Cluster + V *	`NGC 2264`	1974K1	KOCH R.H.+	`1974AJ.....79..379K`	First author's name	continues WALK *(a)*
Kohoutek		Na	10	H II	-	1965K3 B 1965K3 C	KOHOUTEK L. KOHOUTEK L.	`1969BAICz..20..307K` `1972A&A....16..291K`	Author's name	
KOHX		NNN	.	(X)	`KOHX`	.	BRATOLYUBOVA-T. L.S.+	`1976SvAL....2...71B`	X-ray source	*(b)*
KOM		NN	49	(Rad)	`KOM`	1966K1	KOMESAROFF M.M.	`1966AuJPh..19...75K`	Author's name	
KONUS		DD.MM.YYa	.	(Gamma)	-	1981M2	MAZETS E.P.+	`1981Ap&SS..80....3M`	KONUS experiment	
KoRe		N	1	PN	-	.	KOESTER D.+	`1989A&A...223..326K`	Authors' names	*(c)*
KP		HHMM.m+DD.dA	.	Susp. Opt QSO	`p KP`	.	HOAG+	.	Kitt Peak obs.	Hoag+Burbidge
[KP93]		N-NN	52+19	* in LDN 1251	`[KP93]`	.	KUN M.+	`1993A&A...272..235K`	Authors' initials, 1993	Identif. charts
KPD		HHMM+DDMM	-	WD + Subdw.	`KPD`	1986D1	DOWNES R.A.	`1986ApJS...61..569D`	Kitt Peak obs., Downes	
KPS		FFFF-NNN	36	Phot. Std. *	`KPS`	1980N1 C	KONDO M.+	`1982PASJ...34..541K`	Kiso obs., Photometric Standard *	
KR		NNNA	236	(Rad)	`KR`	1980K1 A 1980K1 B	KALLAS E.+ FICH M.	`1980A&AS...42..227K` `1986AJ.....92..787F`	Authors' initials	
Kr1-		N	2	PN	`PN Kr 1-`	.	KRASNOGORSKAJA A.	`1962ATsir.230...11K`	Author's name, list 1	PN Nmcl *(d)*

(a) Koch = (P) = Penna
(b) KOHX First author's name is BRATOLYUBOVA-TSULUKIDZE L.S.
(c) KoRe KoRe 1 = PN G327.7-05.4
(d) Kr1- = Kr 1-

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
Kr2-		N	2	Poss. PN	`PN Kr 2-`	.	KRASNOGORSKAJA A.	`1962ATsir.230...11K`	Author's name, list 2	PN Nmcl *(a)*
Kr 1-	*eq. Kr1-*	N	.	PN	`PN Kr 1-`	.	KRASNOGORSKAJA A.	`1962ATsir.230...11K`	Author's name, list 1	
Kr 2-	*eq. Kr2-*	N	.	Poss. PN	`PN Kr 2-`	.	KRASNOGORSKAJA A.	`1962ATsir.230...11K`	Author's name, list 2	
[KRN93]		NNNN	1054	G	`[KRN93]`	.	KENT S.M.+	`1993AJ....105..393K`	Authors' initials, 1993	
Kron		NN	69	OCl in SMC	`Cl Kron`	`1956K1`	KRON G.E.	`1956PASP...68..125K`	Author's name	*(b)*
KRS		NN	58	(X) in Orion	`KRS`	.	KU W.H.-M.+	`1982Sci...215...61K`	Authors' initials	
KS	*use Hbg*	NNNN	.	OB ∗	`Hbg`	`1966K3` `1977G1`	KLARE G.+ GARRISON R.F.+	`1966VeHei..18....9K` `1977ApJS...35..111G`	Authors' initials	
KS		NNN	168	∗ in OCl	`Cl Stock 2`	`1967K1`	KRZEMINSKI W.+	`1967ApJ...147..988K`	Authors' initials	*(c)*
KSH		AN	5+5	V ∗ in LMC halo	-	`1991K2`	KINMAN T.D.+	`1991PASP..103.1279K`	Three first authors' initials	*(d)*
KSV		NNNN	807	∗	-	`1971P1`	PAVLOV N.N.+	.	Katalog Sluzhbij Vremeni	*(e)*
Ku		NNN	> 648	∗ in NGC 7078	`NGC 7078`	.	KUSTNER F.	.	Author's name	No. 648 = PN *(f)*

(a) Kr2- = Kr 2-
(b) Kron = (K)
(c) KS = Stock 2
This acronym is also used for OB ∗ (ref. 1966K3 and 1977G1), and for stars in the R CrA association: Knox-Shaw H., 1920, Helwan Obs. Bull. No. 20, quoted by Glass+ 1975, M.N.R.A.S. 172, 227-233
(d) KSH 2 formats: (R1-R5) R for Reticulum, (N1-N5) N for NGC 1466
(e) KSV = KCB
(f) Ku = (K)

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
KUG		HHMM+DDdA	≃ 8330	UV Exc. G	KUG	1980T1 A	TAKASE B.	1980PASJ...32..605T	Kiso obs., UV, G	*(a)*
						1980T1 B	TAKASE B.+	.		
						1984T1 A	TAKASE B.+	1984AnTok..19..595T		
						1984T1 B	TAKASE B.+	1985AnTok..20..237T		
						1984T1 C	TAKASE B.+	1985AnTok..20..335T		
						1984T1 D	TAKASE B.+	1986AnTok..21...85M		
						1984T1 E	TAKASE B.+	1986AnTok..21..127T		
						1984T1 F	TAKASE B.+	1986AnTok..21..181T		
						1984T1 G	TAKASE B.+	1987AnTok..21..251T		
						1984T1 H	TAKASE B.+	1987AnTok..21..363T		
						1984T1 I	TAKASE B.+	1988AnTok..22...41T		
						1984T1 J	TAKASE B.+	1989PNAOJ...1...11T		
						1984T1 K	TAKASE B.+	1989PNAOJ...1...97T		
						1984T1 L	TAKASE B.+	1989PNAOJ...1..181T		
						1984T1 M	TAKASE B.+	1990PNAOJ...2....7T		
						1984T1 N	TAKASE B.+	1991PNAOJ...2...37T		
						1984T1 O	TAKASE B.+	1991PNAOJ...2..239T		
						1984T1 P	TAKASE B.+	1992PNAOJ...2..399T		
						1984T1 Q	TAKASE B.+	1992PNAOJ...2..573T		
						1984T1 R	TAKASE B.+	1993PNAOJ...3...21T		
						1984T1 S	TAKASE B.+	1993PNAOJ...3..169T		
KUGC	*catalog: use KUG*	HHMM+DDdA	.	UV Exc. G	KUG	1980T1+	TAKASE B.	.	Kiso obs., UV, G,	
						1984T1+	TAKASE B.+	.	Catalog	
KURT		R NNNN	.	*	KURT	.	KURTANIDZE O.M.+	1980A&AS...39...35K	Author's name	
KUV		HHMMm+DDMMA	1186	UV Obj. +	KUV	1980N1 A	NOGUCHI T.+	1980AnTok..18...55N	Kiso obs.,	*(b)*
		FFFF-NNN		WD		1980N1 B	NOGUCHI T.+	1982PASJ...34..407N	UV-excess obj.	
		FFFF NNN		+ UV Exc.		1980N1 C	KONDO M.+	1982PASJ...34..541K		
				Obj.		1980N1 D	KONDO M.+	1984AnTok..20..130K		
						1980N1 E	WEGNER G.+	1985AJ.....90.1511W		
						1980N1 F	WEGNER G.+	1986AJ.....91..139W		
						1980N1 G	WEGNER G.+	1987AJ.....94.1271W		
						1980N1 H	WEGNER G.+	1988AJ.....96.1933W		
						1980N1 I	WEGNER G.+	1990AJ.....99..330W		
						1980N1 J	WEGNER G.+	1990AJ....100.1274W		
						1980N1 K	WEGNER G.+	1993AJ....105..660W		
						1980N1 L	WEGNER G.+	1993AJ....106..390W		
Kuzmin	*eq. KLNS*	NN	.	(Rad)	-	1960K2	KUZ'MIN A.D.+	1960AZh....37..975K	First author's name	

(a) KUG KUG merged catalog, N=8162 (after deletion of the objects which appear repeatedly; instead of 8968)
(b) KUV = (K)
Rounded (not truncated) 1950 coord.

Acronym	Usage	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
KW		NNN	577	* in OCl	Cl* NGC 2632 KW	1927K1	KLEIN-WASSINK W.J.	1927PGro...41...41K	Klein-Wassink	
KW		N	9	(Rad)	-	1972K1	KAP-HERR A.v.+	1972A&A....20..313K	Authors' initials	
KZP	*eq. CSV*	NNNNNN	.	Susp. V *	CSV	1951KP+	KUKARKIN B.V.+	.	Katalog Zvedz Zapodozrennykh v Peremennosti	
L		FFFF-NNNN	$\simeq$ 500	PM *	L	1942L1 A 1942L1 B 1979LU 198801	LUYTEN W.J. LUYTEN W.J. LUYTEN W.J. OSWALT T.D.+	1942POMin...2..242L 1944POMin...3...53L . 1988ApJS...66..391O	Luyten	
L	*use LAWD*	NN	.	WD	LAWD	1949L1	LUYTEN W.J.	1949ApJ...109..528L	Luyten	
L	*use LDN*	NNNN	.	Dark N	LDN	1962L1	LYNDS B.T.	1962ApJS....7....1L	Lynds	
L	*use LBN*	LLL.$\ell\ell$+BB.bb	.	H II	LBN	1965L1	LYNDS B.T.	1965ApJS...12..163L	Lynds	
L		N	6	H II	-	1965L2	LYNGA G.	.	Lynga	
L	*use Loden*	FFFF	.	Loose and/or poor OCl	p LODEN	1977L3 A	LODEN L.O.	1977A&AS...29...31L	Author's name	
L	*use Loden*	FFFF-NN	.	* in OCl	p LODEN	1977L3+	LODEN L.O.	.	Author's name	
L	*use Lalande*	NNNNN	.	*	LAL	1847B1	BAILY F.	.	Lalande	
L-		NNN	358	Em. * in LMC	-	1963L1	LINDSAY E.M.	1963IrAJ....6..127L	Lindsay	
[L93]		NNN	50	G	[L93]	.	LILLY S.J.	1993ApJ...411..501L	Lilly, 1993	*(a)*
L1-		N	7	Em. *	p THA 15-	1962T1	THE P.-S.	1962CoBos..15.....T	Dark Lane obs., table 1	(Nos 1-7) eq. THA 15-
L2-		NN	6	Em. *	p THA 15-	1962T1	THE P.-S.	1962CoBos..15.....T	Dark Lane obs., table 2	(Nos 8-13) eq. THA 15-
L3-		NN	31	Em. *	p THA 15-	1962T1	THE P.-S.	1962CoBos..15.....T	Dark Lane obs., table 3	(Nos 14-44) eq. THA 15-

(a) [L93] N=50 among (Nos 1-836)

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
LAL	*eq. Lalande*	NNNNN	.	*	LAL	1847B1	BAILY F.	.	Discoverer's name: Lalande	
LALANDE	*eq. Lalande*	NNNNN	.	*	LAL	1847B1	BAILY F.	.	Discoverer's name	
Lalande		NNNNN	47390	*	LAL	1847B1	BAILY F.	.	Discoverer's name	*(a)*
LAN	*eq. Lanning*	NNN	.	UV Obj.	LAN	1973L1 A 1973L1 B	LANNING H.H. LANNING H.H.+	1973PASP...85...70L 1973PASP..106...38L	Author's name	
Latysev		-	1	OCl	-	.	-	.	Author's name	= C 0249+272
LAWD		NN	96	WD	LAWD	1949L1	LUYTEN W.J.	1949ApJ...109..528L	Luyten, Atlas of White Dwarfs	*(b)*
LB		NNNNN	11444	Blue *	LB	1953L1 1956L2	LUYTEN W.J. LUYTEN W.J.+	. .	Luyten, Blue	
LBN		LLL.ℓℓ+BB.bb	1125	H II	LBN	1965L1	LYNDS B.T.	1965ApJS...12..163L	Lynds, Bright Nebula	*(c)*
LBQS		HHMM+DDMM	387	* or Em. Obj.	-	1992B2	BERG C.+	1992ApJS...78..409B	Large Bright QSO Survey	
[LCB92]		HHMM+DDMMA	97	AGN	-	.	LA FRANCA F.+	1992AJ....103.1062L	Authors' initials, 1992	
LD		NNN	185	V *	LD	. . .	DAHLMARK L. DAHLMARK L. DAHLMARK L.	1982IBVS.2157....1D 1986IBVS.2878....1D 1993IBVS.3855....1D	L. Dahlmark	*(d)*
LD	*use LDN*	NNNN	.	Dark N	LDN	1962L1	LYNDS B.T.	1962ApJS....7....1L	Lynds, Dark nebula	
LD	*use LBN*	LLL.ℓℓ+BB.bb	.	H II	LBN	1965L1	LYNDS B.T.	1965ApJS...12..163L	Author's name	
[LDC81]		NN	11	(X) in M 33	-	.	LONG K.S.+	1981ApJ...246L..61L	Three first authors' initials, 1981	

(a) Lalande = Delalande = (L) = LAL = LALANDE
(b) LAWD = (L)
(c) LBN = (L) = (LD) = (LYNDS) = (Lynds)
(d) LD (Nos 8-65) are in Cygnus (1st ref.), (Nos 66-105) are in Cassiopeia (2nd ref.), (Nos 106-185) are in Cygnus, Lyra and Vulpecula (3rd ref.).

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
LDN		NNNN	1802	Dark N	`LDN`	`1962L1`	LYNDS B.T.	`1962ApJS....7....1L`	Lynds, Dark Nebula	*(a)*
LDS		NNNN	6030	PM *	`** LDS`	`1941L1 A`	LUYTEN W.J.	`1941POMin...3...33L`	Luyten, Double *	*(b)*
						`1941L1 B`	LUYTEN W.J.	.		
						`1941L1 C`	LUYTEN W.J.	.		
						`1941L1 D`	LUYTEN W.J.	.		
						`1941L1 E`	LUYTEN W.J.	.		
						`1941L1 F`	LUYTEN W.J.	.		
						`1941L1 G`	LUYTEN W.J.	.		
						`1941L1 H`	LUYTEN W.J.	.		
LDSS		HH.F.NN	$\simeq$ 200	* + G	`LDSS`	.	COLLESS M.+	`1990MNRAS.244..408C`	Low Dispersion Survey Spectrograph	
						.	COLLESS M.+	`1993MNRAS.261...19C`		
LDSS		BHH.F.NN	23	Blue G	`LDSS`	.	COLLESS M.+	`1993MNRAS.261...19C`	Low Dispersion Survey Spectrograph	*(c)*
LDSS-2		HH.F.NN	117	* + G	`LDSS-2`	.	COLLESS M.+	`1991MNRAS.253..686C`	Low Dispersion Survey Spectrograph, list 2	
LDUW		NNN	221	Ba *	-	`1983LD`	LU P.K.+	`1983ApJS...52..169L`	Authors' initials	
LEE	*eq. Lee*	NNN	.	Carbon *	`LEE`	`1940L1+`	LEE O.J.+	.	First author's name	
Lee		NNN	365	Carbon *	`LEE`	`1940L1 A`	LEE O.J.+	`1940AnDea........4L`	First author's name	*(d)*
						`1940L1 B`	LEE O.J.+	`1943AnDea....P...5L`		
						`1940L1 C`	LEE O.J.+	`1943AnDea....Q...5L`		
LF		FFa	> 15	Field	-	`1947M2 A`	McCUSKEY S.W.+	`1947ApJ...106....1M`	Luminosity Function	*(e)*
						`1947M2 B`	WOODEN W.H.III	`1970AJ.....75..324W`		
LF		FFa+DD NNN	.	*	`LF`	`1947M2 A`	McCUSKEY S.W.+	`1947ApJ...106....1M`	Luminosity Function	
						`1947M2 B`	WOODEN W.H.III	`1970AJ.....75..324W`		

(a) LDN = (L) = (LD) = (LYNDS) = (Lynds)
(b) LDS (Nos 1-6081) : Due to some duplicata in the numbering, the total number of LDS stars is 6030
(c) LDSS B in the format for Blue galaxies
(d) Lee = LEE
(e) LF LF 13 : see Wooden 1971, Publ. Warner & Swasey Obs. 1, No. 2
LF 14 : see McCuskey S.W. 1983, A.J. 88, 1175-1181
LF 15 : see Drilling J.S. 1968, A.J. 73, 590-610

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
LFAM		NN	35	(Rad) in ρ Oph DCld	`LFAM`	.	LEOUS J.A.+	`1991ApJ...379..683L`	Authors' initials	
LFT		NNNN	1849	$*$	`LFT`	`1955L1`	LUYTEN W.J.	.	Luyten, Five Tenths	continued by LHS
LGG		NNN	485	Group of G	`LGG`	`1993G2`	GARCIA A.M.	`1993A&AS..100...47G`	Lyon Group of Galaxies	
LGS		N	5	G	`NAME LGS`	`1979T1`	THUAN T.X.+	`1979ApJ...232L..11T`	Local Group, Suspected	
LH		NNN	122	Ass. in LMC	`LH`	`1970L1`	LUCKE P.B.+	`1970AJ.....75..171L`	Authors' initials	
LHA 115-N		NN	90	H II in SMC	`LHA 115-N`	`1956H2`	HENIZE K.G.	`1956ApJS....2..315H`	Lamont-Hussey α, field 115: SMC, Nebula	*(a)*
LHA 115-S		NN	65	Em. $*$ in SMC	`LHA 115-S`	`1956H2`	HENIZE K.G.	`1956ApJS....2..315H`	Lamont-Hussey α, field 115: SMC, Star	*(b)*
LHA 120-N		NNN	221	H II in LMC	`LHA 120-N`	`1956H2`	HENIZE K.G.	`1956ApJS....2..315H`	Lamont-Hussey α, field 120: LMC, Nebula	*(c)*
LHA 120-S		NNN	172	Em. $*$ in LMC	`LHA 120-S`	`1956H2`	HENIZE K.G.	`1956ApJS....2..315H`	Lamont-Hussey α, field 120: LMC, Star	*(d)*
LHA 332-		NN	3	Em. $*$	`LHA 332-`	.	-	.	Lamont-Hussey, Hα	*(e)*

(a) LHA 115-N = Hen N = LHα 115-N = (N)
LHA 115-N: identified on Hodge & Wright's V charts (ref. 1977HW) with the acronym e
(b) LHA 115-S = Hen S = LHα 115-S = (S)
LHA 115-S: identified on Hodge & Wright's V charts (ref. 1977HW) with the acronym Se.
(c) LHA 120-N = Hen N = LHα 120-N = (N)
LHA 120-N: identified with acronym e on Hodge & Wright V charts (ref. 1967HW) while N means NGC.
A few nebulae are very large: No. 56 ; Nos 10 and 135 which are rather "constellations" ; see the comment of ref. 1956H2 in the table of references.
(d) LHA 120-S = Hen S = LHα 120-S = (S)
(e) LHA 332- = LHα 332- = LkHα 332-
Discovery list, use HBC or HM numbers ; LHA 332-17 = HBC 245 ; LHA 332-20 = HBC 244 ; LHA 332-21 = HBC 247.

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
LHα	*use LkHA*	NNN	.	Em. *	EM* LKHA	1954H1+	HERBIG G.H.	.	Lick obs., Hα Em. *	*(a)*
LHα	*use He2-*	NNN	.	PN	HE 2-	.	HENIZE K.G.	1967ApJS...14..125H	Lamont-Hussey, Hα	
LHα 115-N	*eq. LHA 115-N*	NN	.	H II in SMC	LHA 115-N	1956H2	HENIZE K.G.	1956ApJS....2..315H	Lamont-Hussey, Hα , field 115: SMC, Nebula	
LHα 115-S	*eq. LHA 115-S*	NN	.	Em. * in SMC	LHA 115-S	1956H2	HENIZE K.G.	1956ApJS....2..315H	Lamont-Hussey, Hα , field 115: SMC, Star	
LHα 120-N	*eq. LHA 120-N*	NNN	.	H II in LMC	LHA 120-N	1956H2	HENIZE K.G.	1956ApJS....2..315H	Lamont-Hussey, Hα , field 120: LMC, Nebula	
LHα 120-S	*eq. LHA 120-S*	NNN	.	Em. * in LMC	LHA 120-S	1956H2	HENIZE K.G.	1956ApJS....2..315H	Lamont-Hussey, Hα , field 120: LMC, Star	
LHα 332-	*eq. LHA 332-*	NN	.	Em. *	LHA 332-	.	-	.	Lamont-Hussey, Hα	
LHE		NNN	559	(Rad)	LHE	1963L2	LONG R.J.+	1963MNRAS.125..313L	Authors' initials	
LHG	*eq. CAL*	NN	.	(Soft X) in LMC	p CAL	1981L2 A	LONG K.S.+	1981ApJ...248..925L	Authors' initials	
LHS		NNNNa	$\simeq$ 4000	*	LHS	1979L1 A 1979L1 B	LUYTEN W.J. LUYTEN W.J.+	. .	Luyten, Half Second	*(b)*
LICK H	*eq. LkHA*	NNN	.	Em. *	EM* LKHA	1954H1+	HERBIG G.H.	.	Lick obs., Hα	
Lick Hα	*eq. LkHA*	NNN	.	Em. *	EM* LKHA	1954H1+	HERBIG G.H.	.	Lick obs., Hα	
LID		-NNNNNNNNN.N	-	*	LID	.	MERMILLIOD J.-C.	1978BICDS..14...32M	Lausanne IDentification	*(c)*

(a) LHα Ref. 1954H1, LHα = LkHA: Don't confuse with Lamont-Hussey stars LHA 332-17, 20, 21
(b) LHS Format NNNNa: letter "a" for 5 additional LHS stars inserted in RA
(c) LID Coded numbering system

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
Liller		R	1	GCl	**NAME LILLER**	1977L2	LILLER W.	1977ApJ...213L..21L	Author's name	
LI-LMC		NNNN	1891	(IR) in LMC	**LI-LMC**	1989S4 1990SI	SCHWERING P.B.W. SCHWERING P.B.W.+	1989A&AS...79..105S .	Leiden IRAS-LMC	
LIN		NNN	593	Em. Obj. in SMC	**LIN**	1961L2	LINDSAY E.M.	1961AJ.....66..169L	Author's name	*(a)*
Lindsay		NNN	116	OCl in SMC	**Cl Lindsay**	1958L1	LINDSAY E.M.	1958MNRAS.118..172L	Author's name	*(b)*
Lindsay	*use LIN*	NNN	.	Em. Obj. in SMC	**LIN**	1961L2	LINDSAY E.M.	1961AJ.....66..169L	Author's name	
LI-SMC		NNN	249	(IR) in SMC	**LI-SMC**	1989S3 1990SI	SCHWERING P.B.W.+ SCHWERING P.B.W.+	1989A&AS...79...79S .	Leiden IRAS-SMC	
LJHY		NNN	150	Em. G (+6PN+1∗)	**LJHY**	1986L1 A 1986L1 B	LIU JIYING+ HUANG YONGWEI+	1986AcApS...6..111L 1991AcApS..11...28H	Two first authors' initials	*(c)*
LK	*use Collinder*	NNN	.	OCl	**Cl Collinder**	1931C1	COLLINDER P.	.	Author's name	
LKCA	*eq. LkCa*	NN	.	Em. ∗	**EM∗ LkCa**	1986H3+	HERBIG G.H.+	.	Lick obs., Calcium	
LkCa		NNa	18	Em. ∗	**EM∗ LkCa**	1986H3 A 1986H3 B	HERBIG G.H.+ HARTMANN L.W.+	1986AJ.....91..575H 1987AJ.....93..907H	Lick obs., Calcium	*(d)*
LkH	*eq. LkHA*	NNN	.	Em. ∗	**EM∗ LKHA**	1954H1+	HERBIG G.H.	.	Lick obs., Hα Em. ∗	
LKHA	*eq. LkHA*	NNN	.	Em. ∗	**EM∗ LKHA**	1954H1+	HERBIG G.H.	.	Lick obs., Hα Em. ∗	

(a) LIN = (Lindsay) = Ln
(b) Lindsay = Ln
(c) LJHY ref. 1986L1 A: 47 G + 3 PN ; ref. 1986L1 B: 96 G + 3 PN + 1 ∗
(d) LkCa = LKCA
Nos 6, 17, 20 are missing

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
LkHA		NNN	363	Em. *	`EM* LKHA`	`1954H1 A`	HERBIG G.H.	`1954ApJ...119..483H`	Lick obs., Hα Em. *	*(a)*
						`1954H1 B`	HERBIG G.H.	`1954PASP...66...19H`		
						`1954H1 C`	HERBIG G.H.	`1956PASP...68..353H`		
						`1954H1 D`	HERBIG G.H.	`1957ApJ...125..654H`		
						`1954H1 E`	HERBIG G.H.	`1958ApJ...128..259H`		
						`1954H1 F`	HERBIG G.H.	`1959ApJS....4..337H`		
						`1954H1 G`	HERBIG G.H.	`1960ApJ...131..516H`		
						`1954H1 H`	HERBIG G.H.	`1961ApJ...133..337H`		
						`1954H1 I`	WALKER M.F.	`1961ApJ...133..438W`		
						`1954H1 J`	ROSINO L.+	`1962CoAsi.127....1R`		
						`1954H1 K`	HERBIG G.H.	.		
						`1954H1 L`	-	.		
						`1954H1 M`	HERBIG G.H.+	`1963ApJ...137..398H`		
						`1954H1 N`	-	.		
						`1954H1 O`	HERBIG G.H.+	`1972ApJ...174..401H`		
						`1954H1 P`	HERBIG G.H.	`1974LicOB.658.....H`		
						`1954H1 Q`	CUDWORTH K.H.+	`1979AJ.....84..548C`		
						`1954H1 R`	DELLA PRUGNA F.+	`1984RMxAA...9...31D`		
						`1954H1 S`	ARAQUE M.C.+	.		
LKHα	*eq. LkHA*	NNN	.	Em. *	`EM* LKHA`	`1954H1+`	HERBIG G.H.	.	Lick obs., Hα Em. *	
LkHα	*eq. LkHA*	NNN	.	Em. *	`EM* LKHA`	`1954H1+`	HERBIG G.H.	.	Lick obs., Hα Em. *	
LLP		NNN	144	* in OCl	-	`1968M1`	McCARTHY M.F.+	`1968RA......7..367M`	Low Luminosity, Pleiades	
LM1-		NN	63	Poss. PN in LMC	`p LM 1-`	`1963L6`	LINDSAY E.M.+	`1963IrAJ....6...51L`	Authors' initials, Table 1	*(b)*
LM2-		NN	44	Em. Obj. in LMC	`p LM 2-`	`1963L6`	LINDSAY E.M.+	`1963IrAJ....6...51L`	Authors' initials, Table 2	*(c)*
LM 1-	*eq. LM1-*	NN 1-NN	.	Poss. PN in LMC	`p LM 1-`	`1963L6`	LINDSAY E.M.+	`1963IrAJ....6...51L`	Authors' initials, Table 1	

(a) LkHA = (LHα) = LICK H = Lick Hα = LKH = LKHA = LKHα = LkHα
LkHA 233 = MRK 914 is galactic (belongs to Lac OB1 ; Taniguchi+ 1982, Ap.J.Lett. 23, 25-29) ; Total number N = 363 (Nos 425, 427, 428, 513 in ref. 1954H1 J and Nos 1-359)
(b) LM1- = LM 1-
(c) LM2- = LM 2-

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
LM 2-	*eq. LM2-*	NN 2-NN	.	Em. Obj. in LMC	`p LM 2-`	1963L6	LINDSAY E.M.+	`1963IrAJ....6...51L`	Authors' initials, Table 2	
LMA		NNN	226	Em. Obj. in M 33	`Cl* NGC 598 LMA`	.	LEQUEUX J.+	`1987A&AS...67..169L`	Authors' initials	Table II
LMC	*use SGS-LMC*	N	.	H II Supershell in LMC	`LMC-SGS`	1980M2	MEABURN J.	`1980MNRAS.192..365M`	Large Magellanic Cloud	
LMC		N	1	* in LMC	NAME LMC Symb. star	.	MORGAN D.H.	`1992MNRAS.258..639M`	Large Magellanic Cloud	Identif. charts *(a)*
LMC AGB		ANNN	113/423	Red * in LMC	`-`	1985R1	REID N.+	`1985ApJ...299..235R`	LMC, Asymptotic Giant Branch	*(b)*
LMC-BM		FF-NN	849	Carbon * in LMC	`LMC-BM`	1990B2	BLANCO V.M.+	`1990AJ....100..674B`	LMC, Authors' initials	
LMC-BW		NNN	$\geq$ 352	Carbon and Late * in LMC	`BMB-BW`	1980B1+	BLANCO V.M.+	.	LMC, Bar West	*(c)*
LMC CH	*eq. [HC88]*	NNN	.	* in LMC	`[HC88]`	.	HARTWICK F.D.A.+	`1988ApJ...334..135H`	LMC, CH	
LMC-CO		NNa	41	CO in LMC	`LMC-CO`	1988C4	COHEN R.S.+	`1988ApJ...331..L95C`	LMC, CO	*(d)*
LMC-O		NNN	116	Carbon and Late * in LMC	`BMB-O`	1980B1 A	BLANCO V.M.+	`1980ApJ...242..938B`	LMC, Optical center	*(e)*

(a) LMC = Mn
(b) LMC AGB in the format A is a field (A to F)
(c) LMC-BW = BMB-BW = (BW)
(d) LMC-CO (Nos 1-40), sources 32 and 32a are quite different
(e) LMC-O = BMB-O

Acronym	Usage	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
LMC-R		NN	61	Carbon and Late * in LMC	BMB-R	1980B1 A	BLANCO V.M.+	1980ApJ...242..938B	LMC, Radio center	*(a)*
LMC-SGS	*eq. SGS-LMC*	N	.	H II Super-shell in LMC	LMC-SGS	1980M2	MEABURN J.	1980MNRAS.192..365M	LMC, SuperGiant Shell	
LMC SMP	*use SMP1-*	NNNA	.	PN in LMC	p SMP 1-	1978S2 A 1978S2 C+	SANDULEAK N.+ SANDULEAK N.	1978PASP...90..621S .	LMC, Authors' initials	
LMC X-		N	6	(X) in LMC	X LMC X-	.	-	.	LMC, X-ray source	*(b)*
LMH		NN	51	(Rad)	-	1961L1	LARGE M.I.+	1961MNRAS.123..113L	Authors' initials	
LMV		NNNN	1830	V * in LMC	p LMV	1970G2	GAPOSHKIN S.	.	Large Magellanic Variable	
Ln	*eq. Lindsay*	NNN	.	OCl in SMC	Cl Lindsay	1958L1	LINDSAY E.M.	1958MNRAS.118..172L	Author's name	
Ln	*eq. LIN*	NNN	.	Em. Obj. in SMC	LIN	1961L2	LINDSAY E.M.	1961AJ.....66..169L	Author's name	
Lo		NN	18	PN	PN Lo	.	LONGMORE A.J.	1977MNRAS.178..251L	Author's name	PN Nmcl *(c)*
Loden		FFFF	.	Loose and/or poor OCl	p LODEN	1977L3 A	LODEN L.O.	1977A&AS...29...31L	Author's name	C Nmcl *(d)*

(a) LMC-R = BMB-R

(b) LMC X- X-ray sources in LMC: see CAL (ref. 1981L2 A and B) ; optical counterparts of extended X-ray sources, ref. 1983M3 A,B,C ; LMC X-1 = CAL 78 (in Henize N159), LMC X-2 = CAL 30, LMC X-3 = CAL 70, LMC X-4 = CAL 49, are binary sources, LMC X-5 (Market+ 1975, Ap. J. Lett. 196, L55) and LMC X-6 (Griffiths+ 1977, M.N.R.A.S. 180, 75) have not been confirmed later.

(c) Lo = Longmore
Lo 15 not compiled as PN in Longmore list.
From ref. 1992AO Lo 2 is rejected as a PN, Lo 14 is a poss. PN, Lo7 = Wray 16-121 = PN G302.6-00.9 = PK 302-00 2

(d) Loden = (L)

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
Loden		FFFF-NN	.	* in OCl	p LODEN	1977L3 A 1977L3 B 1977L3 C 1977L3 D 1977L3 E	LODEN L.O. LODEN L.O. LODEN L.O. LODEN L.O. LODEN L.O.	1977A&AS...29...31L 1979A&AS...36...83L 1979A&AS...38..355L 1980A&AS...41..173L 1981A&AS...44..155L	Author's name	*(a)*
Longmore	*eq. Lo*	NN	.	PN	PN Lo	.	LONGMORE A.J.	1977MNRAS.178..251L	Author's name	
Loop		R N	5	Gal. SNR?	NAME LOOP	1973B2 A 1973B2 B 1973B2 C	BERKHUIJSEN E.M. FEJES I.+ NARANAN S.+	1973A&A....24..143B 1973A&A....24....1F 1976ApJ...208..718N	Morphological structure	
LoTr		NN	11	PN	PN LoTr	.	LONGMORE A.J.+	1980MNRAS.193..521L	Authors' names	PN Nmcl *(b)*
LP		FFF-NNNN	29000	PM *	LP	1963L4 1979LU 198801	LUYTEN W.J. LUYTEN W.J. OSWALT T.D.+	. . 1988ApJS...66..391O	Luyten, Palomar obs.	
LPD		NNN	524	PM *	-	1969L1 A 1969L1 B	LUYTEN W.J. LUYTEN W.J.	. .	Luyten, Palomar obs., Double	
LPM		NNN	904	PM *	LPM	1941L2	LUYTEN W.J.	1967POMin...3....1L	Luyten, Proper Motion	
L-Pr		N	7	WD	-	1953L2	LUYTEN W.J.	1953AJ.....58...75L	Luyten, Praesepe	
LRLWW		N	1	Dw. G	-	1977L1	LAUSTSEN S.+	1977A&A....54..639L	Authors' initials	*(c)*
LRS	*catalog: use IRAS*	HHMM+DDMM	.	(IR)	IRAS	1985IR F	MOSHIR M.+	1986A&AS...65..607O	Low Resolution Spectra	
LRWR	*eq. LRWRM*	NNN	.	(Rad)	LRWR	1988L1	LOISEAU N.+	1988A&AS...75...67L	Four first authors' initials	
LRWRM		NNN	469	(Rad)	LRWR	1988L1	LOISEAU N.+	1988A&AS...75...67L	Authors' initials	*(d)*

(a) Loden = (L)
(b) LoTr = (LT-)
(c) LRLWW No. 1 = Sculptor Dwarf Irreg. Galaxy = SDIG
(d) LRWRM = LRWR

Acronym	Usage	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
LS		R +DD NNN	7425	Northern OB *	LS	1959H1 A 1959H1 B 1959H1 C 1959H1 D 1959H1 E 1959H1 F	HARDORP J.+ STOCK J.+ HARDORP J.+ NASSAU J.J.+ HARDORP J.+ NASSAU J.J.+	1959LS......1.....H 1960LS......2.....S 1964LS......3.....H 1963LS......4.....N 1965LS......5.....H 1965LS......6.....N	Luminous *	*(a)*
LS		NNNN	5132	Southern OB *	LS	1971S4	STEPHENSON C.B.+	1971PW&SO...1....1S	Luminous *	*(b)*
LS	*use LSWR*	NN	.	WR (1PN)	LSWR	1968S2	SMITH L.F.	1968MNRAS.138..109S	L. Smith	
LS		N	1	(Rad) in Orion	NAME LS	.	MUNDY L.G.+	1986ApJ...304L..51M	Line Source	
LSA		N	1	PN	-	.	LUNDSTROM I.+	1988A&A...196..233L	Authors' initials	*(c)*
LSB		AFFF-NN	198	G	-	. .	SCHOMBERT J.M.+ SCHOMBERT J.M.+	1988AJ.....95.1389S 1992AJ....103.1107S	Low-Surface Brightness	*(d)*
LSB	*eq. VLSB*	AFFF-VNN	.	G	-	. .	SCHOMBERT J.M.+ SCHOMBERT J.M.+	1988AJ.....95.1389S 1992AJ....103.1107S	Low-Surface Brightness	
LSE		NN	7	O *	LSE	1983D2	DRILLING J.S.	1983ApJ...270L..13D	Luminous *, Extension	
LSN	*eq. LS*	R +DD NNN	.	Northern OB *	LS	1959H1+	HARDORP J.+	.	Luminous *, Northern	
LSS	*eq. LS*	NNNN	.	Southern OB *	LS	1971S4	STEPHENSON C.B.+	1971PW&SO...1....1S	Luminous *, Southern	
LSSMW	*eq. LS*	NNNN	.	Southern OB *	LS	1971S4	STEPHENSON C.B.+	1971PW&SO...1....1S	Luminous *, Southern Milky Way	

(a) LS = LSN = NLS
Ref. 1959H1+. The roman numeral in the format stands for the volume (I to VI) of the reference.
(b) LS = LSS = LSSMW = (SLS) = (SS)
(c) LSA LSA 1 = PN G029.8-07.8
(d) LSB In the format AFFF is the plate field identif.: letter F + a number (FFF)

Acronym	Usage	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
LSWR		NN	16	WR (1PN)	LSWR	1968S2	SMITH L.F.	1968MNRAS.138..109S	L. Smith, WR *	*(a)*
LT		NN	40	Ring G	-	1977T1	THOMSON L.A.	1977ApJ...211..684T	L. Thomson	
LT-	*use LoTr*	NN	.	PN	PN LoTr	.	LONGMORE A.J.+	1980MNRAS.193..521L	Authors' initials	
LTT		NNNNN	18546	*	LTT	1957L1 A 1957L1 B 1957L1 C 1957L1 D 1988O1	LUYTEN W.J. LUYTEN W.J.+ LUYTEN W.J. LUYTEN W.J. OSWALT T.D.+	. . . . 1988ApJS...66..391O	Luyten, Two Tenths	
LuCG		HHMM+DDd	10	Cluster of G identified with (X)	SC	1978L1	LUGGER P.M.	1978ApJ...221..745L	Author's name, Cluster of G	*(b)*
Lucke		NNN	-	* in OB Ass. in LMC	-	1972L1	LUCKE P.B.	.	Author's name	*(c)*
LUNDMARK	*eq. Collinder*	NNN	.	OCl	Cl Collinder	1931C1	COLLINDER P.	.	Author's name	
Lundmark	*eq. Collinder*	NNN	.	OCl	Cl Collinder	1931C1	COLLINDER P.	.	Author's name	
Lu	*eq. YC*	HHMM+DD	.	Pec. G	p Lu YC	1971L2	LU P.K.	1971AJ.....76..775L	Author's name	
Lu YC	*eq. YC*	HHMM+DD	.	Pec. G	p Lu YC	1971L2	LU P.K.	1971AJ.....76..775L	Yale Columbia obs.	
LV		N	6	Opt. Condensation in Orion	LV	.	LAQUES P.+	1979A&A....73...97L	Authors' initials	*(d)*
LVC		LLL.ℓ+BB.b+VVV	.	LVC	p LVC	.	-	.	Low-Velocity Cloud	
LW		NNN	435	Cluster in LMC	p LW	1963L5	LYNGA G.+	1963MNRAS.127...31L	Authors' initials	

(a) LSWR = (LS) = Smith
Nos 1, 2, 9, 10, 13 were deleted from the WR catalogue, ref. 1981VH ; No. 1 = St1-1 = PK 284-05 1 is rejected as a PN in ref. 1992AO.
(b) LuCG = (SC)
(c) Lucke Lucke 20 in the LH 48 ass. (ref. 1970L1) is usually written LH 48:20
(d) LV Table 3. New kind of condensations in the center of the Orion nebula.

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
LW		N	2	(IR) in ρ Oph DCld	`NAME LW`	.	LADA C.J.+	`1984ApJ...287..610L`	Authors' initials	
LWD		FFF-NNNNA	.	WD	`LWD`	.	LUYTEN W.J.	.	Luyten, White Dwarf	
Ly	*eq. Lynga*	NN	.	OCl	`Cl Lynga`	`1964L1`	LYNGA G.	.	Author's name	
Ly		NNN	284	OB *	-	`1968L2`	LYNGA G.	`1968ArA.....5..181L`	Author's name	
LYNDS	*use LDN*	NNNN	.	Dark N	`LDN`	`1962L1`	LYNDS B.T.	`1962ApJS....7....1L`	Author's name	
LYNDS	*use LBN*	LLL.$\ell\ell$+BB.bb	.	H II	`LBN`	`1965L1`	LYNDS B.T.	`1965ApJS...12..163L`	Author's name	
Lynds	*use LDN*	NNNN	.	Dark N	`LDN`	`1962L1`	LYNDS B.T.	`1962ApJS....7....1L`	Author's name	
Lynds	*use LBN*	LLL.$\ell\ell$+BB.bb	.	H II	`LBN`	`1965L1`	LYNDS B.T.	`1965ApJS...12..163L`	Author's name	
Lynga		NN	14	OCl	`Cl Lynga`	`1964L1`	LYNGA G.	.	Author's name	C Nmcl *(a)*
1M		HHMM+DDd	138	(X)	`1M`	`1979M4`	MARKERT T.H.+	`1979ApJS...39..573M`	Massachusetts univ.	*(b)*
M		NNN	110	(Opt)	`M`	`1784M1`	MESSIER C.	`1784CDT........227M`	Messier	

M	*eq. Min 1- to 4-*	N-NN	.	PN	`PN M`	`1946M1`
						`1947M1`
						`1948M1`
						.
							MINKOWSKI R.
							MINKOWSKI R.
							MINKOWSKI R.
							MINKOWSKI R.
								`1946PASP...58..305M`
								`1947PASP...59..257M`
								`1948PASP...60..386M`
								.
									Minkowsi	

M	*use MM*	NN	.	(Rad)	-	`1965M2`	MORAN M.	`1965MNRAS.129..447M`	Moran	

M		Ra
		R.N
			-	HVC	-	`1968H1 A`
						`1968H1 B`
						`1975H1 A`
							HULSBOSCH A.N.M.
							GIOVANELLI R.+
							HULSBOSCH A.N.M.
								`1968BAN....20...33H`
								`1973A&AS...12..209G`
								`1975A&A....40....1H`
									Discoverer's name: Mathewson	

M		NNN	305	V *	`SV* M`	`1975M3 A`
						`1975M3 B`
						`1975M3 C`
							MAFFEI P.
							MAFFEI P.
							GASPERONI V.+
								`1975IBVS..985....1M`
								`1977IBVS.1302....1M`
								`1991IBVS.3573....1C`
									Maffei	V * Nmcl

(a) Lynga = Ly
(b) 1M = MX = (OS) = (OSO)

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
M	*use M+O*	NN	.	$*$ in OCl	-	1961M2	MARKARIAN B.E.+	1961SoByu..29...71M	Markarian	
M		NN	19	G	-	1961M3	MINKOWSKI R.	1961AJ.....66..558M	Minkovski	
M	*use GCM*	$\pm$L.$\ell\ell$$\pm$BB.$bb$	.	MCld	-	. .	GUSTEN R.+ HUTTEMEISTER S.+	1981A&A...103..197G 1993A&A...280..255H	Molecular cloud	
M1-	*eq. Min 1-*	NN	.	PN	PN M 1-	1946M1	MINKOWSKI R.	1946PASP...58..305M	Minkovski, list 1	
M1-	*eq. Min 1-*	NNN	.	H II	-	1946M1	MINKOWSKI R.	1946PASP...58..305M	Minkovski, list 1	
M2-	*eq. Min 2-*	NN	.	PN	PN M 2-	1947M1	MINKOWSKI R.	1947PASP...59..257M	Minkovski, list 2	
M2-	*eq. Min 2-*	NN	.	H II	-	1946M1	MINKOWSKI R.	1946PASP...58..305M	Minkovski, list 2	
M3-	*eq. Min 3-*	NN	.	PN	PN M 3-	1948M1	MINKOWSKI R.	1948PASP...60..386M	Minkovski, list 3	
M3-	*eq. Min 3-*	NN	.	H II	-	1948M1	MINKOWSKI R.	1948PASP...60..386M	Minkovski, list 3	
M4-	*eq. Min 4-*	NN	.	PN	PN M 4-	.	MINKOWSKI R.	.	Minkovski, list 4	
M31C	*use SKHB*	NNN	.	GCl in M 31	SKHB	.	SARGENT W.L.W.+	1977AJ.....82..947S	M 31 Clusters	
[M60]		+DD NNN	3404	$*$	-	.	METIK L.P.	1960IzKry..23....1M	Metik, 1960	*(a)*
[M67]		VN	4	V $*$ in M 31	-	.	MOFFAT A.F.J.	1967AJ.....72.1356M	Moffat, 1967	*(b)*
[M67]		AN	3	Nova in M 31	-	.	MOFFAT A.F.J.	1967AJ.....72.1356M	Moffat, 1967	*(c)*
[M84]		N	8	Em. Neb. in SMC	-	.	MORGAN D.H.	1984MNRAS.209..241M	Morgan, 1984	*(d)*
M 1-	*eq. Min 1-*	NN	.	PN	PN M 1-	1946M1	MINKOWSKI R.	1946PASP...58..305M	Minkovski, list 1	
M 1-	*eq. Min 1-*	NNN	.	H II	-	1946M1	MINKOWSKI R.	1946PASP...58..305M	Minkovski, list 1	

(a) [M60] Zones δ +42°to +47°
(b) [M67] N=4, (V1-V4) V for V $*$
(c) [M67] N=3, (N1-N3) the letter is always N for Nova
(d) [M84] = (Mo)

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
M 2-	*eq. Min 2-*	NN	.	PN	`PN M 2-`	`1947M1`	MINKOWSKI R.	`1947PASP...59..257M`	Minkovski, list 2	
M 2-	*eq. Min 2-*	NN	.	H II	-	`1947M1`	MINKOWSKI R.	`1947PASP...59..257M`	Minkovski, list 2	
M 3-	*eq. Min 3-*	NN	.	PN	`PN M 3-`	`1948M1`	MINKOWSKI R.	`1948PASP...60..386M`	Minkovski, list 3	
M 3-	*eq. Min 3-*	NN	.	H II	-	`1948M1`	MINKOWSKI R.	`1948PASP...60..386M`	Minkovski, list 3	
M 4-	*eq. Min 4-*	NN	.	PN	`PN M 4-`	.	MINKOWSKI R.	.	Minkovski, list 4	
MA		HHMM+DD	55	(Rad)	-	`1974B2`	BRANDIE G.W.+	`1974AJ.....79..903B`	Michigan obs.	
MA		NN	-	PN	-	.	MAEHARA H.	`1982CoBos..71....1M`	Author's name	PN Nmcl
MA		NNNN	1898	Em. * in SMC	-	`1993M1`	MEYSSONNIER N.+	`1993A&AS..102..451M`	Authors' initials	
Ma	*use Markarian*	NN	.	OCl	`Cl Markarian`	`1951M1`	MARKARIAN B.E.	.	Author's name	
MAAB		NF	6	Foregd * to SMC	-	`1983P1 B`	MAURICE E.+	`1987A&AS...67..423M`	Four first authors' initials	*(a)*
MaC1-		NN	17	PN	`PN MaC 1-`	.	MacCONNELL D.J.	`1978A&AS...33..219M`	Author's name, list 1	PN Nmcl *(b)*
MaC2-		N	5	PN	`PN MaC 2-`	.	MacCONNELL D.J.	`1982A&AS...48..355M`	Author's name, list 2	PN Nmcl *(c)*
MaC 1-	*eq. MaC1-*	NN	.	PN	`PN MaC 1-`	.	MacCONNELL D.J.	`1978A&AS...33..219M`	Author's name, list 1	
MaC 2-	*eq. MaC2-*	N	.	PN	`PN MaC 2-`	.	MacCONNELL D.J.	`1982A&AS...48..355M`	Author's name	
MacC H		NN	24	Em. *	`p MacC H`	`1968M3`	MacCONNELL D.J.	`1968ApJS...16..275M`	Author's name, Hα em.	
MaCCo		N	2	Poss. PN	-	`1974C1 F`	MacCONNELL D.J.+	`1983VatOP..15...63M`	Authors' names	PN Nmcl *(d)*

(a) MAAB In the format, F stands for Foreground
(b) MaC1- = MaC 1-
(c) MaC2- = MaC 2-
Table III in 1982A&AS.48.355M
(d) MaCCo MaCCo 1 = VES 205 ; MaCCo 2 = VES 228

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
MacC sH		NN	20	Poss. Em. *	`p MacC sH`	1968M3	MacCONNELL D.J.	1968ApJS...16..275M	Author's name, suspected Hα em.	
MacRae		+DD NNN	938	* in the field ILF-1	-	1952M1	MacRAE D.A.	1952ApJ...116..592M	Author's name	*(a)*
Maffei		N	2	(IR)	`NAME MAFFEI`	1968M2	MAFFEI P.	1968PASP...80..618M	Author's name	Maffei 1 (Galaxy)
Manova		NN	32	Em. *	-	1959M1	MANOVA G.A.	1959SvA.....3..188M	Author's name	
Mark	*eq. Markarian*	NN	.	OCl	`Cl Markarian`	1951M1	MARKARIAN B.E.	.	Author's name	
Mark	*eq. MRK*	NNNN	.	G	`MRK`	1967M1+ 1986MB 1989ML .	MARKARIAN B.E. MAZZARELLA J.M.+ MARKARIAN B.E.+	. 1986ApJS...62..751M 1989SoSAO..62....5M .	Author's name	
Markarian		NN	50	OCl	`Cl Markarian`	1951M1	MARKARIAN B.E.	.	Author's name	C Nmcl *(b)*
Markarian	*eq. MRK*	NNNN	.	G	`MRK`	1967M1+ 1986MB 1989ML .	MARKARIAN B.E. MAZZARELLA J.M.+ MARKARIAN B.E.+	. 1986ApJS...62..751M 1989SoSAO..62....5M .	Author's name	
Markarjan	*eq. Markarian*	NN	.	OCl	`Cl Markarian`	1951M1	MARKARIAN B.E.	.	Author's name	
Markarjan	*eq. MRK*	NNNN	.	G	`MRK`	1967M1+ 1986MB 1989ML .	MARKARIAN B.E. MAZZARELLA J.M.+ MARKARIAN B.E.+	. 1986ApJS...62..751M 1989SoSAO..62....5M .	Author's name	
Marsalkova		NNN	698	H II	-	1974MA	MARSALKOVA P.	1974Ap&SS..27....3M	Author's name	
Mayer		-	3	OCl	-	.	-	.	Author's name	C Nmcl
MB	*use MWC*	NNNN	.	Em. * (15PN)	`EM* MWC`	1933M2+	MERRILL P.W.+	.	Authors' initials	

(a) MacRae = ILF 1 = ILF-1
(b) Markarian = (Ma) = Mark = Markarjan = MRK

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
MBG		HHMMm-DDMM	97	G	-	.	COZIOL R.+	1993AJ....105...35C	Montreal Blue Galaxy	*(a)*
[MBL93]		NNN	174	OB Ass. in M 31	[MBL93]	.	MAGNIER E.A.+	1993A&A...278...36M	Authors' initials, 1993	
MBM		NNN	66+57	MCld	NAME MBM	1985M1	MAGNANI L.+	1985ApJ...295..402M	Authors' initials	
MC		NN A	102	(Rad) in LMC	-	1972M1 A 1972M1 B	McGEE R.X.+ McGEE R.X.+	1972AuJPh..25..581M 1972AuJPh..25..613M	Magellanic Cloud	
MC		N	4	(Opt)	NAME MC	1976C2	COHEN M.+	1976ApJ...210..365C	M. Cohen	
MC	*use MC4*	HHMM+DDdA HHMM+DD.dA	.	(Rad) in MC	MC4	1976C1	CLARKE J.N.+	1976AuJPS..40....1C	Molonglo obs., Catalog 4	
MC	*use [MC83]*	NN	.	WR in M 33	Cl* NGC 598 MC	.	MASSEY P.+	1983ApJ...273..576M	Authors' initials	
[MC83]		NN	79	WR in M 33	Cl* NGC 598 MC	.	MASSEY P.+	1983ApJ...273..576M	Authors' initials, 1983	*(b)*
[MC85]		NNNA	152	(Rad)	[MC85]	.	MITCHELL K.J.+	1985AJ.....90.1957M	Authors' initials, 1985	
[MC93]		NN	10	V *	[MC93]	.	MOREL M.+	1993IBVS..3923...1M	Authors' initials, 1993	Table 1 *(c)*
MC1		HHMM+DD.dA HHMM+DDdA	1545	(Rad)	MC1	1973D2	DAVIES I.M.+	1973AuJPS..28...59D	Molonglo obs., Catalog 1	
MC2		HHMM+DD.dA HHMM+DDdA	609	(Rad)	MC2	1974S4	SUTTON J.M.+	1974AuJPS..33....1S	Molonglo obs., Catalog 2	
MC3		HHMM+DD.dA HHMM+DDdA	657	(Rad)	MC3	1974S4	SUTTON J.M.+	1974AuJPS..33....1S	Molonglo obs., Catalog 3	
MC4		HHMM+DD.dA HHMM+DDdA	1349	(Rad) in MC	MC4	1976C1	CLARKE J.N.+	1976AuJPS..40....1C	Molonglo obs., Catalog 4	*(d)*

(a) MBG from the plate collection of the Montréal-Cambridge-Tololo (MCT) survey.
(b) [MC83] = (MC)
(c) [MC93] = (PC)
(d) MC4 = (MC)

Acronym	Usage	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
MC5		HHMM+DD.dA HHMM+DDdA	.	(Rad)	MC5	.	LARGE M.I.	.	Molonglo obs., Catalog 5	Unpublished
MCA		NN	16	WR in M 33	Cl* NGC 598 MCA	.	MASSEY P.+	1987PASP...99..816M	Two first authors' initials + Armandroff	Table I
MCC		NNN	895	M *	MCC	1943V1 A 1943V1 B 1943V1 C 1943V1 D 1943V1 E	VYSSOTSKY A.N. VYSSOTSKY A.N.+ VYSSOTSKY A.N.+ VYSSOTSKY A.N. VYSSOTSKY A.N.	1943ApJ....97..381V 1946ApJ...104..234V 1952ApJ...116..117V 1956AJ.....61..201V 1958AJ.....63..211V	McCormick obs.	*(a)*
McC	*eq. MCC*	NNN	.	M *	MCC	1943V1+	VYSSOTSKY A.N.	.	McCormick obs.	
McD		NN	78	H II	-	1939S1 A 1939S1 B 1939S1 C	STRUVE O.+ STRUVE O.+ STRUVE O.+	1939ApJ....89..119S 1939ApJ....89..517S 1939ApJ....90..301S	McDonald obs.	
MCG		+FF-FF-NNNN	30200	G	MCG	1962V1 A 1962V1 B 1962V1 C 1962V1 D 1962V1 E	VORONTSOV-V. B.A.+ VORONTSOV-V. B.A.+ VORONTSOV-V. B.A.+ VORONTSOV-V. B.A.+ VORONTSOV-V. B.A.+	1962TrSht..32..207V . 1963TrSht..33..260V 1968TrSht..38..206V .	Morphological Catalog of G	*(b)*
MCL	*use MDCG*	NN	.	Group of G	-	. 1989M1	DA COSTA L.N.+ MAIA M.A.G.+	1988ApJ...327..544D 1989ApJS...69..809M	Authors' initials	
MCMS		NN	35	Poss. WR in M 33	Cl* NGC 598 MCMS	.	MASSEY P.+	1987PASP...99..816M	Authors' initials	Table II
MCS	*UM*	NNN	.	Exgl Em. Obj.	UM	1977M1+	MacALPINE G.M.+	.	Michigan obs., Curtis Schmidt	
MCT		HHMM+DDMM	-	(Opt)	p MCT	.	DEMERS S.+	1990ApJ...351..271D	Montreal-Cambridge-Tololo survey	*(c)*

(a) MCC = McC = (V) = (VYS) = (VYSM) = (VYSSO-M) = (VYSSO.M)
(b) MCG The first 5 digits, separated by a hyphen, correspond to a field of the POSS prints (see Appendix B of Dixon and Sonneborn 1980) for instance, +9-11-46 is the 46th in the field 11 of the 9th δ zone ($+54°$).
(c) MCT First reference from this survey. In this ref., N=1 (UV Exc.) obj. The survey described by Demers+ 1986AJ.92.878D selects objects with $U-B \leq -0.4$.

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
MD	*use ILS*	NNN	.	*	-	1969M1	MELCHIOR P.+	.	Authors' initials	
MD		N	7	(Rad)	NAME MD	1972M2	MARTIN A.H.M.+	1972ApL....11..219M	Authors' initials	
MDCG		NN	87	Group of G	-	. 1989M1	DA COSTA L.N.+ MAIA M.A.G.+	1988ApJ...327..544D 1989ApJS...69..809M	Two first authors' initials, Cluster of G	*(a)*
MDS1-		HHMM-DDdA	468	(Rad)	-	1977R2 A 1977R2 B	ROBERTSON J.G. ROBERTSON J.G.	1977AuJPh..30..209R 1977AuJPh..30..231R	Molonglo obs., 1st Deep Survey	
MDS2-		HHMM-DDd	799	(Rad)	-	1984W1	WHITE G.L.	1984PASAu...5..290W	Molonglo obs., 2nd Deep Survey	
[ME53]		R	6	Neb. Obj. in M 31	[ME53]	.	MAYALL N.U.+	1953PASP...65...24M	Authors' initials, 1953	
[ME92]		NNN	129	*	-	.	McDONALD S.W.+	1992AJ....104..862M	Authors' initials, 1992	*(b)*
Me1-		N	1	PN	PN Me 1-	.	MERRILL P.W.	1941PASP...53..245M	Author's name, list 1	*(c)*
Me2-		N	2	PN	PN Me 2-	.	MERRILL P.W.	1942PASP...54..107M	Author's name, list 2	*(d)*
Me 1-	*eq. Me1-*	N	.	PN	PN Me 1-	.	MERRILL P.W.	1941PASP...53..245M	Author's name, list 1	
Me 2-	*eq. Me2-*	N	.	PN	PN Me 2-	.	MERRILL P.W.	1942PASP...54..107M	Author's name, list 2	
Mel	*eq. Melotte*	NNN	.	OCl + GCl	Cl Melotte	1915M1	MELOTTE P.J.	1915MmRAS..60..175M	Author's name	

(a) MDCG = (MCL)
(b) [ME92] = (Tr)
(c) Me1- = Me 1-
Me1-1 = PN G052.5-02.9 = PK 052-02 1
(d) Me2- = Me 2-
Me2-1 = CD -23 12238 ; Me2-2 = BD +15 3892

Acronym	Usage	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
MEL	*use Melnick*	NNW A AN	.	* in 30 Dor	Cl* NGC 2070 MEL	1985M3	MELNICK J.	1985A&A...153..235M	Author's name	
MELN	*eq. Melnick*	NNW A AN	.	* in 30 Dor	Cl* NGC 2070 MEL	1985M3	MELNICK J.	1985A&A...153..235M	Author's name	
Meln	*eq. Melnick*	NNW A AN	.	* in 30 Dor	Cl* NGC 2070 MEL	1985M3	MELNICK J.	1985A&A...153..235M	Author's name	
Melnick		NNW A AN	84	* in 30 Dor	Cl* NGC 2070 MEL	1985M3	MELNICK J.	1985A&A...153..235M	Author's name	*(a)*
Melotte		NNN	245	OCl + GCl	Cl Melotte	1915M1	MELOTTE P.J.	1915MmRAS..60..175M	Author's name	C Nmcl *(b)*
MeWe 1-		NN	11	PN	-	.	MELMER D.+	1990MNRAS.243..236M	Authors' names	PN Nmcl
MeWe 2-		N	5	Poss. PN	-	.	MELMER D.+	1990MNRAS.243..236M	Authors' names	PN Nmcl
MFU		NNN	241	Ba *	-	1972M3	MacCONNELL D.J.+	1972AJ.....77..384M	Authors' initials	
MG		NNN	206	Red * in LMC	p MG	1973M2	MENDOZA E.E.+	1973PASP...85..439M	Authors' initials	
MG	*use MGWR*	N	.	WR in LMC	MGWR	1985M2+	MORGAN D.H.+	.	Authors' initials	
MG		JHHMM+DDMM	≃ 20000	(Rad)	MITG	1986B2 A 1986B2 B 1986B2 C 1986B2 D 1986B2 E	BENNETT C.L.+ LAWRENCE C.R.+ LANGSTON G.I.+ GRIFFITH M.+ GRIFFITH M.+	1986ApJS...61....1B 1986ApJS...61..105L 1990ApJS...72..621L 1990ApJS...74..129G 1991ApJS...75..801G	MIT, Green Bank obs.	*(c)*
MG I	*catalog: use MG*	JHHMM+DDMM	.	(Rad)	MITG	1986B2 A	BENNETT C.L.+	1986ApJS...61....1B	MIT, Green Bank obs., survey I	

(a) Melnick = (Mk) = (MEL) = MELN = Meln
(b) Melotte = Mel
(c) MG = MITG
Ref. 1986B2 A, C, D, E. The numbering is based on J2000 coord., thus it is mandatory to write a J in the format, MG J0419+1316 instead of MG0419+1316 which would be interpreted as 1950 coord.

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
MG II	*catalog: use MG*	JHHMM+DDMM	.	(Rad)	`MITG`	`1986B2 C`	LANGSTON G.I.+	`1990ApJS...72..621L`	MIT, Green Bank obs., survey II	
MG III	*catalog: use MG*	JHHMM+DDMM	.	(Rad)	`MITG`	`1986B2 D`	GRIFFITH M.+	`1990ApJS...74..129G`	MIT, Green Bank obs., survey III	
MG IV	*catalog: use MG*	JHHMM+DDMM	.	(Rad)	`MITG`	`1986B2 E`	GRIFFITH M.+	`1991ApJS...75..801G`	MIT, Green Bank obs., survey IV	
MGP		N	1	PN	-	.	MANCHADO A.+	`1989A&A...218..267M`	Authors' initials	*(a)*
MGPN1-		NN	13	PN in SMC	`p MGPN 1-`	`1985M4`	MORGAN D.H.+	`1985MNRAS.213..491M`	Authors' initials, PN, list 1	*(b)*
MGPN2-		NN	86	PN in LMC	`p MGPN 2-`	`1992M1`	MORGAN D.H.+	`1992A&AS...92..571M`	Authors' initials, PN, list 2	*(c)*
MGPN 1-	*eq. MGPN1-*	NN	.	PN in SMC	`p MGPN 1-`	`1985M4`	MORGAN D.H.+	`1985MNRAS.213..491M`	Authors' initials, PN, list 1	
MGPN 2-	*eq. MGPN2-*	NN	.	PN in LMC	`p MGPN 2-`	`1992M1`	MORGAN D.H.+	`1992A&AS...92..571M`	Authors' initials, PN, list 2	

MGWR		N	8	WR in LMC	`MGWR`	`1985M2 A`
						`1985M2 B`
						`1985M2 C`
							MORGAN D.H.+
							MORGAN D.H.+
							MORGAN D.H.+
								`1985MNRAS.216..459M`
								`1987MNRAS.224..435M`
								`1990MNRAS.243..459M`
									Authors' initials, WR *	*(d)*

MH	*eq. Dor IR*	NN	.	(IR) in 30 Dor	-	`1981M3`	McGREGOR P.J.+	`1981ApJ...250..116M`	Authors' names	
MHA	*eq. MHα*	FFF-NNN	.	Em. *	`MHA`	.	-	.	Merrill, Hα em.	
MHα		FFF-NNN	<1500	Em. *	`MHA`	.	-	.	Merrill, Hα em.	*(e)*

(a) MGP MGP 1 = PN G348.0+06.3
(b) MGPN1- = MGPN 1-
(c) MGPN2- = MGPN 2-
(d) MGWR = (MG)
(e) MHα = MHA
Discovery list: Superseded by AS or MWC

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
MHR		NN	66	(Rad)	`MHR`	`1962M1`	MATHEWSON D.S.+	`1962AuJPh..15..354M`	Authors' initials	
Mi	*eq. UM*	NNN	.	Exgl Em. Obj.	`UM`	`1977M1+`	MacALPINE G.M.+	.	Michigan obs.	
Michigan	*eq. UM*	NNN	.	Exgl Em. Obj.	`UM`	`1977M1+`	MacALPINE G.M.+	.	Michigan obs.	
Mills		HH+DA	77	(Rad)	-	`1952M3`	MILLS B.Y.	.	Author's name	
Min 1-		NN	80	PN	`PN M 1-`	`1946M1`	MINKOWSKI R.	`1946PASP...58..305M`	Author's name, list 1	PN Nmcl. (Nos 1-80) *(a)*
Min 1-		NNN	22	H II	-	`1946M1`	MINKOWSKI R.	`1946PASP...58..305M`	Author's name, list 1	(Nos 81-103) *(b)*
Min 2-		NN	56	PN	`PN M 2-`	`1947M1`	MINKOWSKI R.	`1947PASP...59..257M`	Author's name, list 2	PN Nmcl. (Nos 1-56) *(c)*
Min 2-		NN	18	H II	-	`1947M1`	MINKOWSKI R.	`1947PASP...59..257M`	Author's name, list 2	(Nos 57-174) *(d)*
Min 3-		NN	55	PN	`PN M 3-`	`1948M1`	MINKOWSKI R.	`1948PASP...60..386M`	Author's name, list 3	PN Nmcl. (Nos 1-55) *(e)*
Min 3-		NN	7	H II	-	`1948M1`	MINKOWSKI R.	`1948PASP...60..386M`	Author's name, list 3	(Nos 56-62) *(f)*
Min 4-		NN	18	PN	`PN M 4-`	.	MINKOWSKI R.	.	Author's name, list 4	PN Nmcl *(g)*
MITG	*eq. MG*	JHHMM+DDMM	.	(Rad)	`MITG`	`1986B2+`	BENNETT C.L.+	.	MIT-Green Bank obs.	

MK	*use MRK*	NNNN	.	G	`MRK`	`1967M1+`
						`1986MB`
						`1989ML`
						.
							MARKARIAN B.E.
							MAZZARELLA J.M.+
							MARKARIAN B.E.+
								.
								`1986ApJS...62..751M`
								`1989SoSAO..62....5M`
								.
									Author's name	

(a) Min 1- = M 1- = M1-
(b) Min 1- = M 1- = M1-
(c) Min 2- = M 2- = M2-
Min2-1 (Table I) is stated to be non existent in ref. 1967PK A
(d) Min 2- = M 2- = M2-
(e) Min 3- = M 3- = M3-
(f) Min 3- = M 3- = M3-
(g) Min 4- = M 4- = M4-

Acronym	Usage	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
Mk	*use MRK*	NNNN	.	G	MRK	1967M1+ 1986MB 1989ML .	MARKARIAN B.E. MAZZARELLA J.M.+ MARKARIAN B.E.+	. 1986ApJS...62..751M 1989SoSAO..62....5M .	Author's name	
Mk	*use Melnick*	NNW A AN	.	* in 30 Dor	Cl* NGC 2070 MEL	1985M3	MELNICK J.	1985A&A...153..235M	Author's name	
MKN	*eq. MRK*	NNNN	.	G	MRK	1967M1+	MARKARIAN B.E.	.	Author's name	
Mkr	*eq. MRK*	NNNN	.	G	MRK	1967M1+ 1986MB 1989ML .	MARKARIAN B.E. MAZZARELLA J.M.+ MARKARIAN B.E.+	. 1986ApJS...62..751M 1989SoSAO..62....5M .	Author's name	
MKW		NN Ns	4	G	p MKW	1975M4	MORGAN W.W.+	1975ApJ...199..545M	Authors' initials	
MLA		NNNN	1515	Poss. Em. Obj. in M 31	-	.	MEYSSONNIER N.+	1993A&AS..102..251M	Authors' initials	*(a)*
[MLC92]		NN	43	* in Orion	[MLC92]	.	MARQUEZ-LIMON A.+	1992A&AS...95..391M	Three first authors' initials, 1992	
MLO		HHMM+DDA HHMM+DD.d	389	(Rad)	-	1970H1	HOSKINS D.G.+	1970AuJPS..15....1H	Molonglo obs.	*(b)*
MM		NN	51	(Rad)	-	1965M2	MORAN M.	1965MNRAS.129..447M	M. Moran	*(c)*
MM		N	2	(IR)	NAME MM	.	MUNDY L.G.+	1992ApJ...385..306M	Two discoverers' names	*(d)*
Mn	*eq. LMC*	N	.	* in LMC	NAME LMC Symb. star	.	MORGAN D.H.	1992MNRAS.258..639M	Morgan	
Mn	*eq. SMC*	N	.	* in SMC	NAME SMC Symb. star	.	MORGAN D.H.	1992MNRAS.258..639M	Morgan	

(a) MLA Table 3: (Nos 1-1312), good candidates. Table 4: (Nos 1313-1515), doubtful candidates.
(b) MLO = (HM)
(c) MM = (M)
(d) MM associated with IRAS 16293-2422

Acronym	Usage	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
MO		NNN	.	OB *	MO	.	MUZZIO J.C.+	1977AJ.....82..474M	Authors' initials	
M+O		NN	45	* in OCl	-	1961M2	MARKARIAN B.E.+	1961SoByu..29...71M	Authors' initials	*(a)*
Mo	*use [M84]*	N	.	Em. Neb. in SMC	-	.	MORGAN D.H.	1984MNRAS.209..241M	Morgan	
Moffat		-	1	OCl	NAME MOFFAT CL	1976M2	MOFFAT A.F.J.	1976A&A....50..429M	Author's name	= C 1557-540
MOST		HHMM-DDdA	117	(Rad)	-	.	JONES P.A.+	1992ApJS...80..137J	Molonglo Obs. Synthesis Telescope	*(b)*
MP	*use PSR*	HHMM+DD	.	PSR	PSR	1976TD	TERZIAN Y.+	1976Ap&SS..44..479T	Molonglo obs., Pulsar	Superseded by PSR
MPMM		NNN	238	G	MPMM	.	MAZURE A.+	1988A&AS...76..339M	Authors' initials	
MQCG		HHMM+DDd	6	Cluster of G	p CA	1975M2	MELNICK J.+	1975ApJ...198..L97M	Authors' initials, Cluster of G	*(c)*
MR		NN	11	Red *	-	1956L2	LUYTEN W.J.+	.	Minnesota university, Red	
MR	*eq. Roberts*	NNN	.	WR	MR	1962R1	ROBERTS M.S.	1962AJ.....67...79R	M. Roberts	
MR		HHMM+DDd	1	QSO	QSO	1978R1	RICKER G.R.+	1978Natur.271...35R	?	= QSO 2251-178
MR74	*eq. RM*	N	.	O-B3 *	NAME RM	.	MUZZIO J.C.+	1974AJ.....79..864M	Authors' initials, 1974	
MRC		HHMM+DDd	12141	(Rad)	MRC	1981L1	LARGE M.I.+	1981MNRAS.194..693L	Molonglo obs., Reference Catalog	
MRK	*eq. Markarian*	NN	.	OCl	Cl Markarian	1951M1	MARKARIAN B.E.	.	Author's name	

(a) M+O = (M)
(b) MOST Extended sources selected from the MRC catalog (ref. 1981L1).
(c) MQCG = CA

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
MRK		NNNN	1515	G	MRK = MKN	1967M1 A	MARKARIAN B.E.	1967Afz.....3...24M	Author's name	*(a)*
						1967M1 B	MARKARIAN B.E.	1969Afz.....5..206M		
						1967M1 C	MARKARIAN B.E.	1969Afz.....5..286M		
						1967M1 D	MARKARIAN B.E.+	1971Afz.....7..299M		
						1967M1 E	MARKARIAN B.E.+	1972Afz.....8...89M		
						1967M1 F	MARKARIAN B.E.+	1973Afz.....9..283M		
						1967M1 G	MARKARIAN B.E.+	1974Afz....10..185M		
						1967M1 H	MARKARIAN B.E.+	1976Afz....12..241M		
						1967M1 I	MARKARIAN B.E.+	1976Afz....12..429M		
						1967M1 J	MARKARIAN B.E.+	1977Afz....13..116M		
						1967M1 K	MARKARIAN B.E.+	1977Afz....13..215M		
						1967M1 L	MARKARIAN B.E.+	1979Afz....15..130M		
						1967M1 M	MARKARIAN B.E.+	1979Afz....15..235M		
						1967M1 N	MARKARIAN B.E.+	1979Afz....15..363M		
						1967M1 O	MARKARIAN B.E.+	1981Afz....17..321M		
						1967M1 P	MARKARIAN B.E.+	1992A&AS...94..553K		
						1986MB	MAZZARELLA J.M.+	1986ApJS...62..751M		
						1989ML	MARKARIAN B.E.+	1989SoSAO..62....5M		
						.		.		
Mrk	*eq. MRK*	NNNN	.	G	MRK	1967M1+	MARKARIAN B.E.	.	Author's name	
						1986MB	MAZZARELLA J.M.+	1986ApJS...62..751M		
						1989ML	MARKARIAN B.E.+	1989SoSAO..62....5M		
						.		.		
MS		N	9	WR in Carina	-	.	MacCONNELL D.+	1970PASP...82...80M	Authors' initials	
MS		NN	76	*	-	1973M1	MORRISON D.+	1973ApJ...186..193M	Authors' initials	
MS		R	6	HVC	-	1977M2	MATHEWSON D.S.+	1977ApJ...217...L5M	Magellanic Stream	
MS	*use [MS83]*	NN	.	Poss. WR in M 31	Cl* NGC 224 MS	.	MOFFAT A.F.J.+	1983ApJ...273..544M	Authors' initials	
MS	*eq. EMSS*	HHMM.m+DDMM	.	(X)	1E	1990G2+	GIOIA I.M.+	.	Medium Sensitivity survey	
[MS83]		NN	21	Poss. WR in M 31	Cl* NGC 224 MS	.	MOFFAT A.F.J.+	1983ApJ...273..544M	Authors' initials, 1983	*(b)*

(a) MRK = Mark = Markarian = Markarjan = (MK) = (Mk) = MKN = Mkr = Mrk
$\simeq$ 2% of these objects are galactic (Huchra 1977, ApJS 35, 171): for instance MRK 914 = LkHA 233 belongs to Lac OB1

(b) [MS83] = (MS)

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
[MS84]		NN	99	V *	[MS84]	.	MARGONI R.+	1984A&AS...56...87M	Authors' initials, 1984	
MSB		NN	75	N or S *	MSB	1933M1 A 1933M1 B	MERRILL P.W.+ MERRILL P.W.+	1933PASP...45..306M 1942PASP...54P.107M	Authors' initials	
MSH		HH+DNN	2270	(Rad)	MSH	1958M1 A 1958M1 B 1958M1 C	MILLS B.Y.+ MILLS B.Y.+ MILLS B.Y.+	1958AuJPh..11..360M 1960AuJPh..13..676M 1961AuJPh..14..497M	Authors' initials	
Mt.W.		FFF-NNN FFF-NNNs	67491	*	-	1930S1	SEARES F.H.+	.	Mount Wilson obs.	*(a)*
Mu		NN	34	H II	-	1955M1	MUNCH L.	1955BOTT....2...28M	Author's name	
MUL		NNa	27	(Rad)	-	1959M2	MULLER H.G.	1959VeUSB..52....1M	Author's name	*(b)*
MVD		N	1	WR in SMC	-	1991M1	MORGAN D.H.+	1991MNRAS.251..P51M	Authors' initials	*(c)*
MW		NNN	319	Em. *	-	1925M1 A 1925M1 B 1925M1 C	MERRILL P.W.+ MERRILL P.W.+ MERRILL P.W.+	1925ApJ....61..389M 1932ApJ....76..156M 1942ApJ....96...15M	Mount Wilson obs.	
MW		HHMM+DD	320	(Rad)	-	1972W2	WILLSON M.A.G.	1972MNRAS.156....7W	M. Willson	
MWC		NNNN	1088	Em. * (15PN)	EM* MWC	1933M2 A 1933M2 B 1933M2 C	MERRILL P.W.+ MERRILL P.W.+ MERRILL P.W.+	1933ApJ....78...87M 1943ApJ....98..153M 1949ApJ...110..478M	Mount Wilson obs., Catalog	*(d)*
MWD		HHMM-DDd	2	Magn. WD	p MWD	1991A1	ACHILLEOS N.+	1991MNRAS.253..522A	Magnetic White Dwarf	
MX	*eq. 1M*	HHMM+DD HHMM+DDd	.	(X)	1M	1979M4	MARKERT T.H.+	1979ApJS...39..573M	Massachusetts univ.	

(a) Mt.W. format: s for suppl. list
(b) MUL = UBA = UoB
(c) MVD = SMC MVDWR
(d) MWC = (MB)
15 are compiled as PN, see ref. 1967PK F

Acronym	Usage	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
MXB		HHMM+DD HHMM+DDd	31	(X)	MXB	1981L3	LEWIN W.H.G.+	1981SSRv...28....3L	Massachusetts univ., X-ray Burster	
MY		HHMMSS.s+DDMMSS.s	687	(Rad)	MY	.	ZHANG X.+	1993A&AS...99..545Z	Miyun radio telescope	*(a)*
My		NNN	139	Obj. of pec. spectra (1PN)	-	.	MAYALL M.W.	1951BHarO.920...32M	Author's name	
My		NNN	1	PN	PN My	.	MAYALL M.W.	1951BHarO.920...32M	Author's name	My 60 = PN G283.8+02.2 in ref. 1992AO
MyCn		NN	37	Em. Obj.	-	.	MAYALL M.W.+	1940BHarO.913....7M	Authors' names	
MyCn		NN	2	PN	PN MyCn	.	MAYALL M.W.+	1940BHarO.913....7M	Authors' names	PN Nmcl
Mz		N	5	PN	PN Mz	.	MENZEL D.N.	1922BHarO.777....3M	Author's name	PN Nmcl
MZC 2α		NNN	612	*	-	1958Y1	YASUDA H.+	.	Mitaka obs., Zenith *, Catalog	
N	*eq. Nova*	CCC YYYYa	.	Nova	Nova	.	-	.	Nova	
N	*use NGC*	NNNNA	.	(Opt)	NGC	1888D1+	DREYER J.L.E.	.	Abbreviation of NGC	
N	*use Bol*	NNN	.	GCl in M 31	Bol	. .	BATTISTINI P.+ BATTISTINI P.+	1980A&AS...42..357B 1987A&AS...67..447B	Nebula	
N	*use Bol*	ANNN	.	Misc. Obj. in M 31	Bol	. .	BATTISTINI P.+ BATTISTINI P.+	1980A&AS...42..357B 1987A&AS...67..447B	Nebula	
N	*use LHA 115-N*	NN	.	H II in SMC	LHA 115-N	1956H2	HENIZE K.G.	1956ApJS....2..315H	Nebula	

(a) MY Authors have used a format HHMM+DDd, unusable, several objects have the same designation with such a format (ex.: MY 0637+383 could be MY 063705.4+382045.4 and 063734.8+381856.5)

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
N	*use LHA 120-N*	NNN	.	H II in LMC	LHA 120-N	1956H2	HENIZE K.G.	1956ApJS....2..315H	Nebula	
[N93]		NNN	173	Group of G	[N93]	.	NOLTHENIUS R.	1993ApJS...85....1N	Nolthenius, 1993	
N30		NNNN	5268	*	N30	1952M2	MORGAN H.R.	.	Normal system, epoch 1930	*(a)*
N/30	*eq. N30*	NNNN	.	*	N30	1952M2	MORGAN H.R.	.	Normal system, epoch 1930	
Na		N	2	PN	PN Na	1964N1	NASSAU J.J.+	1964ApJ...139..864N	First author's name	PN Nmcl *(b)*
NAB		HHMM+DD	9	QSO	NAME NAB	1973B1	BAHCALL N.A.+	1973ApJ...183..777B	N.A. Bahcall	
NAIC		HHMM+DD	3118	(Rad)	-	1975D2	DURDIN J.M.+	.	National Astronomy and Ionospheric Center	
NB		DD.NN	558	(Rad)	NB	1967B2	BRANSON N.J.B.A.	1967MNRAS.135..149B	N. Branson	
NB	*use NBol*	NNN	.	Poss. GCL in M 31	NBol	.	BATTISTINI P.L.+	1993A&A...272...77B	New Bologna	
NBG		FN-NN N	2367	G	-	1987TU A 1987TU B	TULLY R.B.+ TULLY R.B.	. .	Nearby G	*(c)*
NBGCG		FN-NN	336	Group of G	-	1987TU C	TULLY R.B.	1987ApJ...321..280T	Nearby Group, Cluster of G	*(d)*
NBol		NNN	108	Poss. GCL in M 31	NBol	.	BATTISTINI P.L.+	1993A&A...272...77B	New Bologna	identif. charts *(e)*
NC		NNN	105	Carbon *	NAME NC	1973S3 B	STEPHENSON C.B.	1985AJ.....90..784S	New Carbon *	*(f)*

(a) N30 = N/30
(b) Na = NSC
(c) NBG peculiar format explained in ref. 1987TU B
(d) NBGCG = (T)
(e) NBol = (NB)
(f) NC These Carbon * found in the literature as NC NNN (Nos 1-105), also have the identification CCS (Nos 3220-3324) as numbered by us (ref. 1973S3 B)

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
NC		NN	60	Std. ∗	NC	. .	NECKEL Th.+ ORIOL R.	1980A&AS...39..411N 1992Ap&SS.198..281O	Authors' initials	
NEK		LLL.ℓ+BB.b	702	(Rad)	NEK	1988K1	KASSIM N.E.	1988ApJS...68..715K	N.E. Kassim	
NeVe		-	-	Poss. PN	-	1985NV	NECKEL T.+	.	Authors' names	PN Nmcl
NG		NNN	137	G in Fornax Cl	NG	1987C1 A 1987C1 B	CALDWELL N. CALDWELL N.+	1987AJ.....94.1116C 1987AJ.....94.1126C	New Galaxy	
NGC		NNNNA	7840	(Opt)	NGC	1888D1 A 1888D1 B 1988S3	DREYER J.L.E. SULENTIC J.W.+ SINNOTT R.W.	1888MmRAS..49....1D . .	New General Catalog	*(a)*
NGP		DD-NNN	4027	Late ∗	p NGP	1962U1	UPGREN A.R.Jr	1962AJ.....67...37U	North Gal. Pole	*(b)*
[NHS93]		NN	50	(IR)	[NHS93]	.	NAGATA T.+	1993ApJ...406..501N	Authors' initials, 1993	
NikC 1-		NNN	114	Carbon ∗	NikC 1-	1987N1 A	NIKOLASHVILI M.G.	1987Afz....26..209N	Nikolashvili, Carbon ∗, list 1	
NikC 2-		NN	80	Carbon ∗	NikC 2-	1987N1 B	NIKOLASHVILI M.G.	1987Afz....27..197N	Nikolashvili, Carbon ∗, list 2	
NikC 3-		NN	83	Carbon ∗	NikC 3-	1987N1 C	KURTANIDZE O.M.+	1988Afz....29..470K	Nikolashvili, Carbon ∗, list 3	
NikC 4-		NNN	146	Carbon ∗	-	1987N1 D	KURTANIDZE O.M.+	1989Afz....31..507K	Nikolashvili, Carbon ∗, list 4	
NikC 5-		NN	23	Carbon ∗	-	1987N1 E	KURTANIDZE O.M.+	1990Afz....32..173K	Nikolashvili, Carbon ∗, list 5	
NIPSS		FFFFCNNN	1183	Red Stel. Obj.	NIPSS	1979C1	CRAINE E.R.+	.	Near Infrared Photographic Sky Survey	*(c)*

(a) NGC = (N)
Revisions of the positions for NGC objects in LMC have been published by Morel (ref. 1983MO) (A visual Atlas of the LMC, edit. Mati Morel, Table 4) .
Corrections for objects in SMC, by Gordon+Kron 1983, P.A.S.P. 95, Appendix p. 473 .
For identifications of NGC and IC numbers in the Magellanic Clouds or in M 33 see Lortet 1986, Astr. Astrophys. Suppl. 64, p. 303-324 for objects in LMC and SMC, p. 325-328 for objects in M 33.

(b) NGP = UL = (Up) = (Upgren)

(c) NIPSS format: C for Chart

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
NK		NN	117	(Rad)	-	1970K1	KAWAJIRI N.	1970PASJ...22..165K	N. Kawajiri	
NLS	*eq. LS*	R +DD NNN	.	Northern OB *	LS	1959H1+	HARDORP J.+	.	Northern Luminous *	
NLTT	*catalog: use L*	FFF-NNNN	.	PM *	L	1979LU	LUYTEN W.J.	.	New Luyten, Two Tenths	*(a)*
NLTT	*catalog: use LP*	FFF-NNNN	.	PM *	LP	1979LU	LUYTEN W.J.	.	New Luyten, Two Tenths	
NML		CCC	2	(IR)	NML	1965N1	NEUGEBAUER G.+	1965ApJ...142..399N	Authors' initials	
NOV	*eq. Nova*	CCC YYYYa	.	Nova	Nova	.	-	.	Nova	
NOVA	*eq. Nova*	CCC YYYYa	.	Nova	Nova	.	-	.	Type of object	
Nova		CCC YYYYa	.	Nova	Nova	.	-	.	Type of object	Systematic *(b)*
NP	*use PSR*	HHMM+DD	.	PSR	PSR	1976TD	TERZIAN Y.+	1976Ap&SS..44..479T	NRAO, Pulsar	Superseded by PSR
NRAO		NNN NNNN	>726	(Rad)	NRAO	1966P1	PAULINY-TOTH I.I.K.+	1966ApJS...13...65P	National Radio Astronomy obs. survey	
NRAO		HHMM+DDA	460	(Rad)	NRAO	1967H2 1972R1	HOGLUND B. ROSS H.N.	1967ApJS...15...61H .	National Radio Astronomy obs. survey	*(c)*
NRC		NN	30	(Rad)	-	1965R1	RAGHAVARAO R.+	1965MNRAS.129..159R	National Research Council of Canada	*(d)*
NRV	*eq. GRV*	HHMM-DDMM	.	Red V * in LMC	GRV	1988R1	REID N.+	1988MNRAS.232...53R	N. Reid, Variable *	
NS	*use Sk*	-DD NNNA	.	* in LMC	SK	1970S1	SANDULEAK N.	1970CoTol..89.....S	N. Sanduleak	
NS		NNa	20	Cometary N	p NS	1984N1	NECKEL T.+	1984A&A...131..200N	Authors' initials	

(a) NLTT 1979LU: Vol. IV. δ -45°to -90°
(b) Nova = (N) = NOV = NOVA
(c) NRAO = (H)
(d) NRC = (R) = RMHB

Acronym	Usage	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
Ns		NNN	567	O-B5 *	-	1975N1	NORDSTROM B.	1975A&AS...21..193N	Author's name	
Ns		NNN	1	PN	PN Ns	1975N1	NORDSTROM B.	1975A&AS...21..193N	Author's name	(a)
NSC		NN	100	*	-	1964N1	NASSAU J.J.+	1964ApJ...139..864N	Authors' initials	
NSC	*eq. Na*	N	.	PN	PN Na	1964N1	NASSAU J.J.+	1964ApJ...139..864N	Authors' initials	
NSC	*use GJ*	NNNNA NNN.NA	.	*	GJ	1969G1+	GLIESE W.	.	Nearby Star Catalogue	
NSV		NNNNN	14811	Susp. V *	NSV	1982KH	KHOLOPOV P.N.	.	New catalog of Suspected Variable *	(b)
NTTS		HHMMSS+DDMMWW	-	Naked T Tau *	NTTS	1988W2	WALTER F.M.+	1988AJ.....96..297W	Naked T Tau *	(c)
Numerova		NNNN	5024	*	-	1958N1	NUMEROVA A.B.	1958IzKry..19..230N	Author's name	
[O76]		NNNN	2215	*	-	.	OHANESYAN O.V.	1976SoByu..48...14O	Ohanesyan, 1976	
[O92]		NNN	397	OB *	-	.	ORSATTI A.M.	1992AJ....104..590O	Orsatti, 1992	
OA		NNN NNN.N	217	(Rad)	OHIO A	1964K1 A 1964K1 B 1964K1 C 1964K1 D	KRAUS J.D. DIXON R.S.+ NASH R.T. KRAUS J.D.+	1964Natur.202..269K 1965Natur.205..755D 1965AJ.....70..846N 1966ApJ...144..559K	Ohio univ., list A	(d)
OA-	*eq. OA*	NNN NNN.N	.	(Rad)	OHIO A	1964K1+	KRAUS J.D.	.	Ohio univ., list A	
OB *to* OZ		<u>D</u>NN.N -<u>D</u>NN.N	19000	(Rad)	OHIO B *to* OHIO Z	1967S1 A 1967S1 B	SCHEER D.J.+ RINSLAND C.P.+	1967AJ.....72..536S 1975AJ.....80..759R	Ohio univ., B to Z (omitting O) stand for hours of RA	(e)

(a) Ns — Ns 238 = PN G254.6+00.2 = PK 254+00 1
(b) NSV — Updates and Supersedes CSV
(c) NTTS = WTT
Format HHMMSS+DDMMSW where SW stand for an orientation ; Rounded (not truncated) coord.
(d) OA = OA- = OHIO A
(e) OB *to* OZ = OHIO B to Z

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
OBH *to* OZH		-DNN DNN	52	HVC	-	1970M1	MENG S.Y.+	1970AJ.....75..535M	Ohio univ., B to Z (omitting O) stand for hours of RA, H stands for High-Vel.	
OBM *to* OZM		-DNN DNN	69	MVC	-	1970M1	MENG S.Y.+	1970AJ.....75..535M	Ohio univ., B to Z (omitting O) stand for hours of RA, M stands for Medium-Velocity	
OCISM	*catalog*	-	.	OCl	-	1988LE	LEISAWITZ D.	.	Open Clusters & associated Interstellar Matter	
OCL	*eq. OCl-*	NNNN.N	.	OCl	OCL	1970AR+	ALTER G.+	.	Open Cluster	
OCl-		NNNN.N	1114	OCl	OCL	1970AR A 1970AR B	ALTER G.+ RUPRECHT J.+	. .	Open Cluster	*(a)*
OCl-		NNN.N	128	OCl	-	1988LE	LEISAWITZ D.	.	Open Cluster	*(b)*
OH		HHMM+DD	.	Maser or MCld	OH	.	-	.	OH source	Systematic *(c)*
OH		LLL.ℓ+BB.b LLL.$\ell\ell$+BB.bb	.	Gal. OH	GOH	.	-	.	OH source	Systematic *(d)*
OH		HHMM+DD	.	OH	OH	1979TU	TURNER B.E.	1979A&AS...37....1T	OH source	
OH		LLL.ℓ+BB.b LLL.$\ell\ell$+BB.bb	.	Gal. OH	GOH	1979TU 1992B1	TURNER B.E. BECKER R.H.+	1979A&AS...37....1T 1992AJ....103..544B	OH source	*(e)*
OHIO A	*eq. OA*	NNN NNN.N	.	(Rad)	OHIO A	1964K1+	KRAUS J.D.	.	Ohio univ., list A	

(a) OCl- = OCL
(b) OCl- In ref. 1988LE, use the 2nd numbering (col. 2) format NNN.N , not the database number
(c) OH May be either an acronym (with format LLL.$\ell\ell$+BB.bb) or a specificator, as in DR 21 (OH)
(d) OH = GOH
May be either an acronym (with format LLL.$\ell\ell$+BB.bb) or a specificator, as in DR 21 (OH)
(e) OH = GOH

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
OHIO B *to* Z	*eq. OB* to *OZ*	DNN.N -DNN.N	19000	(Rad)	OHIO B *to* OHIO Z	1967S1 A 1967S1 B	SCHEER D.J.+ RINSLAND C.P.+	1967AJ.....72..536S 1975AJ.....80..759R	Ohio univ., B to Z (omitting O) stand for hours of RA	
OHP	*eq. Haute Provence*	N	.	GCl	Cl Haute-Provence	.	-	.	Obs. de Haute Provence	
OHSC		NN	37	Cluster in LMC	OHSC	1988O3	OLSZEWSKI E.W.	1988AJ.....95...84O	Authors' initials	
OM		NNN	106	High-Vel. * in&betw. MC	OM	1971C3 A 1971C3 B	CAROZZI N.+ CAROZZI N.	1971A&AS....4..231C 1974A&AS...16..277C	Obs. de Marseille	*(a)*
OMC	*eq. Ori MC*	N	.	MCld	NAME OMC-	1974G3+	GATLEY I.+	.	Orion, Molecular Cloud	
OMC-	*eq. Ori MC*	N	.	MCld	NAME OMC-	1974G3+	GATLEY I.+	.	Orion, Molecular Cloud	
ON		N	4	OH	NAME ONSALA	1970W2	WINNBERG A.	1970A&A.....9..259W	Onsala obs.	*(b)*
ONSALA	*eq. ON*	N	.	OH	NAME ONSALA	1970W2	WINNBERG A.	1970A&A.....9..259W	Onsala obs.	
Oo	*eq. Oos*	NNNN	.	* in Cl NGC 869	NGC 869	.	OOSTERHOFF P.Th.	1937AnLei..17....10	Author's name	
Oo	*eq. Oos*	NNNN	.	* in Cl NGC 884	NGC 884	.	OOSTERHOFF P.Th.	1937AnLei..17....10	Author's name	
Oos		NNNN	1640	* in Cl NGC 869	NGC 869	.	OOSTERHOFF P.Th.	1937AnLei..17....10	Author's name	*(c)*
Oos		NNNN	1247	* in Cl NGC 884	NGC 884	.	OOSTERHOFF P.Th.	1937AnLei..17....10	Author's name	*(d)*
OP	*PSR*	HHMM+DD	.	PSR	PSR	.	-	.	Ooty radio telescope, Pulsar	

(a) OM Objects in 1971C3 A are in SMC ; objects in 1971C3 B are between the MC and between LMC and the Milky Way
(b) ON = ONSALA
(c) Oos = Oo
(Nos 1-1640) are * in NGC 869 = h Per, (Nos 1641-2987) are * in NGC 884 = χ Per.
(d) Oos = Oo
(Nos 1-1640) are * in NGC 869 = h Per, (Nos 1641-2987) are * in NGC 884 = χ Per.

Acronym	Usage	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
OPH		N	6	(X)	NAME OPH	.	WALTER F.M.	1986ApJ...306..573W	Ophiuchus	
Ori MC		N	2	MCld	NAME OMC-	1974G3 A 1974G3 B 1974G3 C	GATLEY I.+ MORRIS M.+ WERNER M.W.+	1974ApJ...191.L121G 1974ApJ...192..L27M 1974ApJ...192..L31W	Orion, Molecular Cloud	*(a)*
OS	*use 1M*	HHMM+DDd	.	(X)	1M	1979M4	MARKERT T.H.+	1979ApJS...39..573M	OSO 7	
OS		HHMM+DD	1	(X)	NAME OS	.	PRAVDO S.H.+	1978ApJ...223..537P	OSO 8	OS 0752-39
OSHA		NN SNN	69+49	Em. * in LDN 1228	OSHA	1990W1	OGURA K.+	1990PASJ...42..583O	Authors' initials, Hα	*(b)*
OSO	*use 1M*	HHMM+DDd	.	(X)	1M	1979M4	MARKERT T.H.+	1979ApJS...39..573M	from OSO 7	
OSO	*eq. OS*	HHMM+DD	.	(X)	NAME OS	.	PRAVDO S.H.+	1978ApJ...223..537P	OSO 8	
OTL		HHMM+DD HHMM+DDd	31	(Rad)	OTL	1971S1 A 1971S1 B	SWARUP G.+ KAPAHI V.K.+	1971ApL.....9...53S 1973ApL....14...31K	Ooty obs., Lunar Occultation	
OV		NNNN	.	V *	SV* OV	.	-	.	Oklahoma univ., Variable *	V * Nmcl
OX		.		WD	-	.	-	.	Oxford univ.	WD Nmcl
1P		NN	21	(Rad)	-	1983L1	LANDECKER T.L.+	1983AJ.....88.1810L	Penticton obs., list 1	*(c)*
2P		NN	26	(Rad)	-	1985C1	CASWELL J.L.+	1985AJ.....90..488C	Penticton obs., list 2	*(d)*
3P		NN	31	(Rad)	-	1985C2	CASWELL J.L.	1985AJ.....90.1076C	Penticton obs., list 3	*(e)*

(a) Ori MC = OMC = OMC-
(b) OSHA S in the format means Suspected ; The acronym could be LDN 1228:KisoHA
(c) 1P Retroactive designation and numbering by Higgs, ref. 1986H4
(d) 2P Retroactive designation and numbering by Higgs, ref. 1986H4
(e) 3P Retroactive designation and numbering by Higgs, ref. 1986H4

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
4P		N	7	(Rad)	-	1985C2	CASWELL J.L.	1985AJ.....90.1076C	Penticton obs., list 4	*(a)*
5P		NN	32	(Rad)	-	1985C3	CASWELL J.L.	1985AJ.....90.1224C	Penticton obs., list 5	*(b)*
6P		NNA	59	(Rad)	-	1985L1	LANDECKER T.L.+	1985AJ.....90.1082L	Penticton obs., list 6	
7P		NNa	50	(Rad)	-	1985J1	JONCAS G.+	1985ApJ...298..596J	Penticton obs., list 7	
8P		NN	58	(Rad)	8p	1985V1	VALLEE J.P.+	1985AJ.....90.2061V	Penticton obs., list 8	
9P		NNA	32	(Rad)	-	1986R1	ROUTLEDGE D.+	1986MNRAS.221..809R	Penticton obs., list 9	
12P		NNA	68	(Rad)	-	1987L1	LANDECKER T.L.+	1987AJ.....94..111L	Penticton obs., list 12	
13P		NNa	37	(Rad)	-	1989L1	LANDECKER T.L.+	1989MNRAS.237..277L	Penticton obs., list 13	
14P		NN	66	(Rad)	p 14P	1990P1	PINEAULT S.+	1990MNRAS.246..169P	Penticton obs., list 14	
15P		NN	52	(Rad)	p 15P	1990P1	PINEAULT S.+	1990MNRAS.246..169P	Penticton obs., list 15	
18P		NNNA	103	(Rad)	18P	1991W1	WENDKER H.J.+	1991A&A...241..551W	Penticton obs., list 18	

(a) 4P Retroactive designation and numbering by Higgs, ref. 1986H4
(b) 5P Retroactive designation and numbering by Higgs, ref. 1986H4

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
19P		NNA	48	(Rad)	19P	1991W1	WENDKER H.J.+	1991A&A...241..551W	Penticton obs., list 19	
20P		NN	65	(Rad)	p 20P	1989V1	VALLEE J.P.+	1989A&AS...77...31V	Penticton obs., list 20	
21P		NNN	169	(Rad)	p 21P	1989V1	VALLEE J.P.+	1989A&AS...77...31V	Penticton obs., list 21	
22P		NN	93	(Rad)	p 22P	1989C1	CASWELL J.L.+	1989AJ.....97.1721C	Penticton obs., list 22	
23P		NN	68	(Rad)	p 23P	1989C1	CASWELL J.L.+	1989AJ.....97.1721C	Penticton obs., list 23	
24P		NNNA	213	(Rad)	-	1990J1	JONCAS G.+	1990A&AS...82..113J	Penticton obs., list 24	
25P		NNA	92	(Rad)	-	1990J1	JONCAS G.+	1990A&AS...82..113J	Penticton obs., list 25	
26P		NNN	282	(Rad)	p 26P	1989G1	GREEN D.A.	1989A&AS...78..277G	Penticton obs., list 26	
27P		NN	81	(Rad)	p 27P	1989G1	GREEN D.A.	1989A&AS...78..277G	Penticton obs., list 27	
28P		NNNA	231	(Rad)	28P	1991H3	HIGGS L.A.+	1991A&AS...89..599H	Penticton obs., list 28	
29P		NNA	75	(Rad)	29P	1991H3	HIGGS L.A.+	1991A&AS...89..599H	Penticton obs., list 29	
30P		NNN	163	(Rad)	30P	1992J1	JONCAS G.+	1992ApJ...387..591J	Penticton obs., list 30	

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
31P		NN	85	(Rad)	31P	1992J1	JONCAS G.+	1992ApJ...387..591J	Penticton obs., list 31	
36P		NN	91	(Rad)	p 36P	1992N1	NORMANDEAU M.+	1992A&AS...92...63N	Penticton obs., list 36	
37P		NN	94	(Rad)	p 37P	1992N1	NORMANDEAU M.+	1992A&AS...92...63N	Penticton obs., list 37	
40P		NN	38	(Rad)	p 40P	1991H1	HIGGS L.A.+	1991JRASC..85...24H	Penticton obs., list 40	
42P		NNN	59	(Rad)	p 42P	1992A1	ANDERSSON B.-G.+	1992A&A...260..355A	Penticton obs., list 42	
43P		NN	61	(Rad)	p 43P	1992A1	ANDERSSON B.-G.+	1992A&A...260..355A	Penticton obs., list 43	
45P		NNA	35	(Rad)	45P	1992L1	LANDECKER T.L.+	1992A&A...258..495L	Penticton obs., list 45	*(a)*
48P		NNA	64	(Rad)	48P	1993P2	PINEAULT S.+	1993AJ....105.1060P	Penticton obs.., list 48	
P		NNNN	.	V *	SV* P	.	PRAGER	.	Prager	V * Nmcl
P	*use Parenago*	NNNN	.	* in Orion	Cl* NGC 1977 P	1954P1	PARENAGO P.P.	1954TrSht..25....3P	Parenago	
P	*use PD*	NN	.	(Rad)	-	1964P1	PIKE E.M.+	1964ApJ...139..545P	Pike	
P		NNNN NNNNbis	2990	* galactic and in LMC	-	1970F1 A 1970F1 B 1970F1 C 1970F1 D 1970F1 E	FEHRENBACH C.+ FEHRENBACH C.+ FEHRENBACH C.+ FEHRENBACH C.+ FEHRENBACH C.+	1970A&AS....1....1F 1973A&AS...10..231F 1981A&AS...46...13F 1982A&AS...48....1F 1982A&AS...48..409F	Petite vitesse	

(a) 45P Nos from 19 up to 75. The complete lists have never been published.

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
P	*use Koch*	NNN	.	* in Cluster + V *	`NGC 2264`	`1974K1`	KOCH R.H.+	`1974AJ.....79..379K`	Pennsylvania university	
P	*use PKS*	HHMM+DD HHMM+DDd	.	(Rad)	`PKS`	`1969E1+` `1979B1`	EKERS J.A. BOLTON J.G.+	. `1979AuJPS..46....1B`	Parkes obs.	
P	*use [PAV78]*	NNN	.	H II in M 31	`Cl* NGC 224 P`	.	PELLET A.+	`1978A&AS...31..439P`	Pellet	
P	*use PKS*	JHHMM+DDMM BHHMM+DDd	.	(Rad)	`PKS`	`1991W4`	WRIGHT A.E.+	`1991MNRAS.251..330W`	Parkes obs.	
P	*use PSR*	HHMM+DD	.	PSR	`PSR`	`1976TD`	TERZIAN Y.+	`1976Ap&SS..44..479T`	Pulsar	

P	*use PSR*	HHMM+DD
		HHMM+DDd
		HHMM+DD.d
			.	PSR	`PSR`	`1981MT`
						`1982D1`
						`1984F2`
						`1986C1`
						`1986S2`
						`1992C1`
						`1992F1`
						`1992J2`
							MANCHESTER R.N.+
							DAMASHEK M.+
							FOMALONT E.B.+
							CLIFTON T.R.+
							STOKES G.H.+
							CLIFTON T.R.+
							FOMALONT E.B.+
							JOHNSTON S.+
								`1981AJ.....86.1953M`
								`1982ApJ...253L..57D`
								`1984MNRAS.210..113F`
								`1986Natur.320...43C`
								`1986ApJ...311..694S`
								`1992MNRAS.254..177C`
								`1992MNRAS.258..497F`
								`1992MNRAS.255..401J`
									Pulsar	

P	*use PSS*	FFF-NN	.	Phe Seq. *	`-`	`1991H2`	HUMPHREYS R.M.+	`1991AJ....102..395H`	Palomar survey	
P	*use PHR*	NN	.	(Rad)	`PHR`	.	PARTRIDGE R.B.+	`1986ApJ...308...46P`	Partridge	
[P93]		NNNN 9NNN	2350+45	OB Ass. in 30 Dor	`[P93]`	.	PARKER J.WM.	`1993AJ....106..560P`	Parker, 1993	*(a)*
PACH		NNN	534	Em. * in Orion	`PACH`	`1982P1`	PARSAMIAN E.S.+	`1982BITon...3...69P`	Authors' names	*(b)*
Padova	*eq. PD*	N	.	G	`NAME PD`	. .	SABBADIN F.+ TURATTO M.+	`1989ApJ...346L...5S` `1993AJ....105..142T`	Padova	
PAL	*eq. Pal*	NN	.	GCl	`Cl Pal`	`1955A1`	ABELL G.O.	`1955PASP...67..258A`	Palomar obs.	

(a) [P93] Tables 4 and 5: (Nos 1-2350) and (Nos 9001-9045)
(b) PACH = (PC)

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
Pal		NN	15	GCl	`Cl Pal`	`1955A1`	ABELL G.O.	`1955PASP...67..258A`	Palomar obs.	*(a)*
Palomar	*eq. Pal*	NN	.	GCl	`Cl Pal`	`1955A1`	ABELL G.O.	`1955PASP...67..258A`	Palomar obs.	
Par	*eq. Parenago*	NNNN	.	* in Orion	Cl* NGC 1977 P	`1954P1`	PARENAGO P.P.	`1954TrSht..25....3P`	Parenago	
Parenago		NNNN	2982	* in Orion	Cl* NGC 1977 P	`1954P1`	PARENAGO P.P.	`1954TrSht..25....3P`	Parenago	*(b)*
Parsamian		NN	23	Cometary N	`NAME PARSAMIAN`	`1965P1`	PARSAMIAN E.S.	.	Author's name	*(c)*
Parsamyan	*eq. Parsamian*	NN	.	Cometary N	`NAME PARSAMIAN`	`1965P1`	PARSAMIAN E.S.	.	Author's name	
[PAV78]		NNN	981	H II in M 31	`Cl* NGC 224 P`	.	PELLET A.+	`1978A&AS...31..439P`	Three first authors initials, 1978	*(d)*
PB		NN	10	PN	`PN PB`	.	PEIMBERT M.+	`1960BOTT....2J..19P`	Authors' initials	PN Nmcl *(e)*

PB		NNNN	9495	* + Compact Obj.	`PB`	`1977BF A`
						`1977BF B`
						`1977BF C`
							BERGER J.+
							BERGER J.+
							BERGER J.+
								`1977A&AS...28..123B`
								`1980A&AS...39...39B`
								`1984A&AS...58..565B`
									Palomar obs., Berger	

PBOZ		NN	-	PN	-	.	POTTASCH S.R.+	`1988A&A...205..248P`	Authors' initials	PN Nmcl
PBWW		BHHMM+DDd JHHMM+DDd	800	(Rad)	-	`1992P1`	PATNAIK A.R.+	`1992MNRAS.254..655P`	Authors' initials	*(f)*
PBZ		N	1	Poss. PN	-	.	POTTASCH S.R.+	`1987A&A...177L..49P`	Authors' initials	PN Nmcl
PC		NN	14	PN	`PN PC`	.	PEIMBERT M.+	`1961BOTT....3...33P`	Authors' initials	PN Nmcl *(g)*

(a) Pal = (A) = (Abel) = (Abell) = PAL = Palomar
(Nos 1-13) Abell, ref. 1955A1 ; Subsequently : Pal 14 = Arp 1 = C 1608+150 (ref. 1960A1) ; Pal 15 = An. (Zwicky) = C 1657-004.
(b) Parenago = (π) = (P) = Par
(c) Parsamian = Parsamyan
(d) [PAV78] = (P)
(e) PB Continued by PC (Nos 11-24), (Peimbert+, 1961)
(f) PBWW The authors introduce B or J in the format, so that PBWW B0001+478 = PBWW J0003+481 ; J is mandatory for introducing 2000 coordinates.
(g) PC (Nos 11-24), continues PB (Peimbert+, 1960)

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
PC	*use PACH*	NNN	.	Em. * in Orion	PACH	1982P1	PARSAMIAN E.S.+	1982BITon...3...69P	Authors' initials	
PC		HHMM+DDMM	34	Em. Obj.	PC	1986S1 A	SCHMIDT M.+	1986ApJ...306..411S	Palomar obs., Confirmed em. obj.	
PC		HHMM+DDMMA	33	Em. Obj.	PC	1986S1 B	SCHMIDT M.+	1986ApJ...310..518S	Palomar obs., Confirmed em. obj.	
PC	*use [MC93]*	NN	.	V *	[MC93]	.	MOREL M.+	1993IBVS..3923...1M	P. Camilleri	
PD		NN	26	(Rad)	-	1964P1	PIKE E.M.+	1964ApJ...139..545P	Authors' initials	*(a)*
PD		N	3	G	NAME PD	. .	SABBADIN F.+ TURATTO M.+	1989ApJ...346L...5S 1993AJ....105..142T	Padova	*(b)*
PDS		NNNa	109	T Tau *	PDS	1992G1	GREGORIO-HETEM J.+	1992AJ....103..549G	Pico dos Dias Survey	
PE		NNN	142	* in GCl	NGC 7099	1972D1	DICKENS R.J.	1972MNRAS.157..299D	Photoelectric standard *?	
Pe1-		NN	21	PN	PN Pe 1-	.	PEREK L.	1962BAICz..11..256P	Author's name, list 1	PN Nmcl *(c)*
Pe2-		NN	16	Poss. PN	PN Pe 2-	.	PEREK L.	1963BAICz..14..201P	Author's name, list 2	PN Nmcl; Pe2-6 is a Nova *(d)*
Pe 1-	*eq. Pe1-*	NN	.	PN	PN Pe 1-	.	PEREK L.	1962BAICz..11..256P	Author's name, list 1	
Pe 2-	*eq. Pe2-*	NN	.	Poss. PN	PN Pe 2-	.	PEREK L.	1963BAICz..14..201P	Author's name, list 2	
Penna	*eq. Koch*	NNN	.	* in Cluster + V *	NGC 2264	1974K1	KOCH R.H.+	1974AJ.....79..379K	Pennsylvania university	

(a) PD = (P)
(b) PD = Padova
(c) Pe1- = Pe 1- Table I
(d) Pe2- = Pe 2-

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
PEP		NN	26	Em. *	PEP	.	PICENO A.+	1993IBVS.3892....1P	Authors's initials	
[PFJ93]		NN	86	(X) in M 31	[PFJ93]	.	PRIMINI F.A.+	1993ApJ...410..615P	Authors' initials, 1993	Table 1
PG		N	1	*	-	1975G1	GUIDA P.	.	P. Guida	
PG		HHMM+DDd HHMM+DD	.	UV Obj. + QSO	PG	1976G2 A	GREEN R.F.+	1976PASP...88..598G	Palomar obs., Green	
						1976G2 B	GREEN R.F.	1976PASP...88..665G		
						1976G2 C	GREEN R.F.+	1982PASP...94..560G		
						1976G2 D	SCHMIDT M.+	1983ApJ...269..352S		
						1976G2 E	GREEN R.F.+	1986ApJS...61..305G		
						1976G2 F	BERRIMAN G.+	1990ApJS...74..869B		
PGC		NNNNN	73197	G	PGC	1989PF A	PATUREL G.+	.	Principal Galaxies Catalog	
						1989PF B	PATUREL G.+	1989A&AS...80..299P		
						1989PF C	PATUREL G.+	.		
						1989PF D	BOTTINELLI L.+	1990A&AS...82..391B		
						1989PF E	PATUREL G.+	1991A&AS...91..371P		
						1989PF F	BOTTINELLI L.+	1992A&AS...93..173B		
PGC		NNNNNa	4	H II in PGC G	-	1983P2 K	STEPHENSON C.B.+	1992ApJS...82..471S	Principal Galaxies Catalog	*(a)*
PHA	*eq. PHα*	NNA	.	Em. *	PHA	1987P2	PETTERSSON B.	1987A&AS...70...69P	Petterson, Hα	
PHα		NNA	93	Em. *	PHA	1987P2	PETTERSON B.	1987A&AS...70...69P	Petterson, Hα	*(b)*
PHG		NN	23	SuperCl of ACO Cl	PHG	.	POSTMAN M.+	1992ApJ...384..404P	Authors' initials	
PHL		NNNN	8725	Faint Blue *	PHL	1962H1 A	HARO G.+	1962BITon...3...37H	Palomar obs., Haro Luyten	*(c)*
						1962H1 B	HARO G.+	1987RMxAA..15..107H		
						1962H1 C	CHAVIRA E.	1988RMxAA..16..123C		
						1962H1 D	CHAVIRA E.	1990RMxAA..20...47C		
						1962H1 E	CHAVIRA E.	1992RMxAA..24..139C		

(a) PGC H II regions in the PGC galaxies (ref. 1989PF)
(b) PHα = PHA
(Nos 1-93) but 20 rejected stars (Table III)
(c) PHL = (HL)

Acronym	Usage	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
PHR		NN	32	(Rad)	PHR	.	PARTRIDGE R.B.+	1986ApJ...308...46P	Authors' initials	*(a)*
PHSA	*eq. PS2-*	NN	.	*	PS 2-	1968P1	PHILIP A.G.D.+	1968BITon...4..253P	Authors' names	
Pis	*eq. Pismis*	NN	.	OCl	Cl Pismis	1959P1	PISMIS P.	.	Author's name	
Pis	*eq. Pismis*	NN	.	GCl	-	1959P1	PISMIS P.	.	Author's name	
Pismis		NN	2	GCl	-	1959P1	PISMIS P.	.	Author's name	renamed (Nos 25-26) *(b)*
Pismis		NN	24	OCl	Cl Pismis	1959P1	PISMIS P.	.	Author's name	(Nos 1-24) *(c)*
PK		LLL+BB N	-	PN	PK	1967PK A	PEREK L.+	.	Authors' initials	*(d)*
						1967PK B	ACKER A.+	1977A&AS...30..217A		
						1967PK C	WEINBERGER R.	1977A&AS...30..335W		
						1967PK D	ACKER A.+	1981A&AS...43..265A		
						1967PK E	SANDULEAK N.	1976PW&SO....3...2S		
						1967PK F	ACKER A.+	1983A&AS...54..315A		
						1967PK G	KOHOUTEK L.	1978IAUS...76...47K		
						1967PK H	KOHOUTEK L.	1983IAUS..103...17K		
						1967PK I	LUTZ J.H.+	1983PASP...95..739L		
						1967PK J	KOHOUTEK L.+	1985A&AS...60...87K		
						1967PK K	WEST R.M.+	1985A&AS...60...91W		
						1967PK L	KOHOUTEK L.	1989IAUS..131...29K		
						1967PK M	ACKER A.+	1990A&AS...86..219A		
						1967PK N	KOHOUTEK L.	1994AN....315...63K		
PK67	*use PK*	LLL+BB N	.	PN	PK	1967PK+	PEREK L.+	.	Authors' initials	
PKS		HHMM+DD	2177	(Rad)	PKS	1969E1 A	EKERS J.A.	1969AuJPS...7....1E	Parkes obs.	*(e)*
						1969E1 B	SHIMMINS A.J.+	1968AuJPh..21..377S		
PKS		HHMM+DDd	6842	(Rad)	PKS	1979B1	BOLTON J.G.+	1979AuJPS..46....1B	Parkes obs.	*(f)*

(a) PHR = (P)
(b) Pismis = Pis
GCl ; first introduced as Nos 1-2 in Table II, ref. 1959P1 ; use renumbering (Nos 25-26) later introduced by Alter+, ref. 1970AR.
(c) Pismis = Pis
(d) PK = (PK67)
A number of objects cross-identified with a PK number are not planetary nebulae (a list of misclassified nebulae is given in ref. 1967PK A, E, G, H, I, M, N). However they keep this designation, which is subsequently no more available for another object.
(e) PKS = (P) = (PSR)
(f) PKS = (P) = (PSR)

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
PKS		JHHMM+DDMM BHHMM+DDd	1194	(Rad)	PKS	1991W4	WRIGHT A.E.+	1991MNRAS.251..330W	Parkes obs.	*(a)*
PLX	*eq. Jenkins*	NNNN NNNN.NN	.	*	PLX	1952J1+	JENKINS L.F.	.	Parallax	
PM	*eq. PMI*	HHMMm+DDMMA	.	PM *	PM	1979E1 A	EGGEN O.J.	1979ApJS...39...89E	Proper Motion	
PM	*eq. PMII*	HHMMm+DDMMA	.	PM *	PM	1979E1 B	EGGEN O.J.	1980ApJS...43..457E	Proper Motion	
PM1-		NNN	340	Poss. PN	-	.	PREITE-MARTINEZ A.	1988A&AS...76..317P	Author's initials, list 1	PN Nmcl *(b)*
PM2-		NN	48	Poss. PN	-	.	PREITE-MARTINEZ A.	1988A&AS...76..317P	Author's initials, list 2	PN Nmcl *(c)*
PMI		HHMMm+DDMMA	329	PM *	PM	1979E1 A	EGGEN O.J.	1979ApJS...39...89E	Proper motion, I: (roman num.) 1st catalog	*(d)*
PMII		HHMMm+DDMMA	433	PM *	PM	1979E1 B	EGGEN O.J.	1980ApJS...43..457E	Proper motion, II: (roman num.) 2nd catalog	*(e)*
PMIII		HHMMm+DDMMA	.	PM *	PM	.	EGGEN O.J.	.	Proper motion, III: (roman num.) 3rd catalog	1985
PMMR		NNN	222	Red Superg. in SMC	PMMR	1983P1 A 1983P1 B 1983P1 C	PREVOT L.+ MAURICE E.+ MAURICE E.+	1983A&AS...53..255P 1987A&AS...67..423M 1989A&AS...78..445M	Authors' initials	
PMN		JHHMM+DDMM	36640	(Rad)	-	1993G1 A 1993G1 B 1993G1 C	GRIFFITH M.R.+ WRIGHT A.E.+ GRIFFITH M.R.+	1993AJ....105.1666G 1994ApJS...91..111W 1994ApJS...90..179G	Parkes-MIT-NRAO	*(f)*

(a) PKS = (P)
Ref. 1991W4. Missing space in front of the flag letters J and B
(b) PM1- Table IV: PM1, sources with a high probability of being a PN.
(c) PM2- Table V: PM2, sources with a high probability of being non-PN, or only PN-related objects.
(d) PMI = (PM)
(e) PMII = (PM)
(f) PMN Table 3: missing space between acronym PMN and format JHHMM+DDMM. Don't use PMNJ0000-4618 but PMN J0000-4618

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
PMNM		JHHMM+DDMMa BHHMM+DDMMa	15045	(Rad)	-	.	GREGORY P.C.+	1994ApJS...90..173G	Parkes-MIT-NRAO Map	*(a)*
PN		GLLL.ℓ+BB.b	1143	PN	-	1992AO	ACKER A.+	.	Planetary Nebula	
POT	*use PSD*	FFF-NNNN	.	Southern *	BSD	1929B1+	BECKER F.	.	Postdamer obs.	
POUB		N	5	Flare *	POUB	.	POULAKOS C.	1977AcA....27...87P	Author's name, B range	
POUL	*eq. Poul*	N	.	Flare *	POUL	.	POULAKOS C.	1977A&AS...27..429P	Author's name	
Poul		N	9	Flare *	POUL	.	POULAKOS C.	1977A&AS...27..429P	Author's name	*(b)*
Poulakos	*eq. Poul*	N	.	Flare *	POUL	.	POULAKOS C.	1977A&AS...27..429P	Author's name	
POVR		NN	.	Very Red *	POVR	.	POULAKOS C.	1978A&AS...32..395P	Author's name, Very Red *	
POX		NNNa	.	Em. Obj.	POX	1981K1	KUNTH D.+	1981A&AS...44..229K	Prism Objective, X	
PP		HHMM+DD	8	(Rad)	-	1972P1	PECKHAM R.J.+	1972NPhS..240...76P	Authors' initials	
PP	*use PSR*	HHMM+DD	.	PSR	PSR	1976TD	TERZIAN Y.+	1976Ap&SS..44..479T	Puschino, Pulsar	Superseded by PSR
PP		NNN	106	Cometary N	p PP	1979PP	PARSAMIAN E.S.+	1979SoByu..51....3P	Authors' initials	*(c)*
PPM		NNNNNN	181731	PM *	-	1991R1	ROSER S.+	.	Position and Proper Motion	
Ppx	*use PpxC*	NN	.	Carbon *	-	1989A1	AARONSON M.+	1989ApJS...70..637A	Puppis, extension	

(a) PMNM This catalogue is based on the same PMN survey scan data (ref. 1993G1 A) as the catalogues produced independently by Wright et al. (refs. 1993G1 B+C). A short comparison is given p.176 and in ref. 1993G1 B.
(b) Poul = POUL = Poulakos
(c) PP PP 40 = PN G173.7+02.7

Acronym	Usage	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
PpxC		NN	45	Carbon *	-	1989A1	AARONSON M.+	1989ApJS...70..637A	Puppis, extension, Carbon *	(a)
PRF		NNN	894	(Rad) *	-	1961F1	FOSTER P.R.R.	.	P.R. Foster	(b)
PRMG		N	1	PN	-	.	PENA M.+	1989RMxAA..17...25P	Authors' initials	(c)
PrR		NNN	189	Red *	-	1956L1 A 1956L1 B	LUYTEN W.J. LUYTEN W.J.	. .	Praesepe, Red *	
PRRF	*eq. PRF*	NNN	.	(Rad) *	-	1961F1	FOSTER P.R.R.	.	P.R.R. Foster	
PRTM		N	1	PN	-	.	PENA M.+	1990A&A...237..454P	Authors' initials	(d)
PS	*use PS2-*	NN	.	*	PS 2-	1968P1	PHILIP A.G.D.+	1968BITon...4..253P	Authors' initials	
PS	*use PS6-*	NNN	.	*	PS 6-	1972P2	PHILIP A.G.D.+	1972BITon...6..201P	Authors' initials	
PS		NNN	282	Late * near SGP	-	1978P1	PESCH P.+	1978AJ.....83.1090P	Authors' initials	
PS		FFFF-NNNN	-	*	NAME PS	.	ANDERSEN T.B.	1982IBVS.2091....1A	Palomar Schmidt	(e)
Ps		N	1	PN	PN Ps	.	PEASE F.G.	1928PASP...40..342P	Author's name	Ps 1 = PN G065.0-27.3 = PK 065-27 1
[PS79]		FF-NNN	312	OB * + Su-perg. in LMC	-	.	PHILIP A.G.D.	1979A&AS...35..347P	Authors' initials, 1979	(f)

(a) PpxC = (Ppx)
(b) PRF = PRRF
(c) PRMG PRMG 1 = PN G006.0-41.9
(d) PRTM PRTM 1 = PN G243.8-37.1
(e) PS First reference from this survey. In this ref., N=1, NAME PS 4452-1347
(f) [PS79] In the format, Field FF (here 34 and 47) is the No. of the Hodge & Wright blue chart. Identif. charts.

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
PS2-		NN	62	*	PS 2-	1968P1	PHILIP A.G.D.+	1968BITon...4..253P	Authors' initials, paper II	*(a)*
PS6-		NNN	539	*	PS 6-	1972P2	PHILIP A.G.D.+	1972BITon...6..201P	Authors' initials, paper VI	*(b)*
PS 2-	*eq. PS2-*	NN	.	*	PS 2-	1968P1	PHILIP A.G.D.+	1968BITon...4..253P	Authors' initials, paper II	
PS 6-	*eq. PS6-*	NNN	.	*	PS 6-	1972P2	PHILIP A.G.D.+	1972BITon...6..201P	Authors' initials, paper VI	
PSII	*eq. PS2-*	NN	.	*	PS 2-	1968P1	PHILIP A.G.D.+	1968BITon...4..253P	Authors' initials, paper II	
PS...II	*eq. PS2-*	NN	.	*	PS 2-	1968P1	PHILIP A.G.D.+	1968BITon...4..253P	Authors' initials, paper II	
PSVI	*eq. PS6-*	NNN	.	*	PS 6-	1972P2	PHILIP A.G.D.+	1972BITon...6..201P	Authors' initials, paper VI	
PS...VI	*eq. PS6-*	NNN	.	*	PS 6-	1972P2	PHILIP A.G.D.+	1972BITon...6..201P	Authors' initials, paper VI	
PSC	*catalog: use IRAS*	HHMMm+DDMMA	.	(IR)	IRAS	1985IR B		.	Point Source Catalog	
PSD		FFF-NNNN	66703	Southern *	BSD	1929B1 A 1929B1 B 1929B1 C 1929B1 D 1929B1 E	BECKER F. BECKER F. BECKER F. BRUCK H. BECKER F.	. . . . .	Postdamer obs., Spektral Durchmusterung	*(c)*

(a) PS2- = PHSA = (PS) = PS 2- = PS...II = PSII
Table 2 (Nos 1-62)
(b) PS6- = (PS) = PS 6- = PS...VI = PSVI
(c) PSD = BSD = POT = (SA)

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
PSM		NNNNN	11444	*	-	1968L1 A 1968L1 B	LUYTEN W.J. LUYTEN W.J.	. .	Palomar obs., Survey, Proper Motion?	
PSR	*use PKS*	HHMM+DD HHMM+DDd	.	(Rad)	PKS	1969E1+ 1979B1	EKERS J.A. BOLTON J.G.+	. 1979AuJPS..46....1B	Parkes Selected Region	
PSR		HHMM+DD	.	PSR	PSR	1976TD	TERZIAN Y.+	1976Ap&SS..44..479T	Pulsar	*(a)*
PSR		HHMM+DD HHMM+DDd HHMM+DD.d	.	PSR	PSR	1981MT 1982D1 1984F2 1986C1 1986S2 1992C1 1992F1 1992J2	MANCHESTER R.N.+ DAMASHEK M.+ FOMALONT E.B.+ CLIFTON T.R.+ STOKES G.H.+ CLIFTON T.R.+ FOMALONT E.B.+ JOHNSTON S.+	1981AJ.....86.1953M 1982ApJ...253L..57D 1984MNRAS.210..113F 1986Natur.320...43C 1986ApJ...311..694S 1992MNRAS.254..177C 1992MNRAS.258..497F 1992MNRAS.255..401J	Pulsar	*(b)*
PSR		JHHMM+DDMMA JHHMM+DDA BHHMM+DDA	558	PSR	PSR	1993TM	TAYLOR J.H.+	1993ApJS...88..529T	Pulsar	*(c)*
PSS		FFF-NN	437	Phe Seq. *	-	1991H2	HUMPHREYS R.M.+	1991AJ....102..395H	Palomar Sky Survey	*(d)*
PT	*eq. PWP*	NN	.	(Rad)	-	.	PAULINY-TOTH I.I.K.+	1978A&AS...34..253P	First author's name	
Pt		N	1	PN	-	.	PETERSON A.W.	1977PASP...89..129P	Author's name	*(e)*
[PTB93]		NN	10	Cluster	[PTB93]	.	PASZTOR L.+	1993A&A...268..108P	Authors' initials, 1993	
Pu		N	2	PN	PN Pu	. .	PURGATHOFER A. PURGATHOFER A.	1978A&A....70..589P 1980A&A....88..275P	Author's name	PN Nmcl

(a) PSR = includes (AP), (CP), (HP), (JP), (MP), (NP), (OP), (P), (PP)
(b) PSR = (P)
The usual format has long been HHMM+DD (1950 coordinates). One digit more (+DDd) is found in a few cases, namely for: a PSR in the LMC (PSR 0540-693) ; ref. 1992C1 (PSR 1809-173 and 1809-175) ; ref. 1992J2 (new pulsars 1323-627 and 1530-539).
The numbering PSR 1859+103 in ref. 1984F2 is a misprint for 1859+03.
(c) PSR The provisory format JHHMM+DDA is used when the positional accuracy does not warrant the inclusion of minutes of declination; the letter discrimates *different* pulsars (e.g. in the same star cluster), not subcomponents.
(d) PSS = (P)
(e) Pt = PK 334+00 1, rejected as a PN in 1992AO

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
PULS		AA HHMM AA HHMM+DD	.	PSR	PSR	1976TD	TERZIAN Y.+	1976Ap&SS..44..479T	Pulsar	Old designation
Pup	*use PupC*	NN	.	Carbon *	-	1989A1	AARONSON M.+	1989ApJS...70..637A	Puppis	
PupC		NN	44	Carbon *	-	1989A1	AARONSON M.+	1989ApJS...70..637A	Puppis, Carbon *	*(a)*
PuWe		N	1	PN	PN PuWe	.	PURGATHOFER A.+	1980A&A....87L...5P	Authors' names	PuWe 1 = PN G158.9+17.8 = PK 158+17 1
PWP		NN	95	(Rad)	-	.	PAULINY-TOTH I.I.K.+	1978A&AS...34..253P	Three first authors' initials	*(b)*
Q		HHMM+DDdA	.	QSO	QSO	1980O1 A 1980O1 B 1984H1	OSMER P.S.+ OSMER P.S. HE X.-T.+	1980ApJS...42..333O 1980ApJS...42..523O 1984MNRAS.211..443H	Quasi stellar obj.	
Q	*eq. QSO*	HHMM+DDdA	.	QSO	QSO	1980HB 1982BC 1987HB+ 1993HB	HEWITT A.+ BARBIERI C.+ HEWITT A.+ HEWITT A.+	1980ApJS...43...57H . . 1993ApJS...87..451H	Quasi stellar obj.	
Q	*eq. QSO*	HHMM+DDd JHHMM+DDMM	.	QSO	QSO	1991J1	JUNKKARINEN V.+	1991ApJS...77..203J	Quasi stellar obj.	
QL		NN	22	(Rad)	-	1966Q1	QUIGLEY M.J.S.+	1966MNRAS.134..239Q	Authors' initials	
QS		HHMM+DDM̲	1	QSO	QSO	1969S2	STOCKTON A.	1969ApJ...155.L141S	Quasi Stellar	*(c)*
QSO		HHMM+DDdA	1491	QSO	QSO	1980HB	HEWITT A.+	1980ApJS...43...57H	Quasi Stellar Obj.	*(d)*
QSO		HHMM.m+DDMM	2004	QSO	QSO	1982BC	BARBIERI C.+	.	Quasi Stellar Obj.	*(e)*

(a) PupC = (Pup)
(b) PWP = PT
(c) QS = (Stockton)
(d) QSO = Q
(e) QSO = Q

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
QSO		HHMM+DDdA	4301	QSO	QSO	1987HB A 1987HB B	HEWITT A.+ HEWITT A.+	1987ApJS...63....1H 1989ApJS...69....1H	Quasi Stellar Obj.	*(a)*
QSO		HHMM+DDdA	7225	QSO	QSO	1993HB	HEWITT A.+	1993ApJS...87..451H	Quasi Stellar Obj.	*(b)*
QSO		HHMM+DDd JHHMM+DDMM	724	QSO	QSO	1991J1	JUNKKARINEN V.+	1991ApJS...77..203J	Quasi Stellar Obj.	*(c)*
QWCG		NNN	187	Cluster of G	-	1990Q1	QUINTANA H.+	1990Ap&SS.173..265Q	Authors' initials, Cl of G	
QWCGS		NN	80	Cluster of G	-	1990Q1	QUINTANA H.+	1990Ap&SS.173..265Q	Authors' initials, Cl of G, Suppl. list	
R		NNN	147	*	SV* R	. . .	ROSS F.E. ROSS F.E. ROSS F.E.	1926AJ.....36...99R 1926AJ.....36..122R 1926AJ.....36..167R	Ross	V * Nmcl *(d)*
R		NNN	93	(Rad)	-	1958R1	RISHBETH H.	1958AuJPh..11..550R	Rishbeth	
R		NNNA	158	* in MC	RMC	1960F1	FEAST M.W.+	1960MNRAS.121..337F	Radcliffe obs.	*(e)*
R		NN	16	Red *	-	1960L1	LUYTEN W.J.	.	Red *	
R		NN	19	*	-	1960R1	RODGERS A.W.	1960MNRAS.120..163R	Rodgers	
R	*use NRC*	NN	.	(Rad)	-	1965R1	RAGHAVARAO R.+	1965MNRAS.129..159R	Raghavarao	
R	*use Ruprecht*	NNN	.	OCl	Cl Ruprecht	1966R1	RUPRECHT J.	1966BAICz..17...33R	Author's name	
R		R	3	IVC	-	1971R1	RICKARD J.J.	1971A&A....11..270R	Rickard	
R	*use Ross*	NNNN	.	*	ROSS	1925R1	ROSS F.E.	1925AJ.....36...96R	Ross	
R	*use RCW*	NNN	.	H II (26PN)	RCW	1960R2	RODGERS A.W.+	1960MNRAS.121..103R	Rodgers	

(a) QSO = Q
(b) QSO = Q
(c) QSO = Q
The authors introduce B or J in the format, so that QSO J0016-0012 = QSO 0013-004 ; J is mandatory for introducing 2000 coordinates.
(d) R No. 10 is an error and should be cancelled
(e) R = RV = RMC

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
R	*use HAWK*	NN	.	V *	p HAWK	.	HAWKINS M.R.S.	1984MNRAS.206..433H	RR Lyrae *	
[R89]		NNN	223	*	-	.	RADOSLAVOVA T.	1989AbaOB..66...33R	Radoslavova, 1989	
[R91]		FF-NN	> 5000	(IR)	-	.	RUELAS-MAYORGA R.A.	1991RMxAA..22...43R	Ruelas-Mayorga, 1991	*(a)*
Raab		NNN	152	OCl	-	1922R1	RAAB S.	.	Author's name	*(b)*
RAFGL		NNNN NNNNS	6146	(IR)	RAFGL	1983P3	PRICE S.+	.	Revised Air Force Geophys. Lab.	
RAFGL...S	*eq. RAFGL*	NNNNS	.	(IR)	AFGL	1983P3	PRICE S.+	.	Revised Air Force Geophys. Lab., Suppl.	
RatanC	*eq. RC*	JHHMM+DDMM	.	(Rad)	RC	1991P2+	PARIJSKIJ Yu.N.+	.	Ratan Cold	
RAW		NNNN	1707	Carbon * in SMC	RAW	1993R1	REBEIROT E.+	1993A&AS...97..603R	Authors' initials	
RB		NNN	271	G	p RB	1967R1	ROOD H.J.+	1967AJ.....72..398R	Authors' initials	
Rb	*eq. Raab*	NNN	.	OCl	-	1922R1	RAAB S.	.	Author's name	
RBTS		NNN	≃ 540	M *	RBTS	1984R1	ROBERTSON T.H.	1984AJ.....89.1229R	Author's name	
RC		JHHMM+DDMM	1144	(Rad)	RC	1991P2 A 1991P2 B	PARIJSKIJ Yu.N.+ PARIJSKIJ Yu.N.+	1991A&AS...87....1P 1992A&AS...96..583P	Ratan Cold	*(c)*
RC3	*catalog*	-	1144	G	-	1991DV	de VAUCOULEURS	.	3rd Reference Catalogue	
RCG	*eq. Rose*	NN	.	Group of G	-	1977R1	ROSE J.A.	1977ApJ...211..311R	Rose, Compact Group	
RCW		NNN	182	H II (26PN)	RCW	1960R2	RODGERS A.W.+	1960MNRAS.121..103R	Authors' initials	*(d)*

(a) [R91] Authors use a format FF/NN
(b) Raab = Rb
(c) RC = RatanC
The numbering is based on J2000 coord., thus it is mandatory to write a J in the format, RC J0401+456 instead of RC 0401+456 which would be interpreted as 1950 coord. See erratum 1993, Astr. Astrophys. Suppl. 98, 391
(d) RCW = (R)

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
RDE		NNa	12	(Rad)	-	1973E2	EKERS R.D.	1973A&A....22..309E	R.D. Ekers	
RDM	*use DM*	+DD NNNNN	.	*	DM	1892T1+ 1886A1+ 1896G1+	THOME J.M. SCHONFELD E. GILL D.	. . .	?, Durchmusterung Nmcl	
RDS		NNNN	8065	Double *	** RDS	1955R1	ROSSITER R.A.	1955POMic..11....1R	Rossiter, Double *	IDS Nmcl
RE	*eq. REUV*	JHHMMSS+DDMMSS	.	(Extreme UV)	RE	1991P4	POUNDS K.A.+	1991MNRAS.253..364P	Rosat sat., Extreme UV	
RE	*eq. REUV*	JHHMM+DDM	.	(Extreme UV)	RE	1993P1 A 1993P1 B	POUNDS K.A.+ SHARA M.M.+	1993MNRAS.260...77P 1993PASP..105..387S	Rosat sat., Extreme UV	
Re		N	1	Poss. PN	-	. .	REYNOLDS R.J. REYNOLDS R.J.	1985ApJ...288..622R 1987ApJ...315..234R	Author's name	PN Nmcl
Reich 1-	*use RFS*	NNNN	.	(Rad)	RFS	.	REICH W.+	1984A&AS...58..197R	First author's name, list 1	
Reich 2-	*use RRF*	NNN	.	(Rad)	RRF	.	REICH W.+	1990A&AS...83..539R	First author's name, list 2	
Reich 3-	*use F3R*	NNNN	.	(Rad)	F3R	.	FURST E.+	1990A&AS...85..805F	Reich, list 3	
REIPURTH		NNa	65	Neb. Obj.	NAME REIPURTH	1981R2 A 1981R2 B	REIPURTH B. REIPURTH B.	1981A&AS...44..379R 1985A&AS...61..319R	Author's name	
REUV		JHHMMSS+DDMMSS	840	(Extreme UV)	RE	1991P4	POUNDS K.A.+	1991MNRAS.253..364P	Rosat sat., Extreme UV	*(a)*
REUV		JHHMM+DDM	384	(Extreme UV)	RE	1993P1 A 1993P1 B	POUNDS K.A.+ SHARA M.M.+	1993MNRAS.260...77P 1993PASP..105..387S	Rosat sat., Extreme UV	*(b)*

(a) REUV = RE
The format should be written e.g. J001227+143324 , with leading J standing for 2000 coord., instead of 001227+143324 as written by the authors

(b) REUV = RE
The format should be written e.g. J0003+4335 (or J0003+435) for the first source, with leading J standing for 2000 coord. (α (2000) = 00 03 56.7, δ (2000) = 43 35 55)
The format proposed by the authors (bottom p. 1) namely RE 0003+433 *is incorrect* and should absolutely be rejected for 3 reasons:
- RE 0003+433 would be correct for a source of coordinates α (1950) = • 00 03 56.7, δ (1950) = +43 22 10 (not +43 35 55)
- The J is mandatory to indicate 2000 coordinates

No truncature should be done on the 1st numeral of the minutes of declination.
Nevertheless, the format JHHMM+DDM has been introduced in Simbad, because found in the literature.

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
RF		AN-NNN	610	* in Puppis	`RF`	.	REED B.C.+	`1983MNRAS.205..241R`	Authors' initials	
RFS		NNNN	1212	(Rad)	`RFS`	.	REICH W.+	`1984A&AS...58..197R`	Three first authors' initials	*(a)*
R...F		NNN	103	Foregd * to MC	`-`	`1960F1`	FEAST M.W.+	`1960MNRAS.121..337F`	Radcliffe obs., Foregd *	

RG		HHMM-DDMM
		HHMM.m+DDMM
			56	Faint Red *	`p RG`	`1981R1 A`
						`1981R1 B`
						`1981R1 C`
							REID I.N.+
							GILMORE G.+
							REID N.+
								`1981MNRAS.196P..15R`
								`1981Natur.291..208G`
								`1984MNRAS.206...19R`
									Authors' initials	

RGH		NNN	128	Group of G	`RGH`	`1989R1`	RAMELLA M.+	`1989ApJ...344...57R`	Authors' initials	*(b)*
RHP	*use BS*	NNNN	.	*	`HR`	`1964HF+` `1982HJ+`	HOFFLEIT D. HOFFLEIT D.+	. .	Revised Harvard Photometry	
RJHA		NNN	120	Em. Obj.	`EM* RJHA`	`1989R2`	ROBERTSON T.H.+	`1989AJ.....98.1354R`	Authors' initials, Hα obj.	
RK		NNN	108	RFN	`-`	`1968R1`	ROJKOVSKIJ D.A.+	.	Authors' initials	
RL		NNN	152	Blue *	`RL`	`1971R2 A` `1971R2 B`	RUBIN V.C.+ RUBIN V.C.+	`1971AJ.....76.1099R` `1974AJ.....79.1406R`	Authors' initials	*(c)*
RM		N	8	O-B3 *	`NAME RM`	.	MUZZIO J.C.+	`1974AJ.....79..864M`	Second and first authors' initials	*(d)*
RM		HHMM+DDMM	93	(Rad)	`-`	`1983K1`	KONONOV V.K.+	`1983SvA....27..399K`	Radio source in Mon R2	

(a) RFS = (Reich 1-)
(b) RGH The identif. number is to be taken in Table 5, not in Table 4
(c) RL = RWT
(d) RM = MR74

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
RM1-		NNN	839	M Superg. in LMC	`RM 1-`	`1983R2 A` `1983R2 B`	REBEIROT E.+ PREVOT L.+	`1983A&AS...51..277R` `1985A&AS...62...23P`	Two first authors' initials, list 1	*(a)*
RM1-	*use SMC AGB1-*	N	.	Red * in SMC	`[RM90] 1-`	`1990R2`	REID N.+	`1990ApJ...360..490R`	Authors' initials, field 1	
RM2-		NNN	145	Red * in LMC	`RM 2-`	`1983R2 A` `1983R2 B`	REBEIROT E.+ PREVOT L.+	`1983A&AS...51..277R` `1985A&AS...62...23P`	Two first authors' initials, list 2	*(b)*
RM2-	*use SMC AGB2-*	NN	.	Red * in SMC	`[RM90] 2-`	`1990R2`	REID N.+	`1990ApJ...360..490R`	Authors' initials, field 2	
RM3-		NNNN	2629	Late * in LMC	`RM 3-`	`1987R1`	ROBIN A.+	`1987A&AS...68...63R`	Two first authors' initials, list 3	*(c)*
RM3-	*use SMC AGB3-*	NN	.	Red * in SMC	`[RM90] 3-`	`1990R2`	REID N.+	`1990ApJ...360..490R`	Authors' initials, field 3	
[RM90] 1-	*eq. SMC AGB1-*	N	.	Red * in SMC	`[RM90] 1-`	`1990R2`	REID N.+	`1990ApJ...360..490R`	Authors' initials, field 1	
[RM90] 2-	*eq. SMC AGB2-*	NN	.	Red * in SMC	`[RM90] 2-`	`1990R2`	REID N.+	`1990ApJ...360..490R`	Authors' initials, field 2	
[RM90] 3-	*eq. SMC AGB3-*	NN	.	Red * in SMC	`[RM90] 3-`	`1990R2`	REID N.+	`1990ApJ...360..490R`	Authors' initials, field 3	
RM 1-	*eq. RM1-*	NNN	.	M Superg. in LMC	`RM 1-`	`1983R2+`	REBEIROT E.+	.	Two first authors' initials, list 1	

(a) RM1- = RM 1- = (RMMP)
Table II in 1983R2 A
(b) RM2- = RM 2- = (RMMP3-)
Table III in 1983R2 A
(c) RM3- = RM 3-

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
RM 2-	*eq. RM2-*	NNN	.	Red * in LMC	`RM 2-`	1983R2+	REBEIROT E.+	.	Two first authors' initials, list 2	
RM 3-	*eq. RM3-*	NNNN	.	Late * in LMC	`RM 3-`	1987R1	ROBIN A.+	1987A&AS...68...63R	Two first authors' initials, list 3	
RMB		NNN	228	Blue Obj.	`p RMB`	1967R2	RUBIN V.C.+	1967AJ.....72...59R	Authors' initials	
RMC	*eq. R*	NNN	.	* in MC	`RMC`	1960F1	FEAST M.W.+	1960MNRAS.121..337F	Radcliffe obs., Magellanic Clouds	
RMHB	*eq. NRC*	NN	.	(Rad)	-	1965R1	RAGHAVARAO R.+	1965MNRAS.129..159R	Authors' initials	
RMMP	*use RM1-*	NNN	.	M Superg. in LMC	`RM 1-`	1983R2+	REBEIROT E.+	.	Four first authors' initials	
RMMP3-	*use RM2-*	NNN	.	Red * in LMC	`RM 2-`	1983R2+	REBEIROT E.+	.	Four first authors' initials, table III	
RN		NN	87	(Rad)	`RN`	1962R2	RYLE M.+	1962MNRAS.125...39R	Authors' initials	
RNGC	*catalog: use NGC*	NNNNA	.	(Opt)	`NGC`	1888D1 B	SULENTIC J.W.+	.	Revised New General Catalog	
RNO		NNNa	150	Red Neb. Obj.	`p RNO`	1980C1 A 1980C1 B	COHEN M. JONES B.F.+	1980AJ.....85...29C 1984AJ.....89.1404J	Red Nebulous Obj.	
Rob	*eq. Roberts*	NNN	.	WR	`MR`	1962R1	ROBERTS M.S.	1962AJ.....67...79R	Author's name	
Roberts		NNN	123	WR	`MR`	1962R1	ROBERTS M.S.	1962AJ.....67...79R	Author's name	WR Nmcl *(a)*
ROC		NN	59	(Rad) in ρ Oph DCld	`ROC`	.	ANDRE P.+	1987AJ.....93.1182A	ρ Oph DCld Central region	Table IV

(a) Roberts = MR = Rob
19 stars are deleted from the WR Catalogue, see ref. 1981VH A, table IV

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
RoCG		NNN	124	Cluster of G	-	1976R2	ROSE J.A.	1976A&AS...23..109R	Author's name, Cluster of G	*(a)*
Rochester		-	1	(Gamma)	-	.	-	.	Author's name	Obsolete
Rood		NN	44	Group of Clusters of G	Rood	.	ROOD H.J.	1976ApJ...207...16R	Author's name	
ROS		NN	58	(Rad) in ρ Oph DCld	ROS	.	ANDRE P.+	1987AJ.....93.1182A	ρ Oph Survey	Table III
Ros	*eq. Roslund*	N	.	OCl	Cl Roslund	1960R3	ROSLUND C.	1960PASP...72..205R	Author's name	
Rose	*use RoCG*	NNN	.	Cluster of G	-	1976R2	ROSE J.A.	1976A&AS...23..109R	Author's name	
Rose		NN	38	Group of G	-	1977R1	ROSE J.A.	1977ApJ...211..311R	Author's name	*(b)*
Rosino		NNN	142	Nova in M 31	-	. . .	ROSINO L. ROSINO L. ROSINO L.+	1964AnAp...27..498R 1973A&AS....9..347R 1989AJ.....97...83R	Author's name	
Roslund		N	7	OCl	Cl Roslund	1960R3	ROSLUND C.	1960PASP...72..205R	Author's name	*(c)*
ROSS	*eq. Ross*	NNNN	.	*	ROSS	1925R1	ROSS F.E.	1925AJ.....36...96R	Author's name	
Ross		NNNN	1070	*	ROSS	1925R1	ROSS F.E.	1925AJ.....36...96R	Author's name	*(d)*
Rossiter	*eq. Rst*	NNNN	.	Double *	** RST	1955R1	ROSSITER R.A.	1955POMic..11....1R	Author's name	
ROT	*eq. Uesugi*	NNNN	.	*	ROT	1970U1	UESUGI A.+	1970CoKwa.189.....U	Rotationnal velocity	

(a) RoCG = (Rose)
Don't use the synonyme Rose which refers to compact groups of galaxies (ref. 1977R1)
(b) Rose = RCG
For clusters of galaxies (ref. 1976R2) use the acronym RoCG
(c) Roslund = Ros
(d) Ross = (R) = ROSS
Ref. 1925R1 also contains the Simbad II ref.: 26..2001 ; 26..2002 ; 26..2003 ; 27..2001 ; 28..2001 ; 29..2001 ; 30..2001 ; 31..2001 ; 37..2001 ; 39..2001 ; 39..2002

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
ROX		NN	47	(X) in ρ Oph DCld	`ROX`	1983M2	MONTMERLE T.+	1983ApJ...269..182M	ρ Oph DCld, X-ray source	
ROX		CNN	20	(X) in ρ Oph DCld	`ROX`	1983M2	MONTMERLE T.+	1983ApJ...269..182M	ρ Oph, X-ray source	*(a)*
Rp	*eq. Ruprecht*	NNN	.	OCl	`Cl Ruprecht`	1966R1	RUPRECHT J.	1966BAICz..17...33R	Author's name	
RPZM		NN	48	PN	-	.	RATAG M.A.+	1990A&A...233..181R	Authors' initials	PN Nmcl
RRF		NNN	884	(Rad)	`RRF`	.	REICH W.+	1990A&AS...83..539R	Authors' initials	*(b)*
RS		NN	53	Blue Obj.	`p RS`	1965R2	RICHTER N.+	1965MiTau..24....5R	Authors' initials	
RSF		LLL.ℓ+BB.b	330	RSF	-	1981A2	AVEDISOVA V.	.	Region of $*$ Formation	
RSO		N	1	QSO	-	1979A1	ARP H.+	1979ApJ...229..496A	Radio Source Obj.	
RSO	*catalog: use NIPSS*	FFFFCNNN	.	Red Stel. Obj.	`NIPSS`	1979C1	CRAINE E.R.+	.	Red Stellar Obj.	
RSO1	*catalog: use NIPSS*	FFFFCNNN	.	Red Stel. Obj.	`NIPSS`	1979C1	CRAINE E.R.+	.	Red Stellar Obj.	
RST	*eq. Rst*	NNNN	.	Double $*$	`** RST`	1955R1	ROSSITER R.A.	1955POMic..11....1R	Author's name	
Rst		NNNN	5534	Double $*$	`** RST`	1955R1	ROSSITER R.A.	1955POMic..11....1R	Author's name	IDS Nmcl *(c)*
RT	*eq. BW*	FF-NN	.	(IR)	-	. .	RUELAS-MAYORGA R.A.+	1992A&AS..93....61R 1992A&AS...93...61R	Authors' initials	
[RT93]		AN FF-NN	69	$*$	`[RT93]`	.	RUELAS-MAYORGA R.A.+	1993A&AS...97..587R	Authors' initials, 1993	*(d)*

(a) ROX — C in the format: Complementary list
(b) RRF = (Reich 2-)
(c) Rst = Rossiter = RST
(d) [RT93] — Format: AN for R1, R2, R3 regions ; R1 02-01 means the first source found on the second row of the scan corresponding to the R1 region. (authors use AN FF/NN)

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
Ru	*eq. Ruprecht*	NNN	.	OCl	`Cl Ruprecht`	`1966R1`	RUPRECHT J.	`1966BAICz..17...33R`	Author's name	
Rup	*eq. Ruprecht*	NNN	.	OCl	`Cl Ruprecht`	`1966R1`	RUPRECHT J.	`1966BAICz..17...33R`	Author's name	
Ruprecht		NNN	>176	OCl	`Cl Ruprecht`	`1966R1`	RUPRECHT J.	`1966BAICz..17...33R`	Author's name	C Nmcl *(a)*
RV	*eq. R*	NNN	.	* in MC	`RMC`	`1960F1`	FEAST M.W.+	`1960MNRAS.121..337F`	Radcliffe obs., Variable	
RW		NN	17	G in Cluster of G	-	`1973R1`	ROBINSON L.B.+	`1973ApJ...179L.135R`	Authors' initials	
RWT	*RL*	NNN	89	Blue *	`RL`	`1971R2 B`	RUBIN V.C.+	`1974AJ.....79.1406R`	Authors' initials	*(b)*
RX		JHHMMm-DDMM JHHMM.m-DDMM	17	(X) in LMC	`RX`	`1991T2`	TRUMPER J.+	`1991Natur.349..579T`	Rosat sat., (X)	*(c)*
RX		JHHMMm+DDMM JHHMM.m+DDMM	41	(X)	`RX`	`1992B5`	BADE N.+	`1992A&A...254..L21B`	Rosat sat., (X)	*(d)*
RZ		NN	70	(Rad)	`RZ`	`1991V2`	MINGALIEV M.G.+	`1991PAZh...17..787M`	Ratan Zenith	*(e)*
rz	*use RZ*	NN	.	(Rad)	`RZ`	`1991V2`	MINGALIEV M.G.+	`1991PAZh...17..787M`	Ratan Zenith	
1S		HHMM+DDd	.	(X)	-	.	-	.	SAS-3 satellite, list 1	
2S		HHMM+DDd	.	(X)	`2S`	.	BRADT H.V.+	`1977Natur.269...21B`	SAS-3 satellite, list 2	
S	*use Son*	NNNNN	.	V *	`SV* SON`	.	-	.	Sonneberg inst.	
S	*use Simeis*	NNN	.	H II	`SIM`	`1950S1+`	SHAJN G.A.+	.	Simeis obs.	*(f)*

(a) Ruprecht = (R) = RP = Ru = Rup
(b) RWT RWT 152 is a poss. PN in ref. 1992AO
(c) RX Ref. 1991T2. The numbering is based on J2000 coord., thus it is mandatory to write a J in the format.
(d) RX Ref. 1992B5. The authors use the format JHHMMm+DDMM, where J stands for 2000 coord.
(e) RZ = (rz)
(f) S Ref. 1950S1: S 147, a wellknown galactic SNR, should be labelled Simeis 147 ; S instead of Sh2- (H II region, Sharpless, ref. 1959S3) is of current use except in eastern Europa where it generally stands for Simeis (H II region, Shajn+Gaze, ref. 1950S1).

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
S	*use LHA 115-S*	NN	.	Em. * in SMC	`LHA 115-S`	1956H2	HENIZE K.G.	`1956ApJS....2..315H`	Star	
S	*use LHA 120-S*	NNN	.	Em. * in LMC	`LHA 120-S`	1956H2	HENIZE K.G.	`1956ApJS....2..315H`	Star	
S	*use Strand*	NN	.	*	-	1958S1	STRAND K.Aa.+	`1958AJ.....63..337S`	Strand	
S	*use Sh2-*	NNN	.	H II + PN	`SH 2-`	1959S3	SHARPLESS S.	`1959ApJS....4..257S`	Sharpless	*(a)*
S	*use Sk*	NNN	.	* in SMC	`SK`	1968S1+	SANDULEAK N.	.	Sanduleak	*(b)*
S		NNN	110	* galactic and in LMC	-	1970F1 A	FERENBACH C.+	`1970A&AS....1....1F`	liste Supplementaire	
S	*use Sk*	-DD NNNA	.	* in LMC	`SK`	1970S1	SANDULEAK N.	`1970CoTol..89.....S`	Sanduleak	*(c)*
S	*use Simeis*	HHMM+DD.N	.	(Rad)	`SIM`	1971L1	LARIONOV M.G.+	`1971ATsir.665....1L`	Simeis obs.	
S	*use [S73]*	NN	.	GCl in M 31	`[S73]`	.	SHAROV A.S.	`1973SvA....17..174S`	Sharov	
S	*use Sand*	NNN	.	M *	`SAND`	1976S2	SANDULEAK N.	`1976AJ.....81..350S`	Sanduleak	
S	*use DNCG*	HHMM-DDd	.	Cluster of G	`p STR`	1977D1	DUUS A.+	`1977ApJS...35..209D`	Southern cluster of galaxies	
S	*use WOH*	NNN	.	Superg. in LMC	-	1981W1	WESTERLUND B.E.+	`1981A&AS...43..267W`	Supergiant	
S	*use ACOS*	NNNN	.	Cluster of G	`ACO S`	1989AC	ABELL G.O.+	`1989ApJS...70....1A`	Suppl. southern	
[S73]		NN	25	GCl in M 31	`[S73]`	.	SHAROV A.S.	`1973SvA....17..174S`	Sharov, 1973	*(d)*

(a) S — Ref. 1959S3: S 147, a wellknown galactic SNR, should be labelled Simeis 147 ; S instead of Sh2- (H II region, Sharpless, ref. 1959S3) is of current use except in eastern Europa where it generally stands for Simeis (H II region, Shajn+Gaze, ref. 1950S1).
(b) S — Ref 1968S1, in SMC: Identified with this acronym S instead of Sk on Hodge+Wright charts (ref. 1977HW)
(c) S — Ref. 1970S1: in LMC: Identified with this acronym instead of Sk on Hodge+Wright charts (ref. 1977HW)
(d) [S73] = (S)

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
[S84]		NNNNN	10053	*	[S84]	.	STOCK J.	1984RMxAA...9...77S	Stock, 1984	*(a)*
[S87]		NN	48	Pair of G	-	.	SCHWEIZER L.Y.	1987ApJS...64..411S	Schweizer, 1987	
[S87]		NNA	48x2	G in pair	-	.	SCHWEIZER L.Y.	1987ApJS...64..411S	Schweizer, 1987	
[S92]		R-NNN	812+491	*	[S92]	.	STOCK J.	1992RMxAA..24...45S	Stock, 1992	*(b)*
S*	*eq. Stephenson*	NNN	.	S *	S1*	1976ST	STEPHENS0N C.B.	1976PW&SO...2....2S	catalog of S * (1st ed.)	
S1		HHMM+DDA	27	(Rad)	-	1972P3 A	PAULINY-TOTH I.I.K.+	1972AJ.....77..265P	Strong Source	
S1*	*eq. Stephenson*	NNN	.	S *	S1*	1976ST	STEPHENS0N C.B.	1976PW&SO...2....2S	catalog of S * (1st ed.)	
S2		HHMM+DDA	218	(Rad)	-	1972P3 A	PAULINY-TOTH I.I.K.+	1972AJ.....77..265P	Strong Source	
S3		HHMM+DDA	240	(Rad)	-	1972P3 B	PAULINY-TOTH I.I.K.+	1972AJ.....77..797P	Strong Source	
S4		HHMM+DDA HHMM+DDd	484	(Rad)	-	1972P3 C	PAULINY-TOTH I.I.K.+	1978AJ.....83..451P	Strong Source	
S5		HHMM+DDA HHMM+DDd	476	(Rad)	-	1972P3 D	KUHR H.+	1981AJ.....86..854K	Strong Source	
SA		FFF	206	Area	SA	1918P1 A 1918P1 B 1918P1 C	PICKERING E.C.+ PICKERING E.C.+ PICKERING E.C.+	1918AnHar.101.....P 1923AnHar.102..276P 1924AnHar.103..343P	Selected Area	
SA		FFF-NNN	67941	* in Selected Area	SA	1918P1 A 1918P1 B 1918P1 C	PICKERING E.C.+ PICKERING E.C.+ PICKERING E.C.+	1918AnHar.101.....P 1923AnHar.102..276P 1924AnHar.103..343P	Selected Area	
SA	*use PSD*	FFF-NNNN	.	Southern *	BSD	1929B1+	BECKER F.	.	Selected Area	
SA	*use BSD*	FFF-NNNN	.	Northern *	BSD	1935S1	SCHWASSMANN A.+	1935BSD..........1S	Selected Area	
SA	*use SASpecial*	FF	.	Area	-	1952V1+	VAN RHIJN P.J.	.	Selected Area	

(a) [S84] = (SVS) = (StVS)
The complete catalogue is described in the paper, but published separately.

(b) [S92] Format: roman num. I for area I (table 3, N=812), roman num. II for area II (table 4, N=491)

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
SA	*use SASpecial*	FF-NNNNN	.	* in Selected Area	-	1952V1+	VAN RHIJN P.J.	.	Selected Area	
Sa	*use Sk*	-DD NNNA	.	* in LMC	SK	1970S1	SANDULEAK N.	1970CoTol..89.....S	Sanduleak	
Sa	*eq. SL*	NNN	.	DCld	p Sandqvist	1976S1+	SANDQVIST Aa.+	.	Sandqvist	
Sa	*use SMP1-*	NNNA	.	PN in LMC	p SMP 1-	1978S2 C	SANDULEAK N.	1984IAUS..108..231S	Sanduleak	
Sa1-		N	8	PN	PN Sa 1-	1974S5	SANDULEAK N.	1974PASP...86..215S	Author's name, list 1	PN Nmcl *(a)*
Sa2-		NNN	392	PN	PN Sa 2-	1975S2	SANDULEAK N.	1975PW&SO........5S	Author's name, list 2	PN Nmcl *(b)*
Sa3-		NNN	153	Susp. PN	PN Sa 3-	1967PK E	SANDULEAK N.	1976PW&SO....3...2S	Author's name, list 3	PN Nmcl *(c)*
Sa4-		N	1	PN	PN Sa 4-	.	SANDULEAK N.	1983PASP...95..619S	Author's name, list 4	Sa4-1 = PN G075.7+35.8 = PK 075+35 1 *(d)*
Sa 1-	*eq. Sa1-*	N	.	PN	PN Sa 1-	1974S5	SANDULEAK N.	1974PASP...86..215S	Author's name, list 1	
Sa 2-	*eq. Sa2-*	NNN	.	PN	PN Sa 2-	1975S2	SANDULEAK N.	1975PW&SO........5S	Author's name, list 2	
Sa 3-	*eq. Sa3-*	NNN	.	PN	PN Sa 3-	1967PK E	SANDULEAK N.	1976PW&SO....3...2S	Author's name, list 3	
Sa 4-	*eq. Sa4-*	N	.	PN	PN Sa 4-	.	SANDULEAK N.	1983PASP...95..619S	Author's name, list 4	
Sahbazjan	*eq. Shakhbazian*	R	.	Cluster of G	Cl Sahlbajan	1957S1	SHAKHBAZIAN R.K.	1957AciCh.177...11S	Author's name	
Sahlbajan	*eq. Shakhbazian*	R	.	Cluster of G	Cl Sahlbajan	1957S1	SHAKHBAZIAN R.K.	1957AciCh.177...11S	Author's name	

(a) Sa1- = Sa 1- = (Sanduleak) = (Sp1-) = (St1-)
(b) Sa2- = Sa 2- = (Sanduleak)
(c) Sa3- = Sa 3- = (Sanduleak) = (St2-)
(d) Sa4- = Sa 4-

Acronym	Usage	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
Sand		NNN	274	M *	SAND	1976S2	SANDULEAK N.	1976AJ.....81..350S	Author's name	(a)
Sand	*use Sand WR*	N	.	WR	NAME SAND WR	1971S5	SANDULEAK N.	1971ApJ...164L..71S	Author's name	
Sandqvist	*eq. SL*	NNN	.	DCld	p Sandqvist	1976S1+	SANDQVIST Aa.+	.	First author's name	
Sanduleak	*use Sa1-*	N	.	PN	PN Sa 1-	1974S5	SANDULEAK N.	1974PASP...86..215S	Author's name	
Sanduleak	*use Sa2-*	NNN	.	PN	PN Sa 2-	1975S2	SANDULEAK N.	1975PW&SO........5S	Author's name	
Sanduleak	*use Sa3-*	NNN	.	PN	PN Sa 3-	1967PK E	SANDULEAK N.	1976PW&SO....3...2S	Author's name	
Sanduleak	*use Sk*	NNN	.	* in SMC	SK	1968S1+	SANDULEAK N.	.	Author's name	
Sanduleak	*use Sk*	-DD NNNA	.	* in LMC	SK	1970S1	SANDULEAK N.	1970CoTol..89.....S	Author's name	
Sanduleak		N	6	T Tau * in Orion	NAME SAND T TAU	1971S2	SANDULEAK N.	1971PASP...83...95S	Author's name	
Sanduleak	*use Sand*	NNN	.	M *	SAND	1976S2	SANDULEAK N.	1976AJ.....81..350S	Author's name	
Sanduleak	*use Sand WR*	N	.	WR	NAME SAND WR	1971S5	SANDULEAK N.	1971ApJ...164L..71S	Author's name	
Sand WR		N	5	WR	NAME SAND WR	1971S5	SANDULEAK N.	1971ApJ...164L..71S	Author's name, WR *	(b)
SAO		NNNNNN	258997	*	SAO	1966S2	The SAO staff	.	Smithsonian Astrophysical Obs.	
SASpecial		FF	46	Area	-	1952V1 A 1952V1 B	VAN RHIJN P.J. VAN RHIJN P.J.	. .	Selected Area of the Special plan	(c)
SASpecial		FF-NNNNN	$\simeq$ 200000	* in Selected Area	-	1952V1 A 1952V1 B	VAN RHIJN P.J. VAN RHIJN P.J.	. .	Selected Area of the Special plan	(d)

(a) Sand = (S) = (Sanduleak)
(b) Sand WR = (Sand) = (Sanduleak)
(c) SASpecial = (SpA) = (SA)
(d) SASpecial = (SpA) = (SA)

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
SaSt1-		N	3	PN	PN SaSt 1-	.	SANDULEAK N.+	1972ApJ...178..183S	Authors' names, list 1	PK Nmcl *(a)*
SaSt2-		NN	23	PN	PN SaSt 2-	.	SANDULEAK N.+	1972PASP...84..816S	Authors' names, list 2	PK Nmcl *(b)*
SaSt3-		NNN	-	PN	PN SaSt 3-	.	SANDULEAK N.+	1973ApJ...185..899S	Authors' names, list 3	PN Nmcl *(c)*
SaSt 1-	*eq. SaSt1-*	N	3	PN	PN SaSt 1-	.	SANDULEAK N.+	1972ApJ...178..183S	Authors' names, list 1	
SaSt 2-	*eq. SaSt2-*	NN	23	PN	PN SaSt 2-	.	SANDULEAK N.+	1972PASP...84..816S	Authors' names, list 2	
SaSt 3-	*eq. SaSt3-*	NNN	.	PN	PN SaSt 3-	.	SANDULEAK N.+	1973ApJ...185..899S	Authors' names, list 3	
SaWe		N	4	PN	-	.	SAURER W.+	1987A&AS...69..527S	Authors' names	PN Nmcl
SAWI	*eq. ShWi 2-*	N	.	PN	-	.	SHAW R.A.+	1985PASP...97.1071S	Authors' names	
SB		NNN	737	SB	-	1967BA	BATTEN A.H.	1967PDAO...13..119B	Spectroscopic Binary	*(d)*
SB	*use SKB*	N	.	Carbon *	SKB	.	SLETTEBAK A.+	1969AJ.....74..373S	First author's name	
SB		NNN	957	* near SGP	SB	1971S3	SLETTEBAK A.+	1971AJ.....76..338S	Authors' initials	*(e)*
SB		N	6	WR	-	1975S1	STENHOLM B.	1975A&A....39..307S	Stenholm B.	*(f)*
[SB79]		NN	11	SNR in M 33	[SB79]	.	SABBADIN F.+	1979PASP...91...62S	Authors' initials, 1979	

(a) SaSt1- = SaSt 1-
(b) SaSt2- = SaSt 2-
(c) SaSt3- = SaSt 3-
(d) SB Superseded by Batten ref. 1978BF
(e) SB = (B)
(f) SB = (BS)

Acronym	Usage	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
SBC	*eq. Batten*	NNN	.	SB	SBC	1978BF	BATTEN A.H.+	1978PDAO...15..121B	Spectroscopic Binary, Catalog	
SBS		NN	84	Blue *	SBS	1961S1	SLETTEBAK A.+	1961ApJ...134..195S	Authors' initials	
SBS	*catalog: use SBSG*	HHMM+DDdA	.	QSO, Blue G	SBSG	1983M1+	MARKARIAN B.E.+	.	Second Biurakan obs., Survey	*(a)*
SBS	*catalog: use SBSS*	HHMM+DDd	.	Blue *	SBSS	1983M1 B+	MARKARIAN B.E.+	.	Second Biurakan obs., Survey	
SBSG		HHMM+DDdA	.	QSO, Blue G	SBSG	1983M1 A 1983M1 B 1983M1 D 1983M1 E 1983M1 F 1983M1 G	MARKARIAN B.E.+ MARKARIAN B.E.+ MARKARIAN B.E.+ MARKARIAN B.E.+ NELSON R.L.+ SEAL J.+	1983Afz....19...29M 1983Afz....19..639M 1984Afz....20..513M 1985Afz....23..439M 1988AJ.....95.1678N 1990AJ....100.1028S	Second Biurakan obs. Survey, G	
SBSS		HHMM+DDd	.	Blue *	SBSS	1983M1 B 1983M1 C 1983M1 D 1983M1 E 1983M1 F 1983M1 G	MARKARIAN B.E.+ MARKARIAN B.E.+ MARKARIAN B.E.+ MARKARIAN B.E.+ NELSON R.L.+ SEAL J.+	1983Afz....19..639M 1984Afz....20...21M 1984Afz....20..513M 1985Afz....23..439M 1988AJ.....95.1678N 1990AJ....100.1028S	Second Biurakan obs. Survey, *	
SBSSS	*catalog: use SBSG*	HHMM+DDdA	.	QSO, Blue G	SBSG	1983M1+	MARKARIAN B.E.+	.	Second Biurakan obs., Spectral Sky Survey	
SBSSS	*catalog: use SBSS*	HHMM+DDd	.	Blue *	SBSS	1983M1 B+	MARKARIAN B.E.+	.	Second Biurakan obs., Spectral Sky Survey	
SC	*use LuCG*	HHMM+DDd	.	Cluster of G identified with (X)	SC	1978L1	LUGGER P.M.	1978ApJ...221..745L	Southern Cluster	
SC	*use WSCG*	NN	.	SuperCl of G	WSCG	1989W2	WEST M.J.	1989ApJ...347..610W	Super Cluster	

(a) SBS Ref 1983M1: The results of the survey in successive papers are given in separate tables for "peculiar objects or galaxies" (Table 1), and "blue stars" (Tables 2) with the same acronym SBS.
The format is not sufficient to discriminate the objects (e.g. SBS 1210+537 in 1983M1 E is present twice for two differents tables), so that we urge to use respectively SBSS (S for Star) and SBSG (G for Galaxy).

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
SC	*use [ZZS93]*	NN NN/2 NN/10 NN/20 NN/40 NN/200	.	SuperCl of ACO Cl	`[ZZS93]`	.	ZUCCA E.+	`1993ApJ...407..470Z`	Super Cluster	
[SC93]		NNN	602	(UV)	`[SC93]`	.	SCHMIDT E.G.+	`1993ApJ...408..484S`	Schmidt + Carruthers, 1993	
SCAP		LLL-BBNNN	487	*	`SCAP`	.	REICHEN M.+	`1990Ap&SS.163..275R`	SCAP-2000 balloon experiment	*(a)*
SCC		NNN	102	SuperCl of ACO Cl	-	.	BATUSKI D.J.+	`1985AJ.....90.1413B`	SuperCluster Candidate	*(b)*
SCGG	*use SHCG*	NNN	.	Cluster of G	`p SHCG`	`1973S4+`	SHAKHBAZIAN R.K.	.	Shakhbazian, Compact Group of G	
Schaefer		YYYY	3	Optical Transient	`NAME SCHAEFER`	`1984S2`	SCHAEFER B.E.+	`1984ApJ...286...L1S`	Discoverer's name	*(c)*
Schulte		N	2	OB *	-	`1956S1`	SCHULTE D.H.	`1956ApJ...123..250S`	Author's name	
Schuster		-	1	OCl	NAME SCHUSTER CL	.	-	.	Author's name	= C 1002-556
Schuster-West		-	1	OCl	NAME SCHUSTER-WEST CL		-	.	Authors' names	= C 0149-447
SchuWe-		N	3	Poss. PN + 1PN	`PN SuWt`	. .	SCHUSTER M.E.+ WEST R.M.+	`1976A&A....46..139S` `1980A&A....88..350W`	Authors' names	PN Nmcl *(d)*
SCHWE	*eq. SchuWe-*	N	.	Poss. PN + PN	`PN SuWt`	. .	SCHUSTER M.E.+ WEST R.M.+	`1976A&A....46..139S` `1980A&A....88..350W`	Authors' names	
ScWe	*eq. SchuWe-*	N	.	Poss. PN + PN	`PN SuWt`	. .	SCHUSTER M.E.+ WEST R.M.+	`1976A&A....46..139S` `1980A&A....88..350W`	Authors' names	

(a) SCAP = (SP)
In the format LLL-BB is the field center (in this paper: 025-02), NNN the individual star number.
(b) SCC = (BB)
(c) Schaefer YYYY are 1901, 1928 and 1944
(d) SchuWe- = SCHWE = ScWe = SuWt

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
SD	*use BD*	-DD NNNNN	.	*	BD	1886A1 A	SCHONFELD E.	.	Sudliche Bonner Durchmusterung	
Sd	*eq. She-*	N	.	PN	PN Sd	.	SHERWOOD W.A.	1969Obs....89..207S	Author's name	
SDG		NNN	286	G	p SDG	.	SCHNEIDER D.P.+	1986AJ.....92..523S	Authors' initials	*(a)*
SEG		NN	83	*	-	1969S1	SOFIA S.+	1969AJ.....74...20S	Authors' initials	
SER		FFF-NNN	186	Cluster of G + G	SER	1974S1	SERSIC J.L.	1974Ap&SS..28..365S	Author's name	*(b)*
Sersic	*eq. SER*	FFF-NNN	.	Cluster of G + G	SER	1974S1	SERSIC J.L.	1974Ap&SS..28..365S	Author's name	
Sersic Cluster		-	1	Probable GCl	NAME SERSIC CL	.	-	.	Author's name, Cluster	= C 0435-589
SFAM		NNN	213	(Rad) in ρ Oph DCld	-	.	STINE P.C.+	1988AJ.....96.1394S	Authors' initials	
SG	*use Simeis*	NNN	.	H II	SIM	1950S1+	SHAJN G.A.+	.	Authors' initials	
SGPA		NNN	305	A * at SGP	SGPA	1988L3 A 1988L3 B	LANCE C.M. LANCE C.M.	1988ApJS...68..463L 1988ApJ...334..927L	South Gal. Pole, A *	
SGS-LMC		N	9	H II Super-shell in LMC	LMC-SGS	1980M2	MEABURN J.	1980MNRAS.192..365M	SuperGiant Shell, LMC	*(c)*
SGS-SMC		N	1	H II Super-shell in SMC	NAME SMC-SGS	1980M2	MEABURN J.	1980MNRAS.192..365M	SuperGiant Shell, SMC	*(d)*

(a) SDG G in Cluster of G
(b) SER = CALAN = Sersic
(c) SGS-LMC = (LMC) = LMC-SGS
Often the format is R; for instance Butler 1972, Dunsink Obs. Publ. 1, 133-192; Martin W.L. 1977, Mem. Roy. Astron. Soc. 83, 95 ; the fields from different authors are different. LMC is also used for photometric sequences.
(d) SGS-SMC = (SMC) = SMC-SGS

Acronym	Usage	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
[SGW92]		NNNN	1312	HVC	-	.	STARK A.A.+	1992ApJS...79...77S	Three first authors' initials, 1992	
SH	*use Simeis*	NNN	.	H II	SIM	1950S1+	SHAJN G.A.+	.	First author's name	
SH	*use Sh1-*	NNN	.	H II + RFN + PN	SH 1-	1953S1	SHARPLESS S.	1953ApJ...118..362S	Author's name	
SH	*eq. Sh2-*	NNN	.	H II + PN	SH 2-	1959S3	SHARPLESS S.	1959ApJS....4..257S	Author's name	
Sh	*use Simeis*	NNN	.	H II	SIM	1950S1+	SHAJN G.A.+	.	First author's name	
Sh	*use Sh1-*	NNN	.	H II + RFN + PN	SH 1-	1953S1	SHARPLESS S.	1953ApJ...118..362S	Author's name	
Sh	*eq. Sh2-*	NNN	.	H II + PN	SH 2-	1959S3	SHARPLESS S.	1959ApJS....4..257S	Author's name	
Sh1-		NNN	142	H II + RFN + PN	SH 1-	1953S1	SHARPLESS S.	1953ApJ...118..362S	Author's name, list 1	*(a)*
Sh2-		NNN	313	H II + PN	SH 2-	1959S3	SHARPLESS S.	1959ApJS....4..257S	Author's name, list 2	*(b)*
SH 1-	*eq. Sh1-*	NNN	.	H II + RFN + PN	SH 1-	1953S1	SHARPLESS S.	1953ApJ...118..362S	Author's name, list 1	
SH 2-	*eq. Sh2-*	NNN	.	H II + PN	SH 2-	1959S3	SHARPLESS S.	1959ApJS....4..257S	Author's name, list 2	
SHA	*use Sh1-*	NNN	.	H II + RFN + PN	SH 1-	1953S1	SHARPLESS S.	1953ApJ...118..362S	Author's name, list A	

(a) Sh1- = (SH) = SH 1- = (SHA) = (Sh)
Not used, Superseded by Sh2- for H II ; Nos 3, 5, 6, 15, 72, 89, 118 are compiled as PN, see ref. 1967PK F

(b) Sh2- = (S) = (SH) = (Sh) = SH 2- = (SHB)
S 147, a wellknown galactic SNR, should be labelled Simeis 147.
S instead of Sh2- (H II region, Sharpless, ref. 1959S3) is of current use except in eastern Europa where it generally stands for Simeis (H II region, Shajn+Gaze, ref. 1950S1).
Nos 4, 6, 20, 52, 61, 71, 95, 116, 167, 176, 179, 189, 267, 274, 290, 313 are PN ; see ref. 1967PK ; Nos 80, 99, 128, 207, 266, 267, 271, 272, though compiled as PN, are H II regions

Acronym	Usage	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
SHA-		.		QSO	-	.	SMITH-HAENNI A.L.	.	Smith-Haenni, list A	*(a)*
Shah	*use Shakhbazian*	R	.	Cluster of G	Cl Sahlbajan	1957S1	SHAKHBAZIAN R.K.	1957AciCh.177...11S	Author's name	
Shakhbazian		R	1	Cluster of G	Cl Sahlbajan	1957S1	SHAKHBAZIAN R.K.	1957AciCh.177...11S	Author's name	= SHCG 1 *(b)*
Shakhbazian	*use SHCG*	NNN	.	Cluster of G	p SHCG	1973S4+	SHAKHBAZIAN R.K.	.	Shakhbazian, Cluster of G	
SHAPLEY	*eq. Shapley*	R	.	RSF in MC	NAME SHAPLEY	1953M1+	McKIBBEN NAIL V.+	.	Discoverer's name	
Shapley		R	9	RSF in MC	NAME SHAPLEY	1953M1 A 1953M1 B	McKIBBEN NAIL V.+ VAN DEN BERGH S.	1953PNAS...39..358M 1981A&AS...46...79V	Discoverer's name	*(c)*
SHB	*use Sh2-*	NNN	.	H II + PN	SH 2-	1959S3	SHARPLESS S.	1959ApJS....4..257S	Author's name, list B	
SHB-		NNN	403	QSO	-	1977S1	SMITH-HAENNI A.L.	1977A&AS...27..205S	Smith-Haenni, list B	
SHCG		NNN	377	Cluster of G	p SHCG	1973S4 A 1973S4 B 1973S4 C 1973S4 D 1973S4 E 1973S4 F 1973S4 G 1973S4 H 1973S4 I 1973S4 J	SHAKHBAZIAN R.K. SHAKHBAZIAN R.K.+ BAIER F.W.+ PETROSIAN M.B. BAIER F.W.+ BAIER F.W.+ BAIER F.W.+ BAIER F.W.+ PETROSIAN M.B. BAIER F.W.+	1973Ap......9..296S 1974Ap.....10....6S 1974Ap.....10..202B 1974Ap.....10..291P 1975Ap.....11..146B 1976Ap.....12....1B 1976Ap.....12..263B 1978Ap.....14..157B 1978Ap.....14..356P 1979Ap.....15...24B	Shakhbazian, Cluster of G	*(d)*
She-		N	1	PN	PN Sd	.	SHERWOOD W.A.	1969Obs....89..207S	Author's name	*(e)*

(a) SHA- Quoted in SHB- without any ref.
(b) Shakhbazian = Sahbazjan = Sahlbajan = (Shah)
(c) Shapley = SHAPLEY
The large structure of the LMC is studied from the distribution of the supergiants in Martin+ 1976Astr. Astrophys. 51, 31
Their region 30 Dor W is Shapley II, their region A2 includes Shapley V, B1 = Shapley VI, B2 includes Shapley VII, B'2 = Shapley VIII, B3 = Shapley IX. There are no Shapley numbers for their regions A1, D1, D2, D3.
(d) SHCG = SCGG = (Shakhbazian) = (Shk) = (Shkh)
(e) She- = Sd
She-1 = PN G078.9+00.7 = PK 078+00 1

Acronym	Usage	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
Sher		N	1	OCl	Cl Sher	1964S1	SHER D.	1964Obs....84..263S	Author's name	= C 1058-601
Shk	*use SHCG*	NNN	.	Cluster of G	p SHCG	1973S4+	SHAKHBAZIAN R.K.	.	Shakhbazian	
Shkh	*use SHCG*	NNN	.	Cluster of G	p SHCG	1973S4+	SHAKHBAZIAN R.K.	.	Shakhbazian	
SHV		. HHMMSSs-DDMMSS	1043	LPV in LMC	SHV	1989H1	HUGHES S.M.G.	1989AJ.....97.1634H	S. Hughes, Variable *	
ShWi 2-		N	7	PN + Poss. PN	-	.	SHAW R.A.+	1985PASP...97.1071S	Authors' names	PN Nmcl *(a)*
SHZ	*use Simeis*	NNN	.	H II	SIM	1950S1+	SHAJN G.A.+	.	Authors' names	
Si	*use Simeis*	NNN	.	H II	SIM	1950S1+	SHAJN G.A.+	.	Simeis obs.	
Si	*use Simeis*	HHMM+DD.N	.	(Rad)	SIM	1971L1	LARIONOV M.G.+	1971ATsir.665....1L	Simeis obs.	
SIM	*eq. Simeis*	NNN	.	H II	SIM	1950S1+	SHAJN G.A.+	.	Simeis obs.	
SIM	*eq. Simeis*	HHMM+DD.N	.	(Rad)	SIM	1971L1	LARIONOV M.G.+	1971ATsir.665....1L	Simeis obs.	
Simeis		NNN	306	H II	SIM	1950S1 A 1950S1 B 1950S1 C 1950S1 D 1950S1 E	SHAJN G.A.+ GAZE V.F.+ GAZE V.F.+ GAZE V.F.+ GAZE V.F.+	1950IzKry...6....3S 1951IzKry...7...93G 1952IzKry...8...17G 1952IzKry...9...52G 1954IzKry..11...39G	Simeis obs.	*(b)*
Simeis		HHMM+DD.N	121	(Rad)	SIM	1971L1	LARIONOV M.G.+	1971ATsir.665....1L	Simeis obs.	*(c)*
Simeiz	*eq. Simeis*	NNN	.	H II	SIM	1950S1+	SHAJN G.A.+	.	Simeis obs.	
Simeiz	*eq. Simeis*	HHMM+DD.N	.	(Rad)	SIM	1971L1	LARIONOV M.G.+	1971ATsir.665....1L	Simeis obs.	

(a) ShWi 2- = SAWI
No. 3 is rejected as a PN in ref. 1992AO

(b) Simeis = (S) = (SG) = (SH) = (Sh) = (SHZ) = (Si) = SIM = (Simeiz)
S 147, a wellknown galactic SNR, should be labelled Simeis 147.
S instead of Sh2- (H II region, Sharpless, ref. 1959S3) is of current use except in eastern Europa where it generally stands for Simeis (H II region, Shajn+Gaze, ref. 1950S1).
Simeis 22 is a PN = PN G128.0-04.1 = PK 128-04 1

(c) Simeis = (S) = (Si) = SIM = Simeiz

Acronym	Usage	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
Siv		NN	11	H II	-	1974S3	SIVAN J.P.	1974A&AS...16..163S	Author's name	
SK	*eq. Sk*	NNN	.	* in SMC	SK	1968S1+	SANDULEAK N.	.	Author's name	
SK	*eq. Sk*	-DD NNNA	.	* in LMC	SK	1970S1	SANDULEAK N.	1970CoTol..89.....S	Author's name	
Sk		NNN	216	* in SMC	SK	1968S1 A 1968S1 B	SANDULEAK N. SANDULEAK N.	1968AJ.....73..246S 1969AJ.....74..877S	Author's name	*(a)*
Sk		-DD NNNA (NNN-DD) (-DD/NNN)	1272	* in LMC	SK	1970S1	SANDULEAK N.	1970CoTol..89.....S	Author's name	*(b)*
Sk	*use SkKM*	NNN	.	K,M * in SMC	SkKM	1989S1	SANDULEAK N.	1989AJ.....98..825S	Sanduleak	
SKB		N	.	Carbon *	SKB	.	SLETTEBAK A.+	1969AJ.....74..373S	Authors' initials	*(c)*
SKHB		NNN	355	GCl in M 31	SKHB	.	SARGENT W.L.W.+	1977AJ.....82..947S	Authors' initials	*(d)*
SKK		N	1	(Rad)	-	1974S2	SISTLA G.+	1974MNRAS.166P..17S	Authors' initials	
SKKM	*eq. SkKM*	NNN	.	K,M * in SMC	SkKM	1989S1	SANDULEAK N.	1989AJ.....98..825S	Sanduleak, K or M *	
SkKM		NNN	372	K,M * in SMC	SkKM	1989S1	SANDULEAK N.	1989AJ.....98..825S	Sanduleak, K or M *	*(e)*
SKWL1-	*use StWr1-*	N	.	PN	PN StWr 1-	1972S2	STOCK J.+	1972PDAUC...2...59S	Authors' names, table 1	

(a) Sk = (S) = SK = (Sanduleak)
(b) Sk = (NS) = (S) = (Sa) = SK = (Sanduleak)
Ref. 1970S1 (in LMC): The format NNN-DD is contrary to the general practice nomenclature, based on δ zones ; It had been first introduced to make a clear discrimination from CPD then constantly used.
(c) SKB = (SB)
(d) SKHB = (G) = (M31C)
(e) SkKM = (Sk) = SKKM

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
SKWL2-	*use StWr2-*	NN	.	PN	PN StWr 2-	1972S2	STOCK J.+	1972PDAUC...2...59S	Authors' names, table 2	
SKWL3-	*use StWr3-*	N	.	PN	PN StWr 3-	1972S2	STOCK J.+	1972PDAUC...2...59S	Authors' names, table 3	
SKWL4-	*use StWr4-*	NN	.	PN	PN StWr 4-	1972S2	STOCK J.+	1972PDAUC...2...59S	Authors' names, table 4	
SKWL 1-	*use StWr1-*	N	.	PN	PN StWr 1-	1972S2	STOCK J.+	1972PDAUC...2...59S	Authors' names, table 1	
SKWL 2-	*use StWr2-*	NN	.	PN	PN StWr 2-	1972S2	STOCK J.+	1972PDAUC...2...59S	Authors' names, table 2	
SKWL 3-	*use StWr3-*	N	.	PN	PN StWr 3-	1972S2	STOCK J.+	1972PDAUC...2...59S	Authors' names, table 3	
SKWL 4-	*use StWr4-*	NN	.	PN	PN StWr 4-	1972S2	STOCK J.+	1972PDAUC...2...59S	Authors' names, table 4	
SL		NNN	898	OCl in LMC	p SL	1963S1	SHAPLEY H.+	1963IrAJ....6...74S	Authors' initials	
SL		NNN	137	DCld	p Sandqvist	1976S1 A 1976S1 B	SANDQVIST Aa.+ SANDQVIST Aa.	1976A&A....53..179S 1977A&A....57..467S	Authors' initials	*(a)*
SLS	*use LS*	NNNN	.	Southern OB *	LS	1971S4	STEPHENSON C.B.+	1971PW&SO...1....1S	Southern Luminous *	
SLSBG		NNN	300	G in ACO 3574	SLSBG	.	TURNER J.A.+	1993MNRAS.261...39T	Shapley Low Surface Brightness Galaxy	
Sm	*eq. Ste-*	N	.	PN	PN Ste	1975S1	STENHOLM B.	1975A&A....39..307S	Author's name	

(a) SL = (Sa) = Sandqvist

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
SMC	*use SGS-SMC*	N	.	H II Super-shell in SMC	`NAME SMC-SGS`	`1980M2`	MEABURN J.	`1980MNRAS.192..365M`	Small Magellanic Cloud	
SMC		N	1	PN in LMC	`NAME SMC 1`	.	SAVAGE A.+	`1982Obs...102..229S`	Authors' initials	*(a)*
SMC		N	3	* in SMC	NAME SMC Symb. star	.	MORGAN D.H.	`1992MNRAS.258..639M`	Small Magellanic Cloud	Identif. charts *(b)*
SMC AB		N	8	WR in SMC	-	`1979A3`	AZZOPARDI M.+	`1979A&A....75..120A`	SMC, Authors' initials	*(c)*
SMC AGB1-		N	7	Red * in SMC	`[RM90] 1-`	`1990R2`	REID N.+	`1990ApJ...360..490R`	SMC, Asymptotic Giant Branch, field 1	*(d)*
SMC AGB2-		NN	20	Red * in SMC	`[RM90] 2-`	`1990R2`	REID N.+	`1990ApJ...360..490R`	SMC, Asymptotic Giant Branch, field 2	*(e)*
SMC AGB3-		NN	18	Red * in SMC	`[RM90] 3-`	`1990R2`	REID N.+	`1990ApJ...360..490R`	SMC, Asymptotic Giant Branch, field 3	*(f)*
SMC ARM		NN	92	Superg. in SMC	-	`1977A4`	ARDEBERG A.+	`1977A&AS...30..261A`	SMC, Authors' names	*(g)*
SMC ASS		NN	70	Ass. in SMC	`p SMC ASS`	`1985H1`	HODGE P.	`1985PASP...97..530H`	SMC, Association	
SMC-B		NN	83	Carbon and Late * in SMC	`BMB-B`	`1980B1 A`	BLANCO V.M.+	`1980ApJ...242..938B`	SMC, Bar	*(h)*

(a) SMC SMC 1 = SMP1-104A = LMC SMP 104a (ref. 1978S2 C)
(b) SMC = Mn
(c) SMC AB = (AB) = ABWR
(d) SMC AGB1- = (RM1-) = [RM90] 1-
(e) SMC AGB2- = (RM2-) = [RM90] 2-
(f) SMC AGB3- = (RM3-) = [RM90] 3-
(g) SMC ARM = (ARM) = (ARMA)
(h) SMC-B = BMB-B

Acronym	Usage	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
SMC-DEM	*eq. DEM S*	NNN	.	H II in SMC	DEM S	1976D1 B	MEABURN J.	1986MNRAS.223..317M	Authors' initials, SMC	
SMC MVDWR	*eq. MVD*	N	.	WR in SMC	NAME SMC MVDWR	1991M1	MORGAN D.H.+	1991MNRAS.251..P51M	SMC, Authors' initials, WR *	
SMC OB		NN	31	OB Ass. in SMC	-	1991B2	BATTINELLI P.	1991A&A...244...69B	SMC, OB ass.	
SMC-SGS	*eq. SGS-SMC*	N	.	H II Supershell in SMC	NAME SMC-SGS	1980M2	MEABURN J.	1980MNRAS.192..365M	SMC, SuperGiant Shell	
SMC SMP	*use SMP2-*	NN	.	PN in SMC	p SMP 2-	1978S2+	SANDULEAK N.+	.	SMC, Authors' initials	
SMC-W		NN	56	Carbon and Late * in SMC	BMB-W	1980B1 A	BLANCO V.M.+	1980ApJ...242..938B	SMC, Wing	*(a)*
SMC X-		N	.	(X) in SMC	X SMC X-	.	-	.	SMC, X-ray source	*(b)*
Smith	*eq. LSWR*	NN	.	WR (1PN)	LSWR	1968S2	SMITH L.F.	1968MNRAS.138..109S	Author's name	
SMP	*use SMP1-*	NNNA	.	PN in LMC	p SMP 1-	1978S2 A 1978S2 C+	SANDULEAK N.+ SANDULEAK N.	1978PASP...90..621S .	Authors' initials	
SMP	*use SMP2-*	NN	.	PN in SMC	p SMP 2-	1978S2+	SANDULEAK N.+	.	Authors' initials	
SMP1-		NNNA	128	PN in LMC	p SMP 1-	1978S2 A 1978S2 C 1978S2 D	SANDULEAK N.+ SANDULEAK N. MORGAN D.H.	1978PASP...90..621S 1984IAUS..108..231S 1984MNRAS.208..633M	Authors' initials, Table 1	*(c)*

(a) SMC-W = BMB-W
(b) SMC X- See also the complete X-ray survey of SMC by Seward+ 1981, ApJ 243, 736-743, the deeper surveys IKT (ref. 1983I1), BKGS (ref. 1987B3), WW (ref. 1992W1)
Optical counterparts of extended X-ray sources, Mathewson+ (ref. 1983M3 A,B).
(c) SMP1- = LMC SMP = (SMP) = SMP 1- = (Sa)
Table 1 in 1978S2 A, continued in 1978S2 C. (Nos 1-127) and one additional object No. 104A. sometimes quoted as LMC 1

Acronym	Usage	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
SMP2-		NN	34	PN in SMC	`p SMP 2-`	1978S2 A 1978S2 B 1978S2 D	SANDULEAK N.+ SANDULEAK N.+ MORGAN D.H.	1978PASP...90..621S 1981PASP...93..431S 1984MNRAS.208..633M	Authors' initials, Table 2	*(a)*
SMP 1-	*eq. SMP1-*	NNNA	.	PN in LMC	`p SMP 1-`	1978S2 A 1978S2 C+	SANDULEAK N.+ SANDULEAK N.	1978PASP...90..621S .	Authors' initials, Table 1	
SMP 2-	*eq. SMP2-*	NN	.	PN in SMC	`p SMP 2-`	1978S2+	SANDULEAK N.+	.	Authors' initials, Table 2	
SMS		N	3	(Submm) in W 3 (Main)	`NAME W 3 SMS`	.	LADD E.F.+	1993ApJ...419..186L	SubMillimeter Source	
SMSP		NN	13	WR	`SMSP`	1991S1	SHARA M.M.+	1991AJ....102..716S	Authors' initials	
SN		YYYYA YYYYaa	661	SN	`SN`	1974SS 1984BC 1989BC	SARGENT W.L.W.+ BARBON R.+ BARBON R.+	. 1984A&AS...58..735B 1989A&AS...81..421B	Supernova	See V * Nmcl *(b)*
SN	*use KMS*	NNN	.	(IR) in LDN 1641	`KMS`	1989S2	STROM K.M.+	1989ApJS...71..183S	Two first authors' initials	
Sn		N	1	PN	`NAME Sn 1`	.	SHANE	.	Shane	1964 *(c)*
S.N.	*eq. SN*	YYYYA YYYYaa	.	SN	`SN`	1974SS 1984BC 1989BC	SARGENT W.L.W.+ BARBON R.+ BARBON R.+	. 1984A&AS...58..735B 1989A&AS...81..421B	Supernova	
SNOW		NN	34	Cluster of G	`-`	1970S2	SNOW T.P.Jr	1970AJ.....75..237S	Author's name	
SNR		HHMM-DDd	39+7	SNR + Poss. SNR in MC	`SNR`	1983M3 A 1983M3 B 1983M3 C	MATHEWSON D.S.+ MATHEWSON D.S.+ MATHEWSON D.S.+	1983ApJS...51..345M 1984ApJS...55..189M 1985ApJS...58..197M	SuperNova Remnant	

(a) SMP2- = SMC SMP = (SMP) = SMP 2- = (SP)
Table 2 in 1978S2 A, continued in 1978S2 B.
(b) SN = (AD) = (A.D.) = S.N. = Supernova
(c) Sn Sn 1 = PN G013.3+32.7 = PK 013+32 1

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
SNR		LLL.ℓ+BB.b	157	Gal. SNR	SNR	1984GR 1988GR A 1988GR B	GREEN D.A. GREEN D.A. ARENDT R.G.	1984MNRAS.209..449G 1988Ap&SS.148....3G 1989ApJS...70..181A	SuperNova Remnant	
SNR		HHMM-DDd	40	SNR in MC or Poss. SNR in LMC	SNR	1984M1	MILLS B.Y.+	1984AuJPh..37..321M	SuperNova Remnant	
SNR		HHMMSS+DDMMm	42	SNR or Poss. SNR in M 33	-	1990L1	LONG K.S.+	1990ApJS...72...61L	SuperNova Remnant	*(a)*
SON	*eq. Son*	NNNNN	.	V *	SV* SON	.	-	.	Sonneberg inst.	
Son		NNNNN	>10447	V *	SV* SON	.	-	.	Sonneberg inst.	V * Nmcl *(b)*
SOPS		R a-NNN	≃ 3400	(Opt)	SOPS	1972S2	STOCK J.+	1972PDAUC...2...59S	Southern Objective Prism Survey	*(c)*
SP		-	-	HVC	-	1968H1 A	HULSBOSCH A.N.M.	1968BAN....20...33H	South Pole complex	
SP	*use SP77*	FF-NNa	.	Red * in LMC	p SP77	1977S3	SANDULEAK N.+	.	Authors' initials, 1977	
SP	*use SMP2-*	NN	.	PN in SMC	p SMP 2-	1978S2 B	SANDULEAK N.	1981PASP...93..431S	Authors' initials	
SP	*use SCAP*	LLL-BBNNN	.	*	SCAP	.	REICHEN M.+	1990Ap&SS.163..275R	SCAP-2000 balloon experiment	
Sp		N	5	PN	PN Sp	.	SHAPLEY H.	1936BHarO.902...26S	Author's name	PN Nmcl

(a) SNR SNR in M 33 (ref. 1990L1) format HHMMSS+DDMMm: rounded coordinates
(b) Son = (S) = SON
(c) SOPS = (STO)
The authors proposed no acronyms for the objects of 30 Tables. These objects have been later quoted under different acronyms, even IIc (or similar), from the Table numbering

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
Sp1-	*Sa1-*	N	1	PN	PN Sa 1-	1974S5	SANDULEAK N.	1974PASP...86..215S	Observer: Stephenson, list 1	Sp1-1 = Sa1-1 = PK 284-05 1 is rejected as a PN in ref. 1992AO
SP77		FF-NNa	609	Red * in LMC	p SP77	1977S3	SANDULEAK N.+	.	Authors' initials, 1977	*(a)*
SP82		NN	55	Em. G	p SP82	1982S2	SANDULEAK N.+	1982ApJ...258L..11S	Authors' initials, 1982	
SpA	*use SASpecial*	FF	.	Area	-	1952V1+	VAN RHIJN P.J.	.	Special Area	
SpA	*use SASpecial*	FF-NNNNN	.	* in Selected Area	-	1952V1+	VAN RHIJN P.J.	.	Special Area	
SPF3		NNN	671	*	-	1974L1	LOYOLA P.R.+	1974PDAUC...2..159L	Santiago Pulkovo obs., Fundamental catalog, 3rd	
SPH		NNN	160	Em. Obj.	SPH	1990S1	SCHWARTZ R.D.+	1990AJ....100..793S	Authors' initials	
[SPW92]		R NN	170	*	-	.	SAURER W.+	1992A&AS...93..553S	Three first authors' initials, 1992	*(b)*
SPZ	*eq. SVS*	NNNN	.	V *	SV* SVS	1992K2	KAZAROVETS E.V.+	1992IBVS.3743....1K	Sovetskaya Peremennaya Zvezda	
SR		NN	26	Em. * in Oph & Sco DCld	EM* SR	1949S1	STRUVE O.+	1949ApJ...109...92S	Authors' initials	
SR		NNNN	>1002	* Ring	-	1968I1 A 1968I1 B 1968I1 C	ISSERSTEDT J. URANOVA T.A. URANOVA T.A.	1968VeBoc...1....1I 1973ACiCh.772....4U 1973ACiCh.773....3U	Sternringe (Stellar Ring)	
SR	*use SRCG*	HHMM.m+DDMM	.	Cluster of G	-	1991S2	STRUBLE M.F.+	1991ApJ...374..395S	Authors' initials	

(a) SP77 = (SP) = (WS)
(b) [SPW92] Format: R NN where R is a roman num. (I to IV) for field number. Finding charts.

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
SRCG		HHMM.m+DDMM	23	Cluster of G	-	1991S2	STRUBLE M.F.+	1991ApJ...374..395S	Authors' initials, Cluster of G	No explicit format *(a)*
SRN	*use VdB*	NNNa	.	∗ in RFN	VDB	1966V1+	VAN DEN BERGH S.	.	Star in Reflection Nebula	
SRN	*use VdBH*	NNa	.	∗ in RFN	VDBH	1975V1+	VAN DEN BERGH S.+	.	Star in Reflection Nebula	
SRNH	*use VdBH*	NNa NNa'	.	∗ in RFN	VDBH	1975V1 B	HERBST W.	1975AJ.....80..212H	Star in Reflection Nebula, Herbst	
SRS		NNNNN	24900	Position ∗	SRS	1976H3	HOG E.+	1976AAHam...9....1H	Southern Reference ∗	
SRWW		N	1	Poss. PN	-	.	SCARROTT S.M.+	1990MNRAS.245..484S	Four first authors' initials	PN Nmcl
SS	*use SS I*	NNN	.	∗ near NGP	p SS I	1959S1	SLETTEBAK A.+	1959AAHam...5..105S	Authors' initials	
SS	*use SS II*	NNN	.	∗ near NGP	p SS II	1959S1	SLETTEBAK A.+	1959AAHam...5..105S	Authors' initials	
SS	*use SS73-*	NNN	.	Em. Obj.	SS73	1973S2	SANDULEAK N.+	1973ApJ...185..899S	Authors' initials	*(b)*
SS	*eq. SS77-*	NNN	.	Em. ∗	SS	1977S2	STEPHENSON C.B.+	1977ApJS...33..459S	Authors' initials	*(c)*
SS	*use LS*	NNNN	.	Southern OB ∗	LS	1971S4	STEPHENSON C.B.+	1971PW&SO...1....1S	Authors' initials	
S-S		NN	74	H II	-	1962S1	STRUVE O.+	1962PASP...74..474S	Authors' initials	
SS73-		NNN	179	Em. Obj.	SS73	1973S2	SANDULEAK N.+	1973ApJ...185..899S	Authors' initials, 1973	*(d)*

(a) SRCG = (SR) = (Struble)
(b) SS Ref. 1973S2: the acronym SS, usual for the famous SS 433 = SS77-433 from ref. 1977S2, should be used only for ref. 1977S2, never more for ref. 1973S2
(c) SS Ref. 1977S2: the acronym SS, usual for the famous SS 433 = SS77-433 from ref. 1977S2, should be used only for ref. 1977S2, never more for ref. 1973S2
(d) SS73- = (SS)
The acronym SS, usual for the famous SS 433 = SS77-433 from ref. 1977S2, should be used only for ref. 1977S2, never more for ref. 1973S2

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
SS77-		NNN	455	Em. *	SS	1977S2	STEPHENSON C.B.+	1977ApJS...33..459S	Authors' initials, 1977	*(a)*
SS I		NNN	365	* near NGP	p SS I	1959S1	SLETTEBAK A.+	1959AAHam...5..105S	Authors' initials, list I	*(b)*
SS II		NNN	236	* near NGP	p SS II	1959S1	SLETTEBAK A.+	1959AAHam...5..105S	Authors' initials, list II	*(c)*
SSA		FF-NN	100	G	p SSA	1991L1	LILLY S.J.+	1991ApJ...369...79L	Small Selected Area	
[SSB92]		NNN	136	V * in SMC	[SSB92]	.	SMITH H.A.+	1992AJ....104.1430S	Three first authors' initials, 1992	
SSC		FF-NNNN	2550	*	-	1951E1	ELVIUS T.	.	Stockholm obs., Spectral Catalog	
SSC	*catalog: use IRAS*	HHMMm+DDMMA	.	(IR)	IRAS	1985IR C	KLEINMANN S.G.+	.	Serendipitous Survey Catalog	
SSRS	*catalog: use MDCG*	NN	.	Group of G	-	. 1989M1	DA COSTA L.N.+ MAIA M.A.G.+	1988ApJ...327..544D 1989ApJS...69..809M	Southern Sky Redshift Survey	
SSS	*catalog: use IRAS*	HHMMm+DDMMA	.	(IR)	IRAS	1985IR D	HELOU G.+	.	Small Scale Structure	
SSSC	*catalog: use IRAS*	HHMMm+DDMMA	.	(IR)	IRAS	1985IR D	HELOU G.+	.	Small Scale Structure Catalog	
SSV		NN	70	(IR) in LDN 1630	SSV	1976S5	STROM K.M.+	1976AJ.....81..308S	Authors' initials	*(d)*
SSV	*use STSV1-*	N	.	(IR) in LDN 1551	-	1976S8	STROM K.M.+	1976AJ.....81..320S	Authors' initials	
SSV	*use STSV2-*	NN	.	(IR) in LDN 1517	-	1976S8	STROM K.M.+	1976AJ.....81..320S	Authors' initials	
[ST92]		N-NNN	306	* in 30 Dor	[ST92]	1990T1 B	SCHILD H.+	1992A&AS...92..729S	Authors' initials, 1992	

(a) SS77- = (SS)
The acronym SS, usual for the famous SS 433 = SS77-433 from ref. 1977S2, should be used only for ref. 1977S2, never more for ref. 1973S2
(b) SS I = (SS)
(c) SS II = (SS)
(d) SSV See the remark for VSSG

Acronym	Usage	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
St		N	5	WR	NAME ST	1966S1	STEPHENSON C.N.	1966AJ.....71..477S	Stephenson	
St	*use Stock*	N	.	OCl	Cl Stock	1956S2	STOCK J.	1956ApJ...123..258S	Author's name	
St	*use Stephenson*	N	.	OCl	Cl Stephenson	1959S2	STEPHENSON C.B.	1959PASP...71..145S	Author's name	
St	*use Str*	NN	.	H II	-	1950S2	STROHMEIER W.	1950ZA.....27...49S	Strohmeier	
St1-	*use Sa1-*	N	1	PN	PN Sa 1-	1974S5	SANDULEAK N.	1974PASP...86..215S	Observer: Stephenson, list 1	St1-1 = Sa1-1 = PK 284-05 1 is rejected as a PN in ref. 1992AO
St2-	*use Sa3-*	NNN	5	PN	PN Sa 3-	1967PK E	SANDULEAK N.	1976PW&SO....3...2S	Observer: Stephenson, list 2	*(a)*
St3-		N	1	PN	PN St 3-	.	STEPHENSON C.B.	1978PASP...90..396S	Stephenson, list 3	*(b)*
St 3-	*eq. St3-*	N	.	PN	PN St 3-	.	STEPHENSON C.B.	1978PASP...90..396S	Stephenson, list 3	
Ste-		N	4	PN	PN Ste	1975S1	STENHOLM B.	1975A&A....39..307S	Author's name	PK Nmcl *(c)*
Stephenson		N	1	OCl	Cl Stephenson	1959S2	STEPHENSON C.B.	1959PASP...71..145S	Author's name	= C 1851+368 *(d)*
Stephenson		NNN	741	S *	S1*	1976ST	STEPHENS0N C.B.	1976PW&SO...2....2S	Author's name	*(e)*
StHA		NNN	206	Em. *	EM* STHA	1986S4	STEPHENSON C.B.	1986ApJ...300..779S	Stephenson, Hα obj.	
StKM		NNNN	2201	Dw.	STKM	1986S5	STEPHENSON C.B.	1986AJ.....91..144S	Stephenson, K and M *	*(f)*
StKM1-	*eq. StKM*	NNNN	.	Dw.	STKM	1986S5	STEPHENSON C.B.	1986AJ.....91..144S	Stephenson, K and M *, list 1	

(a) St2- 5 objects from Sa3- list
(b) St3- = St 3-
St3-1 = PN G217.4+02.0 = PK 217+02 1
(c) Ste- = Sm
(d) Stephenson = (St)
(e) Stephenson = S* = S1*
(f) StKM = StKM1-

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
StKM2-		NNNN	1808	Dw.	-	1986S6	STEPHENSON C.B.	1986AJ.....92..139S	Stephenson, K and M *, list 2	
StM		NNN	558	M *	-	1986S7	STEPHENSON C.B.	1986ApJ...301..927S	Stephenson, M *	*(a)*
STO	*use SOPS*	R a-NNN	.	(Opt)	SOPS	1972S2	STOCK J.+	1972PDAUC...2...59S	First author's name	*(b)*
STO		NNN	890	Superg. in LMC	-	1976S7	STOCK J.+	1976A&AS...24...35S	First author's name	
Stock		N	2	OCl	Cl Stock	1956S2	STOCK J.	1956ApJ...123..258S	Discoverer's name	C Nmcl *(c)*
Stock 2	*KS*	NNN	168	* in OCl	Cl Stock 2	1967K1	KRZEMINSKI W.+	1967ApJ...147..988K	Cl Stock 2	
Stockton	*use QS*	HHMM+DDM	.	QSO	QSO	1969S2	STOCKTON A.	1969ApJ...155.L141S	Author's name	
STR	*eq. Strand*	NN	.	PM *	-	1958S1	STRAND K.Aa.+	1958AJ.....63..337S	Author's name	
STR	*eq. DNCG*	HHMM-DDd	.	Cluster of G	p STR	1977D1	DUUS A.+	1977ApJS...35..209D	Stromlo obs.	
Str		NN	42	H II	-	1950S2	STROHMEIER W.	1950ZA.....27...49S	Author's name	*(d)*
Strand		NN	40	PM *	-	1958S1	STRAND K.Aa.+	1958AJ.....63..337S	First author's name	*(e)*
Stromlo	*use Gum*	NNa NN	.	H II (4PN)	GUM	1955G2	GUM C.S.	1955MmRAS..67..155G	Stromlo obs.	
StRS		NNN	447	*	STRS	1992S1	STEPHENSON C.B.	1992AJ....103..263S	Stephenson, Reddened *	Reddened stars
Struble	*use SRCG*	HHMM.m+DDMM	.	Cluster of G	-	1991S2	STRUBLE M.F.+	1991ApJ...374..395S	First Author's name	

(a) StM — No numbering in the Table 1A, the objects are renumbered by us and in the literature

(b) STO — The authors proposed no acronyms for the objects of 30 Tables ; These objects have been later quoted under different acronyms, even IIc (or similar), from the Table numbering. See the comments for the ref. 1974S5 (Sa1-) and the remark for StWr.

(c) Stock = (St)
The other clusters (Stock 1956, 1957) were published for the first time in the first edition of the Catalogue of Star Clusters and Associations, 1958, see ref. 1970AR A

(d) Str = (St)

(e) Strand = (S) = STR

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
StSV1-		N	6	(IR) in LDN 1551	-	1976S8	STROM K.M.+	1976AJ.....81..320S	Strom, other authors' initials, table 1	*(a)*
StSV2-		NN	13	(IR) in LDN 1517	-	1976S8	STROM K.M.+	1976AJ.....81..320S	Strom, other authors' initials, table 2	*(b)*
StVS	*use [S84]*	NNNNN	.	*	[S84]	.	STOCK J.	1984RMxAA...9...77S	Stock, Velocity Survey	
StVS		NN	25	(IR) in NGC 1333	STVS	1976S6	STROM S.E.+	1976AJ.....81..314S	Strom, other authors' initials	*(c)*
StWr1-		N	6	PN	PN StWr 1-	1972S2	STOCK J.+	1972PDAUC...2...59S	Authors' names, table 1	PN Nmcl *(d)*
StWr2-		NN	48	PN	PN StWr 2-	1972S2	STOCK J.+	1972PDAUC...2...59S	Authors' names, table 2	PN Nmcl *(e)*
StWr3-		N	8	PN	PN StWr 3-	1972S2	STOCK J.+	1972PDAUC...2...59S	Authors' names, table 3	PN Nmcl *(f)*
StWr4-		NN	16	PN	PN StWr 4-	1972S2	STOCK J.+	1972PDAUC...2...59S	Authors' names, table 4	PN Nmcl *(g)*

(a) StSV1- = (SSV)
See the remark for VSSG

(b) StSV2- = (SSV)
See the remark for VSSG

(c) StVS = (SVS)
See the remark for VSSG

(d) StWr1- = (SKWL1-) = (SKWL 1-) = StWr 1-
The ref. 1972S2 contains 4 Tables of PN or Poss. PN: StWr1- => Table Ib
Only a few objects are compiled in the PK Nomenclature. StWr without a serial number for the table number may be confusing.

(e) StWr2- = (SKWL2-) = (SKWL 2-) = StWr 2-
The ref. 1972S2 contains 4 Tables of PN or Poss. PN: StWr2- => Table IIb
Only a few objects are compiled in the PK Nomenclature. StWr without a serial number for the table number may be confusing.

(f) StWr3- = (SKWL3-) = (SKWL 3-) = StWr 3-
The ref. 1972S2 contains 4 Tables of PN or Poss. PN: StWr3- => Table IIIb
Only a few objects are compiled in the PK Nomenclature. StWr without a serial number for the table number may be confusing.

(g) StWr4- = (SKWL4-) = (SKWL 4-) = StWr 4-
The ref. 1972S2 contains 4 Tables of PN or Poss. PN: StWr4- => Table IVb
Only a few objects are compiled in the PK Nomenclature. StWr without a serial number for the table number may be confusing.

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
StWr 1-	*eq. StWr1-*	N	.	PN	`PN StWr 1-`	1972S2	STOCK J.+	1972PDAUC...2...59S	Authors' names, table 1	
StWr 2-	*eq. StWr2-*	NN	.	PN	`PN StWr 2-`	1972S2	STOCK J.+	1972PDAUC...2...59S	Authors' names, table 2	
StWr 3-	*eq. StWr3-*	N	.	PN	`PN StWr 3-`	1972S2	STOCK J.+	1972PDAUC...2...59S	Authors' names, table 3	
StWr 4-	*eq. StWr4-*	NN	.	PN	`PN StWr 4-`	1972S2	STOCK J.+	1972PDAUC...2...59S	Authors' names, table 4	
Supernova	*eq. SN*	YYYYA YYYYaa	.	SN	`SN`	1974SS 1984BC 1989BC	SARGENT W.L.W.+ BARBON R.+ BARBON R.+	. 1984A&AS...58..735B 1989A&AS...81..421B	Type of object	
SuWt	*eq. SchuWe-*	N	.	Poss. PN + PN	`PN SuWt`	. .	SCHUSTER M.E.+ WEST R.M.+	1976A&A....46..139S 1980A&A....88..350W	Authors' names	
Svop		N	5	*	-	1969S3	SVOPOULOS S.N.	1969AN....291..129S	Author's name	
SVS	*use [S84]*	NNNNN	.	*	`[S84]`	.	STOCK J.	1984RMxAA...9...77S	Stock Velocity Survey	
SVS		NNNN	2887	V *	`SV* SVS`	1992K2	KAZAROVETS E.V.+	1992IBVS.3743....1K	Soviet Variable Star	*(a)*
SVS	*use StVS*	NN	25	(IR) in NGC 1333	`STVS`	1976S6	STROM S.E.+	1976AJ.....81..314S	Authors' initials	*(b)*
SVS	*use SVS1-*	NN	.	(IR) in NGC 7129	`p SVS1-`	1976S9	STROM S.E.+	1976AJ.....81..638S	Authors' initials	*(c)*

(a) SVS = SPZ
V * Nmcl (ref. 1992K2)

(b) SVS Ref. 1976S6: This acronym is also used for other sources discovered by the same authors for other dark clouds. EX. SVS (NGC 7129) instead of SVS1-. See the remark for VSSG

(c) SVS Ref. 1976S9: This acronym is also used (for instance Harvey+ 1984, ApJ 278, 156) for 2microm. sources discovered by the same authors for other dark clouds. Ex. SVS (NGC 1333) instead of StVS. See the remark for VSSG

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
SVS	*use SVS2-*	NN	.	(IR) in Ser DCld	`p SVS2-`	1976S9	STROM S.E.+	1976AJ.....81..638S	Authors' initials	*(a)*
SVS1-		NN	16	(IR) in NGC 7129	`p SVS1-`	1976S9	STROM S.E.+	1976AJ.....81..638S	Authors' initials, table 1	*(b)*
SVS2-		NN	20	(IR) in Ser DCld	`p SVS2-`	1976S9	STROM S.E.+	1976AJ.....81..638S	Authors' initials, table 2	*(c)*
SW		NNN	150	*	`SW`	.	SARG K.+	1970A&AS....2..251S	Authors' initials	
SWCG		NNN	646	Cluster of G	`SWCG`	1985S1	SHECTMAN S.A.	1985ApJS...57...77S	Authors' initials, Cluster of G	
SwSt-		N	1	PN	`PN SwSt`	.	SWINGS P.+	1940PNAS...26..454S	Authors' names	*(d)*
[SY92]		NNNa	199	*	`[SY92]`	.	SHEVCHENKO V.S.+	1992AZh....69..986S	Authors' initials, 1992	
SYHG		NNN ENN	139+23	* + Em. *	`SYHG`	1991S3	SHEVCHENKO V.S.+	1991AZh....68..275S	Authors' initials	
1SZ		NNN	25/348	Compact G	`p SZ I`	1978R2	RODGERS A.W.+	1978ApJ...225..768R	Southern Zwicky, field 1	*(e)*
2SZ		NN	33/76	Compact G	`p SZ II`	1978R2	RODGERS A.W.+	1978ApJ...225..768R	Southern Zwicky, field 2	*(f)*
SZ	*eq. Sz*	NNN	.	Em. * in DCld (1 Em. line G)	`SZ`	1974H2 C	SCHWARTZ R.D.	1977ApJS...35..161S	Author's name	

(a) SVS Ref. 1976S9: This acronym is also used (for instance Harvey+ 1984, ApJ 278, 156) for 2microm. sources discovered by the same authors for other dark clouds. Ex. SVS (NGC 1333) instead of StVS. See the remark for VSSG
(b) SVS1- = (SVS)
(c) SVS2- = (SVS)
(d) SwSt- SwSt-1 = PN G001.5-06.7 = PK 001-06 2
(e) 1SZ = I SZ = ISZ = SZ I
(f) 2SZ = II SZ = IISZ = SZ II

Acronym	Usage	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
Sz		NNN	140	Em. * in DCld (1 Em. line G)	SZ	1974H2 C	SCHWARTZ R.D.	1977ApJS...35..161S	Author's name	Sz 80 (Em. line G) *(a)*
SZ I	*eq. 1SZ*	NNN	.	Compact G	p SZ I	1978R2	RODGERS A.W.+	1978ApJ...225..768R	Southern Zwicky, I (roman num.): 1st field	
SZ II	*eq. 2SZ*	NN	.	Compact G	p SZ II	1978R2	RODGERS A.W.+	1978ApJ...225..768R	Southern Zwicky, II (roman num.): 2nd field	
T	*use Haro*	NN	.	Em. G + Blue G	p HARO	1956H4	HARO G.	.	Tonantzintla obs.	
T	*use Ton*	NNNN	.	Blue * near NGP	TON	1957I1+	IRIARTE B.+	.	Tonantzintla obs.	
T	*use TonS*	NNN	.	Blue * near SGP	TON S	1958C1	CHAVIRA E.	1958BITon...2H..15C	Tonantzintla obs.	
T	*use HFS1-*	NNN	.	Flare *	HPRA	1968H3+	HARO G.	.	Tonantzintla obs.	
T		N	8	G	-	1973T2	TIFFT W.G.+	1973ApJ...185..115T	Tifft	
T	*use Tol*	NNN HHMM+DDd	.	Em. G + QSO	Tol	1976S4	SMITH M.G.+	1976ApJS...32..217S	Tololo obs.	
T	*use Tol*	HHMM+DD HHMM+DDd HHMM.m+DD.d HHMM+DDMM	.	Em. G + QSO	Tol	1978B3 1979B2	BOHUSKI T.J.+ BOHUSKI T.J.+	1978ApJ...221..776B 1979ApJ...231..653B	Tololo obs.	
T	*use Trumpler*	NNN	.	OCl	Cl Trumpler	1930T1	TRUMPLER R.J.	1930LicOB..14..154T	Trumpler	
T	*use NBGCG*	FN-NN	.	Group of G	-	1987TU C	TULLY R.B.	1987ApJ...321..280T	Tully	
T	*use T62-*	NN	.	* in SMC	-	1962T5	THACKERAY A.D.	1962MNSSA..21...74T	Thackeray	
T62-		NN	13	* in SMC	-	1962T5	THACKERAY A.D.	1962MNSSA..21...74T	Thackeray, 1962	*(b)*

(a) Sz = SZ
(b) T62- = (T) = Tha

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
[T93]		FFF-NNNNNN	≃ 400	Poss. very low-mass *	[T93]	.	TINNEY C.G.	1993ApJ...414..279T	Tinney, 1993	
TAP		NN	59	T Tau *	TAP	1987F1	FEIGELSON E.D.+	1987AJ.....94.1251F	Taurus Auriga Perseus	
TAU		N	1	(X)	NAME TAU	.	WALTER F.M.	1986ApJ...306..573W	Taurus	
TAU	*use Elias 3-*	NN	.	(IR) in Tau DCld complex	Elia 3-	1978E1 C	ELIAS J.H.	1978ApJ...224..857E	Taurus	
Tau	*use Elias 3-*	NN	.	(IR) in Tau DCld complex	Elia 3-	1978E1 C	ELIAS J.H.	1978ApJ...224..857E	Taurus	
Tau MC		N	2	MCld	NAME TMC	1978C1 A 1978C1 B	CHURCHWELL E.+ WALMSLEY C.M.+	1978A&A....67..139C 1982ApJ...258..L75W	Taurus, Molecular Cloud	*(a)*
TBJ	*eq. TrBr*	N	.	Diffuse Obj.	-	.	TERZAN A.+	1978CRB...287..235T	Authors' initials	
TBJ	*eq. TrBr*	N	.	PN	PN Tr	.	TERZAN A.+	1978CRB...287..235T	Authors' initials	
TC		NNN	930	G	-	1988T1 A 1988T1 B 1988T1 C	TIFFT W.G.+ TIFFT W.G.+ TIFFT W.G.	1988ApJS...67....1T 1990A&AS...84...47T 1990ApJS...73..603T	Authors' initials	*(b)*
Tc		N	1	PN	PN Tc	.	THACKERAY A.D.	1950MNRAS.110..524T	Author's name	Tc 1 = PN G345.2-08.8 = PK 345-08 1
TC E-		NN	37	G	-	1988T1 B	TIFFT W.G.+	1990A&AS...84...47T	Authors' initials, Extension	
TCSS		-	-	PN	-	.	TURATTO M.+	1990AJ.....99.1170T	Authors' initials	
TD1		NNNNN	.	(UV)	TD1	.	THOMPSON G.I.+	.	TD1 satellite	

(a) Tau MC = TMC = TMC-

(b) TC (Nos 1-930), with many missing numbers. In ref. 1988T1 A, in Table 1, the 1950 coord. are written very inconveniently with minus signs as separators and without leading zeroes. e.g. α = 0- 7-45.0 for α = 00 07 45.0 ; δ = -18-32-36 . for δ = -18 32 36

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
TDC		N	2	PN + Poss. PN	-	.	THOMPSON D.J.+	1991PASP..103..487T	Authors' initials	*(a)*
Te		NNNN	9+10	PN + Poss. PN	Terz N	1980T2 A 1980T2 B 1982T1 B 1982T1 D	TERZAN A.+ TERZAN A. TERZAN A.+ CUISINIER F.+	1980Msngr..20....6T 1985Msngr..42....4T 1988A&AS...76..205T 1993A&A...277..203C	Author's name	*(b)*
TeJu	*eq. Te*	NN	.	PN + Poss. PN	Terz N	1980T2 A	TERZAN A.+	1980Msngr..20....6T	Authors' names	
TeOu	*eq. TerzN*	NN	.	Neb. Obj.	Terz N	1982T1 B	TERZAN A.+	1988A&AS...76..205T	Authors' names	(Nos 42-71,Table III)
TeOu	*eq. Te*	NN	.	PN + Poss. PN	Terz N	1982T1 B	TERZAN A.+	1988A&AS...76..205T	Authors' names	
TER	*use TerzN*	NN	.	Neb. Obj.	Terz N	1980T2+ 1982T1 B+	TERZAN A.+ TERZAN A.+	. .	Author's name	
TER	*use TerzV*	NNNN	.	V *	Terz V	1982T1+	TERZAN A.+	.	Author's name	
Ter	*use Terzan*	NN	.	OCl and GCl	Cl Terzan	1971T1	TERZAN A.	1971A&A....12..477T	Author's name	
Terzan	*use TerzN*	NN	.	Neb. Obj.	Terz N	1980T2+ 1982T1 B+	TERZAN A.+ TERZAN A.+	. .	Author's name	
Terzan	*use TerzV*	NNNN	.	V *	Terz V	1982T1+	TERZAN A.+	.	Author's name	
Terzan		NN	12	OCl and GCl	Cl Terzan	1971T1	TERZAN A.	1971A&A....12..477T	Author's name	C Nmcl *(c)*
Terzan-Ju	*use TerzN*	NN	.	Neb. Obj.	Terz N	1980T2 A	TERZAN A.+	1980Msngr..20....6T	Authors' names	(Nos 1-24)

(a) TDC TDC 1 = PN G029.2-00.0 ; TDC 2 is a poss. PN
(b) Te = TeJu (ref. 1980T2 A) = TeOu (ref. 1982T1 B)
used for the PN and Poss.PN among TerzN (nebulous objects)
(c) Terzan = (Ter)
See the remark for Haute Provence

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes

TerzN		NNN	138	Neb. Obj.	`Terz N`	`1980T2 A`
						`1980T2 B`
						`1982T1 B`
						`1982T1 C`
						`1982T1 D`
							TERZAN A.+
							TERZAN A.
							TERZAN A.+
							TERZAN A.+
							CUISINIER F.+
								`1980Msngr..20....6T`
								`1985Msngr..42....4T`
								`1988A&AS...76..205T`
								`1991A&AS...90..451T`
								`1993A&A...277..203C`
									Author's name, Nebulous obj.	*(a)*

Terz N	*eq. TerzN*	NNN	.	Neb. Obj.	`Terz N`	`1980T2+` `1982T1 B+`	TERZAN A.+ TERZAN A.+	. .	Author's name, Nebulous obj.	

TerzV		NNNN	2213	V *	`Terz V`	`1982T1 A`
						`1982T1 B`
						`1982T1 C`
							TERZAN A.+
							TERZAN A.+
							TERZAN A.+
								`1982A&AS...49..715T`
								`1988A&AS...76..205T`
								`1991A&AS...90..451T`
									Author's name, Variable *	*(b)*

Terz V	*eq. TerzV*	NNNN	.	V *	`Terz V`	`1982T1+`	TERZAN A.+	.	Author's name, Variable *	
TF		NNN	108	(X) in M 31	`TF`	`1991T1`	TRINCHIERI G.+	`1991ApJ...382...82T`	Authors' initials	*(c)*
TG		NNN	103	Group of G	-	`1976T1`	TURNER E.L.+	`1976ApJS...32..409T`	Authors' initials	
Th1-		A	10	PN	`PN Th 1-`	`1962T4`	THE P.-S.	`1962CoBos..14.....T`	Author's name, list 1	PN Nmcl *(d)*
Th2-		A	3	PN	`PN Th 2-`	`1962T3`	THE P.-S.	`1962CoBos..17.....T`	Author's name, list 2	PN Nmcl *(e)*
Th3-		NN	29	*	-	.	THE P.S.	`1964CoBos..26....1T`	Author's name, list 3	*(f)*
Th3-		NN	39	PN	`PN Th 3-`	.	THE P.S.	`1964CoBos..26....1T`	Author's name, list 3	PN Nmcl *(g)*

(a) TerzN = (TER) = Terz N = (Terzan) = (Terzan-Ju) = (TJ) = (Trz)
Includes Terzan-Ju (nebulous objects) among which PN and Poss.PN named TeJu. The PN or Poss.PN are named Te (among them TeJu and TeOu). An additional reference including Nos up to 2337 is a private communication by Terzan.
(b) TerzV = (TER) = Terz V = (Terzan)
(c) TF = (E)
(d) Th1- = Th 1-
(e) Th2- = Th 2-
(f) Th3- = Th 3-
(g) Th3- = Th 3-
Table I in the ref. 1964CoBos.26.1T; Th3-22 is a nova

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
Th4-		NN	11	PN	PN Th 4-	.	THE P.S.	1964CoBos..28....1T	Author's name, list 4	PN Nmcl *(a)*
Th 1-	*eq. Th1-*	A	.	PN	PN Th 1-	1962T4	THE P.-S.	1962CoBos..14.....T	Author's name, list 1	
Th 2-	*eq. Th2-*	A	.	PN	PN Th 2-	1962T3	THE P.-S.	1962CoBos..17.....T	Author's name, list 2	
Th 3-	*eq. Th3-*	NN	.	PN	PN Th 3-	.	THE P.S.	1964CoBos..26....1T	Author's name, list 3	
Th 4-	*eq. Th4-*	NN	.	PN	PN Th 4-	.	THE P.S.	1964CoBos..28....1T	Author's name, list 4	
Tha	*eq. T62-*	NN	.	* in SMC	-	1962T5	THACKERAY A.D.	1962MNSSA..21...74T	Author's name	
THA 10-		NN	27	Em. *	-	1961T1	THE P.-S.	1961CoBos..10....1T	The, Hα em., contribution Bosscha obs. no. 10	*(b)*
THA 14-		NN	62	Em. *	p THA 14-	1962T4	THE P.-S.	1962CoBos..14.....T	The, Hα em., contribution Bosscha obs. no. 14	*(c)*
THA 15-		NN	44	Em. *	p THA 15-	1962T1	THE P.-S.	1962CoBos..15.....T	The, Hα em., contribution Bosscha obs. no. 15	*(d)*
THA 17-		NN	90	Em. *	p THA 17-	1962T3	THE P.-S.	1962CoBos..17.....T	The, Hα em., contribution Bosscha obs. no. 17	*(e)*
THA 23-		NN	32	Em. *	-	1964T1	THE P.-S.	1964CoBos..23.....T	The, Hα em., contribution Bosscha obs. no. 23	*(f)*

(a) Th4- = Th 4-
Table I in the ref. 1964CoBos.28.1T.
(b) THA 10- = THα 10-
(c) THA 14- = THα 14-
(d) THA 15- = THα 15-
(e) THA 17- = THα 17-
(f) THA 23- = THα 23-

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
THA 27-		N	8	Em. *	-	1964T2	THE P.-S.	1964CoBos..27....1T	The, Hα em., contribution Bosscha obs. no. 27	*(a)*
THA 34-		NN	43	Em. *	-	1966T1	THE P.-S.	.	The, Hα em., contribution Bosscha obs. no. 34	*(b)*
THA 35-		NNN	231	Em. *	-	1966T2	THE P.-S.	1966CoBos..35....1T	The, Hα em., contribution Bosscha obs. no. 35	*(c)*
THα 10-	*eq. THA 10-*	NN	.	Em. *	-	1961T1	THE P.-S.	1961CoBos..10....1T	The, Hα em., contribution Bosscha obs. no. 10	
THα 14-	*eq. THA 14-*	NN	.	Em. *	p THA 14-	1962T4	THE P.-S.	1962CoBos..14.....T	The, Hα em., contribution Bosscha obs. no. 14	
THα 15-	*eq. THA 15-*	NN	.	Em. *	p THA 15-	1962T1	THE P.-S.	1962CoBos..15.....T	The, Hα em., contribution Bosscha obs. no. 15	
THα 17-	*eq. THA 17-*	NN	.	Em. *	p THA 17-	1962T3	THE P.-S.	1962CoBos..17.....T	The, Hα em., contribution Bosscha obs. no. 17	
THα 23-	*eq. THA 23-*	NN	.	Em. *	-	1964T1	THE P.-S.	1964CoBos..23.....T	The, Hα em., contribution Bosscha obs. no. 23	
THα 27-	*eq. THA 27-*	N	.	Em. *	-	1964T2	THE P.-S.	1964CoBos..27....1T	The, Hα em., contribution Bosscha obs. no. 27	
THα 34-	*eq. THA 34-*	NN	.	Em. *	-	1966T1	THE P.-S.	.	The, Hα em., contribution Bosscha obs. no. 34	
THα 35-	*eq. THA 35-*	NNN	.	Em. *	-	1966T2	THE P.-S.	1966CoBos..35....1T	The, Hα em., contribution Bosscha obs. no. 35	

(a) THA 27- = THα 27-
(b) THA 34- = THα 34-
(c) THA 35- = THα 35-

Acronym	Usage	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
TJ	*use TerzN*	NN	.	Neb. Obj.	Terz N	1980T2 A	TERZAN A.+	1980Msngr..20....6T	Authors' initials	
TLE	*use Wildey*	NNN	.	∗ in GCl	NGC 104	1961W1 B	LLOYD EVANS T.	1974MNRAS.167..393L	Author's initials	(Nos 201-412)
TMC	*eq. Tau MC*	N	.	MCld	NAME TMC	1978C1+	CHURCHWELL E.+	.	Taurus, Molecular Cloud	
TMC-	*eq. Tau MC*	N	.	MCld	NAME TMC	1978C1+	CHURCHWELL E.+	.	Taurus, Molecular Cloud	
TME		NNNN	4135	∗	-	1962T2	TUZI K.	.	Tokyo-Mitaka obs., Equatorial ∗	
TMSS	*catalog: use IRC*	+D0NNN	.	(IR)	IRC	1969N1	NEUGEBAUER G.+	.	Two Micron Sky Survey	
TN	*use Ton*	NNNN	.	WD	TON	1957I1+	IRIARTE B.+	.	Tonantzintla obs.	
TNST		NN	18	∗ in Heiles Cld 2	p TNST	.	TAMURA M.+	1987MNRAS.224..413T	Authors' initials	
TOL	*eq. Tol*	NNN HHMM+DDd	.	Em. G + QSO	Tol	1976S4	SMITH M.G.+	1976ApJS...32..217S	Tololo obs.	
TOL	*eq. Tol*	HHMM+DD HHMM+DDd HHMM.m+DD.d HHMM+DDMM	.	Em. G + QSO	Tol	1978B3 1979B2	BOHUSKI T.J.+ BOHUSKI T.J.+	1978ApJ...221..776B 1979ApJ...231..653B	Tololo obs.	
Tol		NNN HHMM+DDd	116	Em. G + QSO	Tol	1976S4	SMITH M.G.+	1976ApJS...32..217S	Tololo obs.	*(a)*
Tol		HHMM+DD HHMM+DDd HHMM.m+DD.d HHMM+DDMM	90+23	Em. G + QSO	Tol	1978B3 1979B2	BOHUSKI T.J.+ BOHUSKI T.J.+	1978ApJ...221..776B 1979ApJ...231..653B	Tololo obs.	*(b)*

(a) Tol = (CTIO) = (T) = TOL = Tololo
Two formats (NNN and HHMM+DDd) are proposed in ref. 1976S4 ; Notice that a few objects are giant H II regions in galaxies (ex. Tol 89 in NGC 5398).
Tol 26 = CTIO 1230-275 is a PN (ref. 1992AO).

(b) Tol = (T) = TOL = Tololo
New lists of Tololo Em. line galaxies ; use Parkes designation exclusively, as proposed in col. 2 of Table 1 (ref. 1978B3) and in col. 2 of Table 2 (ref. 1979B2): The Nos of column (1) would be confusing with that of ref. 1976S4 (Nos 1-116).

Acronym	Usage	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
Tololo	*eq. Tol*	NNN HHMM+DDd	.	Em. G + QSO	Tol	1976S4	SMITH M.G.+	1976ApJS...32..217S	Tololo obs.	
Tololo	*eq. Tol*	HHMM+DD HHMM+DDd HHMM.m+DD.d HHMM+DDMM	.	Em. G + QSO	Tol	1978B3 1979B2	BOHUSKI T.J.+ BOHUSKI T.J.+	1978ApJ...221..776B 1979ApJ...231..653B	Tololo obs.	
Tombaugh		N	5	OCl	Cl Tombaugh	1938T1	TOMBAUGH C.W.	1938PASP...50..171T	Author's name	C Nmcl
TON	*eq. Ton*	NNNN	.	Blue * near NGP	TON	1957I1+	IRIARTE B.+	.	Tonantzintla obs.	
Ton		NNNN	1589	Blue * near NGP	TON	1957I1 A 1957I1 B	IRIARTE B.+ CHAVIRA E.	1957BOTT....2G...3I 1959BOTT....2I...3C	Tonantzintla obs.	*(a)*
Ton	*use HFS1-*	NNN	.	Flare *	HPRA	1968H3+	HARO G.	.	Tonantzintla obs.	
Tonantzintla	*use HFS1-*	NNN	.	Flare *	HPRA	1968H3+	HARO G.	.	Tonantzintla obs.	
Tonantzintla	*use HFS3-*	NN	.	Flare * in NGC 2264	Cl* NGC 2264 HAR	1968H3 A	HARO G.	.	Tonantzintla obs.	
Tonantzintla	*use HFS4-*	NN	.	Flare * in Tau DCld	-	1968H3 A	HARO G.	.	Tonantzintla obs.	
Tonantzintla	*use HFS5-*	NN	.	Flare * in Pleiades	Cl* Melotte 22 HAR	1968H3 A	HARO G.	.	Tonantzintla obs.	
Tonantzintla	*use HFS7-*	N	.	Flare * in Coma BER	-	1968H3 A	HARO G.	.	Tonantzintla obs.	
Tonantzintla	*use HFS8-*	NN	.	Flare * in Praesepe	Cl* NGC 2632 HAR	1968H3 A	HARO G.	.	Tonantzintla obs.	
TonS		NNN	419	Blue * near SGP	TON S	1958C1	CHAVIRA E.	1958BITon...2H..15C	Tonantzintla obs., South	*(b)*

(a) Ton = (T) = (TN) = TON
(b) TonS = CHA = Chavira = (T) = Ton S = (TS)

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
Ton S	*eq. TonS*	NNNN	.	Blue * near SGP	`TON S`	1958C1	CHAVIRA E.	`1958BITon...2H..15C`	Tonantzintla obs., South	
TP		HHMM+DDdA	7250	(Rad)	-	1980D2 .	DOUGLAS J.N.+	`1980PAUTx..17....1D` .	Texas Publication	*(a)*
TR	*use Trumpler*	NNN	.	OCl	`Cl Trumpler`	1930T1	TRUMPLER R.J.	`1930LicOB..14..154T`	Author's name	
TR		N	1	Dw. G	-	1977T2	THONNARD N.+	`1977BAAS....9..619T`	Authors' initials	
Tr	*use Trumpler*	NNN	.	OCl	`Cl Trumpler`	1930T1	TRUMPLER R.J.	`1930LicOB..14..154T`	Author's name	
Tr	*eq. TrBr*	N	.	PN	`PN Tr`	.	TERZAN A.+	`1978CRB...287..235T`	First author's name	
Tr	*use [ME92]*	NNN	.	*	-	.	McDONALD S.W.+	`1992AJ....104..862M`	Triton occultation	
TrBr		N	3	Diffuse Obj.	-	.	TERZAN A.+	`1978CRB...287..235T`	Two first authors' names	*(b)*
TrBr		N	1	PN	`PN Tr`	.	TERZAN A.+	`1978CRB...287..235T`	Two first authors' names	*(c)*
TRM		NNN	158	Red * in LMC	-	1990R1	REID N.+	`1990ApJ...348...98R`	Authors' initials (in disorder)	
Trumpler		NNN	334	OCl	`Cl Trumpler`	1930T1	TRUMPLER R.J.	`1930LicOB..14..154T`	Author's name	C Nmcl *(d)*
Trz	*use TerzN*	NN	.	Neb. Obj.	`Terz N`	1980T2+ 1982T1 B+	TERZAN A.+ TERZAN A.+	. .	First author's name	
TS	*use TonS*	NNN	.	Blue * near SGP	`TON S`	1958C1	CHAVIRA E.	`1958BITon...2H..15C`	Tonantzintla obs., South	
TS	*use TSWR*	N	.	WR near 30 Dor	`TSWR`	1990T1+	TESTOR G.+	.	Authors' initials	

(a) TP = (UTRAO)
(b) TrBr = TBJ = Tr
(c) TrBr = TBJ = Tr
TrBr 4 = PN G357.6+01.0 = PK 357+01 3
(d) Trumpler = (T) = (TR) = (Tr)

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
TSWR		N	4	WR near 30 Dor	`TSWR`	`1990T1 A` `1990T1 B`	TESTOR G.+ SCHILD H.+	`1990A&A...240..299T` `1992A&AS...92..729S`	Authors' initials, WR ∗	*(a)*
TT	*use BM*	R NNN	.	∗	`BM`	`1955B1`	BLANCO V.M.+	`1955BOTT....2C..17B`	Tonantzintla y Tacubaya obs.	*(b)*
TT		NN	48	G in Coma Cl	`p TT`	. .	TIFFT W.G.+ TIFFT W.G.+	`1975ApJ...199...10T` `1977ApJ...217..944T`	Authors' initials	
[TTC90]		NN	34	M Giant	`[TTC90]`	.	THE P.S.+	`1990PASP..102..565T`	Three first authors' initials, 1990	
TTV		N	3	V ∗	-	.	KESTLANE+	.	Tatu obs., Variable	*(c)*
TTV-	*eq. TTV*	N	.	V ∗	-	.	KESTLANE+	.	Tatu obs., Variable	
TV		N	5	V ∗	-	.	-	.	Tkyo obs., Variable	V ∗ Nmcl
2U		HHMM+DD	125	(X)	`2U`	`1972G1`	GIACCONI R.+	`1972ApJ...178..281G`	Uhuru satellite	
3U		HHMM+DD	161	(X)	`3U`	`1974G4`	GIACCONI R.+	`1974ApJS...27...37G`	Uhuru satellite	
4U		HHMM+DD	339	(X)	`4U`	`1978F1`	FORMAN W.+	`1978ApJS...38..357F`	Uhuru satellite	
U	*use UGC*	NNNNNA	.	G	`UGC`	`1973N1 A`	NILSON P.	`1973UGC.....1.....N`	Uppsala obs., general catalog	
U		NN	19	UV Obj. + QSO	-	`1980A1`	ARP H.	`1980ApJ...236...63A`	Ultraviolet	
U		NN HHMM+DDd	29	Poss. UV Exc.	-	`1984H1`	HE X.-T.+	`1984MNRAS.211..443H`	Ultraviolet excess	
UA	*use UGCA*	NNNNNA	.	G	`UGCA`	`1973N1 B`	NILSON P.	`1974UppOR...5.....N`	Uppsala obs., Addendum	

(a) TSWR = (TS)
(b) TT often used for BM VII NN
(c) TTV = TTV-
1970; V ∗ Nmcl

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
UB		NN	16	UV Obj.	-	1979A2	ARP H.+	1979ApJ...229..489A	Ultraviolet Blue	
UBA	*eq. MUL*	NNa	.	(Rad)	-	1959M2	MULLER H.G.	1959VeUSB..52....1M	University of Bonn, list A	
UBV	*eq. USN*	NNNNN	.	*	UBV	1968B3	BLANCO V.M.+	1968PUSNO.......21B	UBV system	
UCL		NNa	46	(Far IR)	-	1973E1 A 1973E1 B	EMERSON J.P.+ FURNISS I.+	1973ApJ...184..401E 1975ApJ...202..400F	University College, London	
UCM		HHMM+DDMM	254	Em. G	UCM	1990Z2 1993R2	ZAMORANO J.+ REGO M.+	1990Ap&SS.170..353Z 1993AJ....105..427R	Univ. Complutense de Madrid	*(a)*
Uesugi		NNNN	3951	*	ROT	1970U1	UESUGI A.+	1970CoKwa.189.....U	First author's name	*(b)*
UGC		NNNNNA	12940	G	UGC	1973N1 A	NILSON P.	1973UGC.....1.....N	Uppsala obs., General Catalog	*(c)*
UGCA		NNNNNA	400	G	UGCA	1973N1 B	NILSON P.	1974UppOR...5.....N	Uppsala obs., General Catalog, Addendum	*(d)*
UGCG	*catalog: use UGC*	NNNNNA	.	G	UGC	1973N1 A	NILSON P.	1973UGC.....1.....N	Uppsala obs., General Catalog of G	
UGP		NNN	624	K,M *	UGP	.	UPGREN A.R.+	1972AJ.....77..486U	Three first authors' initials	
UHA	*eq. UHα*	NNN	.	Em. *	EM* UHA	1973W2	WELIN G.	1973A&AS....9..183W	Uppsala obs., Hα em.	
UHα		NNN	141	Em. *	EM* UHA	1973W2	WELIN G.	1973A&AS....9..183W	Uppsala obs., Hα em.	*(e)*
UI		DD-NNN	1127	*	p UI	1963U1	UPGREN A.R.	1963AJ.....68..194U	Upgren, Intermediate spectral type	

(a) UCM Format based on 1950 coordinates
(b) Uesugi = ROT
(c) UGC = (U)
(d) UGCA = (UA)
(e) UHα = UHA

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
UKS		HHMM+DDd HHMM+DD.d	.	(Opt)	UKS	.	-	.	United Kingdom Schmidt	*(a)*
UL	*eq. NGP*	DD-NNN	.	Late *	p NGP	1962U1	UPGREN A.R. Jr.	1962AJ.....67...37U	Upgren, Late spectral type	
UM		NNN	685	Exgl Em. Obj.	UM	1977M1 A 1977M1 B 1977M1 C 1977M1 D 1977M1 E 1977M1 F	MacALPINE G.M.+ MacALPINE G.M.+ MacALPINE G.M.+ MacALPINE G.M.+ MacALPINE G.M.+ MacALPINE G.M.+	1977ApJS...34...95M 1977ApJS...35..197M 1977ApJS...35..203M 1978ApJS...36..587M 1981ApJS...45..113M 1982ApJ...261..412M	University of Michigan	*(b)*
UOA		NN	27	(IR)	-	1973L2	LOW F.J.	.	University of Arizona	*(c)*
UoB	*eq. MUL*	NNa	.	(Rad)	-	1959M2	MULLER H.G.	1959VeUSB..52....1M	University of Bonn	
Up	*use NGP*	DD-NNN	.	Late *	p NGP	1962U1	UPGREN A.R.Jr	1962AJ.....67...37U	Upgren	
Upgren	*use NGP*	DD-NNN	.	Late *	p NGP	1962U1	UPGREN A.R.Jr	1962AJ.....67...37U	Author's name	
Upgren		N	1	OCl	Cl Upgren	1965U1	UPGREN A.R.+	1965PASP...77..355U	First author's name	= C 1232+365
Upgren	*use VVO*	NNN	.	PM *	VVO	1968G1+	GROSSENBACHER R.+	.	One of the authors	
US		NNNN	3987	Faint Blue Obj.	US	1981U1 A 1981U1 B 1981U1 C 1981U1 D 1981U1 E 1981U1 F	USHER P.D. USHER P.D.+ USHER P.D.+ HUANG K.-L.+ USHER P.D.+ USHER P.D.+	1981ApJS...46..117U 1982ApJS...48...51U 1982ApJS...49..487R 1984ApJS...56..393H 1988ApJS...66....1U 1990ApJS...74..885U	Author's name	
USN		NNNNN	20705	*	UBV	1968B3	BLANCO V.M.+	1968PUSNO.......21B	US Naval obs.	*(d)*
USNO	*use IDS*	HHMM.mNDDMMA HHMM.mSDDMMA	.	Double *	IDS	1963JV	JEFFERS H.M.+	.	US Naval Obs.	format: 1900 coord.

(a) UKS Quoted in ApJ 237, 432 (1980). Plates taken with the 48 inch UK Schmidt Telescope
(b) UM = MCS = Mi = Michigan
(c) UOA = AFCRL-UOA
(d) USN = Blanco = UBV = WPC

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
USNO		NNN	908	*	USNO	1980H1 A 1980H1 B 1980H1 C 1980H1 D 1980H1 E	HARRINGTON R.S.+ DAHN C.C.+ HARRINGTON R.S.+ DAHN C.C.+ HARRINGTON R.S.+	1980AJ.....85..454H 1982AJ.....87..419D 1985AJ.....90..123H 1988AJ.....95..237D 1993AJ....105.1571H	US Naval Obs.	
USS		HHMM+DDd	81	(Rad)	-	.	WIERINGA M.H.+	1992A&AS...93..399W	Ultra-Steep Spectrum	
UT		HHMM+DDd	3263	(Rad)	-	1973D1 A		.	University of Texas	*(a)*
UTRAO	*use UT*	HHMM+DDd	.	(Rad)	-	1973D1+	DOUGLAS J.N.+	.	Univ. of Texas, Radio Astron. Obj.	
UTRAO	*use TP*	HHMM+DDdA	.	(Rad)	-	1980D2 .	DOUGLAS J.N.+	1980PAUTx..17....1D .	Univ. of Texas, Radio Astron. Obj.	
UV	*use CEL*	NNNN	.	UV Obj.	CEL	1973D3	DAVIS R.J.+	1973SAOSR.350.....D	Ultraviolet obj.	
UV		HHMM+DD	11	UV Obj.	EQ	1983C1	CARNOCHAN D.J.+	1983MNRAS.202..317C	Ultraviolet obj.	
15V		NN	94	(Rad)	15V	1991F1	FOMALONT E.B.+	1991AJ....102.1258F	15th VLA survey	
16V		NN	46	(Rad)	-	1993W1	WINDHORST R.A.+	1993ApJ...405..498W	16th VLA survey	
17V		NN	36	(Rad)	-	1993W1	WINDHORST R.A.+	1993ApJ...405..498W	17th VLA survey	
V		HHMM+DDd	.	(Hard X)	-	.	-	.	Vela 5B satellite	
V	*use MCC*	NNN	.	M *	MCC	1943V1+	VYSSOTSKY A.N.	.	Vyssotsky	

(a) UT = (UTRAO)

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
V		AA CCC VNNNN CCC	.	V *	V*	1969KK A 1969KK B 1969KK C 1969KK D 1969KK E 1969KK F 1985KS A 1985KS B 1985KS C 1985KS D	KUKARKIN B.V.+ KUKARKIN B.V.+ KUKARKIN B.V.+ KUKARKIN B.V.+ KUKARKIN B.V.+ KUKARKIN B.V.+ KHOLOPOV P.N.+ KHOLOPOV P.N.+ KHOLOPOV P.N.+ KHOLOPOV P.N.+	. . . .	Variable *	*(a)*
V	*use [V62]*	NNN	.	GCl in M 31	[V62]	.	VETESNIK M.	1962BAICz..13..180V	Vetesnik	
V	*use IGVV*	NNN	.	IG	p IG VV	1970V1 A	VORONTSOV-V. B.A.	.	Vorontsov	
[V62]		NNN	327	GCl in M 31	[V62]	.	VETESNIK M.	1962BAICz..13..180V	Vetesnik, 1962	
[V64]		OB NNN	188	OB Ass. in M 31	[V64]	.	VAN DEN BERGH S.	1964ApJS....9...65V	Van Den Bergh, 1964	*(b)*
[V84]	*eq. GRV*	NNN	.	Group of G	[V84]	1984V1	VENNIK J.	1984TarOT..73....1V	Group of G	
V*	*eq. V*	AA CCC VNNNN CCC	.	V *	V*	1969KK+ 1985KS+	KUKARKIN B.V.+ KHOLOPOV P.N.+	. .	Variable *	
VA	*eq. vA*	NNN	.	* in Hyades	Cl* Melotte 25 VA	1969V2	VAN ALTENA W.F.	1968AJ.....74....2V	Van Altena	
vA		NNN	778	* in Hyades	Cl* Melotte 25 VA	1969V2	VAN ALTENA W.F.	1968AJ.....74....2V	van Altena	*(c)*
Van Bueren		NNN	152	* in Hyades	Cl Melotte 25	1952V2	VAN BUEREN H.G.	1952BAN....11..385V	Author's name	*(d)*
Van den Bergh		NNN	9	OCl	Cl VDB	1957V1	VAN DEN BERGH S.	1957ApJ...126..323V	Author's name	C Nmcl *(e)*

(a) V = V* = VAR
Variable Star Nomenclature: defined in the General Catalogue of Variable Stars (GCVS). The numbering is explained in the comment of ref. 1985KS A
(b) [V64] = (vdB)
(c) vA = VA
(d) Van Bueren = VB = vB
(e) Van den Bergh = VDB

Acronym	Usage	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
Van den Bergh	*use DDO*	NNN	.	Dw. G	DDO	1959V1+	VAN DEN BERGH S.	.	Author's name	
Van den Bergh-Hagen		NNN	262	OCl + GCl	Cl VDBH	1975V2	VAN DEN BERGH S.+	1975AJ.....80...11V	Authors' names	
Van Wijk		NN	16	* in LMC	-	1952V3	VAN WIJK U.	1952BHarO.921....7V	Author's name	
VAR	*eq. V*	AA CCC VNNNN CCC	.	V *	V*	1969KK+ 1985KS+	KUKARKIN B.V.+ KHOLOPOV P.N.+	. .	Variable *	
VB		NN	16	V *	SV* VB	.	-	.	Variable *, Bologna obs.	V * Nmcl
VB	*eq. VBe*	N	.	PN	PN VBe	. .	VAN DEN BERGH S. VAN DEN BERGH S.	1978ApJS...38..119V 1979ApJ...227..497V	Van den Bergh	
VB	*eq. Van Bueren*	NNN	.	* in Hyades	Cl Melotte 25	1952V2	VAN BUEREN H.G.	1952BAN....11..385V	Van Bueren	
VB		NN	29	Faint *	VB	1961V1	VAN BIESBROECK G.	1961AJ.....66..528V	Van Biesbroeck	*(a)*
vB	*eq. Van Bueren*	NNN	.	* in Hyades	Cl Melotte 25	1952V2	VAN BUEREN H.G.	1952BAN....11..385V	van Bueren	
vB	*eq. VB*	NN	.	Faint *	VB	1961V1	VAN BIESBROECK G.	1961AJ.....66..528V	van Biesbroeck	
VBe		N	3	PN	PN VBe	. .	VAN DEN BERGH S. VAN DEN BERGH S.	1978ApJS...38..119V 1979ApJ...227..497V	Van den Bergh	*(b)*
VBH	*use VdBH*	NN	.	RFN	VDBH	1975V1 A	VAN DEN BERGH S.+	1975AJ.....80..208V	Authors' initials	
VBH	*use VdBH*	NNa NNa'	.	* in RFN	VDBH	1975V1+	VAN DEN BERGH S.+	.	Authors' initials	
vBH	*use VdBH*	NN	.	RFN	VDBH	1975V1 A	VAN DEN BERGH S.+	1975AJ.....80..208V	Authors' initials	
vBH	*use VdBH*	NNa NNa'	.	* in RFN	VDBH	1975V1+	VAN DEN BERGH S.+	.	Authors' initials	

(a) VB = vB = VBS
(b) VBe = VB
VBe 1 = PK 339-00 1 is described in ref. 1973VM B (p. 124), and is a poss. PN in ref. 1992AO.
VBe 2 and 3 are near the SNR 326.3-01.8, VBe 2 is a poss. PN in ref. 1992AO, and VBe 3 = PN G326.1-01.9

Acronym	Usage	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
VBRC	*eq. BRABCMS-*	N	.	PN	PN VBRC	.	VAN DEN BERGH S.+	1973ApJ...179..863V	Two first authors' names	
VBS	*eq. VB*	NN	.	Faint *	VB	1961V1	VAN BIESBROECK G.	1961AJ.....66..528V	Van Biesbroeck Star	
VCC		NNNN	2096	G	VCC	1985B2	BINGGELI B.+	1985AJ.....90.1681B	Virgo Cluster Catalog	*(a)*
VCLS	*WR*	NNN NNa	.	WR	WR	1981VH A	VAN DER HUCHT K.A.+	1981SSRv...28..227V	Authors' initials	
VCT	*use VSS*	VIII-NN	.	* in CrA DCld	VSS	1976V2 B	VRBA F.J.+	1981ApJ...243..489V	Authors' initials	
Vd	*eq. Vd1-*	N	.	PN	PN Vd 1-	.	VANDERVORT G.L.	1964CoBos..30.....V	Author's name	
Vd1-		N	9	PN	PN Vd 1-	.	VANDERVORT G.L.	1964CoBos..30.....V	Author's name, list 1	PN Nmcl *(b)*
Vd 1-	*eq. Vd1-*	N	.	PN	PN Vd 1-	.	VANDERVORT G.L.	1964CoBos..30.....V	Author's name, list 1	
VDB	*eq. Van den Bergh*	NNN	.	OCl	Cl VDB	1957V1	VAN DEN BERGH S.	1957ApJ...126..323V	Van Den Bergh	
VDB	*eq. VdB*	NNN	.	RFN	-	1966V1 A	VAN DEN BERGH S.	1966AJ.....71..990V	Van Den Berg	
VDB	*eq. VdB*	NNNa	.	* in RFN	VDB	1966V1+	VAN DEN BERGH S.	.	Van Den Bergh	
VdB		NNN	158	RFN	-	1966V1 A	VAN DEN BERGH S.	1966AJ.....71..990V	Van den Bergh	*(c)*
VdB		NNNa	188	* in RFN	VDB	1966V1 A 1966V1 B	VAN DEN BERGH S. RACINE R.	1966AJ.....71..990V 1968AJ.....73..233R	Van den Bergh	*(d)*
vdB	*use [V64]*	OB NNN	.	OB Ass. in M 31	[V64]	.	VAN DEN BERGH S.	1964ApJS....9...65V	van den Bergh	
vdB	*eq. VdB*	NNN	.	RFN	-	1966V1 A	VAN DEN BERGH S.	1966AJ.....71..990V	van den Bergh	
vdB	*eq. VdB*	NNNa	.	* in RFN	VDB	1966V1+	VAN DEN BERGH S.	.	van den Bergh	
VDBG		NNN	191	Spiral G	VDBG	1989V2	VAN DEN BERGH S.	1989AJ.....97.1556V	Van Den Bergh, G	

(a) VCC = BST
(b) Vd1- = Vd 1-
(c) VdB = VDB = vdB
(d) VdB = (SRN) = VDB = vdB

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
VDBH	*eq. VdBH*	NN	.	RFN	VDBH	1975V1 A	VAN DEN BERGH S.+	1975AJ.....80..208V	Authors' initials	
VDBH	*eq. VdBH*	NNa NNa'	.	* in RFN	VDBH	1975V1+	VAN DEN BERGH S.+	.	Authors' initials	
VdBH		NN	93	RFN	VDBH	1975V1 A	VAN DEN BERGH S.+	1975AJ.....80..208V	Authors' initials	*(a)*
VdBH		NNa NNa'	212	* in RFN	VDBH	1975V1 A 1975V1 B 1975V1 C	VAN DEN BERGH S.+ HERBST W. GAHM G.F.+	1975AJ.....80..208V 1975AJ.....80..212H 1980A&A....82..295G	Authors' initials	*(b)*
vdBH	*eq. VdBH*	NN	.	RFN	VDBH	1975V1 A	VAN DEN BERGH S.+	1975AJ.....80..208V	Authors' initials	
vdBH	*eq. VdBH*	NNa NNa'	.	* in RFN	VDBH	1975V1+	VAN DEN BERGH S.+	.	Authors' initials	
Ve	*use Ve3-*	NN	4	PN	VE 3-	1957V2	VELGHE A.G.	1957ApJ...126..302V	Author's name	PN Nmcl
Ve	*use Ve6-*	NN	1	PN	VE 6-	1957V2	VELGHE A.G.	1957ApJ...126..302V	Author's name	PN Nmcl
Ve	*use Ve7-*	NN	2	PN	VE 7-	1957V2	VELGHE A.G.	1957ApJ...126..302V	Author's name	PN Nmcl
Ve1-		NN	31	Em. *	VE 1-	1957V2	VELGHE A.G.	1957ApJ...126..302V	Author's name, table 1	*(c)*
Ve2-		NN	27	Em. *	VE 2-	1957V2	VELGHE A.G.	1957ApJ...126..302V	Author's name, table 2	*(d)*
Ve3-		NN	4	PN	VE 3-	1957V2	VELGHE A.G.	1957ApJ...126..302V	Author's name, table 3	*(e)*

(a) VdBH = (VBH) = (vBH) = VDBH = vdBH = (VHE)
(b) VdBH = (Herbst) = (SRN) = (SRNH) = (VBH) = (vBH) = VDBH = vdBH = (VHE)
(c) Ve1- = VE 1-
Table 1: (Nos 1-31) near M8 and M20
(d) Ve2- = VE 2-
Table 2: (Nos 32-58) near M8 and M20
(e) Ve3- = (Ve) = VE 3-
Table 3: (Nos 59-62) near M8 and M20

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
Ve4-		NN	4	Red *	`VE 4-`	`1957V2`	VELGHE A.G.	`1957ApJ...126..302V`	Author's name, table 4	*(a)*
Ve5-		NN	10	Em. *	`VE 5-`	`1957V2`	VELGHE A.G.	`1957ApJ...126..302V`	Author's name, table 5	*(b)*
Ve6-		NN	15	Em. * + 1PN	`VE 6-`	`1957V2`	VELGHE A.G.	`1957ApJ...126..302V`	Author's name, table 6	No. 22 is a PN *(c)*
Ve7-		NN	2	PN	`VE 7-`	`1957V2`	VELGHE A.G.	`1957ApJ...126..302V`	Author's name, table 7	*(d)*
VE 1-	*eq. Ve1-*	NN	.	Em. *	`VE 1-`	`1957V2`	VELGHE A.G.	`1957ApJ...126..302V`	Author's name, table 1	
VE 2-	*eq. Ve2-*	NN	.	Em. *	`VE 2-`	`1957V2`	VELGHE A.G.	`1957ApJ...126..302V`	Author's name, table 2	
VE 3-	*eq. Ve3-*	NN	.	PN	`VE 3-`	`1957V2`	VELGHE A.G.	`1957ApJ...126..302V`	Author's name, table 3	
VE 4-	*eq. Ve4-*	NN	.	Red *	`VE 4-`	`1957V2`	VELGHE A.G.	`1957ApJ...126..302V`	Author's name, table 4	
VE 5-	*eq. Ve5-*	NN	.	Em. *	`VE 5-`	`1957V2`	VELGHE A.G.	`1957ApJ...126..302V`	Author's name, table 5	
VE 6-	*eq. Ve6-*	NN	.	Em. * + PN	`VE 6-`	`1957V2`	VELGHE A.G.	`1957ApJ...126..302V`	Author's name, table 6	

(a) Ve4- = VE 4-
Table 4: (Nos 63-66) near M8 and M20
(b) Ve5- = VE 5-
Table 5: (Nos 1-10) in Vela
(c) Ve6- = (Ve) = VE 6-
Table 6: (Nos 11-25) in Vela
(d) Ve7- = (Ve) = VE 7-
Table 7: (Nos 26 and 27) in Vela

Acronym	Usage	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
VE 7-	*eq. Ve7-*	NN	.	PN	VE 7-	1957V2	VELGHE A.G.	1957ApJ...126..302V	Author's name, table 7	
Vel	*use VelC*	NN	.	Carbon *	-	1989A1	AARONSON M.+	1989ApJS...70..637A	Vela	
VelC		NN	70	Carbon *	-	1989A1	AARONSON M.+	1989ApJS...70..637A	Vela, Carbon *	*(a)*
VERA		NNN	2	Poss. PN	-	1980V1	VEGA E.I.+	1980AJ.....85.1207V	Two first authors' names	*(b)*
VES		NNN	977	Em. *	EM* VES	1974C1 A 1974C1 B 1974C1 C 1974C1 D 1974C1 E 1974C1 F 1974C1 G	COYNE G.V.+ COYNE G.V.+ WISNIEWSKI W.+ WISNIEWSKI W.+ COYNE G.V.+ MacCONNELL D.J.+ COYNE G.V.+	1974VatOP...1..181C 1975VatOP...16.197C 1976VatOP...18.225W 1976VatOP...1B.245W 1978VatOP...1C.257C 1983VatOP..15...63M 1983VatOP...2...73C	Vatican obs., Em. *	*(c)*
VGF		NN	64	(Rad)	-	1990V1	VENTURI T.+	1990AJ.....99.1381V	Authors' initials	
VHE	*use VdBH*	NN	.	RFN	VDBH	1975V1 A	VAN DEN BERGH S.+	1975AJ.....80..208V	Authors' names	
VHE	*use VdBH*	NNa NNa'	.	* in RFN	VDBH	1975V1+	VAN DEN BERGH S.+	.	Authors' names	
VKDA	*use V-V3-*	N	.	PN	PN V-V 3-	.	VORONTSOV-V. B.A.+	1972ATsir.716....7V	Authors' initials	
VKDA	*use V-V Anon*	N	.	PN	-	.	VORONTSOV-V. B.A.	1975SvA....19..163V	Authors' initials	
VLSB		AFFF-VNN	140	G	-	. .	SCHOMBERT J.M.+ SCHOMBERT J.M.+	1988AJ.....95.1389S 1992AJ....103.1107S	V prefix, Low-Surface Brightness	*(d)*

(a) VelC = (Vel)
(b) VERA VERA 90 = VRMF 90 = PK 336-01 1 ; VERA 104 = VRMF 104 = PK 336-02 1
(c) VES Nos 420-595 are missing. Total number of objects N = 801, among which 341 not previously known (ℓ = 58 to 174°, $|b|$ ¡ 5°.
Hα emission is confirmed in only 600 objects (303 in ref. 1974C1 F, and 297 in ref. 1974C1 G))// Some objects are PN (ref. 1992AO): in ref. 1974C1 F named MaCCo, and in ref. 1974C1 G named CoMaC
(d) VLSB = LSB
In the format AFFF is the plate field identif.: letter F + a number (FFF), V is a prefix for the secondary catalogue (primary catalogue = LSB).

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
vM	*use vMo*	NN	.	Pair of G *L -	NAME vMo	.	VAN MOORSEL G.A.	1987A&A...176...13V	van Moorsel	
vMa		N	2	*	NAME vMa	.	-	.	van Maanen	*(a)*
vMo		NN	16	Pair of G *L -	NAME vMo	.	VAN MOORSEL G.A.	1987A&A...176...13V	van Moorsel	Table 3 *(b)*
Vo		N	4	PN	-	.	VOLK K.	.	Author's name	PN Nmcl *(c)*
Von Zeipel		NNNN	1571	* in GCl	NGC 5272	1908V1	VON ZEIPEL M.H.	1908AnPar.......25V	Author's name	*(d)*
VR	*eq. VRO*	DD.HH.NN	.	(Rad)	VRO	1965M1+	MacLEOD J.M.+	.	Vermillion River obs.	
VR		N N-N	7+25	(IR)	-	.	MONETI A.+	1992MNRAS.258..705M	Very Red	*(e)*
VRMF		NNN	124	Em. *	EM* VRMF	1980V1	VEGA E.I.+	1980AJ.....85.1207V	Authors' initials	
VRO		NN	69	(Rad)	VRO	1964Y1	YANG K.S.+	1964AJ.....69..246Y	Vermillion River Obs.	*(f)*
VRO		DD.HH.NN	1591	(Rad)	VRO	1965M1 A 1965M1 B 1965M1 C 1965M1 D 1965M1 E	MacLEOD J.M.+ DICKEL J.R.+ WENDKER H.J.+ DICKEL J.R.+ WEBB H.D.+	1965AJ.....70..756M 1967AJ.....72..757D 1970AJ.....75..148W 1971AJ.....76..294D 1971AJ.....76..223W	Vermillion River Obs.	*(g)*
VS	*eq. VSSG*	NN	.	(IR) in ρ Oph DCld	VSSG	1975V4	VRBA F.J.+	1975ApJ...197...77V	Two first authors' initials	
VS		NNN	116	(X) in M 31	C84	1984C1	CRAMPTON D.+	1984ApJ...284..663C	Discoverer's name: Van Speybroeck	*(h)*

(a) vMa		only star quoted: vMa 2 = GJ 35 = Wolf 28 = van Maanen's star ; this star is a white dwarf with large proper motion ; Use GJ 35
(b) vMo	=	(vM)
(c) Vo		1988, private communication
(d) Von Zeipel	=	V.Z. = v.Z.
(e) VR		VR (Nos 1-7) are cross-identif. with IRAS, VR N-N are sources in each IRAS
(f) VRO	=	(Y) = YW)
(g) VRO	=	VR
(h) VS	=	C84 = CRX

Acronym	Usage	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
VSF		FFF	2	Field of V *	-	1978G1	GRAYZECK E.J.	1978AJ.....83.1390G	Variable * Field	
VSS	*use VSST*	NN	.	(IR) in CrA DCld	VSST	1976V1	VRBA F.J.+	1976AJ.....81..317V	Authors' names	
VSS		R-NNN	-	* in 5 DCld	VSS	1976V2 A 1976V2 B 1976V2 C	VRBA F.J.+ VRBA F.J.+ VRBA F.J.+	1976AJ.....81..958V 1981ApJ...243..489V 1993AJ....105.1010V	Authors' initials	*(a)*
VSSG		NN	31	(IR) in ρ Oph DCld	VSSG	1975V4	VRBA F.J.+	1975ApJ...197...77V	Authors' initials	*(b)*
VSST		NN	18	(IR) in CrA DCld	VSST	1976V1	VRBA F.J.+	1976AJ.....81..317V	Authors' names	*(c)*
VV		NNN	≃ 500	V *	SV* VV	.	-	.	Vatican obs., Variable *	V * Nmcl
VV		NNN	288	PN	PN VV	.	VORONTSOV-V. B.A.	1934AZh....11...40V	Vorontsov-Vel'jaminov	PN Nmcl *(d)*
VV	*eq. IGVV*	NNN	.	IG	p IG VV	1970V1 A	VORONTSOV-V. B.A.	.	Vorontsov-Vel'jaminov	
[VV92]		NNN	190	G	[VV92]	. .	VISVANATHAN N.+ VISVANATHAN N.	1992AJ....103.1057V 1992AJ....103.1501V	Authors' initials, 1992	
VV'		NNN	584	PN	PN VV'	.	VORONTSOV-V. B.A.	.	Vorontsov-Vel'jaminov	PN Nmcl *(e)*
VV1-	*eq. V-V1-*	N	.	H II	-	1961V2	VORONTSOV-V. B.A.	1961SvA.....5..278V	Vorontsov-Vel'jaminov, list 1	

(a) VSS The ref. 1976V2 A contains 5 lists, the table number must be included in the numbering. For instance the VSS obj. in CrA are named VSS VIII- .
The list VSS VIII- is continued in ref. 1976V2 B (N = 97)
The list VSS II- is continued in ref. 1976V2 C (N = 153)

(b) VSSG = VS
All the designations: GSS, SSV (ref. 1976S5), STSV (ref. 1976S8), StVS (ref. 1976S6), SVS (ref. 1976S6 and 1976S9), VS (ref. 1975V4), VSS (ref. 1976V1 and 1976V2), VSSG (ref. 1975V4), VSST (ref. 1976V1) are formed from Grasdalen, Strom, Strom and Vrba authors' initials or names combinations for (IR) sources or stars in different dark clouds. This is highly confusing. The designation should explicitly quote the reference, the dark cloud studied and (or) whether it is an (IR) source or a visible star.

(c) VSST = (VSS)
See the remark for VSSG

(d) VV Nos 13, 25, 145, 183, 187, 200, 231, 271, 277, 280, 282, 283 are not compiled as PN in ref. 1967PK F

(e) VV' Nos 19, 36, 57, 100, 106, 188, 337, 408, 416, 437, 517, 566, 570, 572, 573, 582 are not compiled as PN in ref. 1967PK F

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
VV1-	*eq. V-V1-*	N	.	PN	`PN V-V 1-`	`1961V2`	VORONTSOV-V. B.A.	`1961SvA.....5..278V`	Vorontsov-Vel'jaminov, list 1	
V-V	*use V-V1-*	N	.	H II	-	`1961V2`	VORONTSOV-V. B.A.	`1961SvA.....5..278V`	Vorontsov-Vel'jaminov, list 1	
V-V	*use V-V1-*	N	.	PN	`PN V-V 1-`	`1961V2`	VORONTSOV-V. B.A.	`1961SvA.....5..278V`	Vorontsov-Vel'jaminov, list 1	
V-V1-		N	3	H II	-	`1961V2`	VORONTSOV-V. B.A.	`1961SvA.....5..278V`	Vorontsov-Vel'jaminov, list 1	*(a)*
V-V1-		N	6	PN	`PN V-V 1-`	`1961V2`	VORONTSOV-V. B.A.	`1961SvA.....5..278V`	Vorontsov-Vel'jaminov, list 1	*(b)*
V-V2-		.		?	-				Vorontsov-Vel'jaminov, list 2	*(c)*
V-V3-		N	6	PN	`PN V-V 3-`	.	VORONTSOV-V. B.A.+	`1972ATsir.716....7V`	First author's initials	*(d)*
V-V 1-	*eq. V-V1-*	N	.	PN	`PN V-V 1-`	`1961V2`	VORONTSOV-V. B.A.	`1961SvA.....5..278V`	Vorontsov-Vel'jaminov, list 1	
V-V 3-	*eq. V-V3-*	N	.	PN	`PN V-V 3-`	.	VORONTSOV-V. B.A.+	`1972ATsir.716....7V`	First author's initials	
V-V Anon		N	3	PN	-	.	VORONTSOV-V. B.A.	`1975SvA....19..163V`	First author's initials, Anonymous	PN Nmcl *(e)*
VVD		NNWW	62	IRAS G	`VVD`	`1991V1 A` `1991V1 B`	VAN DEN BROEK A.C.+ VAN DRIEL W.+	`1991A&AS...91...61V` `1991A&AS...90...55V`	Three first authors' first initials	
VVKDA	*use V-V3-*	N	.	PN	`PN V-V 3-`	.	VORONTSOV-V. B.A.+	`1972ATsir.716....7V`	Authors' initials	
VVKDA	*use V-V Anon*	N	.	PN	-	.	VORONTSOV-V. B.A.	`1975SvA....19..163V`	Authors' initials	

(a) V-V1- = (V-V) = V-V 1- = VV1-
(b) V-V1- = (V-V) = V-V 1- = VV1-
(c) V-V2- not used. Catalog name
(d) V-V3- = V-V 3- = (VKDA) = (VVKDA)
Acronym VVKDA introduced in ref. 1967PK C (1977) while Kohoutek (ref. 1967PK G, same year 1977) uses V-V3-
(e) V-V Anon = (VKDA) = (VVKDA)

Acronym	Usage	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
VVO		NNN	376	PM *	VVO	1968G1 A	GROSSENBACHER R.+	1968AJ.....73..744G	Van Vleck Obs.	*(a)*
						1968G1 B	MESROBIAN W.S.+	1969AJ.....74..752M		
						1968G1 C	UPGREN A.R.+	1970AJ.....75..319U		
						1968G1 D	KERRIDGE S.J.+	1971AJ.....76...77K		
						1968G1 E	UPGREN A.R.+	1971AJ.....76...77K		
						1968G1 F	MESROBIAN W.S.+	1971AJ.....76.1133M		
						1968G1 G	MESROBIAN W.S.+	1972AJ.....77..392M		
						1968G1 H	TITTER J.C.+	1972AJ.....77..875T		
						1968G1 I	UPGREN A.R.+	1974AJ.....79..708U		
						1968G1 J	UPGREN A.R.+	1975AJ.....80..711U		
						1968G1 K	BURT S.E.+	1976AJ.....81..551B		
						1968G1 L	WEIS E.W.+	1976AJ.....81.1144W		
						1968G1 M	UPGREN A.R.+	1980AJ.....85...71U		
						1968G1 N	BREAKIRON L.A.+	1982AJ.....87..141B		
						1968G1 O	UPGREN A.R.+	1983AJ.....88..132U		
						1968G1 P	WEIS E.W.+	1983AJ.....88.1515W		
						1968G1 Q	UPGREN A.R.+	1985AJ.....90..652U		
						1968G1 R	UPGREN A.R.+	1989AJ.....98.1100U		
						1968G1 S	UPGREN A.R.+	1992AJ....104.1203U		
Vy1-		N	1	*	-	.	VYSSOTSKY A.N.	1942PASP...54..152V	Author's name, list 1	= Vy1-3 *(b)*
Vy1-		N	3	PN	PN Vy 1-	.	VYSSOTSKY A.N.	1942PASP...54..152V	Author's name, list 1	*(c)*
Vy2-		N	3	PN	PN Vy 2-	.	VYSSOTSKY A.N.+	1945PASP...57..314V	Author's name, list 2	Nos 2, 3, 11; PN Nmcl *(d)*
Vy 1-	*eq. Vy1-*	N	.	PN	PN Vy 1-	.	VYSSOTSKY A.N.	1942PASP...54..152V	Author's name, list 1	
Vy 2-	*eq. Vy2-*	N	.	PN	PN Vy 2-	.	VYSSOTSKY A.N.+	1945PASP...57..314V	Author's name, list 2	
VYS	*use MCC*	NNN	.	M *	MCC	1943V1+	VYSSOTSKY A.N.	.	Author's name	
VYSM	*use MCC*	NNN	.	M *	MCC	1943V1+	VYSSOTSKY A.N.	.	Author's name, M *	
VYSSO-M	*use MCC*	NNN	.	M *	MCC	1943V1+	VYSSOTSKY A.N.	.	Author's name, M *	

(a) VVO = (Upgren)
(b) Vy1- = Vy 1-
(c) Vy1- = Vy 1-
Vy1-1 = PN G118.0-08.6 = PK 118-08 1 ; Vy1-2 = PN G053.3+24.0 = PK 053+24 1 ; Vy1-4 = PN G027.4-03.5 = PK 027-03 2 .
(d) Vy2- = Vy 2-

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
VYSSO.M	*use MCC*	NNN	.	M *	`MCC`	`1943V1+`	VYSSOTSKY A.N.	.	Author's name, M *	
V.Z.	*eq. Von Zeipel*	NNNN	.	* in GCl	`NGC 5272`	`1908V1`	VON ZEIPEL M.H.	`1908AnPar.......25V`	Von Zeipel	
v.Z.	*eq. Von Zeipel*	NNNN	.	* in GCl	`NGC 5272`	`1908V1`	VON ZEIPEL M.H.	`1908AnPar.......25V`	von Zeipel	
V ZW	*eq. 5Zw*	NNNa	.	G	`ZW V`	`1971Z1 A`	ZWICKY F.+	.	Zwicky, list V (roman num.)	
VI ZW	*eq. 6Zw*	NNNa	.	G	`ZW VI`	`1971Z1 A`	ZWICKY F.+	.	Zwicky, list VI (roman num.)	
VII ZW	*eq. 7Zw*	NNNa	.	G	`ZW VII`	`1971Z1 A`	ZWICKY F.+	.	Zwicky, list VII (roman num.)	
VIII ZW	*eq. 8Zw*	NNNa	.	G	`ZW VIII`	`1971Z1 B`	ZWICKY F.+	`1975AJ.....80..545Z`	Zwicky, list VIII (roman num.)	
1W		HHMM+DDWN	83	(Rad)	-	.	KATGERT P.+	`1973A&A....23..171K`	Westerbork radio telescope, list 1	Old format. Not used *(a)*
2W		HHMM+DDWNA	58	(Rad)	-	.	KATGERT P.	`1974A&A....35..393K`	Westerbork radio telescope, list 2	Old format. Not used *(b)*
3W		HHMM+DDWNA	238	(Rad)	-	.	KATGERT P.+	`1975A&A....38...87K`	Westerbork radio telescope, list 3	Old format. Not used *(c)*
4W		HHMM+DDWNa	109	(Rad)	-	.	JAFFE W.J.+	`1975A&AS...21..137J`	Westerbork radio telescope, list 4	Old format. Not used *(d)*
5W		HHMM+DDWN	130	(Rad)	-	.	VAN VLIET W.+	`1976A&A....47..345V`	Westerbork radio telescope, list 5	Old format. Not used *(e)*
6W		HHMM+DDWNN	1075	(Rad)	-	.	WILLIS A.G.+	`1976A&AS...25..453W`	Westerbork radio telescope, list 6	Old format. Not used *(f)*

(a) 1W Modified Parkes format. W in the format for Westerbork
(b) 2W Modified Parkes format. W in the format for Westerbork
(c) 3W Modified Parkes format. W in the format for Westerbork
(d) 4W Modified Parkes format. W in the format for Westerbork
(e) 5W Modified Parkes format. W in the format for Westerbork
(f) 6W Modified Parkes format. W in the format for Westerbork

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
7W		HHMM+DDWNN	27	(Rad)	-	.	JAFFE W.J.+	1976A&A....49..179J	Westerbork radio telescope, list 7	Old format. Not used *(a)*
10W		NNN	249	(Rad)	WSTB 10W	1977H3	HARRIS D.E.+	1977A&A....60...27H	Westerbork radio telescope, list 10	
12W		NN	37	(Rad)	WSTB 12W	1977G5	GOSS W.M.+	1977A&A....61...93G	Westerbork radio telescope, list 12	
13W		NNN	341	(Rad)	WSTB 13W	1978H1 1986B3	HARRIS D.E.+ BROTEN N.W.+	1978A&AS...34..117H 1986A&AS...64..499B	Westerbork radio telescope, list 13	
14W		NNNA	145	(Rad)	WSTB 14W	1980H2	HARRIS D.E.+	1980A&AS...39..215H	Westerbork radio telescope, list 14	
15W		NN	12	(Rad)	WSTB 15W	.	KOTANYI C.G.	.	Westerbork radio telescope, list 15	PhD Thesis, 1980
16W		NNA	11	(Rad)	WSTB 16W	1979K3	KOTANYI C.G.	1979A&A....74..156K	Westerbork radio telescope, list 16	
17W		NN	12	(Rad)	WSTB 17W	1979G1	GAVAZZI G.	1979A&A....72....1G	Westerbork radio telescope, list 17	
18W		NN	24	(Rad)	WSTB 18W	1980G3	GAVAZZI G.+	1980A&A....84..228G	Westerbork radio telescope, list 18	
19W		NNN	123	(Rad)	WSTB 19W	1979W1	WOUTERLOOT J.G.A.+	1979A&AS...36..323W	Westerbork radio telescope, list 19	*(b)*
20W		NN	33	(Rad)	WSTB 20W	1979P1	PEROLA G.C.+	1979A&A....73...54P	Westerbork radio telescope, list 20	
21W		NN	43	(Rad)	WSTB 21W	1979W2	WILLIS A.G.+	1979A&AS...37..397W	Westerbork radio telescope, list 21	
22W		NN	50	(Rad)	WSTB 22W	1979G2	GISLER G.R.+	1979A&A....76..109G	Westerbork radio telescope, list 22	

(a) 7W Modified Parkes format. W in the format for Westerbork
(b) 19W 19W32 = PN G359.2+01.2 = PK 359+01 3 ; 19W43 is a poss. PN in ref. 1992AO

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
23W		NN	90	(Rad)	WSTB 23W	1980H3	HUMMEL E.	1980A&A....81..316H	Westerbork radio telescope, list 23	
24W		NN	14	(Rad)	WSTB 24W	1980V2	VIALLEFOND F.+	1980A&A....82..207V	Westerbork radio telescope, list 24	
26W		NNA	60	(Rad)	WSTB 26W	1980H4	HARRIS D.E.+	1980A&A....90..283H	Westerbork radio telescope, list 26	
27W		NNN	220	(Rad)	WSTB 27W	1980V3	VALENTIJN E.A.	1980A&A....89..234V	Westerbork radio telescope, list 27	
28W		NN	56	(Rad)	WSTB 28W	1980M3	MATTHEWS H.E.+	1980A&A....88..267M	Westerbork radio telescope, list 28	
29W		NN	40	(Rad)	WSTB 29W	1980K2	KOTANYI C.G.	1980A&AS...41..421K	Westerbork radio telescope, list 29	
30W		NN	41	(Rad)	WSTB 30W	1980K2	KOTANYI C.G.	1980A&AS...41..421K	Westerbork radio telescope, list 30	
31W		NN	34	(Rad)	WSTB 31W	1980K2	KOTANYI C.G.	1980A&AS...41..421K	Westerbork radio telescope, list 31	
32W		NN	68	(Rad)	WSTB 32W	1981F2	FANTI C.+	1981A&AS...43....1F	Westerbork radio telescope, list 32	
33W		NN	22	(Rad)	WSTB 33W	1982H3	HABING H.J.+	1982A&A...108..412H	Westerbork radio telescope, list 33	
35W		NN	60	(Rad)	WSTB 35W	1981I2	ISAACMAN R.	1981A&AS...43..405I	Westerbork radio telescope, list 35	
36W		NNN	392	(Rad)	WSTB 36W	1984B2	BYSTEDT J.E.V.+	1984A&AS...56..245B	Westerbork radio telescope, list 36	
37W		NNN	249	(Rad)	WSTB 37W	1985W2	WALTERBOS R.A.M.+	1985A&AS...61..451W	Westerbork radio telescope, list 37	
38W		NN	33	(Rad)	WSTB 38W	1980G4	GOSS W.M.+	1980JApA....1..189G	Westerbork radio telescope, list 38	

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
39W		NN	26	(Rad)	WSTB 39W	1982H4	HARRIS D.E.+	1982A&A...111..299H	Westerbork radio telescope, list 39	
40W		NN	30	(Rad)	WSTB 40W	1981H1	HARTEN R.H.+	1981A&A...103...50H	Westerbork radio telescope, list 40	
41W		NNN	202	(Rad)	WSTB 41W	1985K1	KARTGERT-MERKELIJN J.+	1985A&AS...61..517K	Westerbork radio telescope, list 41	
42W		NNN	183	(Rad)	WSTB 42W	1985K1	KARTGERT-MERKELIJN J.+	1985A&AS...61..517K	Westerbork radio telescope, list 42	
43W		NN	87	(Rad)	WSTB 43W	1985K1	KARTGERT-MERKELIJN J.+	1985A&AS...61..517K	Westerbork radio telescope, list 43	
44W		NNN	216	(Rad)	WSTB 44W	1985K1	KARTGERT-MERKELIJN J.+	1985A&AS...61..517K	Westerbork radio telescope, list 44	
45W		NN	86	(Rad)	WSTB 45W	1983M4	MATTHEWS H.E.+	1983A&A...126..433M	Westerbork radio telescope, list 45	
46W		NN	25	(Rad)	WSTB 46W	1983M4	MATTHEWS H.E.+	1983A&A...126..433M	Westerbork radio telescope, list 46	
47W		NN	27	(Rad)	WSTB 47W	1982B3	BIJLEVELD W.+	1982A&A...111...50B	Westerbork radio telescope, list 47	
48W		NN	23	(Rad)	WSTB 48W	1982P3	PAULS T.	1982A&A...112..120P	Westerbork radio telescope, list 48	
49W		HHMM+DDWNA	111	(Rad)	-	.	WILSON A.S.+	1982A&AS...47..601W	Westerbork radio telescope, list 49	Old format. Not used *(a)*
50W		NN	10	(Rad)	WSTB 50W	1983B1	BOSMA A.+	1983A&AS...54..387B	Westerbork radio telescope, list 50	
51W		NN	21	(Rad)	WSTB 51W	1984B4	BROSCH N.+	1984A&A...132...80B	Westerbork radio telescope, list 51	

(a) 49W Modified Parkes format. W in the format for Westerbork

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
52W		NN	58	(Rad)	WSTB 52W	1984W2	WINDHORST R.A.+	1984A&AS...58....1W	Westerbork radio telescope, list 52	
53W		NN	92	(Rad)	WSTB 53W	1984W2	WINDHORST R.A.+	1984A&AS...58....1W	Westerbork radio telescope, list 53	
54W		NN	90	(Rad)	WSTB 54W	1984W2	WINDHORST R.A.+	1984A&AS...58....1W	Westerbork radio telescope, list 54	
55W		NNN	231	(Rad)	WSTB 55W	1984W2	WINDHORST R.A.+	1984A&AS...58....1W	Westerbork radio telescope, list 55	
56W		NNN	$\simeq$ 140	(Rad)	WSTB 56W	.	WINDHORST R.A.	.	Westerbork radio telescope, list 56	PhD Thesis, 1984
57W		NNN	$\simeq$ 140	(Rad)	WSTB 57W	.	WINDHORST R.A.	.	Westerbork radio telescope, list 57	PhD Thesis, 1984
58W		NNN	$\simeq$ 120	(Rad)	WSTB 58W	.	WINDHORST R.A.	.	Westerbork radio telescope, list 58	PhD Thesis, 1984
59W		NNN	$\simeq$ 280	(Rad)	WSTB 59W	.	WINDHORST R.A.	.	Westerbork radio telescope, list 59	PhD Thesis, 1984
60W		NNNa	123	(Rad)	WSTB 60W	1985O1	OORT M.J.A.+	1985A&A...145..405O	Westerbork radio telescope, list 60	
61W		NN	41	(Rad)	WSTB 61W	1984G3	GOSS W.M.+	1984A&A...138..469G	Westerbork radio telescope, list 61	
62W		NN	12	(Rad)	WSTB 62W	1986V1	VELUSAMY T.+	1986JApA....7..105V	Westerbork radio telescope, list 62	
63W		NN	20	(Rad)	WSTB 63W	1984S1	SPOELSTRA T.A.Th.+	1984A&A...135..135S	Westerbork radio telescope, list 63	
64W		NNN	397	(Rad)	WSTB 64W	1988O2	OORT M.J.A.+	1988A&AS...73..103O	Westerbork radio telescope, list 64	
65W		NNN	349	(Rad)	WSTB 65W	1987O1	OORT M.J.A.	1987A&AS...71..221O	Westerbork radio telescope, list 65	
66W		NN	69	(Rad)	WSTB 66W	1987O2	OORT M.J.A.+	1987A&AS...71...25O	Westerbork radio telescope, list 66	

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
67W		NNA	71	(Rad)	WSTB 67W	1987O2	OORT M.J.A.+	1987A&AS...71...25O	Westerbork radio telescope, list 67	
69W		NNNN	1199	(Rad)	WSTB 69W	.	WIERINGA M.	.	Westerbork radio telescope, list 69	PhD Thesis, 1992
70W		NNN	595	(Rad)	WSTB 70W	.	WIERINGA M.	.	Westerbork radio telescope, list 70	PhD Thesis, 1992
71W		NN	26	(Rad)	WSTB 71W	1987B1	BAARS J.W.M.+	1987A&A...181..210B	Westerbork radio telescope, list 71	
72W		NNN	167	(Rad)	WSTB 72W	.	OORT M.J.A.+	.	Westerbork radio telescope, list 72	PhD Thesis. p. 47, 1987
73W		NNN	308	(Rad)	WSTB 73W	1988R2	RIGHETTI G.+	1988A&AS...74..315R	Westerbork radio telescope, list 73	
74W		NN	25	(Rad)	WSTB 74W	1990V1	VENTURI T.+	1990AJ.....99.1381V	Westerbork radio telescope, list 74	
75W		NNN	806	(Rad)	WSTB 75W	.	WIERINGA M.	.	Westerbork radio telescope, list 75	PhD Thesis, 1992
76W		NNN	851	(Rad)	WSTB 76W	.	WIERINGA M.	.	Westerbork radio telescope, list 76	PhD Thesis, 1992
W	*use WALK*	NNN	.	* in Cluster	NGC 2264	1956W1	WALKER M.F.	1956ApJS....2..365W	Walk	
W		NN	82	(Rad)	W	1958W1	WESTERHOUT G.	1958BAN....14..215W	Westerhout	
W	*use WEIS*	NNNNN	.	Faint Blue * near NGP	Weis	1973W3+	WEISTROP D.	.	Weistrop	
W	*use Wolf*	NNNN	.	*	WOLF	1919W1	WOLF M.	1919VeHei...7...10W	Wolf	
W	*use Wilson*	NNNNN	.	*	GCRV	1953W1	WILSON R.E.	.	Wilson	
W	*use WRAY 15-*	NNNN	.	Em. * (53PN)	WRAY 15	1966W2	WRAY J.D.	.	Wray	
W	*use Woolley*	9NNNA	.	*	GJ	1970W3	WOOLLEY R.v.d.R.+	1970ROAn.........5W	Woolley	

Acronym	Usage	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
W	*use WBP*	NNN	.	V * in LMC	-	1985W1	WOOD P.R.+	1985ApJ...290..477W	Wood	
W61		FF-NNN	≃ 450	* in LMC	-	1961W2 .	WESTERLUND B.	1961UppAn...5....1W .	Westerlund, 1961	(a)
Walb	*eq. WB*	N	.	O * in 30 Dor	NAME WALBORN	1987W1	WALBORN N.R.+	1987ApJ...323..L65W	First author's name	
WALBORN	*eq. WB*	N	.	O * in 30 Dor	NAME WALBORN	1987W1	WALBORN N.R.+	1987ApJ...323..L65W	First author's name	
WALK		NNN	239	* in Cluster	NGC 2264	1956W1	WALKER M.F.	1956ApJS....2..365W	Author's name	(b)
Walker	*eq. WALK*	NNN	.	* in Cluster	NGC 2264	1956W1	WALKER M.F.	1956ApJS....2..365W	Author's name	
WAMS		NNN	550	* in & betw. MC	WAMS	1980W2	WAMSTEKER W.	1981A&AS...43..127W	Author's name	
WAS		NN	96	Em. G	WAS	1983W1 A 1983W1 B	WASILEWSKI A.J. BOTHUN G.D.+	1983ApJ...272...68W 1989ApJS...70..271B	Author's name	
Wat		N	7	OCl	Cl Waterloo	1979M2 A 1979M2 B 1979M2 C	MOFFAT A.F.J.+ FITZGERALD M.P.+ FITZGERALD M.P.+	1979A&AS...38..197M 1979A&AS...37..351F 1980MNRAS.193..761F	Warterloo univ. (Canada)	C Nmcl (c)
Waterloo	*eq. Wat*	N	.	OCl	Cl Waterloo	1979M2+	MOFFAT A.F.J.+	.	Waterloo university (Canada)	
WB	*use CTB*	NNN	.	(Rad)	CTB	1960W1	WILSON R.W.+	1960PASP...72..331W	Authors' initials	

(a) W61 Tables 3-28 (each beginning with No. 1) describe B and V measurements of individual stars in regions a to e (fig. 1) which are parts of 30 Dor, 30 Dor W (= Shapley II), and Shapley III. FF in the format means table number
In Simbad for NGC 1983, 1984, 1994, 2001, 2004, 2011, 2014, 2021, 2074, 2081, 2092, 2100, the acronym will be:
Cl* NGC NNNN WES

(b) WALK = (W) = Walker

(c) Wat = Waterloo

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
WB		N	2	O * in 30 Dor	`NAME WALBORN`	`1987W1`	WALBORN N.R.+	`1987ApJ...323..L65W`	Authors' initials	*(a)*
WBP		NNN	62/232	V * in LMC	-	`1985W1`	WOOD P.R.+	`1985ApJ...290..477W`	Authors' initials	*(b)*
WD		HHMM+DDA HHMM+DDdA	560	WD	`WD`	`1977MS A` `1977MS B`	MacCOOK G.P.+ LIEBERT J.+	`1977VilCo...2.....C` `1980PASP...92..657L`	White Dwarf	
WD		HHMM+DDdA	≃ 1500	WD	`WD`	`1984MS`	MacCOOK G.P.+	`1984VilCo...3....1M`	White Dwarf	
WD		HHMM+DDd	1279	WD	`WD`	`1987MS`	MacCOOK G.P.+	`1987ApJS...65..603M`	White Dwarf	
WDHS	*eq. WeDe*	N	.	PN	-	.	WEINBERGER R.+	`1983ApJ...265..249W`	Authors' initials	
WDM	*eq. Weedman*	N	.	BSO	-	`1971W1`	WEEDMAN D.W.	`1971ApL.....9...49W`	Author's name	
WDS		HHMM.mNDDMM HHMM.mSDDMM JHHMM.mNDDMM JHHMM.mSDDMM	73610	Double *	`p WDS`	`1984WD`	WORLEY C.E.+	.	Washington Univ., Double *	Updates IDS *(c)*
We		NN	74	*	`NAME We`	.	WEAVER W.B.	`1974ApJ...189..263W`	Author's name	We 21 = WR 47a
We		a	6	PN	-	.	WEINBERGER R.	.	Author's name	1982; PN Nmcl
We1-		NN	12	PN	`PN We 1-`	.	WEINBERGER R.	`1977A&AS...30..343W`	Author's name, list 1	PN Nmcl *(d)*
We2-		NNN	6	PN	`PN We 2-`	`1967PK C`	WEINBERGER R.	`1977A&AS...30..335W`	Author's name, list 2	PN Nmcl *(e)*

(a) WB = WALBORN = Walb
(b) WBP = (W)
(c) WDS Formats 1900 coordinates as for IDS, and 2000 coordinates ; Beware! the 2000 coordinates often are incorrectly quoted, with missing J and rounded instead of truncated coordinates, e.g. by Bagnuolo+, 1992AJ.103.1399B : for the star HD 1458, coord. 2000 : α = 04 35 39.2, δ = +10 09 39, they should have written HR 1458 = WDS J04356+1009 instead of WDS 04357+1010.
(d) We1- = We 1-
(e) We2- = We 2-
A "private numbering", only quoted in the 2nd column of ref. 1967PK C for 6 objects, and in Table 1b and 2 of the ref. 1992AM for respectivly 3 and 2 objects.

Acronym	Usage	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
We3-		N	1	PN	PN We 3-	.	WEINBERGER R.	1978Obs....98..137W	Author's name, list 3	(a)
We 1-	eq. *We1-*	NN	.	PN	PN We 1-	.	WEINBERGER R.	1977A&AS...30..343W	Author's name, list 1	
We 2-	eq. *We2-*	NNN	.	PN	PN We 2-	1967PK C	WEINBERGER R.	1977A&AS...30..335W	Author's name, list 2	
We 3-	eq. *We3-*	N	.	PN	PN We 3-	.	WEINBERGER R.	1978Obs....98..137W	Author's name, list 3	
WeDe		N	1	PN	-	.	WEINBERGER R.+	1983ApJ...265..249W	Two first authors' names	(b)
WEE		189	.	QSO	WEE	.	WEEDMAN D.W.	1985ApJS...57..523W	Author's name	
Weedman		N	9	BSO	-	1971W1	WEEDMAN D.W.	1971ApL.....9...49W	Author's name	(c)
WEIG	eq. *Weinberger*	NNN AA	.	G	p WEIG	1980W1+	WEINBERGER R.	.	Author's name	
Weinberger		NNN AA	225	G	p WEIG	1980W1 A 1980W1 B	WEINBERGER R. WEINBERGER R.	1980A&AS...40..123W .	Author's name	(d)
WEIS		NNNNN	269/13820	Faint Blue ∗ near NGP	Weis	1973W3 A 1973W3 B 1973W3 C	WEISTROP D. YOSS K.M.+ YOSS K.M.+	1973A&A....23..215W 1987AJ.....94.1600Y 1989PASP..101..653Y	Author's name	(e)
Weis	eq. *WEIS*	NNNNN	.	Faint Blue ∗ near NGP	Weis	1973W3+	WEISTROP D.	.	Author's name	
WEISTROP	eq. *WEIS*	NNNNN	.	Faint Blue ∗ near NGP	Weis	1973W3+	WEISTROP D.	.	Author's name	

(a) We3- = We 3-
We3-1 = PN G044.3+10.4 = PK 044+10 1
(b) WeDe = WDHS
WDHS 1 = PN G197.4-06.4 = PK 197-06 1
(c) Weedman = WDM
(d) Weinberger = WEIG
(e) WEIS = (W) = Weis = WEISTROP = Weistrop

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
Weistrop	*eq. WEIS*	NNNNN	.	Faint Blue * near NGP	`Weis`	`1973W3+`	WEISTROP D.	.	Author's name	
WEPP	*eq. Woolley*	9NNNA	.	*	`GJ`	`1970W3`	WOOLLEY R.v.d.R.+	`1970ROAn.........5W`	Authors' initials	
WeSa	*eq. WeSb*	N	.	PN	`PN WeSb`	.	WEINBERGER R.+	`1981A&A...100...66W`	Authors' names	
WeSb		N	6	PN	`PN WeSb`	.	WEINBERGER R.+	`1981A&A...100...66W`	Authors' names	PN Nmcl *(a)*
Westerlund		N	2	OCl	`Cl Westerlund`	`1968W1`	WESTERLUND B.E.	`1968ApJ...154L..67W`	Author's name	No. 1 = C 1644-457, No. 2 = C 1022-575
WG		NN	18	Poss. Cluster in SMC	-	`1971W2`	WESTERLUND B.E.+	`1971A&A....10....1W`	Authors' initials	
WG	*eq. Wg*	NN	.	WD	`WG`	`1973W1+`	WEGNER G.	.	Author's name	
Wg		NN	54	WD	`WG`	`1973W1 A` `1973W1 B`	WEGNER G. WEGNER G.	`1973MNRAS.163..381W` `1975MNRAS.171..637W`	Author's name	*(b)*
WH		NNN	526	* in Orion	`WH`	.	WARREN W.H.Jr.+	`1977ApJS...34..115W`	Authors' initials	
WhBe		N	1	Poss. PN	-	.	WHITE R.L.+	`1990MNRAS.244P..12W`	Authors' names	PN Nmcl
WHHW		HHMM.m-DDMM	105	(X) in LMC	-	`1991W2`	WANG Q.+	`1991ApJ...374..475W`	Authors' initials	*(c)*
WHHWE		HHMM.m-DDMM	9	(X) in LMC	-	`1991W2`	WANG Q.+	`1991ApJ...374..475W`	Authors' initials, Extended	*(d)*
WhMe		N	1	PN	-	.	WHITELOCK P.A.+	`1986MNRAS.223..497W`	Authors' names	PN G051.0+02.8 = PK 051+02 1

(a) WeSb = WeSa
(b) Wg = WG
(c) WHHW Rounded coordinates. The correct numbering should have a leading zero (madatory) and should have used truncated coordinates. Namely the correct numbering should be 0458.5-6908 instead of 458.6-6909
(d) WHHWE Rounded coordinates. The correct numbering should have a leading zero (madatory) and should have used truncated coordinates. Namely the correct numbering should be 0520.7-6737 instead of 520.8-6738

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
[WIE93]		N	3	Carbon ∗	`[WIE93]`	.	WARREN S.J.+	`1993MNRAS.261..185W`	Three first authors' initials, 1993	
WIL	*use Wilson*	NNNNN	.	∗	`GCRV`	`1953W1`	WILSON R.E.	.	Author's name	
Wildey		NNN	413	∗ in GCl	`NGC 104`	`1961W1 A` `1961W1 B`	WILDEY R.L. LLOYD EVANS T.	`1961ApJ...133..430W` `1974MNRAS.167..393L`	Author's name	*(a)*
WILS	*use Wilson*	NNNNN	.	∗	`GCRV`	`1953W1`	WILSON R.E.	.	Author's name	
Wilson		NNNNN	15106	∗	`GCRV`	`1953W1`	WILSON R.E.	.	Author's name	*(b)*
WK		NNN	478	(Rad)	`WK`	`1969W1`	WINDRAM M.D.+	`1969MNRAS.146..265W`	Authors' initials	
WK		N	2	T Tau ∗	`NAME WK81`	.	WALTER F.M.+	`1981ApJ...250..254W`	Authors' initials	*(c)*
WK81	*eq. WK*	N	.	T Tau ∗	`NAME WK81`	.	WALTER F.M.+	`1981ApJ...250..254W`	Authors' initials, 1981	
WKB		HHMM+DD.d	1069	(Rad)	`WKB`	`1966W1`	WILLIAMS P.J.S.+	`1966MmRAS..70...53W`	Authors' initials	
WKK		NN	56	∗	`ASS CHA T 2-`	.	WHITTET D.C.B.+	`1987MNRAS.224.497W`	Authors' initials	*(d)*
WKK		FNN	54	Field ∗	`-`	.	WHITTET D.C.B.+	`1987MNRAS.224.497W`	Authors' initials	Table 6: F in the format for field stars
WL		NN	20	(IR) in ρ Oph DCld	`p WL`	.	WILKING B.A.+	`1983ApJ...274..698W`	Authors' initials	
WLY	*use WLY1*	NN	.	(IR) in ρ Oph DCld	`-`	.	WILKING B.A.+	`1989ApJ...340..823W`	Authors' initials	

(a) Wildey = (TLE)
(b) Wilson = GCRV = (W) = (WIL) = (WILS)
(c) WK = WK81
Table 2: WK 1 = 1E 0416.3+2830 ; WK 2 = 1E 0430.2+2459
(d) WKK = ASS CHA T 2-
Table 5: format TNN, with prefixe T for members of the T asociation

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
WLY1		NN	64	(IR) in ρ Oph DCld	-	.	WILKING B.A.+	1989ApJ...340..823W	Authors' initials, table 1	IRAS source *(a)*
WLY2		NN	58	(IR) in ρ Oph DCld	-	.	WILKING B.A.+	1989ApJ...340..823W	Authors' initials, table 2	*(b)*
[WO84]		NN	22	* in LMC	[WO84]	.	WALKER A.R.+	1984AExpr...1...45W	Authors' initials, 1984	*(c)*
W& O'D	*use [WO84]*	NN	.	* in LMC	[WO84]	.	WALKER A.R.+	1984AExpr...1...45W	Walker & O'Donoghue	
WOH		NNN	537	Superg. in LMC	-	1981W1	WESTERLUND B.E.+	1981A&AS...43..267W	Authors' initials	Table I *(d)*
WOHG		NNN	660	M Giant in LMC	-	1981W1	WESTERLUND B.E.+	1981A&AS...43..267W	Authors' initials, Giant	Table II *(e)*
WOLF	*eq. Wolf*	NNNN	.	*	WOLF	1919W1	WOLF M.	1919VeHei...7...10W	Author's name	
Wolf		NNNN	1566	*	WOLF	1919W1	WOLF M.	1919VeHei...7...10W	Author's name	*(f)*
Woolley		9NNNA	848	*	GJ	1970W3	WOOLLEY R.v.d.R.+	1970ROAn.........5W	First author's name	*(g)*
WOOV		NNN	.	V *	WOOV	.	WOOLEY R.D.V.R.+	.	Author's name, Variable *	
WOR		NN	27	M *	-	1962W1	WORLEY C.E.	1962AJ.....67..396W	Author's name	
WORC		NNN	302	Carbon * in LMC	WORC	1978W1	WESTERLUND B.E.+	1978A&AS...31...61W	Authors' initials	

(a) WLY1 = (WLY)
(b) WLY2 = (IRS)
(c) [WO84] = (W& O'D)
Table 1: * near RMC 136a.
(d) WOH = (S)
(e) WOHG = (G)
(f) Wolf = (W) = WOLF
(g) Woolley = GJ = GL = Gl = GLIESE = Gliese = (W) = WEPP
Extension of the Gliese catalogue (ref. 1969G1 A,B). Authors have assigned to the newly added stars numbers starting at 9001 in order of 1950 right ascension.

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
WOS		NN	74	S *	WOS	1978W2 A 1978W2 B	WESTERLUND B.E.+ LLOYD EVANS T.+	1978A&AS...32..401W 1989MNRAS.237..219L	Authors' initials, S *	
WOSH		FFFGNNN	179	G	-	1991W3	WATSON F.G.+	1991MNRAS.253..222W	Authors' initials	*(a)*
WP		NN	15	Red *	WP	1977W3	WEINBERGER R.+	1977A&AS...27..249W	Authors' initials	
WPC	*eq. USN*	NNNNN	.	*	UBV	1968B3	BLANCO V.M.+	1968PUSNO.......21B	Washington Photoelectric Catalogue	
WPVS		NNN	113	Em. G	WPVS	.	WAMSTEKER W.+	1985A&AS...62..255W	Four first authors' initials	Finding charts
WR		NNN NNa	≃ 173	WR	WR	1981VH A 1981VH B 1981VH C 1991S1	VAN DER HUCHT K.A.+ VAN DER HUCHT K.A.+ CRAWFORD I.A.+ SHARA M.M.+	1981SSRv...28..227V 1988A&A...199..217V 1991A&A...251..L39C 1991AJ....102..716S	Wolf Rayet *	*(b)*
WR	*eq. Wr*	NNN	.	V *	SV* WR	.	WEBER R.	.	Weber R.	
Wr		NNN	188	V *	SV* WR	.	WEBER R.	.	Weber R.	V * Nmcl *(c)*
WR	*use WRAY 15-*	NNNN	.	Em. * (53PN)	WRAY 15-	1966W2	WRAY J.D.	.	Author's name	
WR15-	*eq. WRAY 15-*	NNNN	.	Em. * (53PN)	WRAY 15-	1966W2	WRAY J.D.	.	Author's name, table XV	
WR16-	*eq. WRAY 16-*	NNN	.	PN	WRAY 16-	1966W2	WRAY J.D.	.	Author's name, table XVI	
WR17-	*eq. WRAY 17-*	NNN	.	Poss. PN	WRAY 17-	1966W2	WRAY J.D.	.	Author's name, table XVII	

(a) WOSH In the format the field is SERC field number (Table 4), the letter G stands for galaxy.
(b) WR = VCLS
Format NNa: new WR inserted in RA
(c) Wr = WR

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
WR18-	*eq. WRAY 18-*	NNN	.	Carbon * + S *	WRAY 18-	1966W2	WRAY J.D.	.	Author's name, table XVIII	
WR19-	*eq. WRAY 19-*	NN	.	Em. Obj. (4PN)	WRAY 19-	1966W2	WRAY J.D.	.	Author's name, table XIX	
WR33		NN	.	WR in M 33	WR33	.	WRAY J.D.	1972ApJ...172..577W	WR * in M 33	
WRA	*use WRAY 15-*	NNNN	.	Em. * (53PN)	WRAY 15-	1966W2	WRAY J.D.	.	Author's name	
WRAM		NN	.	OB *	WRAM	.	WRAMDEMARK S.	1981A&AS...43..103W	Author's name	
WRAY	*use WRAY 15-*	NNNN	.	Em. * (53PN)	WRAY 15-	1966W2	WRAY J.D.	.	Author's name	
WRAY 15-		NNNN	1887	Em. * (53PN)	WRAY 15-	1966W2	WRAY J.D.	.	Author's name, table XV	*(a)*
WRAY 16-		NNN	423	PN	WRAY 16-	1966W2	WRAY J.D.	.	Author's name, table XVI	*(b)*
WRAY 17-		NNN	113	Poss. PN	WRAY 17-	1966W2	WRAY J.D.	.	Author's name, table XVII	*(c)*
WRAY 18-		NNN	323	Carbon * + S *	WRAY 18-	1966W2	WRAY J.D.	.	Author's name, table XVIII	*(d)*
WRAY 19-		NN	55	Em. Obj. (4PN)	WRAY 19-	1966W2	WRAY J.D.	.	Author's name, table XIX	*(e)*

(a) WRAY 15- = (W) = (WR) = WR15- = (WRA) = (WRAY)
53 objects are compiled as PN (see ref. 1967PK F)
(b) WRAY 16- = WR16-
(c) WRAY 17- = WR17-
(d) WRAY 18- = WR18-
(e) WRAY 19- = WR19-
4 objects are compiled as PN (see ref. 1967PK F)

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
WS	*use SP77*	FF-NNa	.	Red * in LMC	p SP77	1977S3	SANDULEAK N.+	.	Warner & Swasey obs.	
WS	*use WSPN*	NN	.	PN in LMC	WSPN	1964W1	WESTERLUND B.E.+	1964MNRAS.127..449W	Authors' initials	
WS	*eq. WSWR*	NN	.	WR in LMC	WS	1964W2	WESTERLUND B.E.+	1964MNRAS.128..311W	Authors' initials	
WS	*use [WS90]*	NN	.	*	[WS90]	.	WALKER A.R.+	1990PASP..102..131W	Authors' initials	
[WS90]		NN	39	*	[WS90]	.	WALKER A.R.+	1990PASP..102..131W	Authors' initials, 1990	*(a)*
WSB		NN	86	$H\alpha$ Em. * in ρ Oph DCld	WSB	.	WILKING B.A.+	1987AJ.....94..106W	Authors' initials	
WSCG		NN	48	SuperCl of G	WSCG	1989W2	WEST M.J.	1989ApJ...347..610W	West, SuperCluster of G	*(b)*
WSDH		N	1	PN	-	.	WEINBERGER R.+	1983ApJ...265..249W	Authors' initials	= PK 197-6(1)
WSPN		NN	42	PN in LMC	WSPN	1964W1	WESTERLUND B.E.+	1964MNRAS.127..449W	Authors' initials, PN	*(c)*
WSRT		HHMM+DDWNA	1942	(Rad)	-	1973K1 A 1973K1 B 1973K1 C 1973K1 D 1973K1 E	KATGERT P.+ KATGERT J.K.+ KATGERT P. WILLIS A.G.+ KATGERT J.K.	1973A&AS...23..171K 1974A&A....35..393K 1975A&A....38...87K 1976A&AS...25..453W 1978A&AS...31..409K	Westerbork Synthesis Radio Telescope	
WSTB nW	*use nW*	NNNA	.	(Rad)	WSTB nW	.	-	.	Westerbork, list n	*(d)*

(a) [WS90] = (WS)
Table 4: * near SN 1987A, (Nos 1-41), Nos 17 and 28 are missing
(b) WSCG = (SC)
(c) WSPN = (WS)
(d) WSTB nW Acronym used only in *SIMBAD*; the list number n can take the values 10, 12 to 24, 26 to 33, 35 to 48, 50 to 67, 69 to 76.

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
WSWR		NN	53	WR in LMC	WS	1964W2	WESTERLUND B.E.+	1964MNRAS.128..311W	Authors' initials, Wolf-Rayet *	*(a)*
WT		NNN	521	PM *	WT	1989W3 A 1989W3 B	WROBLEWSKI H.+ WROBLEWSKI H.+	1989A&AS...78..231W 1991A&AS...91..129W	Authors' initials	
WTT	*eq. NTTS*	HHMMSS+DDMMAA	.	Naked T Tau *	NTTS	1988W2	WALTER F.M.+	1988AJ.....96..297W	Walter, T Tau *	
WU		HHMM+DD.d	12	(Far IR)	-	1974F4	FRIEDLANDER M.W.+	1974ApJ...194...L5F	Washington University	
WV		NNN	561	HVC	WV	1991WV	WAKKER B.P.+	1991A&A...250..509W	Authors' initials	
WW		NN	70	(X) in SMC	WW	1992W1	WANG Q.+	1992ApJS...78..391W	Authors' initials	
X		HHMM+DDd	≃ 115	(X)	-	1983BM	BRADT H.V.D.+	1983ARA&A..21...13B	X-ray source	
XB		HHMM+DDd	.	(X)	XB	.	MURAKAMI T.+	1983PASJ...35..531M	X-ray Burster	
1XRS		HHMMm+DDd	517	(X)	1XRS	.	AMNUEL P.R.+	1979ApJS...41..327A	X-Ray Source	*(b)*
2XRS		HHMMm+DDd	677	(X)	-	1982AM	AMNUEL P.R.+	1982Ap&SS..82....3A	X-Ray Source	*(c)*
XZLJ1-		NNN	225	(IR) Exc.	-	1990X1 A	XIAO ZHEN+	1990AcApS..10..128X	Authors' initials, list 1	
XZLJ2-		NN	89	(IR) Exc.	-	1990X1 B	XIAO ZHEN+	1991AcApS..11..137X	Authors' initials, list 2	
Y	*use Jenkins*	NNNN NNNN.NN	.	*	PLX	1952J1+	JENKINS L.F.	.	Yale obs.	
Y	*use VRO*	NN	.	(Rad)	VRO	1964Y1	YANG K.S.+	1964AJ.....69..246Y	Yang	
Y	*use YZ*	+DD NNNN	.	*	YZ	1934S1+	SCHLESINGER F.+	.	Yale obs. catalog	
Yale	*eq. Jenkins*	NNNN NNNN.NN	.	*	PLX	1952J1+	JENKINS L.F.	.	Yale obs.	

(a) WSWR = (WS) compiled in 1981BR A
(b) 1XRS = An 1 XRS
(c) 2XRS = An 2 XRS

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
YAMAC		NNN	293	Carbon *	-	1972Y1 A 1972Y1 B	YAMASHITA Y. YAMASHITA Y.	1972AnTok..13..169Y 1975AnTok..15...47Y	Author's name, Carbon *	Nos 184, 185 missing
YC	*eq. Jenkins*	NNNN NNNN.NN	.	*	PLX	1952J1+	JENKINS L.F.	.	Yale obs., Catalog	
YC		HHMM+DD	40	Pec. G	p Lu YC	1971L2	LU P.K.	1971AJ.....76..775L	Yale Columbia obs.	*(a)*
YC	*eq. Y-C*	NN	.	Very Red *	-	1973C1+	CESCO C.U.+	.	Authors' initials	
YC	*eq. CeGi*	NN	.	PN	PN Y-C	1973C1+	CESCO C.U.+	.	Yale Columbia obs.	
Y-C		NN	31	Very Red *	-	1973C1 A 1973C1 B	CESCO C.U.+ CESCO C.U.+	1973A&AS...11..335C 1984BAAA...28..159C	Yale Columbia obs.	*(b)*
Y-C	*eq. CeGi*	NN	.	PN	PN Y-C	1973C1+	CESCO C.U.+	.	Yale Columbia obs.	
Y-C 2-	*eq. CeGi*	NN	.	PN	PN Y-C	1973C1 B	CESCO C.U.+	1984BAAA...28..159C	Yale Columbia obs., list 2	(Nos 34-47)
YCSP	*eq. Jenkins*	NNNN NNNN.NN	.	*	PLX	1952J1+	JENKINS L.F.	.	Yale obs., Catalog, Stellar Parallaxes	
YCTSP	*eq. Jenkins*	NNNN NNNN.NN	.	*	PLX	1952J1+	JENKINS L.F.	.	Yale obs., Catalog, Trigonometric StellarParallaxes	
YLW		NNA	31	(IR) in ρ Oph DCld	p YLW	.	YOUNG E.T.+	1986ApJ...304L..45Y	Authors' initials	
YM		NN	36	PN	PN YM	1955J1 A	JOHNSON H.M.	1955ApJ...121..604J	Yerkes McDonald obs.	(Nos 1-36) *(c)*

(a) YC = Lu = Lu YC
(b) Y-C = (CG) = YC
(c) YM = (J1-)
YM 16 = PN 038.7+01.9 = PK 038+02 1 ; YM 28 = PN G204.0-08.5 = PK 204-08 1 ; YM 29 = PN G205.1+14.2 = PK 205+14 1

Acronym	Usage	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
YM		NN	11	PN	PN YM	1955J1 B	JOHNSON H.M.	1956ApJ...124...90J	Yerkes McDonald obs.	(Nos 37-47) *(a)*
YP	*eq. Jenkins*	NNNN NNNN.NN	.	*	PLX	1952J1+	JENKINS L.F.	.	Yale obs., Parallaxes	
YPC	*eq. Jenkins*	NNNN NNNN.NN	.	*	PLX	1952J1+	JENKINS L.F.	.	Yale obs., Parallaxes, Catalog	
YW	*use VRO*	NN	.	(Rad)	VRO	1964Y1	YANG K.S.+	1964AJ.....69..246Y	Authors' initials	
YZ		+DD NNNN	≃ 130000	*	YZ	1934S1 A 1934S1 B 1934S1 C 1934S1 D 1934S1 E 1934S1 F 1934S1 G 1934S1 H 1934S1 I 1934S1 J 1934S1 K 1934S1 L	SCHLESINGER F.+ SCHLESINGER F.+ SCHLESINGER F.+ SCHLESINGER F.+ BARNEY I. BARNEY I. BARNEY I. BARNEY I. BARNEY I. BARNEY I. BARNEY I. BARNEY I.	1934TOYal..10.....S 1939TOYal..11.....S 1940TOYal..12.....S 1943TOYal..13.....S 1945TOYal..16.....B 1947TOYal..18.....B 1948TOYal..19.....B 1949TOYal..20.....B 1950TOYal..21.....B 1951TOYal..23...14B 1953TOYal..24...10B 1954TOYal..25.....B	Yale obs., Zone catalog	*(b)*
YZC	*eq. YZ*	+DD NNNN	.	*	YZ	1934S1+	SCHLESINGER F.+	.	Yale obs., Zone Catalog	
Z		FFF-NNN FFF-NNN/N HHMM.m+DDMM	31350	G	Z	1960Z1 A 1960Z1 B 1960Z1 C 1960Z1 D 1960Z1 E 1960Z1 F 1960Z1 G	ZWICKY F.+ ZWICKY F.+ ZWICKY F.+ ZWICKY F.+ ZWICKY F.+ ZWICKY F.+ THOMSON M.J.	. . . . . . 1992QJRAS..33...59T	Zwicky	*(c)*
Z	*use Zel*	HHMM+DDd NN	.	(Rad)	-	1981A1+	AMIRKHANIAN V.R.+	.	Zelenchuk survey	

(a) YM = (J2-)
(b) YZ = (Y) = YZC
(c) Z = ZWG

Acronym	*Usage*	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
ZI		NNN	216	SN	-	.	ZWICKY F.	.	Zwicky, first	I = roman num. *(a)*
ZII		NNN	> 357	SN	-	.	ZWICKY F.	.	Zwicky, second	II = roman num. *(b)*
ZC	*eq. ZWCL*	HHMM+DDMM FFF-NN	.	Cluster of G	`ZwCl`	`1960Z1+`	ZWICKY F.+	.	Zwicky, Cluster	
ZC	*use ZYCJ*	HHMM+DDdA	.	Poss. QSO	-	.	ZHAN YIN+	`1987AcApS...7...99Z`	Zhan + Chen	
						.	ZHAN YIN+	`1987AcApS...7..203Y`		
						.	ZHAN YIN+	`1987AcApS...9...37Z`		
						.	ZHAN YIN+	`1987AcApS...9..147Z`		
						.	ZHAN YIN+	`1987AcApS...9..313Z`		
ZCOM		NNN	379	G in Coma Cl	-	`1990K1`	KARACHENTSEV I.D.+	`1990MNRAS.243..390K`	Z for redshift, Coma cl.	*(c)*
[ZCT89]		BFFF.NN	630	Pair of G	-	.	ZOU ZHENLONG+	`1989PBeiO..12....8Z`	Three first authors' initials, 1989	
[ZCT89]		BFFF.NN N	630x2	G in pair	-	.	ZOU ZHENLONG+	`1989PBeiO..12....8Z`	Three first authors' initials, 1989	
Zel		HHMM+DDd NN	-	(Rad)	-	`1981A1 A`	AMIRKHANIAN V.R.+	`1981AZh....58..717A`	Zelenchuk survey	*(d)*
						`1981A1 B`	AMIRKHANIAN V.R.+	.		
						`1981A1 C`	AMIRKHANIAN V.R.+	.		
						`1981A1 D`	AMIRKHANIAN V.R.+	`1992PAZh...18..396A`		
Zi		NNNN	.	V *	`SV* ZI`	.	ZINNER E.	.	Zinner	V * Nmcl
ZL		NNN	218	Blue *	-	`1967Z1`	ZWICKY F.+	.	Authors' initials	
ZNG		NN	154	* in GCl	`Cl* NGC NNNN ZNG`	`1972Z1`	ZINN R.J.+	`1972A&A....18..390Z`	Authors' initials	

(a) ZI = Z-SN
Zwicky Master Lists of supernovae since 1885, cross-identified with SN number in Kukarkin+ (ref. 1969PK), 2nd suppl. 1974, p. 354, 3d suppl. 1976, p. 339 . ZII revised list different from ZI and different from Z-SN.
ZI Nos 1-216 used up to the middle of 1968.

(b) ZII = Z-SN
See the remark for ZI . ZII reaches No. 413 in 1974

(c) ZCOM = K90

(d) Zel = (Z)

Acronym	Usage	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
Z-SN	*eq. ZI*	NNN	.	SN	-	.	ZWICKY F.	.	Zwicky, SuperNova	*(a)*
Z-SN	*eq. ZII*	NNN	.	SN	-	.	ZWICKY F.	.	Zwicky, SuperNova	*(b)*
ZW	*eq. ZWCL*	HHMM+DDMM FFF-NN	.	Cluster of G	ZwCl	1960Z1+	ZWICKY F.+	.	Zwicky	
1Zw		NNNa	.	G	ZW I	1971Z1 A	ZWICKY F.+	.	Zwicky, list I (roman num.)	*(c)*
2Zw		NNNa	.	G	ZW II	1971Z1 A	ZWICKY F.+	.	Zwicky, list II (roman num.)	*(d)*
3Zw		NNNa	.	G	ZW III	1971Z1 A	ZWICKY F.+	.	Zwicky, list III (roman num.)	*(e)*
4Zw		NNNa	.	G	ZW IV	1971Z1 A	ZWICKY F.+	.	Zwicky, list IV (roman num.)	*(f)*
5Zw		NNNa	.	G	ZW V	1971Z1 A	ZWICKY F.+	.	Zwicky, list V (roman num.)	*(g)*
6Zw		NNNa	.	G	ZW VI	1971Z1 A	ZWICKY F.+	.	Zwicky, list VI (roman num.)	*(h)*
7Zw		NNNa	.	G	ZW VII	1971Z1 A	ZWICKY F.+	.	Zwicky, list VII (roman num.)	*(i)*
8Zw		NNNa	.	G	ZW VIII	1971Z1 B	ZWICKY F.+	1975AJ.....80..545Z	Zwicky, list VIII (roman num.)	*(j)*
Zw	*eq. ZWCL*	HHMM+DDMM FFF-NN	.	Cluster of G	ZwCl	1960Z1+	ZWICKY F.+	.	Zwicky	

(a) Z-SN See the remark for ZI
(b) Z-SN See the remark for ZI
(c) 1Zw = I ZW = ZW I
(d) 2Zw = II ZW = ZW II
(e) 3Zw = III ZW = ZW III
(f) 4Zw = IV ZW = ZW IV
(g) 5Zw = V ZW = ZW V
(h) 6Zw = VI ZW = ZW VI
(i) 7Zw = VII ZW = ZW VII
(j) 8Zw = VIII ZW = ZW VIII

Acronym	Usage	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
Zw		NNNN	9134	Cluster of G	-	.	ZWICKY F.+	.	Zwicky	*(a)*
ZW I	*eq. 1Zw*	NNNa	.	G	ZW I	1971Z1 A	ZWICKY F.+	.	Zwicky, list I (roman num.)	
ZW II	*eq. 2Zw*	NNNa	.	G	ZW II	1971Z1 A	ZWICKY F.+	.	Zwicky, list II (roman num.)	
ZW III	*eq. 3Zw*	NNNa	.	G	ZW III	1971Z1 A	ZWICKY F.+	.	Zwicky, list III (roman num.)	
ZW IV	*eq. 4Zw*	NNNa	.	G	ZW IV	1971Z1 A	ZWICKY F.+	.	Zwicky, list IV (roman num.)	
ZW V	*eq. 5Zw*	NNNa	.	G	ZW V	1971Z1 A	ZWICKY F.+	.	Zwicky, list V (roman num.)	
ZW VI	*eq. 6Zw*	NNNa	.	G	ZW VI	1971Z1 A	ZWICKY F.+	.	Zwicky, list VI (roman num.)	
ZW VII	*eq. 7Zw*	NNNa	.	G	ZW VII	1971Z1 A	ZWICKY F.+	.	Zwicky, list VII (roman num.)	
ZW VIII	*eq. 8Zw*	NNNa	.	G	ZW VIII	1971Z1 B	ZWICKY F.+	1975AJ.....80..545Z	Zwicky, list VIII (roman num.)	
ZWCL		HHMM+DDMM FFF-NN	≃ 9700	Cluster of G	ZwCl	1960Z1 A 1960Z1 C 1960Z1 D 1960Z1 E 1960Z1 F 1960Z1 G	ZWICKY F.+ ZWICKY F.+ ZWICKY F.+ ZWICKY F.+ ZWICKY F.+ THOMSON M.J.	. . . . . 1992QJRAS..33...59T	Zwicky, Cluster	*(b)*
ZwCl	*eq. ZWCL*	HHMM+DDMM FFF-NN	.	Cluster of G	ZwCl	1960Z1+	ZWICKY F.+	.	Zwicky, Cluster	
ZwCl	*eq. Zw*	NNNN	.	Cluster of G	-	.	ZWICKY F.+	.	Zwicky Cluster	

(a) Zw = ZwCl
Selection of ZWCL (ref. 1960Z1 A to F): It includes only rich clusters containing at least 50 galaxies in the luminosity range from m_max to $m_max + 3$ (where m_max is the apparent photographic magnitude of the brightest galaxy in the cluster) ; 1950 coordinates ; Available through "starcat" at ESO, STScI and CADC (Victoria) on the name "ZwiClu".

(b) ZWCL = ZC = ZW = Zw = ZwCl

Acronym	Usage	Format	Number	Obj. Type	Simbad	Ref	Author	Simbad Ref.	Meaning	Notes
ZWG	*eq. Z*	FFF-NNN FFF-NNN/N HHMM.m+DDMM	.	G	Z	1960Z1 G	THOMSON M.J.	1992QJRAS..33...59T	Zwicky, G	
ZWG		FFF.NNN a	90	H II in Zwicky G	-	1983P2 B 1983P2 C 1983P2 D 1983P2 F	SANDULEAK N.+ PESCH P.+ SANDULEAK N.+ PESCH P.+	1984ApJS...55..517S 1986ApJS...60..543P 1987ApJS...63..809S 1988ApJS...66..297P	Zwicky, G	*(a)*
ZWICKY		N	1?	GCl?	Cl ZWICKY	.	ZWICKY F.	.	Discoverer's name	*(b)*
ZYCJ		HHMM+DDdA	519	Poss. QSO	-	. . . . .	ZHAN YIN+ ZHAN YIN+ ZHAN YIN+ ZHAN YIN+ ZHAN YIN+	1987AcApS...7...99Z 1987AcApS...7..203Y 1987AcApS...9...37Z 1987AcApS...9..147Z 1987AcApS...9..313Z	Zhan Yin + Chen Jiansheng	*(c)*
[ZZS93]		NN76+69+31+16+10+27 NN/2 NN/10 NN/20 NN/40 NN/200		SuperCl of G	[ZZS93]	.	ZUCCA E.+	1993ApJ...407..470Z	Three first authors' initials, 1993	*(d)*
Π	*use Parenago*	NNNN	.	* in Orion	Cl* NGC 1977 P	1954P1	PARENAGO P.P.	1954TrSht..25....3P	Cyrillic letter for Parenago	

(a) ZWG H II regions in Zwicky G (ref. 1960Z1, format FFF.NNN)
(b) ZWICKY Quoted in 1970AR; = C 1657-004
(c) ZYCJ = (ZC)
(d) [ZZS93] = (SC)
In the format NN/T, the type of object T is characterized by the minimum of the density enhancement f chosen for defining a supercluster: each value of f defines a different set of superclusters. Format to use sparingly as the slash usually means the concatenation of two objects.