

ASTRONOMICAL CATALOGUE DESIGNATIONS

This list of astronomical catalogue designations is designed to help in the online search for individual astronomical objects. All the major historical compilations and currently used catalogues that are most likely to be encountered in the literature have been included.

The designations to be used are described by one typical example, a short description of the objects contained in that catalogue including an indication of the origin of the designation, format information, and where running numbers are involved (e.g. NN), the largest number likely to be encountered in that specific catalogue (e.g. 28).

The *lead-ins in italics* reflect the complex alternative designations found in the literature. The ‘**Systematic designations**’ can also be used to construct a designation if one has not already been assigned. Some attempts have therefore been made to control the use of certain designations and this reflects the activities of the Working Group for Information Retrieval of Commission 5 of the International Astronomical Union. The catalogue information is based on the Second Reference Dictionary of the Nomenclature of Celestial Objects by Lortet et al. (Publication Speciale du C.D.S., No 24, Volumes I and II 1994) and the SIMBAD database.

The “format” concept is an extension of the scheme devised by Mike Kesteven and Alan Bridle in February 1977 (J. Royal Astron. Soc. Canada, Vol. 71, p.21-39).

Con	Constellation (IAU 3-letter code)
N	Ordinal number (no positional information)
F	Field or plate number (no positional information)
T	Target (letters)
HH	Hours of right ascension
MM.m	Minutes of right ascension or declination
SS.s	Seconds of right ascension or declination (or seconds of time)
DD.d	Degrees in declination
LLL.ll	Degrees of Galactic longitude
BB.bb	Degrees of Galactic latitude
R	Roman numerals (I, II, III, IV, etc.)
A, a, s	Letters, subdivisions or suffixes
YYMMDD	Date (truncated year, month, day)
YYYY	Year
VV	Velocity (km/s)

Coordinate-type formats use letter combinations, e.g. **HHMM±DD**.

Coordinates using 2000 equinox positions are preceded by “**J**” and are usually of greater precision e.g. **JHHMM±DDd** (with tenths of degrees) or **±DDM** (with tens of minutes).

Note the use of the underscore “**_**” to denote spaces in the format description column.

Designations of Astronomical Catalogues

<u>Example</u>	<u>Type of object</u>	<u>Format (with spacing)</u>	<u>Max.</u>
β 867	use beta for visual binary stars		
Σ 2173	use Struve for visual binary stars		
A 72	Planetary nebulae (Abell 1966 not 1955)	A_NN	86
A 0535+26	X-ray sources (Ariel)	A_HHMM $\pm$ DD	
A	use Abell for galaxy clusters		
A	use ADS for Aitken double stars		
ABCG	use Abell for galaxy clusters		
ABGC	use Abell for galaxy clusters		
AbastMSC 360	Multiple stars (Abastumani Multiple Star Catalogue)	AbastMSC_NNN	412
Abastumani 24	Pre-main-sequence stars	Abastumani_NNN	>105
Abell 1656	Galaxy clusters	Abell_NNNN	4076
Abell 1656 D 24	Galaxies in Abell clusters (Dressler)	Abell_NNNN_D_NN	
Abell-S 753	Galaxy clusters-Supplement	Abell-S_NNNN	1174
ABS 7	Wolf-Rayet stars in SMC (Azzopardi, Breysacher, SMC)	ABS_N	8
AC	use ACCG for galaxy clusters		
AC 211	M15 stars (Auriere, Cordoni)	AC_NNN	734
AC +73°8031	Astrographic Catalogues	AC_ $\pm$ DD°NNNN	
ACCG 114	Clusters of galaxies (Abell, Corwin, Cluster of Galaxies)	ACCG_NNN	130
ACO	use Abell for galaxy clusters		
ACO S	use Abell-S for galaxy clusters		
ADBS J113845+2008	Radiogalaxies (Arecibo Dual-Beam Survey)	ADBS_JHHMMSS $\pm$ DDMM	
ADS 16173	Aitken Double Stars	ADS_NNNNN	17180
AE 1	Variable star (A. Elvius)	AE_N	1
AFCL	use AFGL		
AFGL 2688	IR sources (Air Force Geophysics Laboratory)	AFGL_NNNN	5625
AFGL 7009S	IR sources (Air Force Geophysics Laboratory)	AFGL_NNNNS (S = Supplementary)	7247
AGK3 +17°1309	Stars (3 rd Astronomische Gesellschaft Katalog)	AGK3_ $\pm$ DD°NNNN	
AGL J1511–0909	Gamma-ray sources (AGILE)	AGL_JHHMM $\pm$ DDMM	
AGPS 273.4–17.8	X-ray sources (ASCA Galactic Plane Survey)	AGPS_DDD.d $\pm$ DD.d (RA expressed as angle)	
Ahmed 240	Stars in NGC 3766	Ahmed_NNN	313
Aitken 2184	Visual binary stars	Aitken_NNNN	
Akn	use Arakelian for galaxies		
Al 1	Planetary nebula (Allen)	Al_1	1
Alcaino 522	Stars in M4	Alcaino_NNN	569
ALEXIS J1139–685	Extreme UV sources (ALEXIS satellite)	ALEXIS_JHHMM $\pm$ DDd	
AM 2020–505	Peculiar galaxies (Arp, Madore)	AM_HHMM $\pm$ DDd	
AM-3	Star clusters (Arp, Madore)	AM-N	4
Andrews 481	Stars in Orion nebula	Andrews_NNNNN	16777
Antipin V64	Variable stars	Antipin_VNN	80
AO 0235+16	Radio sources (Arecibo Occultation)	AO_HHMM $\pm$ DD	
AObs 395	Stars (Allegheny Obs.)	AObs_NNNN	1600
AP 86	Low-mass stars (alpha Per cluster)	AP_NNN	258
Ap1-11	Planetary nebulae (Apriamasvili)	Ap1-NN (Ap2- to Ap5-)	12
APG	use Arp for peculiar galaxies		

APM 08279+5255	Quasars (Automated Plate Measuring Machine)	APM_HHMMm±DDMM	
APMPM J0237–5928	Proper motion stars (Automated Plate Measurement Proper Motion)	APMPM_JHHMM±DDMM	
APPLES 1	Dwarf galaxy (ACS Pure Parallel Lyalpha Emission Survey)	APPLES_N	1
Arakelian 120	Galaxies	Arakelian_NNN	591
Ardeberg 153	LMC stars	Ardeberg_NNN	583
Ark	use Arakelian for galaxies		
Arp 299	Peculiar galaxy atlas	Arp_NNN	338
AS 353	Emission-line stars (Additional Stars, continues MWC)	AS_NNN	521
ASAS	Variable objects	ASAS_JHHMMSS±DDMM.m	
J171251–3056.6	(All Sky Automated Survey)		
ASCC 16	Star clusters (All-Sky Compiled Catalogue)	ASCC_NNN	130
ASM	use <i>Ginga</i> for X-ray sources		
ASR 28	use <i>NGC_1333_ASR_NNN</i> format for IR sources in <i>NGC 1333</i>		
ATCA	Radio sources	ATCA_JHHMMSS±DDMMSS	
J005523–721055	(Australia Telescope Compact Array)		
ATELAIS	Radio sources	ATELAIS_JHHMMSS.ss±DDMMSS.s	
J003411.59-435817.0	(Australia Telescope ELAIS field)		
Auner 1	Star cluster	Auner_N	1
AV	use <i>AzV</i> for SMC stars		
AWM 2	Galaxy clusters (Albert, White, Morgan)	AWM_N	7
AX J1811.5–1926	X-ray sources (ASCA satellite)	AX_HHMM±DDd or _HHMM.m±DDMM or _JHHMM.m±DDMM	
AXS J161730–505505	X-ray sources (ASCA X-ray Serendipitous)	AXS_JHHMMSS±DDMMSS	
AzV 362	SMC stars (Azzopardi, Vigneau)	AzV_NNN	524
B	use <i>Barnard</i> for dark clouds		
B 475	Blue stars in M33	B_NNN	610
B1308–441	use truncated 1950 coordinates ...i.e. 1308–441		
B2 1102+30	Radio sources (2nd Bologna survey)	B2_HHMM±DD	
B3 0906+421	Radio sources (3rd Bologna survey)	B3_HHMM±DDd or _JHHMM±DDMM	
Ba	use <i>Basel</i> for open clusters		
Ba 1	Planetary nebula (Baade)	Ba_N	1
BA 685	Emission nebulae in M31 (Baade, Arp)	BA_NNN	688
BA 090700003	Early-type stars (Balloon)	BA_FFffffNNN FF: Flight no. ffff: frame no.	
BAC 209	Stars (Bordeaux Astrographic Catalog)	BAC_NNN	
BaGa 5742	Quasars in Selected Area 57 (Barbara Gaston)	BaGa_57NN	
Balloon	use <i>BA</i> for early- type stars		
Barnard 335	Dark clouds	Barnard_NNN	370
Barton 36	Visual binary stars	Barton_NN	
Basel 2	Open clusters	Basel_NN	20
BAT 118	Wolf-Rayet stars in LMC (Breysacher, Azzopardi, Testor 1999)	BAT_NNN	134
BAT99-118	use <i>BAT</i> for LMC WR stars		
BBW	use <i>BRAN</i> for nebulae		
BC 268	Carbon stars (Baldone Carbon Stars)	BC_NNN	272
BD +4°3561	Stars (Bonner Durchmusterung)	BD_±DD°NNNNN	
BDS	use <i>beta NNN</i> for visual binary stars		

<i>Be</i>	<i>use Berkeley for open clusters</i>		
BE 475	Emission-line stars in LMC (Bohannon, Epps)	BE_NNN	625
Berkeley 21	Open clusters	Berkeley_NNN	104
Bernes 48	H II regions, nebulae	Bernes_NNN	160
beta 867	Visual binary stars (Burnham)	beta_NNN	
<i>BeV</i>	<i>use Brh V for Bernhard variable stars</i>		
<i>BG</i>	<i>use BaGa for quasars</i>		
<i>BH</i>	<i>see van den Bergh-H...</i>		
BG 2107+49	Radio sources (Bologna Galactic)	BG_HHMM±DD	
<i>BH</i>	<i>use Cl vdBH for star clusters</i>		
BHJ 71	Stars in Cep OB III (Blaauw, Hiltner, Johnson)	BHJ_NN	83
BHR 71	Dark clouds (Bourke, Hyland, Robinson)	BHR_NNN	169
BI 217	Stars in LMC (Brunet, Imbert)	BI_NNN	272
BiMC 311	Stars (Michigan Blue Survey) (Bidelman, MacConnell)	BiMC_NNN	313
Biurakan 2	Open clusters	Biurakan_NN	13
<i>Bk</i>	<i>use Berkeley for open clusters</i>		
BK 5N	Dwarf galaxies (Boerngen, Karachentseva)	BK_NN (N for “New”)	
BI2-1	Planetary nebula (Blanco)	BI2-N	1
Blanco 1	Open cluster	Blanco_N	1
BLAST	Radio sources (Balloon-borne Large Aperture Submillimeter Telescope)	BLAST_JHHMMSS±DDMMSS	
J065837–555708			
Bn V46	Variable stars (Bengtsson)	Bn_VNN	79
<i>BN</i>	<i>use Ori BN for Becklin-Neugebauer object</i>		
<i>Bo</i>	<i>use Bol for M31 globular clusters</i>		
BoBn 1	Planetary nebula (Boeshaar et al.) (= PK 108–76°1 = PN 108.4–76.1)	BoBn_N	1
Bochum 10	Open clusters	Bochum_NN	15
Bol 171	Globular clusters in M31 (Bologna)	Bol_NNN	514
<i>Bologna</i>	<i>use Bol for M31 globular clusters</i>		
Bothun 146	Dwarf galaxies	Bothun_NNN	
BoVi 3	Planetary nebulae (Boehm-Vitense)	BoVi_N	3
BPM 97859	Stars (Bruce Proper Motion)	BPM_NNNNN	98218
BPS BS 16934-2	Objective-prism stars (Beers, Preston, Shectman Burrell Schmidt)	BPS_BS_FFFFF-NNN (FFFFF is a 5-digit number)	
BPS CS 22876-32	Objective-prism stars (Beers, Preston, Shectman Curtis Schmidt)	BPS_CS_FFFFF-NNNN (FFFFF is a 5-digit number)	
<i>BR</i>	<i>use BRI for quasars</i>		
BRAN 342	Nebulae (Brand, Blitz, Wouterloot)	BRAN_NNN	400
<i>BRC</i>	<i>use SFO for Bright-rimmed clouds</i>		
<i>Bretz 4</i>	<i>use HRC 198 n (T Tau star)</i>		
Brey 35	Wolf-Rayet stars in LMC (Breysacher)	Brey_NNN	100
Brh V5	Variable stars (Bernhard)	Brh_VNNN	>137
BRI 0103+0032	quasars (survey in B, R and I filters)	BRI_HHMM±DD or _HHMM±DDMM	
<i>Bru</i>	<i>use BI for LMC stars</i>		
Brun 887	Variables in Orion Nebula	Brun_NNNN	1142
<i>BS 16934-2</i>	<i>use BPS BS for objective-prism stars</i>		
<i>BS 9097</i>	<i>use HR for bright stars</i>		
BSD 24-491	Stars (Bergedorfer Spektral Durchmusterung)	BSD FFF-NNNN	
<i>Burnham</i>	<i>use beta for visual binary stars</i>		
<i>BV</i>	<i>use BoVi for planetary nebulae</i>		
BV 363	Bamberg Variables	BV_NNNN	1736
BZB J0550–3216	Blazars (Multifrequency Catalogue of	BZB_JHHMM±DDMM	

	Blazars) – BL Lac objects		
BzK 15504	Galaxies (B, z, and K band preselected)	BzK_NNNNN	
BZQ J0657+2423	Blazars (Multifrequency Catalogue of Blazars) – radio Quasars	BZQ_JHHMM±DDMM	
BZU J1150–5528	Blazars (Multifrequency Catalogue of Blazars) – Uncertain classification	BZU_JHHMM±DDMM	
C1	White dwarfs (Case Observatory)	CN (no space)	3
C 0921–770	Lynga open clusters	C_HHMM±DDd	
CAL 83	X-ray sources in LMC (Columbia Astrophys. Lab.)	CAL_NN	97
Calar 3	Stars in Pleiades (Calar Alto Observatory)	Calar_N	7
Case 14	Carbon stars (Case Observatory)	Case_NNN	693
CaseG 307	Galaxies (Case Observatory)	CaseG_NNN	
CaTo B14.02	Emission-line galaxies, quasars (Calan-Tololo Survey)	CaTo_ANN.NN	
CB 148	Molecular clouds (Clemens, Barvainis)	CB_NNN	248
CBS 78	Blue stars (Case Blue Stars)	CBS_NNN	124
CC 93	H II regions in M33 (Courtes, Cruvellier)	CC_NNN	101
CCDM J02090+3936	Double and multiple stars (Catalogue of Components of Double and Multiple Stars)	CCDM_JHHMMm±DDMM	
CCM 72	H II regions in M51 (Carranza, Crillon, Monnet)	CCM_NNN	109
CCS 1234	Cool Carbon Stars	CCS_NNNN	3219
CD –23°1234	Stars (Cordoba Durchmusterung)	CD_±DD°NNNNN	
CE 315	Proper motion stars (Calan-ESO)	CE_NNN	542
CED 111	H II regions, reflection nebulae (Cederblad)	CED_NNN	215
CfA 13	Galaxy groups (Center for Astrophysics)	CfA_NNN	176
CFBD	<i>use CFBDS</i>		
CFBDS	Brown dwarfs	CFBDS_JHHMMSS±DDMMSS	
J005910–011401	(CFHT Brown Dwarf Survey)		
CFHQS J2329–0301	Quasars (Canada-France High-z Quasar Survey)	CFHQS_JHHMM±DDMM	
CFHT-BD-Tau 4	Brown dwarfs (Canada-France-Hawaii Telescope)	CFHT-BD-Con_N	4
CFHTLS	Quasars (Canada-France-Hawaii Telescope Legacy Survey)	CFHTLS_JHHMMSS.ss±DDMMSS.s	
J095914.80+023655.2			
CFHTLS-CL	Galaxy clusters (Canada-France-Hawaii Telescope Legacy Survey)	CFHTLS-CL_JHHMMSS±DDMMSS	
J022423–044303			
CFHTO 2	Emission-line objects (Canada-France-Hawaii Telescope)	CFHTO_NN	
CFRS 14.1311	Objects of unknown nature (Canada-France Redshift Survey)	CFRS_HH.NNNN	
CG	<i>use CaseG for galaxies</i>		
CG 30	Cometary Globules	CG_NN	38
CG 1116+51	Compact Galaxies	CG_HHMM±DD	
	(Systematic designation)		
CGCG	<i>use Z for Zwicky galaxies or ZwCl for Zwicky clusters of galaxies</i>		
CGCS 5848	Cool Galactic Carbon Stars	CGCS_NNNN	5987
CGO 36	O stars (Cruz Gonzalez O stars)	CGO_NNN	664
CGRO	<i>use GRO for gamma-ray sources</i>		
Cha Halpha 8	Emission-line stars (Chamaeleon Halpha)	Cha_Halpha_NN	13
CHXR 73	X-ray sources in Cha I (Chamaeleon I X-ray ROSAT)	CHXR_NN	89
Ci20 1223	Proper motion stars (Cincinnati No.20)	Ci20_NNNN	1474
CIG	<i>use KIG for isolated galaxies</i>		
CIT 6	Stars (California Institute of Technology)	CIT_NN	14

CIZA J1638.2–6420	Galaxy clusters (Clusters In Zone of Avoidance)	CIZA_JHHMM.m±DDMM	
CK 3	Pre-main-sequence stars in Serpens molecular cloud (Churchwell, Koornneef)	CK_NN	13
<i>Cl</i>	<i>use ClG for galaxy clusters</i>		
Cl Dias 6	Star clusters	Cl_Dias_NN	11
Cl Turner 2	Open clusters	Cl_Turner_N	9
Cl vdBH 176	Star clusters (van den Bergh, Hagen)	Cl_vdBH_NNN	262
C-L 1530+41	Radio sources (Clarke Lake)	C-L_HHMM±DD	
CL 4	Radio sources (Cygnus Loop)	CL_N	7
CLASS 1608+656	Gravitationally lensed objects (Cosmic Lens All-Sky Survey)	CLASS_HHMM±DDd	
CIG 0024+1654	Galaxy clusters (Systematic designation)	CIG_HHMM±DDMM or _HHMM.m±DDMM or _JHHMM±DDMM	
CLS 96	Faint red stars (Case Late Stars)	CLS_NNN	132
CM 13	Wolf-Rayet stars in M33 (Conti, Massey)	CM_NN	14
Cn1-5	Planetary nebulae (Cannon)	Cn1-N	6
Cn3-1	Planetary nebula (Cannon)	Cn3-N	1
<i>CoD</i>	<i>use CD for Cordoba Durchmusterung</i>		
Collinder 121	Open clusters	Collinder_NNN	471
CoKu Tau/1	Pre-main-sequence stars in Taurus-Auriga (Cohen, Kuhi)	CoKu_Tau/N	4
CoRoT-3	Stars with planets (Con vection, Rot ation and planetary Trans its)	CoRoT-N	7
<i>COROT-Exo</i>	<i>use CoRoT for stars with planets</i>		
COSMOS	Galaxies (Cosmic Evolution Survey)	COSMOS_JHHMMSS.ss±DDMMSS.s or _NNNNNNN	
J100043.15+020637.2			
COUP 1255	X-ray sources in Orion Nebula region (Chandra Orion Ultradeep Project)	COUP_NNNN or _JHHMMSS.s±DDMMSS	1616
Couteau 2031	Double stars	Couteau_NNNN	~2000
Cox 107	Cluster stars	Cox_NNN	116
CPD –23°1234	Stars (Cape Photographic Durchmusterung)	CPD_–DD°NNNNN	
CPM 16	Young stellar objects (Campbell, Persson, Matthews)	CPM_NN or _PNN (possible objects)	40 18
<i>Cr</i>	<i>use Collinder for open clusters</i>		
Craine 1548-27	Infrared sources	Craine_FFFF-NN	
CRBR 2422.8–3423	<i>use J(2000) style position only for stars in rho Oph cluster.</i> <i>[Note CRBR format is positional but with HH (=16) and DD (=-24) removed leaving just MMSS.s–MMSS in B(1950) style.]</i>		
<i>CRL</i>	<i>use AFGL for IR sources</i>		
CRSS J1705.3+6049	X-ray sources (Cambridge ROSAT Serendipity Survey)	CRSS_JHHMM.m±DDMM	
<i>CS 22876-32</i>	<i>use BPS CS for objective-prism stars</i>		
CSL-1	Gravitational lensing events (Capodimonte-Sternberg Lens)	CSL-N	4
CSO 177	Blue objects (Case Stellar Objects)	CSO_NNN	252
CSS 1255	S stars (Catalogue of Galactic S Stars)	CSS_NNNN	1347
CSS090213:	Optical transients (Catalina Sky Survey)	CSSYYMMDD:JHHMMSS±DDMMSS (Do not convert to OT)	
J033031+201402			
CSV 8883	Catalogue of Suspected Variables	CSV_NNNNNN	
CTA 79	Radio sources (Caltech A list)	CTA_NNN	106
CTB 80	Radio sources (Caltech B list)	CTB_NNN	110
CTCV J1928–5001	Cataclysmic variables (Calán-Tololo Cataclysmic Variable survey)	CTCV_JHHMM±DDMM	
CTD 93	Radio sources (Caltech D list)	CTD_NNN	143
CTI 000455.2+280301	Stars (CCD Transit Instrument, Kitt Peak)	CTI_HHMMSS.s±DDMMSS	
CTQ 325	Quasars (Calan Tololo QSOs)	CTQ_NNN	839

CTSS 1	Planetary nebulae (Cappellaro et al.)	CTSS_N	4
CW 1103+254	Cataclysmic binary stars (Case Western)	CW_HHMM±DDd	
CXOM31	X-ray sources	CXOAA or	
J004327.7+411829	(Chandra X-ray Observatory)	AAA or AAAA _JHHMMSS.s±DDMMSS (AAAA = object, field or project name / author initials)	
CXOU	X-ray sources	CXOU_JHHMMSS.s±DDMMSS	
J180951.1–194351	(Chandra X-ray Observatory Unregistered)		
Czernik 20	Open clusters	Czernik_NN	45
D 268	Dark nebulae in M31	D_NNN	730
DA 406	Radio sources	DA_NNN	615
	(Dominion Observatory list A)		
<i>Danks</i>	<i>use C 1310–624 for Danks 1 and C 1309–624 for Danks 2</i>		
DBB 80	Interstellar clouds	DBB_NNN	516
	(Desert, Bazel, Boulanger)		
DBSB 122	Infrared star clusters	DBSB_NNN	179
	(Dutra, Bica, Soares, Barbuy)		
<i>DC</i>	<i>use DOC for faint red stars</i>		
<i>DC</i>	<i>use DRCG for clusters of galaxies</i>		
DC 252.9–1.6	Dark Clouds	DC_LLL.l±BB.b	
	(Systematic designation)		
DdDm 1	Planetary nebula (Dolidze, Dzimselejsvili) (= PK 61+41°1)	DdDm_N	1
DDO 120	Dwarf galaxies	DDO_NNN	243
	(David Dunlap Observatory)		
<i>Dearborn</i>	<i>use DOC</i>		
DeHt 2	Planetary nebulae (Dengel, Hartl)	DeHt_N	5
<i>DEM</i>	<i>use DEML or DEMS for Magellanic H II regions</i>		
DEML 231	H II regions in LMC	DEML_NNN	329
	(Davies, Elliot, Meaburn)		
DEMS 161	H II regions in SMC	DEMS_NNN	167
	(Davies, Elliot, Meaburn)		
DENIS-P	Brown dwarf candidates	DENIS-P_JHHMM.m±DDMM	
J1228.2–1547	(Deep Near-Infrared Survey)	or _JHHMMSS.s±DDMMSS	
DEV G 30	Galaxy groups (de Vaucouleurs Groups)	DEV_G_NN	54
DG-187	Reflection nebulae (Dorschner, Guertler)	DG-NNN	192
DHK 16	Variable stars (D. H. Kaiser)	DHK_NN	43
DHW 5	Planetary nebulae	DHW_N	5
	(Dengel, Hartl, Weinberger)		
<i>Dias</i>	<i>use Cl Dias for star clusters</i>		
Djorgovski 2	Globular clusters	Djorgovski_N	3
<i>DM</i>	<i>use BD, CD, or CPD for Durchmusterung</i>		
DMS 0059–0055	Quasars (Deep Multicolor Survey)	DMS_HHMM±DDMM or _HHMM.m±DDMM	
<i>DO</i>	<i>use DOC for faint red stars</i>		
Do-Ar 21	Emission-line stars (Dolidze-Arakelian)	Do-Ar_NN	88
DOC 41288	Faint red stars (Dearborn Obs. Catalogue)	DOC_NNNNN	44076
<i>DoDz</i>	<i>use DdDm</i>		
Dolidze 42	Open clusters	Dolidze_NN	47
Don 17	Visual binary stars (Donner)	Don_NNNN	1031
DR 21	Radio sources (Downes, Rinehart)	DR_NN	27
<i>DrC</i>	<i>use DRCG for clusters of galaxies</i>		
DRCG 2048–52	Clusters of galaxies (Dressler)	DRCG_HHMM±DD	

DS 1	Planetary nebulae (Drilling, J. S.)	DS_N	2
DUO 2	Binary lens candidates (Disk Unseen Objects)	DUO_N	2
DV 79	Dunsink Variables in Magellanic Clouds	DV_NNN	307
DW 0137+15	Radio sources (Dwingeloo)	DW_HHMM±DD	
DWB 44	H II regions in Cyg X region (Dickel, Wendker, Bieritz)	DWB_NNN	193
Dwingeloo 1	Nearby galaxies (Dwingeloo)	Dwingeloo_N	2
<i>E</i>	<i>use 1E for Einstein X-ray sources</i>		
E 133	Cluster in SMC (Edinburgh)	E_NNN	168
EC 05138–5914	Blue objects (Edinburgh-Cape Survey)	EC_HHMMm±DDMM	
<i>EG</i>	<i>use EGGR for white dwarfs</i>		
EGB 5	Planetary nebulae (Ellis, Grayson, Bond)	EGB_NN	10
EGGR 290	White dwarfs (Eggen, Greenstein)	EGGR_NNN	558
EIC 482	Stars (Equatorial Infrared Catalogue)	EIC_NNN	896
EIS J0954–2023	Clusters of galaxies (ESO Imaging Survey)	EIS_JHHMM±DDMM	
El Roble 8	Degenerate stars	El_Roble_N	
ELAIS C15	Infrared sources	ELAIS_ANN_JHHMMSS±DDMMSS	
J050228–304140	(European Large Area ISO Survey)		
Elias1-12	Infrared sources in IC 5146	Elias1-NN	16
Elias2-22	Infrared sources in Oph dark cloud	Elias2-NN	87
Elias3-18	Infrared sources in Tau dark cloud	Elias3-NN	30
<i>EMSS</i>	<i>use 1E for X-ray sources</i>		
EQ 1839.6+8002	Equatorial coordinates (Systematic designation)	EQ_HHMM+DD _HHMM+DDd _HHMM.m+DDd _HHMM+DDMM _HHMM.m+DDMM _HHMM+DDMMSS _HHMM.m+DDMM _HHMMSS+DDMM _HHMMSS+DDMMm _HHMMSS+DDMMSS _HHMMSS+DDMMSS.s _HHMMSS.s+DDMMSS.s _JHHMM+DD _JHHMM+DDd _JHHMM+DDMM _JHHMMSS+DDd _JHHMM.m+DDMM _JHHMMSS+DDMM _JHHMMSS+DDMMSS _JHHMMSS+DDMMSS.s _JHHMMSS.s+DDMMSS.s	
<i>ER</i>	<i>use positional type designation only for Einstein Ring gravitational lenses e.g. 0047–2808</i>		
<i>ER</i>	<i>use El Roble for degenerate stars</i>		
ESO 048-G02	Optical sources, galaxies, nebulae, etc. (European Southern Observatory)	ESO_FFF-ObjNN (FFF is three digit number) (NN is digit pair) Obj=Object type IG: Interacting galaxies G : Galaxies PN: Planetary nebulae SC: Star clusters EN: Emission nebulae RN: Reflection nebulae	

		SNR: Supernova remnants A: Asteroids (No AOI) C: Comets (No AOI)	
ESO-Halpha 279	Emission-line stars (European Southern Observatory Halpha)	ESO-Halpha_NNN	281
EU 1737–132	X-ray sources (EURECA)	EU_HHMM±DDd	
EUVE J2132+10.1	UV sources (Extreme Ultraviolet Explorer)	EUVE_JHHMM±DD.d	
EXO 0748–676	X-ray sources (EXOSAT)	EXO_HHMM±DDd or _HHMMSS±DDMM.m	
EXS 1737.9–2952	X-ray sources (EXITE Sources)	EXS_HHMM.m±DDMM	
<i>F</i>	<i>use Feige for blue stars</i>		
<i>F-</i>	<i>use Fairall for galaxies</i>		
F2M	Quasars (FIRST-2MASS)	F2M_JHHMMSS.ss±DDMMSS.s	
J083011.13+375951.9			
Fagerholm 190	Blue stragglers in M67	Fagerholm_NNN	>238
Fairall 9	Galaxies	Fairall_NNNN	1185
FBQS J0051+0041	Quasars (FIRST Bright Quasar Survey)	FBQS_JHHMM±DDMM	
FBS 1754+428	Late-type stars (First Byurakan Survey)	FBS_HHMM±DDd	
FCC 118	Galaxies (Fornax Cluster Catalogue)	FCC_NNN	340
Feige 66	Blue stars	Feige_NNN	114
FeSt 1-457	Dark nebulae and globules (Feitzinger, Stüwe)	FeSt_1-NNN	489
		_2-NNN	331
Fg 1	Planetary nebulae (Fleming)	Fg_N	3
FGC 175	Flat Galaxy Catalogue	FGC_NNNN	2573
FGL	<i>use OFGL for gamma-ray sources</i>		
Finsen 342	Visual binary stars	Finsen_NNN	
FIRST	Radio sources (VLA Faint Images of the	FIRST_JHHMMSS.s±DDMMSS	
J084044.5+363328	Radio Sky at Twenty centimetres)		
FJF 272	Carbon stars (F. J. Fuenmayor)	FJF_NNN	283
FMM 20	Stars (Feinstein, Marraco, Muzzio)	FMM_NNN	132
FOV J0743+1553	Gravitationally lensed radiosources (FIRST-Optical-VLA)	FOV_JHHMM±DDMM	
<i>FSC</i>	<i>use IRAS for Faint Source Catalogue</i>		
FSO 229	Flare Stars in Orion	FSO_NNN	
FSP 229	Flare Stars in Pleiades	FSP_NNN	519
FSR 1767	Infrared star clusters (Froebrich, Scholz, Raftery)	FSR_NNNN	1788
<i>FTM</i>	<i>use F2M for quasars</i>		
FXP 0520–66	Flaring X-Ray Pulsar	FXP_HHMM±DD	
<i>G</i>	<i>use Giclas for proper motion stars</i>		
<i>G</i>	<i>use GV for LMC stars</i>		
G 120.0–0.2	Galactic sources (Systematic designation)	G_LLL.l±BB.b or _LLL.ll±BB.bb	
<i>GB</i>	<i>use GRB for gamma-ray bursts</i>		
GB1 1055+499	Radio sources (Green Bank 1st survey)	GB1_HHMM±DDd	
GB2 1401+350	Radio sources (Green Bank 2nd survey)	GB2_HHMM±DDd	
GB3 2359+747	Radio sources (Green Bank 3rd survey)	GB3_HHMM±DDd	
GB6 J1430+4204	Radio sources (Green Bank 6 cm survey)	GB6_HHMM±DDMM or _JHHMM±DDMM	
GBS 0526–66	Gamma Burst Sources	GBS_HHMM±DD	
GC 17838	Stars (General Catalogue)	GC_NNNNN	33342
GC 1342+66	Radio sources (Green Bank C Catalogue)	GC_HHMM±DD	
<i>GCCS</i>	<i>use CCS for carbon stars</i>		
GCRT J1745–3009	Galactic Center Radio Transient	GCRT_JHHMM±DDMM	
GCS 3-IV	Infrared sources (Galactic Centre Sources)	GCS_NN	15
		_A (A to J)	
		_3-N (1 to 4) or _3-R	

GCSS 227	S stars (General Catalogue of S Stars) (Stephenson 1976)	GCSS_NNN	741
GD 1401	Giclas white Dwarfs or blue stars	GD_NNNN	1712
GEV J2253+1622	Gamma-ray sources (Giga Electron Volt)	GEV_JHHMM±DDMM	
GF 9	Globular Filaments	GF_NN	23
GGD 29	Herbig-Haro objects (Gyulbudaghian, Glushkov, Denisyuk)	GGD_NN	37
<i>GH</i>	<i>use HG for Giclas Hyades white dwarfs</i>		
GHCG 52	Galaxy clusters (Geller, Huchra clusters of galaxies)	GHCG_NNN	176
GHO 2154+0508	Galaxy clusters (Gunn, Hoessel, Oke)	GHO_HHMM±DDMM	
Giclas 163-28	Proper motion stars	Giclas_FFF-NNN	
Giclas 191-B2	Proper motion stars-Blue	Giclas_FFF-BNN	
Ginga 1826-238	X-ray sources (Ginga satellite)	Ginga_HHMM±DD or _HHMM±DDd or _HHMM.m±DDMM	
GJ 3379	Nearby stars (Gliese, Jahreiss) <i>for NNN use Gliese</i>	GJ_NNNN (1000-1294, 2001-2159, 3001-4388)	4388
<i>Gl</i>	<i>use Gliese for nearby stars</i>		
<i>GL</i>	<i>use AFGL for infrared sources</i>		
GLARE 3001	Galaxies (Gemini Lyman Alpha at Reionisation Era)	GLARE_NNNN	>3011
Glass F	Non-emission-line stars near Cha T	Glass_A (letters A to V)	
Glazar 1724+12	UV sources (Glazar Space Telescope)	Glazar_HHMM±DD	
Gliese 905	Nearby stars	Gliese_NNN or _NNN.N	
GLKA 1996	Stars (Garnijskoj Lab. Kosm. Astron.) <i>use IRAS designation for IR sources</i>	GLKA_NNNN	2215
<i>GLMP</i>			
GM 274	Emission-line objects (Gomez, Mendoza)	GM_NNN	275
GM1-27	Cometary nebulae (Gyul'budagyan, Magakyan)	GM1-NN	79
<i>Gmb</i>	<i>use Groombridge for stars</i>		
GMP 3292	Galaxies in Coma cluster (Godwin, Metcalfe, Peach)	GMP_NNNN	6724
GN 22.28.3.01	Galactic nebulae	GN_HH.MM.m.NN	
GNO 44	Galaxy group Number	GNO_NN	92
GOODS 850-3	Submillimetre sources (Great Observatories Origins Deep Survey 850 µm)	GOODS_850-NN	45
GP 1444	Galaxies in Abell 1367 (Godwin, Peach)	GP_NNNN	1561
GPop 34	Visual binary stars (G. Popovic)	GPop_NN	
GPS 1742-326	X-ray sources (Galactic Plane Survey)	GPS_HHMM±DDd	
GPX 84	X-ray sources (Galactic plane)	GPX_NNN	
<i>GR</i>	<i>use EGGR for white dwarfs</i>		
<i>GR</i>	<i>use GRomano for variable stars</i>		
GR 8	Galaxies (G. Reaves)	GR_NN	66
GR 0625+16	Radio sources (Grakova Radio Astron. Observatory)	GR_HHMM±DD	
GRB 050219A	Gamma-Ray Bursts (Systematic designation)	GRB_YYMMDD or _YYMMDDA (use all digits)	
GRB 1915+105	Gamma-Ray Bursts	GRB_HHMM±DDd	
Greenstein 172	Stars in M4	Greenstein_NNN	655
Grindlay 1	Globular cluster	Grindlay_N	1
GRO J0422+32	Gamma-ray sources (Compton Gamma-Ray Observatory)	GRO_JHHMM±DD	
GRomano 287	Variable stars (G. Romano)	GRomano_NNN	292

Groombridge 1830	Stars	Groombridge_NNNN	4243
GRS 1758–258	X-ray sources (Granat Space Observatory Source)	GRS_HHMM±DDd	
GRV 16	Nebulae (Gyulbudaghian, Rodriguez, Villanueva)	GRV_NN	23
Grw +70°8247	White dwarf stars (Greenwich AC Zone)	Grw_±DD°NNNN	
<i>GS</i>	<i>use Ginga for X-ray sources</i>		
<i>GS</i>	<i>use GSh for Galactic shells</i>		
<i>GS</i>	<i>use Simeis for H II regions</i>		
GSC 0323-00396	Stars (Guide Star Catalogue)	GSC_FFFF-NNNNN (use all digits)	
GSC2.2 N3022313162	Stars (Guide Star Catalogue Version 2.2)	GSC2.2_N or S followed by 8 (base-4) digits then up to 6 (base-10) digits without leading zeros or spaces	
GSh 135+29+4	Galactic Shells	GSh_LLL±BB±VV or _LLL.l±BB.b±VV	
GSS 30	Infrared sources in Oph dark cloud (Grasdalen, Strom, Strom)	GSS_NN	41
GT 0116+622	Variable radio sources (Gregory, Taylor)	GT_HHMM±DDd	
Gum 29	Southern H II regions	Gum_NN	85
GUVV	UV sources	GUVV_JHHMMSS.s±DDMMSS.s	
J124906.9–010421.9	(GALEX Ultraviolet Variability)		
GV 95	Stars in LMC (Grande Vitesse)	GV_NNN	750
GW 35.3+0.9	Interstellar structures (Galactic Worms)	GW_LLL.l±BB.b	
GX 349+2	Galactic X-ray sources (Systematic designation)	GX_LLL±BB	
Gyul1-4	Herbig-Haro-like objects (Gyul’budagyan)	Gyul1-NN	21
Gyul2-11	Herbig-Haro-like objects (Gyul’budagyan)	Gyul2-NN	12
GY92	Pre-main-sequence stars in rho Oph (Greene, Young)	GYNNN (no space)	481
<i>H</i>	<i>use NRAO for radio sources</i>		
<i>H</i>	<i>use HCG for galaxy groups</i>		
H 0850+13	X-ray sources (HEAO)	H_HHMM±DD or _HHMM±DDd	
H1-49	Planetary nebulae (Haro)	H1-NN	67
H2-48	Planetary nebulae (Haro)	H2-NN	48
H3-29	Planetary nebulae (Haro) (H3-29 and H3-75)	H3-NN	75
H4-1	Planetary nebula (Haro) (= PK 49+88°1)	H4-N	1
Had V46	Variable stars (Haseda)	Had_VNNN	105
Haffner 3	Open clusters	Haffner_NN	26
HambS 1946+7658	Objects found during objective prism survey (Hamburg Schmidt)	HambS_HHMM±DDMM	
Haro 21	Galaxies	Haro_NN	44
Haro 6-5	Emission-line stars, planetary nebulae	Haro_N-NNN (Haro 1- to Haro 6-)	
Harvard 5	Open clusters	Harvard_NN	47
HAT-P-1b	Extrasolar planets (Hungarian Automated Telescope-Planet)	HAT-P-NNa	13
HaWe 4	Possible planetary nebulae (Hartl, Weinberger)	HaWe_NN	13
<i>Hb</i>	<i>use Hubble for planetary nebulae</i>		
HB 21	Radio sources (Hanbury Brown)	HB_NN	23
HBC 372	Pre-main-sequence stars (Herbig-Bell-Catalogue)	HBC_NNN	742
HBK 407-352	<i>use SKHB for globular clusters in M31 (using only digits after the hypen)</i>		

HBV 475	Hamburg-Bergedorf Variables	HBV_NNN	
HC 30	Radio sources (Holden, Caswell)	HC_NN	45
HCG 18	Galaxy groups (Hickson Compact Groups)	HCG_NNN	100
HD 192713	Stars (Henry Draper Catalogue)	HD_NNNNNN	225300
HDE 226868	Stars (Henry Draper Extension) >225300	HDE_NNNNNN	
HDF 850.1	Submillimetre wave sources (Hubble Deep Field)	HDF_850.N	8
<i>HDFS 85</i>	<i>use HDFS in positional format for galaxies</i>		
HDFS	Galaxies (Hubble Deep Field South)	HDFS_JHHMMSS.ss±DDMMSS.s (HH=22, ±DD=−60)	
J223246.91–603146.9			
HDW 12	Planetary nebulae (Hartl, Dengel, Weinberger)	HDW_NN	13
He 3	White dwarfs (Hertzsprung)	He_NN	
He1-2	Planetary nebulae (Henize)	He1-N	7
He2-113	Planetary nebulae (Henize)	He2-NNN	468
He3-640	Emission-line stars (Henize)	He3-NNNN	1929
He4-250	SC stars (Henize)	He4-NNN	250
<i>HE</i>	<i>use He2 or He3 for planetary nebulae or emission-line stars</i>		
HE 1029–1401	Quasars (Hamburg-ESO survey)	HE_HHMM±DDMM	
HeHa 680	Spectroscopic binary stars (Herbst, Havlen)	HeHa_NNN	
Heinemann 304	Stars	Heinemann_NNN	396
Heintz 7	Visual binary stars	Heintz_N	
Hen S 131	H-alpha emission stars (Henize) (Hen S... = LHalpα 120-S...)	Hen_S_NNN	172
<i>Hen or HEN</i>	<i>use He2 or He3 for planetary nebulae or emission-line stars</i>		
<i>Henize</i>	<i>use He2 or He3 for planetary nebulae or emission-line stars</i>		
Herschel 4707	Visual binary stars	Herschel_NNNN	
HESS J1813–178	Gamma-ray sources (High Energy Stereoscopic System)	HESS_JHHMM±DDd	
HETE J1900.1–2455	X-ray sources (High Energy Transient Explorer)	HETE_JHHMM.m±DDMM	
Hewett 1	Planetary nebula	Hewett_N	1
Hf 48	Bright nebulae, planetary nebulae (Hoffleit)	Hf_NN	69
Hf2-2	Planetary nebulae (Hoffleit)	Hf2-N	2
HFG 1	Planetary nebula (Heckathorn, Fesen, Gull) (= PK 136+5°1)	HFG_N	1
<i>HG</i>	<i>use GNO for galaxy groups</i>		
<i>HG</i>	<i>use GRB or XRF with YYMMDD format for host galaxies of transient events</i>		
HG 7-21	White dwarfs (Hyades Giclas)	HG_F-NNN	
HH 103	Herbig-Haro objects	HH_NNN	897
<i>H-H</i>	<i>use HH for Herbig-Haro objects</i>		
<i>HH-</i>	<i>use HH for Herbig-Haro objects</i>		
HHJ 3	Stars in M45 (Hambly, Hawkins, Jameson)	HHJ_NNN	
HHL 73	Herbig-Haro-Like nebulosities	HHL_NN	77
HI 2334+26	Intergalactic clouds	HI_HHMM±DD	
HIC 83921	Stars (Hipparcos Input Catalogue)	HIC_NNNNNN	120313
<i>Hickson</i>	<i>use HCG for galaxy groups</i>		
HII 2244	Stars (Hertzsprung)	HII_NNNN	3334
HIJASS J1021+6842	Radiosources (H I Jodrell All-Sky Survey)	HIJASS_JHHMM±DDMM or _JHHMM±DD_A	
Hiltner 600	OB stars	Hiltner_NNNN	1259

HIP 83921	Stars (Hipparcos)	HIP_NNNNNN	118218
HIPASS J1321–31	Radiosources (H I Parkes All Sky Survey)	HIPASS_JHHMM±DD	
HIZOA J0630+08	Galaxies (H I Zone of Avoidance Survey)	HIZOA_JHHMM±DD	
HIZSS 3	Galaxies (H I Zone of Avoidance Southern Survey)	HIZSS_NNN	110
<i>HJ</i>	<i>use Herschel for visual binary stars</i>		
<i>HL</i>	<i>use PHL for faint blue stars, quasars</i>		
HLF2 S70	Stars (High-Latitude Field 2, Standard stars)	HLF2_SNN	84
HLF2 17°132	Stars (High-Latitude Field 2)	HLF2_DD°NNN	
HM 4	Emission-line stars (Henize, Mendoza)	HM_NN	32
HMS 2308+0720	Clusters of galaxies (Humason, Mayall, Sandage)	HMS_HHMM±DDMM	
HMV 13	Molecular clouds (Heithausen, Mebold, de Vries)	HMV_NN	15
Hn 15	Emission-line stars in Cha I, II (Hartigan)	Hn_NN	26
H.O. +23°B	Stars near Galactic Pole (Haegkvist, Oja)	H.O. _+DD°A	
Hodge 4	LMC globular clusters	Hodge_NN	
Hogg 22	Open clusters	Hogg_NNN	133
Holmberg IX	Galaxies	Holmberg_R	
Holmberg 124	Clusters of galaxies	Holmberg_NNN	827
<i>HP</i>	<i>use OHP for Star clusters</i>		
HPW 44	Dwarf galaxies in Fornax cluster (Hodge, Pyper, Webb)	HPW_NN	47
HR 9097	Stars (Harvard Revised Photometry)	HR_NNNN	9110
HRC 69	Emission-line stars (Herbig-Rao Catalogue)	HRC_NNN	323
HRG 2302	Ring galaxies (Hertling Ring Galaxies)	HRG_FFFNN	
HS 139	Open clusters in LMC (Hodge, Sexton)	HS_NNN	455
<i>HS 1946+7658</i>	<i>use HambS for objects found during Hamburg Schmidt Survey</i>		
HST J14176+5226	Objects found by Hubble Space Telescope	HST_JHHMMm±DDMM	
<i>HtDe</i>	<i>use HDW for planetary nebulae</i>		
HtTr 4	Planetary nebulae (Hartl, Tritton)	HtTr_NN	14
<i>Hu or HU</i>	<i>use Hussey for visual binary stars</i>		
Hu1-2	Planetary nebulae (Humason)	Hu1-N	2
Hubble 12	Planetary nebulae	Hubble_NN	12
Hussey 1597	Visual binary stars	Hussey_NNNN	
HV 13033	Harvard Variables	HV_NNNNN	15000
HVC 287.5+22.5+240	High Velocity Clouds	HVC_LLL±BB±VVV or _LLL.l±BB.b±VVV	
HW 62	Open clusters in SMC (Hodge, Wright)	HW_NN	86
HXR 0638+38	Hard X-Ray sources (Systematic designation)	HXR_HHMM±DD	
<i>H-Z</i>	<i>use HZ for blue stars</i>		
HZ 21	Blue stars (Humason, Zwicky)	HZ_NN	48
I Zw 186	Galaxies (Zwicky)	R_Zw_NNN (R = I to VII)	
IC 4997	Index Catalogue of Nebulae (includes star clusters and galaxies)	IC_NNNN	5386
IDS 22187S4157	Index Catalogue of Double Stars	IDS_HHMMmNDDMM or _HHMMmSDDMM	
IGR J16318–4848	X-ray sources (INTEGRAL)	IGR_JHHMMm±DDMM	
IGVV 789	Interacting galaxies (Vorontsov-Vel'yaminov)	IGVV_NNN	852
II Zw 136	Galaxies (Zwicky)	R_Zw_NNN	
III Zw 2	Galaxies (Zwicky)	R_Zw_NNN	

IKT 23	X-ray SNRs in SMC (Inoue, Koyama, Tanaka)	IKT_NN	25
Innes 52	Visual binary stars	Innes_NN	
IPHAS	Stars (INT Photometric H α Survey)	IPHAS_JHHMMSS.ss $\pm$ DDMMSS.s	
J053430.11+251400.9			
IPHASX	Nebulae (INT Photometric H α Survey eXtended sources)	IPHASX_JHHMMSS.s $\pm$ DDMMSS	
J052531.2+281946			
IRAC	Infrared sources (Infrared Array Camera)	IRAC_JHHMMSS.s $\pm$ DDMMSS or _JHHMMSSss $\pm$ DDMMSSs	
J142950.8+333011			
IRAM 04191+1522	Radiosources (Instituto Radioastronomia Milimetrica)	IRAM_HHMMm $\pm$ DDMM	
IRAS 15532–4210	Infrared sources (Infrared Astronomical Satellite)	IRAS_HHMMm $\pm$ DDMM	
IRAS 0536+467P05	Infrared sources (Provisory list)	IRAS_HHMM $\pm$ DDdPNN (NN = Circular number)	
<i>IRAS F15307+3252</i>	<i>use IRAS and omit “F”</i>		
IRc 2	Infrared objects in Orion	IRc_N	5
IRC +10216	Infrared Catalogue	IRC_ $\pm$ D0NNN (use sign and all digits)	
<i>IRDC 18223-3</i>	<i>use IR designation with subcomponent, e.g. IRAS 18223–1243_3</i>		
<i>IRS 5</i>	<i>use Subcomponent notation e.g. LDN NNN IRS N for Galactic centre use Sgr A IRS NN</i>		
IRSV 1540–5413	Infrared sources (IR Survey Valinhos)	IRSV_HHMM $\pm$ DD(dd)	
ISCS	Galaxy clusters (IRAC Shallow survey Cluster Search)	ISCS_JHHMMSS $\pm$ DDMMSS	
J143809+341419			
ISO-ChaI 86	IR sources (ISOCAM sources in Chamaeleon I dark cloud)	ISO-ChaI_NNN	282
ISO-ChaII 13	IR sources (ISOCAM sources in Chamaeleon II dark cloud)	ISO-ChaII_NNN	115
ISOSS J20246+6540	Submillimetre sources (ISOPHOT Serendipity Survey)	ISOSS_JHHMMm $\pm$ DDMM	
IV Zw 122	Galaxies (Zwicky)	R_Zw_NNN	
IVC 86.0+38.5–44	Intermediate Velocity Clouds	IVC_LLL.l $\pm$ BB.b $\pm$ VVV	
IW 2	Planetary nebulae (Ishida, Weinberger)	IW_N	2
IXO 35	X-ray sources (Intermediate-luminosity X-ray Objects)	IXO_NN	87
J03.13	Objects on Kodak IIIa-J plates	JFF.NN (no space)	
J 900	Stars or planetary nebulae (Jonckheere)	J_NNNN	3355
J2250+194	Truncated 2000.0 coordinates	JHHMM $\pm$ DDd	
Jenkins 3425	Parallax stars	Jenkins_NNNN	7534
JJ 118	Galaxies (Jones, Jones)	JJ_NNN	
JL 236	Stars (Jaidee, Lynga)	JL_NNN	296
JMG 0918–0023	Infrared survey stars (Jones, Miller, Glazebrook)	JMG_HHMM $\pm$ DDMM	
Jn 1	Planetary nebula (Jones)	Jn_N	1
JVAS 0218+357	Radio sources (Jodrell Bank-VLA Astrometric Survey)	JVAS_HHMM+DD or _HHMM+DDd (not DD.d) _JHHMM+DDd or _HHHMM+DDMM	
JW 710	Stars near Orion Nebula (Jones, Walker)	JW_NNNN	1053
K1-16	Planetary nebulae (Kohoutek)	K1-NN	33
K2-62	Planetary nebulae (Kohoutek)	K2-NN	17
K3-62	Planetary nebulae (Kohoutek)	K3-NN	94
K4-12	Planetary nebulae (Kohoutek)	K4-NN	60
K5-16	Planetary nebulae (Kohoutek)	K5-NN	39
K6-1	Planetary nebulae (Kohoutek)	K6-NN	42

KaPa 4	Planetary nebulae (Kazarian, Parsamian)	KaPa_N	8
Karachentsev 330	Galaxy pairs	Karachentsev_NNN	603
Karachentseva 61	Dwarf galaxies	Karachentseva_NNN	241
Kazarian 163	Galaxies	Kazarian_NNN	466
<i>KDG</i>	<i>use Karachentseva for dwarf galaxies</i>		
<i>Ke</i>	<i>use Kes for Galactic radio sources</i>		
Kelu-1	Brown dwarf candidate (“kelu”=red)	Kelu-N	1
Kepler-6b	Extrasolar planets (Kepler mission)	Kepler-Na	8
Kes 32	Galactic radio sources (Kesteven)	Kes_NN	80
<i>Kesteven</i>	<i>use Kes for Galactic radio sources</i>		
KeWe 1	Planetary nebula (Kerber, Weinberger)	KeWe_N	1
Kh 257	Dark nebulae (Khavtasi)	Kh_NNN	797
<i>KH</i>	<i>use Kh for dark nebulae</i>		
<i>KH</i>	<i>use NGC 2264 KH ... for Kearns & Herbst stars in NGC 2264</i>		
<i>Khav</i>	<i>use Kh for dark nebulae</i>		
<i>Khavtasi</i>	<i>use Kh for dark nebulae</i>		
KHG1-15	Galaxies (Kerr, Henning Galaxies)	KHG1-NN	16
KIC 10874614	Stars (Kepler Input Catalog)	KIC_NNNNNNNN	
KIG 836	Karachentseva Isolated Galaxies	KIG_NNNN	1051
King 8	Open clusters	King_NN	21
<i>KjPn</i>	<i>use KaPa for planetary nebulae</i>		
<i>KK</i>	<i>use alternative designation for Karachentseva-Karachentsev galaxies (e.g. ESO)</i>		
KKH 98	Dwarf galaxies (Karachentsev, Karachentseva, Huchtmeier)	KKH_NNN	101
<i>KL</i>	<i>use Ori KL for Kleinmann-Low nebula</i>		
KLEM 27	Galaxy clusters (Klemola)	KLEM_NN	44
KMS 36	Infrared sources in LDN 1641 (K. M. Strom)	KMS_NNN	123
<i>Ko</i>	<i>use Koelbloed for open cluster stars</i>		
<i>KO</i>	<i>use Koelbloed for open cluster stars</i>		
Koelbloed 232	Open cluster stars	Koelbloed_NNN	431
<i>KOI</i>	<i>use Kepler or KIC number for Kepler Objects of Interest</i>		
Konigstuhl 2	Double and multiple stars (Königstuhl survey)	Konigstuhl_N	3
KP 269	Globular cluster in M31 (Kitt Peak)	KP_NNN	355
KP 0805.4+04.7	Quasars (Kitt Peak)	KP_HHMM.m±DD.d	
KPD 2023+5239	UV-Excess objects (Kitt Peak, Downes)	KPD_HHMM±DDMM	
<i>KPG</i>	<i>use Karachentsev for galaxy pairs</i>		
KPNO-Tau 4	Low-mass stars (Kitt Peak National Observatory)	KPNO-Con_NN	15
KPNO0 1	Emission-line objects (Kitt Peak National Observatory)	KPNO0_NN	14
Kpr 108	Visual binary stars (Kuiper)	Kpr_NNN	
KR 132	Radio sources (Kallas, Reich)	KR_NNN	236
Kron 3	Open clusters in SMC	Kron_NN	69
<i>KS</i>	<i>use Kvant for X-ray sources</i>		
KS 292	OB stars (Klare, Szeidl)	KS_NNNN	1660
Ku 648	Stars in M15 (Küstner)	Ku_NNNN	1137
KUG 1031+398	Kiso UV-bright Galaxies	KUG_HHMM±DDd	
KUV 343-10	Kiso UV-excess objects	KUV_FFFF-NN	
KUV 03079-0101	Kiso UV-excess objects	KUV_HHMMm±DDMM	
Kvant 1731-260	X-ray sources (Mir-Kvant X-ray Observatory)	Kvant_HHMM±DDd	
KW 207	Open cluster stars (Klein, Wassink)	KW_NNN	577

<i>KZP</i>	<i>use CSV for suspected variables</i>		
<i>L</i>	<i>use LDN for dark nebulae (Lynds)</i>		
L 745-46	Proper motion stars (Luyten)	L_FFFF-NNNN	
Lalande 21185	Stars	Lalande_NNNNN	47390
Lanning 10	UV-bright stars	Lanning_NNN	734
LB 9743	Luyten Blue stars	LB_NNNNN	11444
<i>LBDS 53W92</i>	<i>use Westerbork-53 92 for radio sources</i>		
	<i>(Leiden-Berkeley Deep Survey)</i>		
LBG	Galaxies (Lyman Break Galaxies)	LBG_JHHMMSS.ss±DDMMSS	
J213512.73-010143			
LBN 11	H II regions (Lynds Bright Nebulae)	LBN_NNNN or _LLL.ll±BB.bb	1125
LBQS 1136-0132	Quasars (Large Bright Quasar Survey)	LBQS_HHMM±DDMM	
LCDCS S1	Galaxy clusters (Las Campanas Distant Cluster Survey)	LCDCS_NNNN or _SNNN	1073 112
LD 171	Variable stars (Lennart Dahlmark)	LD_NNN	280
LDN 1551	Lynds Dark Nebulae	LDN_NNNN	1802
LDS 455	Proper motion stars (Luyten Double Stars)	LDS_NNNN	3014
LEDA 2557	Galaxies (Lyon-Meudon Extragalactic Database)	LEDA_NNNNNNN	>3099000
LEHPM 2-59	Proper motion stars (Liverpool-Edinburgh High Proper Motion)	LEHPM_NNNN or _2-NNNN	6614 5396
LFAM 26	Radio sources (Leous, Feigelson, André, Montmerle)	LFAM_NN	35
LFT 349	Stars (Luyten's Five Tenths)	LFT_NNNN	1849
LGG 94	Galaxy groups (Lyon Group of Galaxies)	LGG_NNN	485
LGS 3	Local Group Suspected galaxies	LGS_N	5
LH 113	Associations in LMC (Lucke, Hodge)	LH_NNN	122
<i>LHa 120-S</i>	<i>use Hen S</i>		
LHalpα 332-20	Emission-line stars (Lamont, Hussey Halpα)	LHalpα_NNN-NN	
LHG 83	X-ray sources in LMC (Long, Helfand, Grabelsky)	LHG_NN	97
LHS 2924	Luyten High-velocity Stars	LHS_NNNN	4000
<i>Lick</i>	<i>use LkHalpα for emission-line stars</i>		
Liller I	Globular cluster	Liller_R	
LIN 302	Emission-line objects in SMC (Lindsay)	LIN_NNN	593
Lindsay 83	Open clusters in SMC	Lindsay_NNN	116
LkCa 19	Emission-line stars (Lick Ca survey)	LkCa_NN	21
<i>LkH</i>	<i>use LkHalpα for emission-line stars</i>		
LkHalpα 201	Emission-line stars (Lick Halpα)	LkHalpα_NNN	359
LM1-64	Planetary nebulae in LMC (Lindsay, Mullan)	LM1-NN	65
LMC N206	H II regions in LMC	LMC_NNNN	221
LMC S22	Emission-line stars in LMC	LMC_SNNN	172
Lo 18	Planetary nebulae (Longmore)	Lo_NN	18
Loden 1409	Open clusters	Loden_FFFF	
<i>Longmore</i>	<i>use Lo for planetary nebulae</i>		
LoTr 5	Planetary nebulae (Longmore, Tritton)	LoTr_NN	11
LP 701-29	Proper motion stars (Luyten, Palomar)	LP_FFF-NNNN	
<i>LPM</i>	<i>use LHS for Luyten high-velocity stars</i>		
<i>LS</i>	<i>use LSS for southern luminous stars</i>		
LSB F568-6	Galaxies (Low Surface Brightness)	LSB_FFFF-N or _L1NNN	
LS I +61°303	Luminous OB-stars	LS_R_±DD°NNN (R = I to VI)	
LSE 125	Stars (Luminous Star Catalogue Extension)	LSE_NNN	281
<i>LSN</i>	<i>use LS for luminous stars</i>		

LSPM J2322+7847	Proper motion stars (Lépine, Shara Proper Motion)	LSPM_JHHMM±DDMM	
LSR J0822+1700	Proper motion stars (Lépine, Shara, Rich)	LSR_JHHMM±DDMM	
LSS 2018	Luminous Stars Southern Milky Way	LSS_NNNN	5132
LSSMW	<i>use LSS for Luminous Stars in Southern Milky Way</i>		
LSWR 4	Wolf-Rayet stars (L. Smith Wolf Rayet)	LSWR_NN	16
LT 6	Ring galaxies (L. Thompson)	LT_NN	40
LTG 84	List of Triple Galaxies	LTG_NN	84
LTT 9239	Proper motion stars (Luyten's Two Tenths)	LTT_NNNNN	18546
Lupus-TR 3	Stars with planets (Lupus Transit Survey)	Lupus-TR_N	4
LVC 127+20-3	Low-Velocity Clouds	LVC_LLL±BB±VVV	
LW 240	Clusters in LMC (Lynga, Westerlund)	LW_NNN	483
Lynds	<i>use LDN for dark nebulae</i>		
Lynga 6	Open clusters (Lyngå)	Lynga_NN	14
M II	High-velocity clouds (Mathewson)	M_R	
M101	Messier objects	MNNN (no space)	110
M1-92	Planetary nebulae or H II regions (Minkowski)	M1-NNN (1-80=PN, 81-103=H II)	103
M2-56	Planetary nebulae or H II regions (Minkowski)	M2-NN (1-56=PN, 57-74=H II)	74
M3-55	H II regions (Minkowski)	M3-NN	62
M4-18	Planetary nebulae (Minkowski)	M4-NN	18
M31N 2003-07a	Novae in M31 (Systematic designation)	M31N_YYYY-MMa (MM is digit pair)	
MA 2	H II regions or clusters in M33 (Mayall, Aller)	MA_NN	21
MaCa 1837-614	Elliptical galaxies (Malin, Carter)	MaCa_HHMM±DDd	
MacC H 10	Emission-line stars (MacConnell Halpha)	MacC_H_NN	24
MacC Sh 9	Suspected emission-line stars (MacConnell suspected Halpha)	MacC_Sh_NN	20
MACHO	Gravitational lensing events	MACHO_NNN.NNNNN.NNNN	
104.20906.3973	(massive compact halo objects)	or _YY-TTT-NN (TTT = BLG, SMC, LMC) or _JHHMMSS.s±DDMMSS	
MACS	Stars in Magellanic Clouds	MACS_JHHMM±DDd_NNN	
J0522-710 002	(Magellanic Catalogue of Stars)	(NNN is three digits)	
MACS J0717.5+3745	Galaxy clusters (Massive Cluster Survey)	MACS_JHHMM.m±DDMM	
Maf 150	Variables in M16-M17 field (Maffei)	Maf_NNN	208
Maffei 2	Galaxies	Maffei_N	2
MAGIC J0616+225	Gamma-ray sources (Major Atmospheric Gamma Imaging Cherenkov telescope)	MAGIC_JHHMM±DDd or _JHHMM±DDMM	
Mailyan 17	Dwarf spheroidal galaxies	Mailyan_NNN	104
Malin 1	Galaxies	Malin_N	2
Markarian	<i>use Mrk for galaxies</i>		
Markarian 50	Open clusters	Markarian_NN	50
Mayall II	Globular clusters in M31	Mayall_R	VI
MB 1	Nearby galaxies (McCall, Buta)	MB_N	2
MBG 02223-1922	Montreal-Blue Galaxy Survey	MBG_HHMMm±DDMM	
MBM 12	Molecular clouds (Magnani, Blitz, Mundy)	MBM_NN	57
MC 77	Radio sources, H II regions in LMC (Magellanic Cloud)	MC_NNN	102
MC2 1548+114	Radio sources (Molonglo Catalogues)	MCN_HHMM±DDd (MC1 to MC5)	
MCA 1 b	WR stars in M33 (Massey, Conti, Armandroff)	MCA_NN_a	17
McAl 63	Visual binary stars (MacAlister)	McAl_NN	
McC 890	M stars (McCormick Observatory)	McC_NNN	895

MCCS 79-11	Carbon stars (MacConnell Carbon stars)	MCCS_YY-NN	
MCG 9-20-51	Morphological Catalogue of Galaxies	MCG_FF-FF-NNNN or _-FF-FF-NNNN	
<i>MCLD</i>	<i>use DC for molecular clouds</i>		
<i>MCS</i>	<i>use UM for extragalactic emission-line objects</i>		
MCT 0130–1937	UV-excess objects in Southern Hemisphere (Montreal-Cambridge-Tololo)	MCT_HHMM±DDMM	
MD 4	Radio sources in Sgr B2 (Martin, Downes)	MD_N	7
Melotte 25	Open and globular clusters	Melotte_NNN	245
<i>Mel</i>	<i>use Melotte for open and globular clusters</i>		
Me1-1	Planetary nebulae (Merill)	Me1-N	1
Me2-1	Planetary nebulae (Merill)	Me2-N	2
<i>Menzel</i>	<i>use Mz for emission-line objects</i>		
<i>Messier</i>	<i>use M for Messier objects (no space)</i>		
MeWe 10	Planetary nebulae (Melmer, Weinberger)	MeWe_NN	11
MG 5	LMC stars (Mendoza, Gomez)	MG_NNN	206
MG J0414+0534	Radio sources (MIT Green Bank)	MG_JHHMM±DDMM or _HHMM±DDd	
MG3 J225155+2217	Radio sources (MIT Green Bank – Andernach’s expanded style)	MGN_JHHMMSS±DDMM (MG1 to MG4)	
<i>MGC</i>	<i>use MG for MIT Green Bank radio sources</i>		
MGRO J2019+37	Gamma-ray sources (Milagro Gamma-Ray Observatory)	MGRO_JHHMM±DD	
MHalpα 328-116	Emission line stars (Merrill Halpα)	MHalpα_FFF-NNN	
MHO-Tau 8	Low-mass stars (Mount Hopkins Observatory)	MHO-Con_NN	12
<i>Michigan</i>	<i>use UM for galaxies</i>		
<i>Min</i>	<i>use M1- to M4- for planetary nebulae</i>		
MIPS	Galaxy (Multiband Imaging Photometer for Spitzer)	MIPS_JHHMMSS.s±DDMMSS	
J142824.0+352619			
Mis V1031	Variable stars (MISAO Project)	Mis_VNNNN	1442
<i>MITG</i>	<i>use MG for MIT Green Bank radio sources</i>		
Mk 35	Wolf-Rayet stars in 30 Dor (Melnick)	Mk_NNN	100
<i>Mkn</i>	<i>use Mrk for galaxies</i>		
MKW 1s	Galaxies (Morgan, Kayser, White)	MKW_NN or _Ns	16
Mlr 377	Visual binary stars (Muller)	Mlr_NNN	
MOA 2002-BLG-33	Gravitational lensing events (Microlensing Observations in Astrophysics)	MOA_YYYY-TTT-NN	
<i>Molonglo</i>	<i>use MRC for radio sources</i>		
MPS 926	Stars in M11 (McNamara, Pratt, Sanders)	MPS_NNNN	2022
<i>MR</i>	<i>use Roberts for Wolf-Rayet stars</i>		
<i>MR</i>	<i>use MRC for radio sources</i>		
MRC 0406–244	Radio sources (Molonglo Reference Catalogue)	MRC_HHMM±DDd	
Mrk 1468	Galaxies (Markarian)	Mrk_NNNN	1515
<i>MRK</i>	<i>use Mrk for galaxies</i>		
<i>MS (for EMSS)</i>	<i>use 1E for X-ray sources</i>		
MS 4	IR-photometric stars (Morrison, Simon)	MS_NN	76
<i>MS 1512-cB58</i>	<i>use CIG 1512+3647 cB58</i>		
MSH 15–52	Radio sources (Mills, Slee, Hill)	MSH_HH±DNN	
<i>MSX LMC</i>	<i>use MSX5C or 6C in G format</i>		
<i>MSX SMC</i>	<i>use MSX5C or 6C in G format</i>		
MSX5C	IR sources (Midcourse Space Experiment Ver. 5 of CONVERT software)	MSX5C_GLLL.Illl±BB.bbbb (use all digits)	
G066.0066–44.7392			
MSX6C	IR sources (Midcourse Space Experiment Ver. 6 of CONVERT software)	MSX6C_GLLL.Illl±BB.bbbb (use all digits)	
G174.0022–14.2261			

MSXDC	IR dark clouds	MSXDC_GLLL.l±BB.bb	
G034.43+00.24	(Midcourse Space Experiment Dark Cloud)	(use all digits)	
MWC 1080	Emission-line stars (Mt. Wilson Cat.)	MWC_NNNN	1088
MWP 1	Planetary nebula (Motch, Werner, Pakull)	MWP_N	1
MX 0513–40	Massachusetts X-ray sources	MX_HHMM±DD	
MXB 1730–335	Massachusetts X-ray Bursters	MXB_HHMM±DDd	
MYC 1415+385	Radio sources (Miyun Catalogue)	MYC_HHMM±DDd	
MyCn 18	Emission-line objects (Mayall, Cannon)	MyCn_NN	39
Mz 3	Emission-line objects (Menzel)	Mz_N	5
N	<i>use LMC N for LMC H II regions</i>		
N Pup 1983	Novae	N_Con_YYYY	
	(Systematic designation)	or N_Con_YYYY_No.N	
		or N_TTT_YYYY	
		(e.g. TTT = SMC, M31)	
Na 1	Planetary nebulae (Nassau)	Na_N	2
NAB 0137–018	QSOs (N. A. Bahcall)	NAB_HHMM±DDd	
NB 78.26	Radio sources (N. Branson)	NB_DD.NN	
NDWFS	Quasars (NOAO Deep Wide-Field Survey)	NDWFS_JHHMMSS.s±DDMMSS	
J142516.3+325409			
NGC 7814	New General Catalogue of Nebulae and Clusters of Stars (includes galaxies)	NGC_NNNN	7840
NH 30	Blue stragglers in NGC 5466 (Nemec, Harris)	NH_NN	48
NLTT 56805	Proper motion stars (New Luyten Two-Tenths)	NLTT_NNNNN	58845
NRAO 150	Radio sources (National Radio Astronomy Observatory)	NRAO_NNN	726
NS	<i>use Sk for LMC stars</i>		
NS 14	Bipolar, cometary nebulae (Neckel, Staude)	NS_NN	20
NSV 13978	New Catalogue of Suspected Variable Stars (with Supplement)	NSV_NNNNN (1-14811, 15001-26206)	26206
NTTS 041636+2743	Pre-main-sequence stars (Naked T Tau Stars)	NTTS_HHMMSS±DDMM	
NVVS	Radio sources (NRAO/VLA Sky Survey)	NVVS_JHHMMSS±DDMMSS	
J191656+051126			
OΣ	<i>use OSigma for visual binary stars</i>		
OA to OZ	<i>use Ohio OA to Ohio OZ</i>		
OA 1657–415	X-ray sources (OA satellite)	OA_HHMM±DDd	
OB	<i>use e.g. Ori OB1 for OB associations</i>		
OCI-268	Open clusters	OCI_NNNN	1114
OGLE 5	Gravitational lensing events (Optical Gravitational Lensing Experiment)	OGLE_NN or _YYYY-TTT-NNN or _YYYY-Con-N or _TR-NNN or _JHHMMSS.ss±DDMMSS.s	
OH 127.8–0.0	OH sources	OH_HHMM±DD or _LLL.l±BB.b _LLL.l±BB.bb etc.	
	(Systematic designation)		
Ohio OJ 287	Radio sources (Ohio lists A to Z omitting O)	Ohio_OA_DNN or _OA_DNN.N or _OA_-DNN or _OA_-DNN.N	
OHP 1	Star clusters (Observatoire de Haute Provence)	OHP_N	6
OM 88	High-Velocity stars (Observatoire de Marseille)	OM_NNN	106
OMC	<i>use Ori MC N for Orion Molecular Clouds</i>		
ON	<i>use Onsala for OH sources</i>		

Onsala 1	OH sources (Onsala Observatory)	Onsala_N	4
OP 0229.0+0629	BL Lac-type objects or quasars (Optical Polarization Survey)	OP_HHMM.m $\pm$ DDMM	
Ori MC 1	Orion Molecular Clouds	Ori_MC_N	3
OSigma 2398	Visual binary stars (O. Struve)	OSigma_NNNN	
OT 060420	Optical Transients (Systematic designation)	OT_YYMMDD (use all digits)	
OTL 0852+124	Radio sources (Ooty Lunar occultation)	OTL_HHMM $\pm$ DDd	
OTS 1809+314	Optical Transient Sources (Systematic designation)	OTS_HHMM $\pm$ DDd	
<i>P</i>	<i>use Parenago for Ori cluster stars</i>		
Padova 1	Seyfert galaxies in Aquila	Padova_N	3
Palomar 11	Globular clusters	Palomar_NN	15
<i>Pal</i>	<i>use Palomar for globular clusters</i>		
Parenago 1540	Orion cluster stars	Parenago_NNNN	2982
Parsamyan 18	Cometary nebulae	Parsamyan_NN	23
<i>Parsamian</i>	<i>use Parsamyan for cometary nebulae</i>		
<i>PB</i>	<i>use PeB for planetary nebulae</i>		
PB 166	Stars and compact objects (Palomar-Berger)	PB_NNNN	9495
<i>PC</i>	<i>use PCCD for quasars</i>		
PC 12	Planetary nebulae (Peimbert)	PC_NN	14
PCCD 0104+0215	Quasars (Palomar CCD)	PCCD_HHMM $\pm$ DDMM	
PDS 81	T Tau stars (Pico dos Dias Survey)	PDS_NNN	456
Pe2-8	Possible planetary nebulae (Perek)	Pe2-NN	16
PeB 6	Planetary nebulae (Peimbert, Batiz)	PeB_NN	10
Pellet 248	H II regions in M31	Pellet_NNN	981
Pfleiderer 4	Star clusters (Pfleiderer, Weinberger, Mross)	Pfleiderer_N	4
PG 1159-035	UV objects or QSOs (Palomar-Green)	PG_HHMM $\pm$ DDd	
PGC 555	Principal Galaxies Catalogue (<i>use LEDA for all numbers in excess of 73197</i>)	PGC_NNNNN	73197
PHL 5200	Faint blue stars (Palomar-Haro-Luyten)	PHL_NNNN	8725
PHR J1633-4928	Planetary nebulae (Parker, Hartley, Russeil)	PHR_JHHMM $\pm$ DDMM	
Pismis 11	Open and globular clusters	Pismis_NN	26
PK 294+4°1	Planetary nebulae (Perek, Kohoutek)	PK_LLL $\pm$ BB°NN	
PKS 2302-279	Radio sources (Parkes)	PKS_HHMM $\pm$ DDd or _JHHMM $\pm$ DDMM	
PM1-322	Planetary nebulae (Preite-Martinez)	PM1-NNN	340
PM2-40	Planetary nebulae (Preite-Martinez)	PM2-NN	48
PMN J0000-4618	Radio sources (Parkes-MIT-NRAO)	PMN_JHHMM $\pm$ DDMM	
PN 242.2-37.1	Planetary Nebulae (Systematic designation)	PN_LLL.l $\pm$ BB.b	
POX 186	Emission-line objects (Prism Objective X)	POX_NNN	188
PP 85	Cometary nebulae (Parsamyan, Petrosyan)	PP_NNN	106
PPL 15	Brown dwarf candidates (Possible Pleiades Members)	PPL_NN	15
PPM 56164	Stars (Position, Proper Motion)	PPM_NNNNNN	468907
PQT 080119	Optical transients (Palomar-Quest Transients)	PQT_YYMMDD and/or _JHHMMSS $\pm$ DDMMSS	
<i>Prager</i>	<i>use alternative variable star designations</i>		
Ps 1	Planetary nebula (Pease)	Ps_N	1
PS 237	Stars (Philip, Stock)	PS_NNN	539
<i>PSC</i>	<i>use IRAS for Point Source Catalogue</i>		
PSR 0531+21	Pulsars (Systematic designation)	PSR_HHMM $\pm$ DD or _HHMM $\pm$ DDd or _JHHMM $\pm$ DDMM	

PSR J1824–2452F	Pulsars in globular clusters (etc.) (Systematic designation)	PSR_HHMM±DDA or _HHMM±DDdA or _JHHMM±DDMMA	
PSS J1443+2724	Quasars (Palomar Sky Survey)	PSS_JHHMM±DDMM	
Pu 2	Planetary nebulae (Purgathofer)	Pu_N	2
PuWe 1	Planetary nebula (Purgathofer, Weinberger)	PuWe_N	1
PWM	<i>use Pfeleiderer for star clusters</i>		
Q1548+114	<i>use QSO for quasi-stellar objects</i>		
Q1307-BM1163	Galaxies in quasar fields (BM indicates redshift $1.5 \leq z \leq 2.0$, BX indicates redshift $2.0 \leq z \leq 2.5$)	QHHMM-BMNNNN or -BXNNNN (with hyphen not minus)	
QP J1310+0007	Quasar Pairs	QP_JHHMM±DDMM	
QSO 1548+114	Quasi-Stellar Objects (Systematic designation)	QSO_HHMM±DDd or _JHHMM±DDMM	
R	<i>use e.g. Mon R2 for R associations</i>		
R	<i>use RCW for H II regions</i>		
R 136 a	SMC or LMC stars (Radcliffe Observatory)	R_NNN_a	158
RAFGL	<i>use AFGL for IR sources</i>		
RAT J1953+1859	Variable stars (RApid Temporal survey)	RAT_JHHMM±DDMM	
RB 415	Galaxies in Abell 1656 (Rood, Baum)	RB_NNN	
RBS 1223	X-ray sources (ROSAT Bright Survey)	RBS_NNNN	2072
RBTB	Galaxies (Rosenberg, Bowen, Tripp, Brinks)	RBTB_JHHMMSS.s±DDMMSS	
J154542.8+591132			
RC J0311+0507	Radio sources (RATAN cold)	RC_JHHMM±DDMM	
RCS J092445+3628.1	Galaxy clusters (Red-Sequence Cluster Survey)	RCS_JHHMM±DDMM or _JHHMM.m±DDMM or _JHHMMSS±DDMM.m	
RCW 108	H II regions (Rodgers, Campbell, Whiteoak)	RCW_NNN	108
RD	Quasars at high redshift	RD_JHHMMSS±DDMMSS	
J114816.2+525339	(R-band Dropout)	or _JHHMMSS.s±DDMMSS	
RDCS J1252–2927	Galaxy clusters (ROSAT Deep Cluster Survey)	RDCS_JHHMM±DDMM	
RE J0003+433	Extreme-UV sources (ROSAT E)	RE_JHHMM±DDd	
Reipurth 57 c	Herbig-Haro objects	Reipurth_NN_a (1 to 57 c)	57
RFGC 4177	Revised Flat Galaxy Catalogue	RFGC_NNNN	4236
RG 0050–2722	M dwarf, M supergiant stars (Reid, Gilmore)	RG_HHMM±DDMM	
RGB J1745+398	X-ray/radio sources (ROSAT-Green Bank)	RGB_JHHMM±DDd or _JHHMM.m±DDMM	
RGH 80	Galaxy clusters (Ramella, Geller, Huchra)	RGH_NNN	128
RHO 48	<i>use Elias2 for sources in rho Oph cloud</i>		
Richter 792	Blue objects in M31 field	Richter_NNN	
RL	<i>use RLWT for faint blue stars</i>		
RLWT 48	Faint blue stars (Rubin, Losee, Westpfahl, Tuve)	RLWT_NNN	152
RM 1152+0449	Radio sources (Mon R2 field of RATAN Survey)	RM_HHMM±DDMM	
RMB 46	Blue objects (Rubin, Moore, Bertiau)	RMB_NNN	228
RMC 127	Stars in Magellanic Clouds (Radcliffe Magellanic Clouds)	RMC_NNN or _NNNF (1-50, 1F-24F in SMC) (51-158, 25F-103F in LMC)	158 103
RNO 15	Red Nebulous Objects	RNO_NNN	150
ROA 48	Bright stars in omega Cen (Royal Observatory Annals)	ROA_NNNN	6987
ROB 162	Stars in globular cluster NGC 6397	ROB_NNN	966

	(Royal Observatory Bulletin)		
Roberts 93	Wolf-Rayet stars	Roberts_NNN	123
RoCG 108	Galaxy clusters (Rose Clusters of Galaxies)	RoCG_NNN	124
Rood 27	Groups of galaxy clusters	Rood_NN	44
ROTSE1	Optical transients (Robotic Optical	ROTSE1_JHHMMSS.ss±DDMMSS.s	
J171239.42+330800.2	Transient Search Experiment)		
Roque 4	Stars in Pleiades (Observatorio del Roque de los Muchachos)	Roque_NN	17
<i>Rose</i>	<i>use RoCG for galaxy clusters</i>		
Rose 5	Compact galaxy groups	Rose_NN	38
Roslund 4	Open clusters	Roslund_N	7
Ross 640	Stars	Ross_NNNN	1070
Rossiter 5225	Double stars	Rossiter_NNNN	5534
ROX 21	Rho Ophiuchi X-ray sources	ROX_NN	64
RPr 1	Brown dwarf candidate in Praesepe (Roque Praesepe)	RPr_N	1
RR 24 a	Galaxy pairs (Reduzzi, Rampazzo, 1995)	RR_NNN_a	409
RRAT J1819–1458	Radio sources (Rotating Radio Transients)	RRAT_JHHMM±DD or _JHHMM±DDMM	
RS 23	Blue objects, North Galactic Pole (Richter, Sahakjan)	RS_NN	53
<i>Rst</i>	<i>use Rossiter for double stars</i>		
<i>RST</i>	<i>use Rossiter for double stars</i>		
<i>Ru</i>	<i>use Ruprecht for open clusters</i>		
Ru 283	Visual binary stars (Russell)	Ru_NNN	
<i>Rup</i>	<i>use Ruprecht for open clusters</i>		
Ruprecht 132	Open clusters	Ruprecht_NNN	176
<i>RWT</i>	<i>use RLWT for faint blue stars</i>		
RX J0516.7–6929	X-ray sources (ROSAT X)	RX_JHHMM.m±DDMM	
RXC J1504.1–0248	X-ray galaxy clusters (ROSAT-ESO Flux Limited X-ray [REFLEX] Galaxy Cluster Survey)	RXC_JHHMM.m±DDMM	
<i>RXS</i>	<i>use 1RXS for X-ray sources</i>		
<i>RXTE</i>	<i>use XTE for X-ray sources</i>		
<i>S</i>	<i>use Sh2- for Sharpless H II regions</i>		
<i>S</i>	<i>use Simeis for Simeis H II regions</i>		
S3MC	Infrared sources in SMC (Spitzer Survey of the SMC)	S3MC_JHHMMSS.ss±DDMMSS.ss	
J004624.46–732207.30			
S5 1739+522	Strong radio sources	SN_HHMM±DD or _HHMM±DDd (S1 to S5)	
<i>SA</i>	<i>use SASpecial for Selected Areas of Special Plan</i>		
Sa1-4	Planetary nebulae (Sanduleak)	Sa1-N	8
Sa2-21	Planetary nebulae (Sanduleak)	Sa2-NNN	392
Sa3-43	Planetary nebulae (Sanduleak)	Sa3-NNN	153
Sa4-1	Planetary nebula (Sanduleak)	Sa4-N	1
San 1	T Tau stars in Orion (Sanduleak)	San_N	5
Sand 3	WR stars in planetary nebulae (Sanduleak)	Sand_N	5
Sandage 8	Variables in IC 1613	Sandage_NN	63
Sanders 1284	Members of open cluster M67	Sanders_NNNN	2319
Sandqvist 112	Dark dust clouds	Sandqvist_NNN (101 to 195)	195
SAO 255758	Stars (Smithsonian Astrophysical Obs.)	SAO_NNNNNN	258997
SASpecial 29-130	Stars (Selected Areas of Special Plan)	SASpecial_FF-NNNNN	
<i>Saurer 6</i>	<i>use Saurer a (converting 1-6 to a-f)</i>		
Saurer f	Open clusters (Saurer et al. 1994)	Saurer_a	
<i>Saurer A</i>	<i>use Saurer a (converting A-F to a-f)</i>		

SAX	<i>use 1SAX for X-ray sources</i>		
SB 35	<i>use PN designation for Sylvie Beaulieu</i>		
	<i>planetary nebulae</i>		
SB 931	Stars at South Galactic Pole (Slettabak, Brundage)	SB_NNN	957
SBC	<i>use stellar designation for spectroscopic</i>		
	<i>binaries</i>		
SBS 0335–052	Galaxies, QSOs, blue stars (Second Byurakan Survey)	SBS_HHMM±DDd	
SC 2008–566	Galaxy X-ray clusters (Southern Clusters)	SC_HHMM±DDd	
<i>SchuWe</i>	<i>use SuWt for planetary nebulae</i>		
SCR J1845–6357	Proper motion stars (SuperCOSMOS RECONS)	SCR_JHHMM±DDMM	
<i>ScWe</i>	<i>use SuWt for planetary nebulae</i>		
<i>ScWt</i>	<i>use SuWt for planetary nebulae</i>		
SDF	Galaxies (Subaru Deep Field)	SDF_JHHMMSS.s±DDMMSS	
J132436.6+271246			
SDSS	Sloan Digital Sky Survey	SDSS_JHHMMSS.ss±DDMMSS.s	
J033829.31+002156.3			
<i>SDSSp</i>	<i>use SDSS and remove p</i>		
See 119	Visual binary stars	See_NNN	>119
SEGUE 1	Dwarf galaxie or star clusters (Sloan Extension for Galactic Understanding and Exploration)	SEGUE_N	3
Sersic 159-3	Galaxies or galaxy clusters	Sersic_FFF-NNN	
SFO 68	Bright-rimmed interstellar clouds (Sugitani, Fukui, Ogura)	SFO_NN	89
SGR 1806–20	Gamma-ray sources (Soft Gamma Repeater)	SGR_HHMM±DD _JHHMM±DDMM	
SGRS J0515–8100	Radio sources (SUMSS Giant Radio Sources)	SGRS_JHHMM±DDMM	
Sh1-89	H II regions, reflection nebulae (Sharpless) Superseded by Sh2	Sh1-NNN	142
Sh2-275	H II regions (Sharpless)	Sh2-NNN	313
<i>Shajn</i>	<i>use Simeis for H II regions</i>		
Shakhbazian 166	Galaxy groups, clusters of galaxies	Shakhbazian_NNN	377
ShAI 37	Novae in M31 (Sharov, Alksnis)	ShAI_NN	38
Shapley III	Star formation regions (Shapley)	Shapley_R	
<i>ShCG</i>	<i>use Shakhbazian for galaxy groups</i>		
SHS	Emission-line stars (SuperCOSMOS Halpha Survey)	SHS_JHHMMSS.s±DDMMSS	
J162620.2–455946			
Simeis 147	H II regions, supernova remnants	Simeis_NNN	306
<i>Simeiz</i>	<i>use Simeis for H II regions</i>		
SIMP	Proper motion stars (Sondage Infrarouge de Mouvement Propre)	SIMP_JHHMMSS.s±DDMMSS	
J013656.5+093347			
SIPS J1910–4132	Proper motion stars (Southern Infrared Proper Motion Survey)	SIPS_JHHMM±DDMM	
Siv 4	H II regions (Sivan)	Siv_NN	11
<i>Sk</i>	<i>use SK for SMC stars</i>		
Sk –65°48	LMC stars (Sanduleak)	Sk_-DD°NNN	
SK 188	SMC stars (Sanduleak)	SK_NNN	216
SKHB 185	Globular clusters in M31 (Sargent, Kowal, Hartwick, van den Bergh)	SKHB_NNN	355
SL 747	LMC clusters (Shapley, Lindsay)	SL_NNN	898
SLX 1746–331	X-ray burst sources (Spacelab-2)	SLX_HHMM±DDd	
SMC N15	H II regions in SMC	SMC_NNN	90
SMM J02399–0136	Submm-selected galaxies	SMM_JHHMMm±DDMM	

		or _JHHMMSS.s±DDMMSS or _JHHMMSS.ss±DDMMSS.s	
SMP1-94	Planetary nebulae in LMC (Sanduleak, McConnell, Phillips)	SMP1-NNN	102
SMP2-28	Planetary nebulae in SMC (Sanduleak, McConnell, Phillips)	SMP2-NN	28
Sn 1	Planetary nebula (Shane)	Sn_N	2
SN 1987A	Supernovae (Systematic designation)	SN_YYYYA to Z then SN_YYYYaa to zz	
<i>SNLS-03D3bb</i>	<i>use SN YYYYA or YYYYaa designation for Supernova Legacy Survey objects</i>		
SNR 166.2+2.5	Supernova Remnants (Systematic designation)	SNR_LLL.l±BB.b or _HHMM±DDd or _JHHMM±DDd or _JHHMMSS±DDMMSS	
SO	Nearby, large proper motion star	SO_JHHMMSS.s±DDMMSS	
J025300.5+165258	(SkyMorph Object ?) (=Teegarden's star)		
Son 10908	Variable stars (Sonneberg)	Son_NNNNN	>10965
Sp 1	Planetary nebulae (Shapley)	Sp_N	5
SPS	Galaxies (STIS Parallel Survey)	SPS_JHHMMSS.ss±DDMMSS.s	
J235158.92+243041.4			
SR 12	Emission-line stars (Struve, Rudkjøbing)	SR_NN	26
SS	<i>use LSS for luminous stars</i>		
SS I 287	Stars (Slettebak, Stock)	SS_R_NNN	365
SS 433	Emission-line stars (Stephenson, Sanduleak 1977)	SS_NNN	455
SS73 147	Emission-line stars (Stephenson, Sanduleak 1973)	SS73_NNN	179
SSSPM J0829–1309	Proper motion stars (SuperCOSMOS Sky Surveys Proper Motion)	SSSPM_JHHMM±DDMM	
SSTc2D	Infrared sources (Spitzer Space Telescope c2d Legacy Source)	SSTc2d JHHMMSS.s+DDMMSS	
J161159.9–382337			
SSTGC 797384	IR sources (Spitzer Space Telescope Galactic Center)	SSTGC_NNNNNNN	1065565
SSV 59	Infrared sources (Strom, Strom, Vrba)	SSV_NN	70
ST 3	Wolf-Rayet stars (Stephenson 1966)	ST_N	5
<i>Stephenson</i>	<i>use GCSS for S-type stars see also ST, StHA, StRS</i>		
Stetson 415	Stars in globular cluster NGC 1851	Stetson_NNN	415
StHA 149	Emission-line stars (Stephenson H Alpha) (1978)	StHA_NNN	206
STIS	Galaxies (Space Telescope Imaging Spectrograph)	STIS_JHHMMSS±DDMMSS	
J123627+621755			
Stock 2	Open clusters	Stock_N	2
STR 0627–544	Galaxy clusters (Mt. Stromlo Observatory)	STR_HHMM±DDd	
Strand 133	Proper motion stars	Strand_NNN	>133
StRS 371	Stars (Stephenson Reddened Stars)	StRS_NNN	447
Struve 2173	Visual binary stars	Struve_NNNN	
StWr1-2	Planetary nebulae (Stock, Wroblewski)	StWr1-N	6
StWr2-21	Planetary nebulae (Stock, Wroblewski)	StWr2-NN	48
StWr3-4	Planetary nebulae (Stock, Wroblewski)	StWr3-N	8
StWr4-14	Planetary nebulae (Stock, Wroblewski)	StWr4-NN	16
SUMSS	Radio sources (Sydney University Molonglo Sky Survey)	SUMSS_JHHMMSS±DDMMSS	
J000008–710019			

	Planetary nebulae (Schuster, West)	SuWt_N	3
SuWt 2			
<i>SVS</i>	<i>do not use SVS for IR sources in clusters</i>		
SVS 2559	Soviet Variable Stars	SVS_NNNN	2887
SW 76	Quasars (Sramek, Weedman)	SW_NN	
<i>SWASP</i>	<i>use 1SWASP for extrasolar planets</i>		
SWEEPS-04	Stars with planets (Sagittarius Window Eclipsing Extrasolar Planet Search)	SWEEPS-NN (use both digits)	16
SWIFT J1753.5–0127	Gamma-ray and X-ray sources (Swift satellite)	SWIFT_JHHMM.m±DDMM or_JHHMMSS.s±DDMMSS	
SWIRE	IR sources (Spitzer Wide-Area Infrared	SWIRE_JHHMMSS.s±DDMMSS	
J104409.95+585224.8	Extragalactic Survey)	or_JHHMMSS.ss±DDMMSS.s	
SwSt-1	Planetary nebula (Swings, Struve)	SwSt-N	1
SXP 504	SMC X-ray Pulsars	SXP_SSS or _SSS.s (SSS is pulse period)	
Sz 98	Emission-line stars in dark clouds (Schwartz)	Sz_NNN	140
Tamura 17	Stars in Heiles Cloud 2	Tamura_NN	18
TAP 35	Pre-main-sequence stars (Taurus-Auriga or Perseus)	TAP_NN	59
TASV 0413+31	Variable stars (The Astronomer Suspected Variables)	TASV_HHMM±DD or_JHHMM±DDd	
Tau MC 2	Taurus Molecular Clouds	Tau_MC_N	2
TAV 0451+69	Variable stars (The Astronomer Variables)	TAV_HHMM±DD or_JHHMM±DDd	
TBHD	Galaxies (Trachternach, Bomans, Haberzettl, Dettmar)	TBHD_JHHMMSS±DDMM.m	
J220915+1421.6			
TBJ 4	Planetary nebulae (Terzan, Bernard, Ju)	TBJ_N	
Tbr V51	Variable stars (Tabur)	Tbr_VNN	
Tc 1	Planetary nebula (Thackeray)	Tc_N	1
TD1 32709	UV sources (Thor-Delta 1 satellite)	TD1_NNNNN	32716
Teide 1	Brown dwarf candidate (Teide Observatory, Tenerife)	Teide_N	1
Terz V2046	Variable stars (Terzan)	Terz_VNNNN	4440
Terzan 8	Open or globular clusters	Terzan_NN	12
<i>TeV</i>	<i>use positional type designation only</i> <i>e.g. J2032+4131</i>		
<i>Th</i>	<i>use THA for H-alpha emission stars</i>		
Th1-A	Planetary nebula (The)	Th1-A	
Th2-B	Planetary nebulae (The)	Th2-A	
Th3-36	Planetary nebulae (The)	Th3-NN	36
Th4-4	Planetary nebulae (The)	Th4-NN	11
Th5-27	Planetary nebulae (The)	Th5-NN	27
THA 15-28	H-alpha emission stars (The)	THA_NN-NN first digit pair=Contrib. Bosscha Obs. volume number	
THA 35-III-15	H-alpha emission stars (The)	THA_35-R-NN 35=Contrib. Bosscha Obs. volume number, R=Table number (II or III)	
TJ 19	Planetary nebulae (Terzan, Ju)	TJ_NN	24
<i>TMC-2</i>	<i>use Tau MC 2 for Taurus Molecular Clouds</i>		
<i>TMR-1</i>	<i>use Tau MR 1 for Taurus Molecular Rings</i>		
Tmz V32	Variable stars (Takamizawa)	Tmz_VNNN	
<i>TN</i>	<i>use Ton for blue stars</i>		
TN J1338–1942	Radio galaxies (Texas/NVSS)	TN_JHHMM±DDMM	
Tol 1351–375	Emission-line galaxies (Tololo)	Tol_HHMM±DDd	

Tololo 74	Emission-line galaxies or QSOs	Tololo_NNN	116
Tombaugh 2	Open clusters	Tombaugh_N	5
Ton 1542	Blue stars (Tonantzintla)	Ton_NNNN	1589
Tonantzintla 208	Flare stars	Tonantzintla_NNN	
TonFSP 275	Flare stars (Tonantzintla Flare Stars in Pleiades)	TonFSP_NNN	519
TonS 227	Blue stars (Tonantzintla South Pole)	TonS_NNN	419
<i>Tr</i>	<i>use Trumpler for open clusters</i>		
TrES-1	Stars with planets (Transatlantic Exoplanet Survey)	TrES-N	4
Trumpler 37	Open clusters	Trumpler_NNN	334
Trz 41	Planetary nebulae (Terzan)	Trz_NN	41
<i>TS</i>	<i>use TonS for blue stars</i>		
<i>Turner</i>	<i>use Cl Turner for open clusters</i>		
TVLM 868-11063	Low-mass stars (Tinney Very-Low-Mass stars)	TVLM_FFF-NNNNN	
TWA 5	Stars in TW Hya association	TWA_NN	30
<i>TXFS</i>	<i>use TXS for IRAS FSC/TXS objects</i>		
TXS 2342+342	Radio sources (Texas Survey)	TXS_HHMM±DDd	
TYC 3551-00642-1	Stars (Tycho)	TYC_FFFF-NNNNN-N (use all digits)	
UB 3	UV-excess objects near NGC 3379/84/89 (Ultraviolet-Blue)	UB_NN	16
UCAC2 26257135	Stars (Second USNO CCD Astrographic Catalog)	UCAC2_NNNNNNNN	48330571
UCM 2316+2028	Emission-line galaxies (Universidad Complutense Madrid)	UCM_HHMM±DDMM	
UGC 11964	Galaxies (Uppsala General Catalogue)	UGC_NNNNN	12921
UGC-A 86	Galaxies (UGC Addendum)	UGC-A_NNN	444
<i>UGCG</i>	<i>use UGC for galaxies</i>		
<i>UKS 1</i>	<i>use UKS 1751–241</i>		
<i>UKS 2</i>	<i>use UKS 0923–545</i>		
UKS 2323–326	Galaxies (UK Schmidt Sky Survey)	UKS_HHMM±DDd	
ULAS	IR sources (UKIDSS Large Area Survey)	ULAS_JHHMMSS.ss±DDMMSS.s	
J003402.77–005206.7			
UM 275	Emission-line objects (University of Michigan)	UM_NNN	655
Upgren 1	Open cluster	Upgren_N	1
US 2065	Faint blue objects (Usher)	US_NNNN	2363
USGC S152	Galaxy groups in Southern Sky Redshift Survey (UZH-SSRS2 Group Catalog)	USGC_SNNN	304
USGC U11	Galaxy groups in Updated Zwicky Catalog (UZH-SSRS2 Group Catalog)	USGC_UNNN	864
USNO A1.0	Stars in A1.0, A2.0 and B1.0 catalogues	USNO_AN.N_FFFF.NNNNNNNN	
1425.09823278	(United States Naval Observatory) if version unknown – use position only	(4 and 8-digit numbers)	
USS 0943–242	Radio sources (Ultra-Steep Spectrum)	USS_HHMM±DDd	
UT 1313+200	Radio sources (University of Texas)	UT_HHMM±DDd	
UV 1758+36	UV objects (Systematic designation)	UV_HHMM±DD	
V 0332+53	Hard X-ray sources (Vela)	V_HHMM±DD	
V Zw 317	Galaxies (Zwicky)	R_Zw_NNN	
V-VI-7	Planetary nebulae or H II regions (Vorontsov-Vel'yaminov)	V-VI-N	9
<i>vA</i>	<i>use VA for cluster stars</i>		
VA 288	Cluster stars (Van Altena)	VA_NNN	778
Van Biesbroeck 8 B	Faint stars	Van_Biesbroeck_NN_A	29
Van Bueren 64	Hyades stars	Van_Bueren_NNN	152

<i>van den Bergh</i>	<i>use vdB for reflection nebulae</i>		
<i>van den Bergh-Hagen</i>	<i>use Cl vdBH for star clusters</i>		
<i>van den Bergh-Herbst</i>	<i>use vdBH for stars in nebulae</i>		
<i>vB</i>	<i>use Van Biesbroeck for faint stars</i>		
<i>VB</i>	<i>use Van Biesbroeck for faint stars</i>		
VCC 1258	Galaxies (Virgo Cluster Catalogue)	VCC_NNNN	2096
VCV	Quasi-stellar objects (Véron-Cetty , Véron)	VCV_JHHMMSS.s±DDMMSS	
J204409.7–104324			
vdB 102	Reflection nebulae (van den Bergh)	vdB_NNN	158
<i>vdBH</i>	<i>use Cl vdBH for van den Bergh-Hagen star clusters</i>		
vdBH 25 a	Stars in nebulae (van den Bergh, Herbst)	vdBH_NN_a (NN<94)	94
Ve2-45	Emission-line stars, planetary nebulae (Velghe)	Ve2-NN	93
VER J2227+608	Gamma-ray sources (VERITAS)	VER_JHHMM±DDd	
Veron 1117	Galaxies	Veron_NNNN	
VES 735	Emission stars (Vatican Emission Stars)	VES_NNN	977
Vetesnik 42	Globular clusters in M31	Vetesnik_NN	
VI Zw 203	Galaxies (Zwicky)	R_Zw_NNN	
VII Zw 466	Galaxies (Zwicky)	R_Zw_NNN	
VLA J1623.4–2418	Radio sources (Very Large Array)	VLA_JHHMM.m±DDMM or _JHHMMSS.s±DDMMSS	
vMa 2	White dwarfs (van Maanen)	vMa_N	2
VMR D	Molecular clouds (Vela Molecular Ridge)	VMR_A (A-D) or _AN (C1-C3)	
Von Zeipel 164	Globular cluster stars	Von_Zeipel_NNNN	1571
VRMF 31	Emission-line stars (Vega, Rabolli, Muzzio, Feinstein)	VRMF_NNN	124
VRO 42.05.01	Radio sources (Vermilion River Observatory)	VRO_DD.HH.NN (use all digit pairs)	
VSS 4	Stars in dark clouds (Vrba, Strom, Strom)	VSS_NNN	317
VSSG 31	Infrared sources in Oph dark cloud (Vrba, Strom, Strom, Grasdalen)	VSSG_NN	31
VSX	Variable stars (Variable Star IndeX)	VSX_JHHMMSS.s±DDMMSS	
J074727.6+065050			
<i>VV</i>	<i>use IGVV for interacting galaxies</i>		
VV 42	Planetary nebulae (Vorontsov-Vel'yaminov)	VV_NNN	288
VVO 376	Proper-motion stars (Van Vleck Observatory)	VVO_NNN	376
Vy2-2	Planetary nebulae (Vyssotsky)	Vy2-N	3
<i>Vys</i>	<i>use McC for M stars</i>		
W51	Radio sources (Westerhout)	WNN (no space)	82
W78 23	Galaxy groups (White 1978)	W78_NN	42
Wackerling 2134	Early type stars with emission-lines	Wackerling_NNNN	5326
WALK 175	Stars in NGC 2264 (Walker)	WALK_NNN	
<i>Walker</i>	<i>use WALK for NGC 2264 stars</i>		
Wam 92	Southern galaxies (Wamsteker et al.)	Wam_NNN	113
Was 49	Emission-line galaxies (Wasilewski)	Was_NN	96
WASP-2b	Extrasolar planets (Wide Angle Search for Planets)	WASP-NNa	17
WB 379	IR sources in star-forming regions (Wouterloot, Brand 1989)	WB_NNNN	1302
<i>WB89-234</i>	<i>use WB for IR sources</i>		
WBL 366	Galaxy clusters (White, Bliton, et al.)	WBL_NNN	732
WD 0943+440	White Dwarfs	WD_HHMM±DDd	

	(Systematic designation)	or _JHHMM±DDMM	
WD 2QZ	White dwarfs	WD_2QZ_HHMMSS.s±DDMMSS	
000244.5–290337	(in 2dF QSO Redshift Survey)		
WDS 00352–0336	Visual binary stars	WDS_HHMMm±DDMM	
	(Washington Double Stars)		
We1-12	Planetary nebulae (Weinberger)	We1-NN	12
We 2	Planetary nebulae (Weinberger)	We_N	6
WeDe 1	Planetary nebula (Weinberger, Dengel)	WeDe_N	1
Wee 118	Quasars (Weedman)	Wee_NNN	189
WeSa 1	Planetary nebulae (Weinberger, Sabbadin)	WeSa_N	6
Westerbork-19 32	Radio sources (Westerbork surveys)	Westerbork-FF_NNN (FF = 10 to 76)	
Westerlund 1	Open clusters	Westerlund_N	2
<i>Westphal-MD 11</i>	<i>use SMM designation</i>		
<i>Westphal-MMD 11</i>	<i>use SMM designation</i>		
<i>WGA</i>	<i>use 1WGA for X-ray sources</i>		
Willman 2	Satellite galaxy candidates	Willman_N	2
WJN J1737+3808	Radiosources (Waseda University, Jiyu Gakuen, and Nasu Observatory)	WJN_JHHMM±DDMM	
WL 16	IR sources in rho Oph cloud (Wilking, Lada)	WL_NN	20
WO 48	S stars in southern Milky Way (Westerlund, Olander)	WO_NN	74
WOH G 64	Giant stars in LMC (Westerlund, Olander, Hedin)	WOH_G_NNN	660
WOH S 432	Supergiant stars in LMC (Westerlund, Olander, Hedin)	WOH_S_NNN	537
Wolf 630	Stars	Wolf_NNNN	1566
Woolley 9478	Nearby stars	Woolley_9000+NNN	848
WOR 24	M dwarfs (Worley)	WOR_NN	27
<i>WPV</i>	<i>use Wam for southern galaxies</i>		
<i>WPVS</i>	<i>use Wam for southern galaxies</i>		
WR 137	Wolf-Rayet stars	WR_NNN	159
WR15-977	Emission-line stars (Wray, Table XV)	WR15-NNNN	1887
<i>WRA</i>	<i>use WR15 for emission-line stars</i>		
<i>Wray</i>	<i>use WR15 for emission-line stars</i>		
WS 37	Wolf-Rayet stars in LMC (Westerlund, Smith)	WS_NN	53
<i>WS</i>	<i>use WeSa for planetary nebulae</i>		
WT 460	Southern proper motion stars (Wroblewski, Torres)	WT_NNNN	2495
WTT 040012+2545	Pre-main-sequence stars (Weak-lined T Tau stars)	WTT_HHMMSS±DDMM	
X 1837+049	X-ray sources	X_HHMM±DDd	
	(Systematic designation)		
X-ray N Aql 1992	X-ray novae	X-ray_N_Con_YYYY	
	(Systematic designation)		
XB 1254–690	X-ray Bursters	XB_HHMM±DDd	
XBS	X-ray sources (XMM Bright Sources)	XBS_JHHMMSS.s±DDMMSS	
J021642.3–043553			
XLSS	X-ray sources (XMM Large-Scale Structure Survey)	XLSS_JHHMMSS.s±DDMMSS	
J022738.2–031757			
<i>XLSSC</i>	<i>use XLSS</i>		
XMMSL1	X-ray sources (X-ray Multi-Mirror SLew)	XMMSLN_JHHMMSS.s±DDMMSS	
J070542.7–381442			
XMMU	X-ray sources (X-ray Multi-Mirror)	XMMU_JHHMMSS.s±DDMMSS	
J183225.4–103645			
XO-1b	Extrasolar planets	XO-Na	5

XRF 030723	(found with XO Cameras) X-Ray Flash	XRF_YYMMDD	
	(Systematic designation)		
<i>XRO</i>	<i>use XRF</i>		
XSS J18236–5616	X-ray sources (XTE Slew Survey)	XSS_JHHMMm±DDMM	
XTE J0053–724	X-ray sources (X-ray Timing Explorer)	XTE_JHHMM±DDd	
YLW 16	Infrared sources in rho Oph cloud (Young, Lada, Wilking)	YLW_NN	18
YM 29	H II regions, reflection nebulae (Yerkes-McDonald)	YM_NN	47
Z 119-66	Galaxies (Zwicky) (convert CGCG NNNNN to FF-NNN and CGCG NNNNNN to FFF-NNN)	Z_FFF-NNN or _HHMM.m±DDMM	
<i>ZC</i>	<i>use alternative designation for zodiacal stars</i>		
<i>Zi</i>	<i>use alternative variable star designation for Zinner stars</i>		
<i>Zw 1710.4+6401</i>	<i>use ClG for galaxy clusters in HHMM.m±DDMM format</i>		
ZwCl 225-5	Galaxy clusters (Zwicky)	ZwCl_FFF-NNN	
ZwCl 8193		or _NNNN	
ZwCl 1715+4229		or _HHMM±DDMM	
<i>ZwCl 1710.4+6401</i>	<i>use ClG for galaxy clusters in HHMM.m±DDMM format</i>		

Catalogues beginning with a prefix number

0FGL J2027.5+3334	Gamma-ray sources (Fermi Gamma-ray LAT)	0FGL_JHHMM.m±DDMM
1A 1246–588	X-ray sources (Ariel)	1A_HHMM±DD or 1A_HHMM±DDd
1E 0115.5–7342	X-ray-sources (Einstein Observatory)	1E_HHMM±DDd or _HHMM.m±DDMM or _HHMMSS±DDMM.m
1ES 1310–327	X-ray sources (Einstein Slew Survey)	1ES_HHMM±DDd
1H 0542–407	X-ray sources (HEAO 1)	1H_HHMM±DDd
1RXH J132519.8–430312	X-ray sources (ROSAT X-ray HRI)	1RXH_JHHMMSS.s±DDMMSS
1RXS J065213.8+790855	X-ray sources (ROSAT X Supplement)	1RXS_JHHMMSS.s±DDMMSS
1SAX J0054.9–7226	X-ray sources (Satellite per Astronomia in Raggi-X)	1SAX_JHHMM.m±DDMM
1SWASP J160211.83+281010.4	Extrasolar planets (Wide Angle Search for Planets)	1SWASP_JHHMMSS.ss±DDMMSS.s
1WGA J1047.1+6335	X-ray sources (White, Giommi, Angelini)	1WGA_JHHMM.m±DDMM
2A 0311–227	X-ray sources (Ariel)	2A_HHMM±DDd
2CG 195+04	Gamma-ray sources (2nd COS-B Catalogue)	2CG_LLL±BB (use three and two digit numbers)
2E 0050.1–7247	X-ray sources (2nd Einstein Observatory Catalogue)	2E_HHMM.m±DDMM
2EG J0432+2910 <i>2EGS</i>	Gamma-ray sources (2nd EGRET) <i>use 2EG for gamma-ray sources</i>	2EG_JHHMM±DDMM
2EUVE J2208+45.7	UV sources (Extreme Ultraviolet Explorer)	2EUVE_JHHMM±DD.d
<i>2MASP</i>	<i>use 2MASS</i>	
2MASS J01443536–0716142	Infrared sources (Two Micron All-Sky Survey)	2MASS_JHHMM±DDMM or _JHHMMSSs±DDMMSS or _JHHMMSSss±DDMMSSs
<i>2MASSI</i>	<i>use 2MASS and omit “I”</i>	
<i>2MASSP</i>	<i>use 2MASS and omit “P”</i>	
<i>2MASSW</i>	<i>use 2MASS and omit “W”</i>	
<i>2MASX</i>	<i>use 2MASS</i>	
2QZ J133311.4+001949	Quasars (Two-Degree Field QSO Redshift Survey)	2QZ_JHHMMSS.s±DDMMSS
2RE J1906+274	Extreme UV sources (2nd ROSAT UV Catalogue)	2RE_JHHMM±DDd or _JHHMMSS+DDMMSS
2S 0921–630	X-ray sources (SAS-3)	2S_HHMM±DDd
2RXP J130159.6–635806	X-ray sources (2nd ROSAT X PSPC)	2RXP_JHHMMSS.s±DDMMSS
<i>2UCAC</i>	<i>use UCAC2 for stars</i>	
2XMM J083026.2+524133	X-ray sources (Second XMM-Newton catalogue)	2XMM_JHHMMSS.s±DDMMSS
<i>2XMMi</i>	<i>use 2XMM and omit “i”</i>	
<i>2XMMp</i>	<i>use 2XMM and omit “p”</i>	
3A 1148+719	X-ray sources (Ariel)	3A_HHMM±DDd
3C 273	Radio sources (3rd Cambridge Catalogue)	3C_NNN and 3C_NNN.N
<i>3CR 323.1</i>	<i>use 3C for radio sources (3C Revised)</i>	3C_NNN.N
3EG J1102–6103	Gamma-ray sources (3 rd EGRET Catalogue)	3EG_JHHMM±DDMM
3U 1809+50	X-ray sources (Uhuru)	3U_HHMM±DD

4C 34.47	Radio sources (4th Cambridge Catalogue)	4C_DD.NN (use two-digit pair and ignore “+” if present)
4CT 74.17.1	Radio sources (Caswell 4C Revision)	4CT_DD.NN.N
4U 0115+63	X-ray sources (Uhuru)	4U_HHMM±DD
5C6.142	Radio sources (5th Cambridge Catalogues)	5CNN.NNN (5C1 to 5C20)
6C 1232+39	Radio sources (6th Cambridge Catalogue)	6C_HHMM±DD
7C 1256+35	Radio sources (7th Cambridge Catalogue)	7C_HHMM±DD or _HHMM±DDMM
8C 1826+670	Radio sources (8th Cambridge Catalogue)	8C_HHMM±DDd
9C J2359+3021	Radio sources (9th Cambridge Catalogue)	9C_JHHMM±DDMM
<i>1548C27</i>	<i>use e.g. Craine 1548-27 for infrared sources</i>	
<i>19 W 32</i>	<i>use Westerbork-19 32 for radio sources</i>	

Position only type designations

0358+221	Truncated 1950.0 coordinates	HHMM±DDd
J2250+194	Truncated 2000.0 coordinates	JHHMM±DDd or JHHMM±DDMM
<i>132.8+0.9</i>	<i>use Galactic coordinates</i>	<i>G_LLL.l±BB.b or just LLL.ll±BB.bb LLL.lll±BB.bbb</i>