

Catalog List

This table summarizes the astronomical catalogs accessible using the catalog web service API.

Note that each catalog has an upper limit on the size it will accept for the radius of a VO ConeSearch, based on the average source density, in order to not overload the servers with too many entries in the data returned.

Catalog Type	API parameter CATALOG=code	Description	Max search size
GSC catalogs	GSC11	Guide Star Catalog v1.1 (Original catalogue for HST operations launch till 2000)	7.5 °
	GSC1ZZQ	Special catalogs of selected areas for HST calibrations (GSC1xxx) Eta Carina	7.5 °
	GSC1ZZR	Omega Centauri	
	GSC1ZZT	NGC5617	
	GSC1ZZU	HR6945	
	GSC1ZZV	HR6850	
	GSC1ZZW	HR6636	
	GSC1ZZX	Iota Carina	
	GSC1ZZZ	NGC188	
	GSC12	v1.2 (updated Astrometry)	7.5 °
	GSC23	v2.3 (Used for HST operations 2000-2017)	2 °
	GSC240	v2.4.0 (used for HST operations 2017-2021)	2 °
	GSC241	v2.4.1	2 °
	GSC242 (default)	v2.4.2	2 °
	GSC243	v2.4.3 (Current version for HST operations)	2 °
	GSC30	v3.0 (Current version for JWST operations)	2 °
Astronomy Catalogs	2MASS	2MASS All-Sky IR survey Point Source Catalog	5 °
	2MASSXSC	2MASS All-Sky IR survey Extended Source Catalog	5 °
	APASS	AAVSO Photometric All Sky Survey DR9	5 °
	ASPICv11	All-Sky PLATO Input Catalog v1.1	5 °
	ATLAS	ATLAS All-Sky Reference Catalog	5 °
	FIRST	Faint Images of the Radio Sky at Twenty-cm source catalog	5 °
	GAIAAdr1	GAIA Astrometric catalog of stellar positions and proper motions DR1	1 °
	GAIAAdr2	GAIA Astrometric catalog of stellar positions and proper motions DR2	1 °
	GAIAedr3	GAIA Astrometric catalog of stellar positions and proper motions Early DR3	1 °
	GAIAAdr3	GAIA Astrometric catalog of stellar positions and proper motions DR3	1 °
	GALEX	Galaxy Evolution Explorer DR6/7	5 °
	GSPC2	Guide Star Photometric Catalog v2	10 °
	IRAS	Infrared Astronomical Satellite	10 °
	KIC	Kepler Input Catalog	1 °
	KIDS	VST Kilo-Degree Survey	1 °
	Landolt	Landolt photometric standards	10 °
	NSCdr2	NOIRlab Source Catalog DR2	1 °
	PS1dr1	panSTARRS DR1 (mean detected objects)	0.45 °
	PS1Best	panSTARRS DR1 (mean detected objects with >2 detections + classifications)	0.45 °
	PS1dr2	panSTARRS DR2 (mean detected objects)	0.45 °
	PS1dr2Objects	panSTARRS DR2 (mean detected objects)	0.45 °

	PS1dr2Detections	panSTARRS DR2 (individual detections)	0.45 °
	RC3	3rd Reference Catalog of Bright Galaxies	10 °
	SDSS	Sloan Digital Sky Survey DR16	1 °
	SKY2000	NASA Master Catalog of Bright Stars	10 °
	SMSSdr1	SkyMapper Southern Sky survey DR1	1 °
	SMSSdr2	SkyMapper Southern Sky survey DR2	1 °
	SMSSdr4	SkyMapper Southern Sky Survey DR4	1 °
	TESSINPUT	TESS Input Catalog v8.2	5 °
	TGAS	Tycho-GAIA Astrometric System	1 °
	UCAC5	USNO CCD Astrograph Catalog v5	7.5 °
	UltraVISTA	VISTA Deep/Ultra-Deep Near-IR Survey of the COSMOS Field	1 °
	USNOB	USNO-B Astrometric catalog v1.0	2 °
	VIKING	VISTA Kilo-degree Infrared Galaxy Survey DR2	1 °
	VistaVhs	VISTA Hemisphere Survey DR4	1 °
	VSTAtlas	VST ATLAS survey DR3	1 °
	WISE / ALLWISE	Wide-field Infrared Survey Explorer	1 °
Common Archive Observation Model	CAOM_OBSCORE	IVOA obsCore data model	10 °
Mission Observations/Exposure Metadata	CAOM_OBSPOINTING	MAST portal results grid (science / calibration / all)	
	CAOM_CALPOINTING		
	CAOM_ALLPOINTING		
High Level Science Product Catalogs	HLSP_HTTP	Hubble Tarantula Treasury Project	1 °
	HLSP_47TUC	Deep HST ACS Imaging of 47 Tuc	1 °
	HLSP_HLSTARCLUSTERS	The HLA Star Cluster Project	1 °
	HLSP_PHAT	The Panchromatic Hubble Andromeda Treasury	0.2 °
	HLSP_TESSHERMES	TESS-HERMES Spectroscopic Survey	1 °
Hubble Legacy Archive Catalogs	HLA_ACS_DAO	ACS DaoPhot catalogs	2 °
	HLA_ACS_SEX	ACS SourceExtractor catalogs	2 °
	HLA_GRI	ACS/NICMOS Grism observations (from ESO)	2 °
	HLA_NICMOS_DAO	NICMOS DaoPhot catalogs	2 °
	HLA_NICMOS_SEX	NICMOS SourceExtractor catalogs	2 °
	HLA_WFC3_DAO	WFC3 DaoPhot catalogs	2 °
	HLA_WFC3_SEX	WFC3 SourceExtractor catalogs	2 °
	HLA_WFPC2_DAO	WFPC2 DaoPhot catalogs (from CADC)	2 °
	HLA_WFPC2_SEX	WFPC2 SourceExtractor catalogs (from CADC)	2 °