

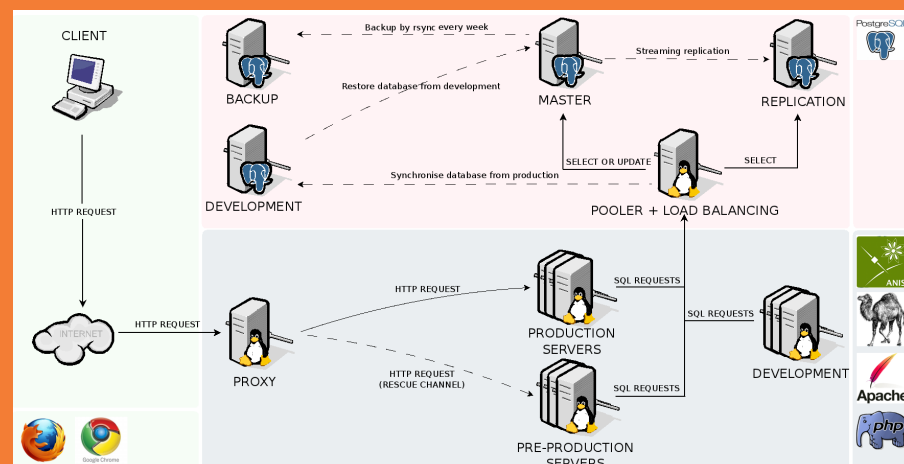
Public Data @ CeSAM

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ABSTRACT

Modern large observational programs produce important amounts of data from various origins, and need high level data-quality control, fast data access via easy-to-use graphic interfaces, as well as possibility to cross-correlate informations coming from different observations. The Centre de données Astrophysique de Marseille (CeSAM) has for mission to provide support to the teams in charge of the observational programs (specifications, software development and infrastructures), to produce and give the final data by proposing tools increasing their scientific value. We present here the various datasets hosted by the CeSAM under the ANIS environment. Even if mainly oriented towards large spectro-photometric extragalactic samples, we host as well an exoplanet transit database, or resolved galaxy data. The main datasets are those from the VVDS final release (45000 spectra), the Herschel extragalactic surveys (HerMES, HRS, GOODS-Herschel, VNGS), the CFHTLS-WIDE photometric redshifts catalog (17 millions objects), or the HST-COSMOS information system, that allows request from any of the 6 catalogs and access to the corresponding values in the other catalogs.

the technical solution



DATA ACCESS

Public Information Systems hosted at CeSAM

Cosmology, physics and evolution of galaxies

Project	Scientist Manager	Instrument	Wavelength domain	Description and downloads	Web site
VVDS	V. Le Brun	VLT/VIMOS	Vis Spec	Info & Data	Public site
HST-COSMOS	L. Tasca	multiple instruments	IR Vis UV X Spec	Info & Data	Public site
Ultra-vista	L. Tasca	VISTA	IR	Info & Data	Public site
HerMES	V. Buat	Herschel/SPIRE	f-IR	Info & Data	Public site
GOODS-Herschel	V. Buat	Herschel/SPIRE-PACS	f-IR	Info & Data	Public site
HRS	A. Boselli	Herschel/SPIRE	UV Vis IR f-IR	Info & Data	Public site
VNGS	A. Boselli	Herschel/SPIRE	f-IR	Info & Data	Public site
Fabry Perot	P. Amram, M. Marcellin	Fabry-Perot interferometer	Vis	Info & Data	Public site
GREM3	B. Millard	GALEX	UV Spec	Info & Data	Public site
COMA	C. Adami	CFH12K	Vis	Info & Data	Public site
ABELL496	C. Adami	MegaPrime / MegaCam	Vis	Info & Data	Public site

Stars and exoplanets

Project	Scientist Manager	Instrument	Wavelength domain	Description and downloads	Web site
EXODAT	M. Deleuil	COROT	Vis	Info & Data	Public site

Solar

Project	Scientist Manager	Instrument	Wavelength domain	Description and downloads	Web site
ARTEMIS	P. Lamy	LASCO		Info & Data	Public site

DATA DISPLAY

The data display interface includes a search results table with columns for Field, IAU, RA, Dec, P250, and e_P250. Below the table, there are options to view 'Show the image' and 'Show the spectra'. The interface displays various plots, including a spectral energy distribution (SED) plot and a spectroscopic data plot showing flux density versus wavelength. It also shows image cut-outs for specific objects.



The CeSAM offers web access to VO compliant Information Systems for different projects, built using AstroNomial Information System (ANIS) framework. It provides high level services like : search, extract and display imaging and spectroscopic data using a combination of criteria, an object list, a sql query module or a cone search interfaces, as well as download of catalogues and complete datasets.

(<http://cesam.lam.fr/anis>).

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References :

CeSAM data <http://cesam.lam.fr/cesamdata>
ANIS ADASS XXIII, poster #73
CeSAM ADASS XX, poster #013

DATA SEARCH

The table below lists the CeSAM datasets whose coverage intersects the area of the requested cone search. Clicking on one dataset name gives access to its full description and the all the relevant datafiles. If there are associated images, cut-outs at the exact size of the cone search are available. All the relevant catalogs in the area of the cone search are available in VO-table and ASCII formats.

Dataset Name	Instrument	Wavelength domain	Display cut-outs	Get VO	Get ASCII
VVDS / VVDS-F0226-04 (DEEP & UDEEP)	multi-lands		1533	Get VO	Get ASCII
HerMES / L6_XMM-LSS-SWIRE_SCAT500_DR1	Far-IR-submm		22	Get VO	Get ASCII
HerMES / L6_XMM-LSS-SWIRE_SCAT350_DR1	Far-IR-submm		19	Get VO	Get ASCII
HerMES / L6_XMM-LSS-SWIRE_SCAT250_DR1	Far-IR-submm		19	Get VO	Get ASCII
HerMES / L6_XMM-LSS-SWIRE_SCAT250SXT_DR1	Far-IR-submm		21	Get VO	Get ASCII
HerMES / L6_XMM-LSS-SWIRE_SCAT300XT_DR1	Far-IR-submm		23	Get VO	Get ASCII
HerMES / L6_XMM-LSS-SWIRE_SCAT500XT_DR1	Far-IR-submm		27	Get VO	Get ASCII
HerMES / L6_XMM-LSS-SWIRE_xi0250_DR1	Far-IR-submm		20	Get VO	Get ASCII