



Overview

Françoise Genova and the CDS team

13 November 2013

CDS high level strategic drivers



- Presented at the 2011 Scientific Council meeting and endorsed by the 2012 Evaluation Committee
- Three axes
 - Maintain the services at the highest possible level in terms of content and functionalities
 - Add functions to the core services in line with our expertise, the users' needs and R&D results
 - Take into account the change in scale of CDS activities due to the increase of publication volume and the advent of many large surveys
- Proposed addition: CDS is an actor of the evolution towards Open Data/Open Science

“Open data” talk tomorrow

Strategic axes identified in 2011



- Linked to the evolution of astronomy
 - Accompany the very large survey era
 - Put our expertise at the service of Gaia usage by the community
 - Construction of Spectral Energy Distribution; data cubes and polarimetry
- Linked to technological evolution
 - Web 2.0/3.0 paradigm (user-centric; usage of semantic web, mobility and universality)
- VO aspects
 - Implementation in the CDS services, which are major building blocks of the VO
 - Continue to update the VO framework (standards and tools)
 - Disseminate VO knowledge in the astronomical community
 - Look for a framework to pursue outreach towards education
- Assess the role of CDS in the fast evolving landscape of scientific data curation

Highlights : The CDS in the national landscape

- The CDS has been confirmed as “Research Infrastructure” in the 2012-2020 MESR Roadmap (Oct. 2012)



Sciences du système Terre et de l'Univers - Sciences de l'Univers

catégorie	nom de groupe	nom	nom complet
OI	ESO	ESO	European Southern Observatory
		ALMA	Atacama Large Millimeter/submillimeter Array; Observatoire mondial interférométrique millimétrique/submillimétrique
		ELT (Projet)	ESO/ Extremely Large Telescope - Plus grand télescope mondial en visible et infrarouge proche.
		VLT	Very Large Telescope (Interferometer) : Réseau de 4 télescopes optiques avec un mode interférométrique
TGIR		CFHT	Canada-France-Hawaii Telescope ; télescope optique et proche infrarouge à large champ de vue
TGIR		IRAM	Institut de RadioAstronomie Millimétrique /Extension du plateau de Bure (NOEMA, Northern Extended Millimeter Array)
IR		CDS	Centre de données astronomiques de Strasbourg
IR		HESS	High Energy Stereoscopic System ; réseau de télescopes Cherenkov en rayons gamma de très haute énergie
IR		LOFAR	LOW Frequency ARray; Radiotélescope métrique/décamétrique composé de 41 stations en réseau réparties en Europe
PROJET		CTA	Astronomie des très hautes énergies. Projet de télescope suite des instruments HESS et HESS2

Highlights: Participation in projects



- CDS is officially involved in Gaia Data Processing Archive Access Coordination Unit (CU9), selected in March 2013
- Five European projects
 - Collaborative and Sustainable Astronomical Data Infrastructure for Europe (CoSADIE), the current Euro-VO project, led by CDS
 - Three projects selected in SPACE Calls
 - Astronomical Resource cross-matching for High Energy Studies (ARCHES), led by the High Energy Astrophysics team of the Observatory
 - Unveiling the power of the deepest images of the Universe (AstroDeep)
 - The Milky Way as a star formation engine (VIALACTEA)
 - International Collaboration on Research Data Infrastructure (iCORDI), which is now RDA Europe

“Projects” talk this afternoon

Highlights: Services



- SIMBAD can sort references attached to objects by “relevance” (where the object is cited in the text) – Release September 2013
- *Aladin lite*, Aladin running in your web browser – Release May 2013
- Implementation of the CDS services in the VO framework:
TAPVizieR released January 2013 (TAP: Table Access Protocol)
370 000 columns, huge data heterogeneity
- *VizieR Photometry Viewer* – release October 2013
A first step, with Aladin lite, towards customizable web pages
- Efficient pipeline for survey catalogues and images
 - Planck maps in Aladin - March 2013
 - Participation in the data release of the final version of the CFHT Legacy Survey – October 2012

SIMBAD sorts references by relevance

References of M 38 = NGC 1912

References (101 between 1850 and 2014)
Simbad bibliographic survey began in 1950 for stars (at least bright stars) and in 1983 for all other objects (outside the solar system).

Sort by date

Sort reference summaries by : (not exhaustive)

2013ApJ...777L...1F [x d ,2]
 Astrophys. J., 777, L1 (2013)
The open cluster chemical analysis and mapping of M 38
 FRINCHABOY P.M., THOMPSON B., JACKSON K.M., BEERS T.C., BIZYAIEV D., BREWINGTON H., CUNHA K., MALANUSHENKO V., MARCHANTE M., MESZAROS S., SNEDDEN S., SMITH V.V. and WILSON J.C.

Comments & notes:
flags: (abstract)

2012RMxAA...48...41B [x ,1]
 Rev. Mex. Astron. Astrofis., 48, 41-46 (2012)
Radio continuum observations of LMC SNR J0530-0535
 BOZZETTO L.M., FILIPOVIC M.D., CRAWFORD E.J.

2011ARep...55..473D [x d ,2]
 Astron. Rep., 55, 473-486 (2011)
On the dynamics of open clusters.
 DANILOV V.M.

Comments & notes:
notes: 2011AZh....88..515D

2011AstL...37..248K
 Astron. Lett., 37, 248-253 (2011)
Dynamics of double open clusters in the galactic neighborhood
 KORKOV A.V. and ORLOV V.V.

Comments & notes:
notes: 2011PAZh...37..274K

2011JHA...42..177H
 J. History of Astronomy, 42, 177-192 (2011)
William Herschel and the nebulae, part 1: 1781-1800
 HOSKIN M.

References (101 between 1850 and 2014)
Simbad bibliographic survey began in 1950 for stars (at least bright stars) and in 1983 for all other objects (outside the solar system).

Sort by title, abstract, keyword

Sort reference summaries by : (not exhaustive)

2007PASJ...59..547P (in **title, abstract, keyword, subtitle**) [t k]
 Publ. Astron. Soc. Jap., 59, 547-558 (2007)
Stellar contents of two intermediate age clusters: NGC 1912 and NGC 1917
 PANDEY A.K., SHARMA S., UPADHYAY K., OGURA K., SANDHU T.

Comments & notes:
flags: (abstract)

2005BASI...33..379P (in **title**) [t]
 Bull. Astron. Soc. India, 33, 379 (2005)
Wide field CCD photometry around open cluster NGC 1912
 PANDEY A.K., UPADHYAY K., OGURA K., MITO H. and SAGAR R.

2004AAS...205.2217D (in **title**) [t]
 American Astron. Soc. meeting, 205, #22.17 (2004)
WIYN open cluster study MOSAIC photometry of M 38.
 DENMARK D.J., SARAJEDINI A., DELIYANNIS C.P., CUMMINGS J.

Comments & notes:
CDS status: being processed

2002A&A...390..103D (in **title**) [t]
 Astron. Astrophys., 390, 103-108 (2002)
NGC 1912 and NGC 1907: A close encounter between open clusters
 DE OLIVEIRA M.R., FAUSTI A., BICA E. and DOTTORI H.

Comments & notes:
flags: (abstract)

1999AJ...117..937S (in **title, keyword**) [t k]
 Astron. J., 117, 937-961 (1999)
Multicolor CCD photometry and stellar evolutionary analysis of M 38
 SUBRAMANIAM A. and SAGAR R.

Comments & notes:
flags: (abstract)
dic: Table 4: <Cl* NGC 1912 SuSa NN> N=15 among (Nos 1-15)

References (101 between 1850 and 2014)
Simbad bibliographic survey began in 1950 for stars (at least bright stars) and in 1983 for all other objects (outside the solar system).

Sort "in table"

Sort reference summaries by : (not exhaustive, [explanation here](#))

2013ApJ...777L...1F (in **table, text**) [x d ,2]
 Astrophys. J., 777, L1 (2013)
The open cluster chemical analysis and mapping survey: local galactic metallicity gradient with AP
 FRINCHABOY P.M., THOMPSON B., JACKSON K.M., O'CONNELL J., MEYER B., ZASOWSKI G., MAJEWSKI S.R., CHAMBERS C.E., BIZYAIEV D., BREWINGTON H., CUNHA K., EBELKE G., GARCIA PEREZ A.E., HEARTY F.R., HOLTZMAN M., MALANUSHENKO V., MARCHANTE M., MESZAROS S., MUNA D., NIDEVER D.L., ORAVETZ D., PAN K., SCHIAVOLO S., SNEDDEN S., SMITH V.V. and WILSON J.C.

Comments & notes:
flags: (abstract)

2011ARep...55..473D (in **table, text**) [x d ,2]
 Astron. Rep., 55, 473-486 (2011)
On the dynamics of open clusters.
 DANILOV V.M.

Comments & notes:
notes: 2011AZh....88..515D

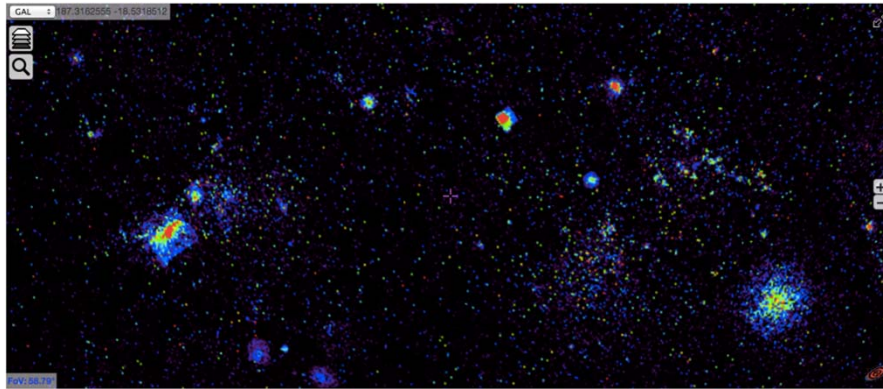
2010MNRAS.407.2109P (in **table**) [d ,1]
 Mon. Not. R. Astron. Soc., 407, 2109-2121 (2010)
A kinematic study of open clusters: implications for their origin.
 PUTTE D.V., GARNIER T.P., FERRERAS I., MIGNANI R.P. and CROPPER M.

Comments & notes:
flags: (abstract)
files: <Available at CDS: table1.dat table2.dat table4.dat>

2009A&A...495..807K (in **table**) [d ,1]
 Astron. Astrophys., 495, 807-818 (2009)
Shape parameters of galactic open clusters.
 KHARCHENKO N.V., BERCELIK P., PETROV M.I., PISKUNOV A.E., ROESER S., SCHILBACH E. and SCHOLZ R.-D.

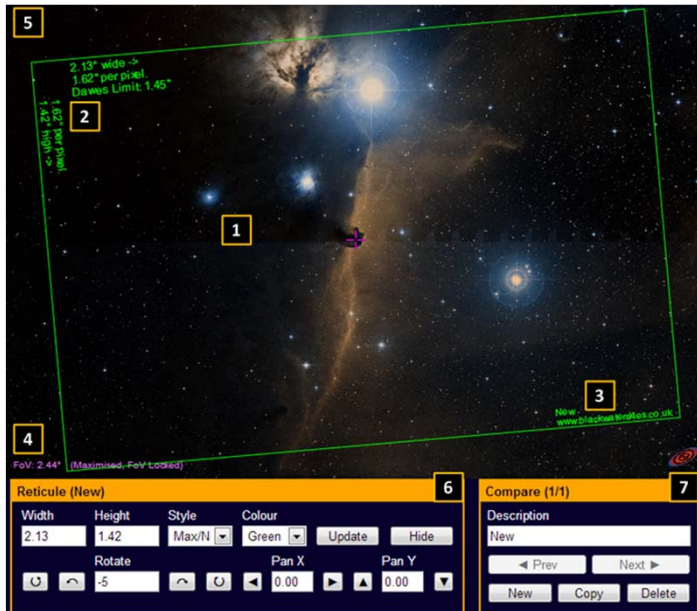
Comments & notes:
flags: (abstract)
files: <Available at CDS: table.dat>

Aladin Lite



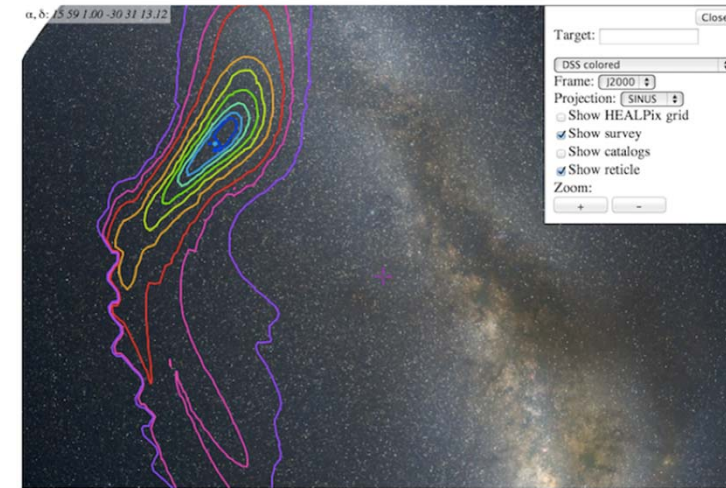
ADS All Sky Survey

Imaging Toolbox (amateur astronomer)



Skymap for G43582

LIGO



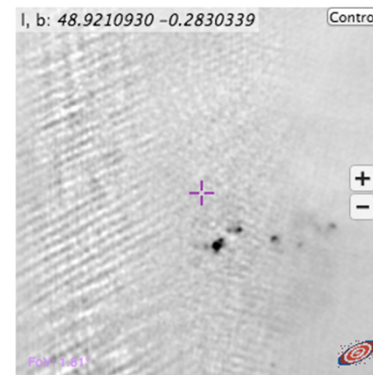
Atomic Hydrogen

Map:

http://cade.irap.omp.eu/documents/Ancillary/VGPS/VGPS_1_8192.fits

Weight:

http://cade.irap.omp.eu/documents/Ancillary/VGPS/VGPS_1_8192_weight.fits



VGPS/CADE (IRAP)

Aladin Lite in SIMBAD (in test)

Basic data :

SH 2-87 -- HII (ionized) region

query around with radius arcmin

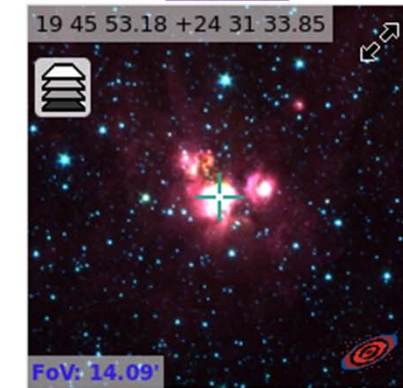
Other object types: **Rad** (B2, BWE, F3R, GB6, 87GB, GRS, MITG, NVSS, WSRTGP, [CPA2002], [TGC96]), **HII** (LBN, SH), **IR** (IRAS, RAFGL), **ISM** ([TP72])

ICRS coord. (ep=J2000): **19 46 20.90 +24 35 14.0 (~) [600 600 175] D [1998AJ...115.1693C](#)**

Gal coord. (ep=J2000): **060.8820 -00.1332 (~) [600 600 0] D [1998AJ...115.1693C](#)**

Radial velocity / Redshift / cz: **V(km/s) 21.7 [-] / z(~) 0.000072 [-] / cz 21.70 [-] (~) D [1996A&AS..115...81B](#)**

Interactive [AladinLite](#)



Identifiers (18) :

[LBN](#) 060.95-00.03

[B2.2](#) 1944+24

[BWE](#) 1944+2427

[F3R](#) 2108

[GB6](#) B1944+2427

[87GB](#) 194413.6+242748

[GRS](#) G060.90 -00.10

[IRAS](#) 19442+2427

[LBN](#) 136

[MITG](#) J194623+2435

[MITG](#) J194621+2435

[NVSS](#) J194620+243514

[RAFGL](#) 2454

[SH](#) 2-87

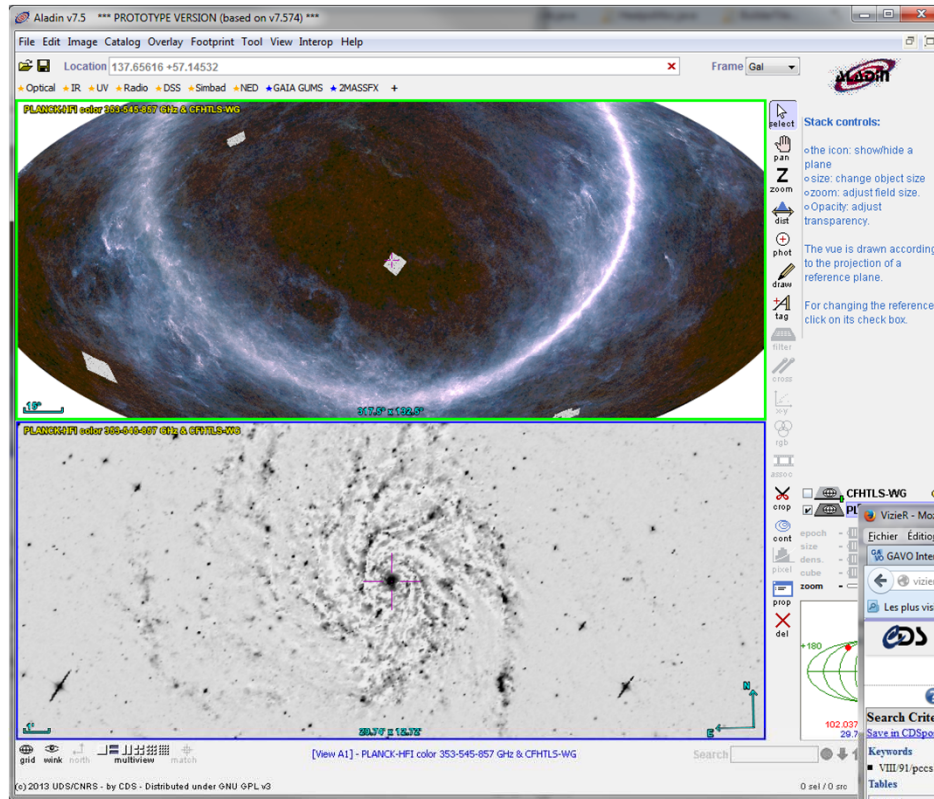
[WSRTGP](#) 1944+2427

[\[CPA2002\]](#) 6

[\[TGC96\]](#) 1944+2427

[\[TP72\]](#) 65

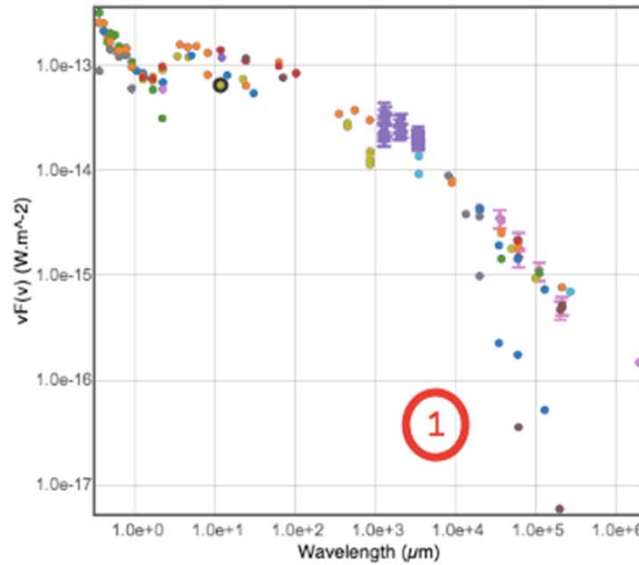
Planck and CFHTLS at CDS



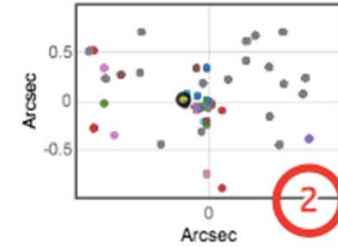
Full	Freq	Glx	PCCS1	RAJ2000	DEJ2000	Sd	S	e	Sg	gMaj	gMin	te	fx	cutouts	s217	s353	s545	all
1	030	G000.07-00.06	266.5043	-28.9107	215223	498613	37420	840080	70.53	38.87	1	2						all
2	030	G000.54-58.34	337.7022	-39.6691	709	981	279	1152	42.83	37.19	0	2						all
3	030	G000.66-42.85	317.4109	-41.1843	699	757	403	703	38.11	25.87	0	2						all
4	030	G001.40+45.97	229.1893	+00.2471	1394	1835	339	1923	38.77	35.05	0	2						all

VizieR Photometry Viewer

3c273 (12 29 6.695+02 03 8.662),
radius : 1 arcsec



Mouse position:
Wavelength :
4.53e+3 μm
Frequency :
6.62e+1 GHz
Energy :
2.74e-4 eV
Flux density or F(v) :
1.15e-3 Jy
vF(v) :
7.58e-19 W.m²
F(λ) :
1.67e-2 erg.s⁻¹.cm⁻². μm^{-1}



Center (R.A.+Dec.):
12 29 6.695+02 03 8.662

options

show	source	_RAJ2000	_DEJ2000	_tabname	_sed_freq	wavelength	_sed_flux	_sed_eflux	_sed_filter
all		(deg)	(deg)		(GHz)	(μm)	(Jy)	(Jy)	
<input checked="" type="checkbox"/>	WISE==J122906.70+020308.6	187.277945	+02.052411	II/311/wise	138.55e+3	2.16e+0	68.0e-3	1.4e-3	2MASS:Ks
<input checked="" type="checkbox"/>	WISE==J122906.70+020308.6	187.277945	+02.052411	II/311/wise	181.75e+3	1.65e+0	40.0e-3	1.0e-3	2MASS:H
<input checked="" type="checkbox"/>	WISE==J122906.70+020308.6	187.277945	+02.052411	II/311/wise	241.96e+3	1.24e+0	31.0e-3	0.8e-3	2MASS:J
<input checked="" type="checkbox"/>	WISE==J122906.70+020308.6	187.277945	+02.052411	II/311/wise	25.934e+3	1.16e+1	0.253	0.003	WISE:W3
<input checked="" type="checkbox"/>	WISE==J122906.70+020308.6	187.277945	+02.052411	II/311/wise	65.172e+3	4.60e+0	0.186	0.003	WISE:W2
<input checked="" type="checkbox"/>	WISE==J122906.70+020308.6	187.277945	+02.052411	II/311/wise	89.490e+3	3.35e+0	0.138	0.003	WISE:W1
<input checked="" type="checkbox"/>	II/314/las8								
<input checked="" type="checkbox"/>	-c=htarg(187.277938+02.052428,eq=J2000)\&c.rs=0.004	187.277938	+02.052428	II/314/las8	136.21e+3	2.20e+0	51.1e-3	0.0e-3	UKIDSS:K
<input checked="" type="checkbox"/>	-c=htarg(187.277938+02.052428,eq=J2000)\&c.rs=0.004	187.277938	+02.052428	II/314/las8	183.78e+3	1.63e+0	41.7e-3	0.0e-3	UKIDSS:H
<input checked="" type="checkbox"/>	II/319/las9								
<input checked="" type="checkbox"/>	recno=53344062	187.277918	+02.052421	II/319/las9	136.21e+3	2.20e+0	51.1e-3	0.0e-3	UKIDSS:K
<input checked="" type="checkbox"/>	recno=53344062	187.277918	+02.052421	II/319/las9	183.78e+3	1.63e+0	41.7e-3	0.0e-3	UKIDSS:H

- Action to improve reliability
 - Systematic analysis of all relevant elements
 - Assessment of the Data Seal of Approval label – our main aim is to provide data which can be reused, rather than data preservation, and we have to change the point of view to work on DSA criteria. DSA is recognized by EC.
 - CDS is a member of the World Data System, which means that it has been evaluated as trustable (“light” technical evaluation and evaluation of the scientific relevance, well adapted to “data services”, not only to “data repositories”)
- Actions to improve our tools, our procedures, and our expertise
 - Upgrade of the collaborative spaces
 - Re-organisation of the “documentalistes” shared documentation
 - Continuation of the “Infusion” meetings – knowledge exchange between computer engineers, astronomers, trainees (CDS and the other Observatory engineers)
 - Many intern trainings, most of them on research or R&D topics

R&D talk this afternoon

Service supervision



Firefox

Home | Data Seal of Approval × http://aladin.u-str...st/GluSupervisor.pl × +

eDS Portal Simbad VizieR Aladin X-Match Other Help

Glu Supervisor

Date du dernier test complet : 19-Mar-2013 09:34

ACDS/XMM	Aladin	Bazaar etc...	Biblio CDS
CDS http servers	Climatisation	Clones locaux	Dictionary of nom.
GLU	Portail CDS	Sesame	Simbad
Simplay	VizieR	WebService	XMatch

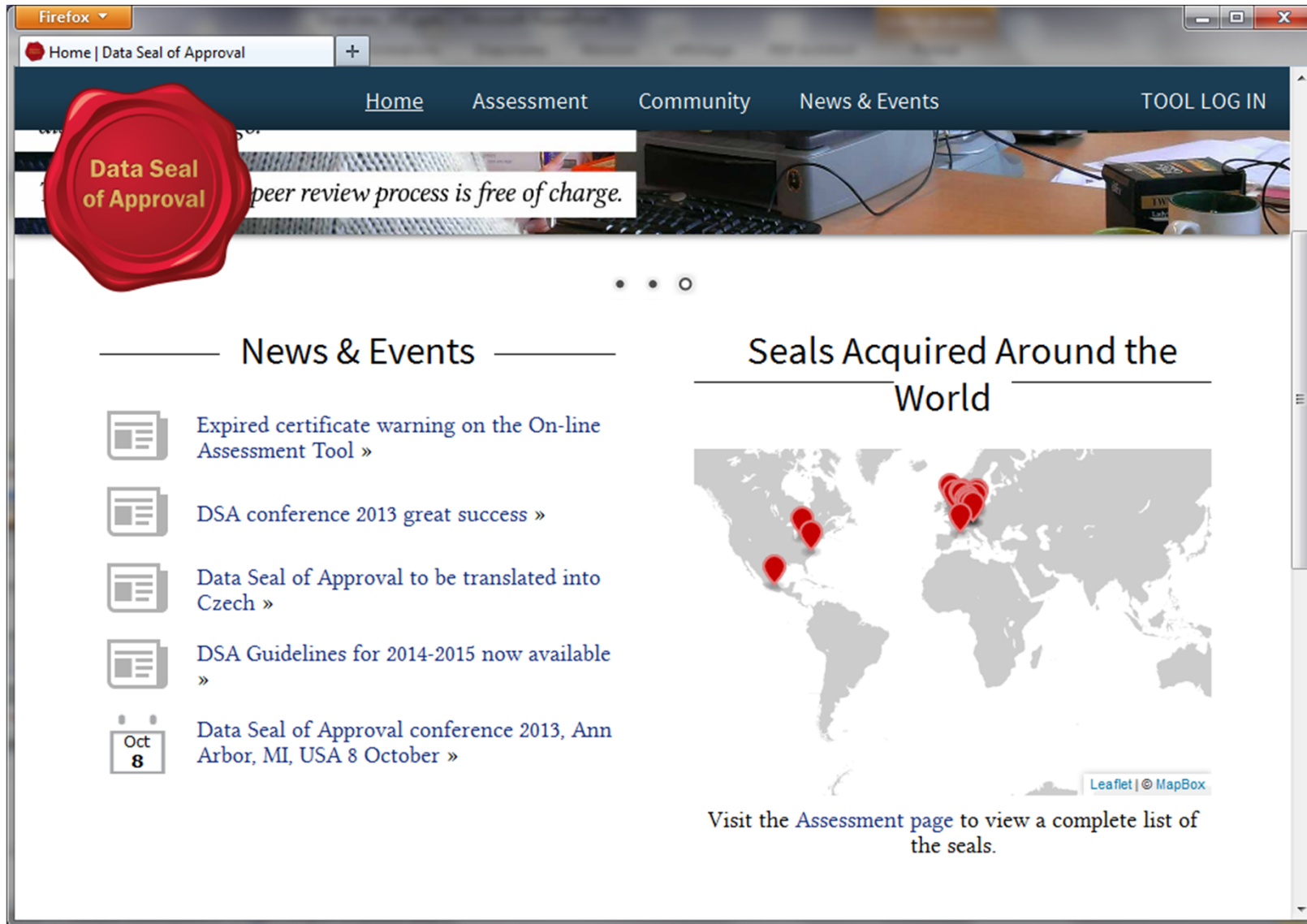
Relancer un test global manuellement => Relancer

 Tout roule
 Panne récente
 Tests non effectués
 Panne mineure
 Panne majeure

Pour quelques explications techniques, cliquer [ici](#)

© IIDS/CNRS

Data Seal of approval : trusted repositories



Firefox

Home | Data Seal of Approval


Home Assessment Community News & Events TOOL LOG IN

Data Seal of Approval peer review process is free of charge.

News & Events

- Expired certificate warning on the On-line Assessment Tool »
- DSA conference 2013 great success »
- Data Seal of Approval to be translated into Czech »
- DSA Guidelines for 2014-2015 now available »
- Oct 8 Data Seal of Approval conference 2013, Ann Arbor, MI, USA 8 October »

Seals Acquired Around the World



Leaflet | © MapBox

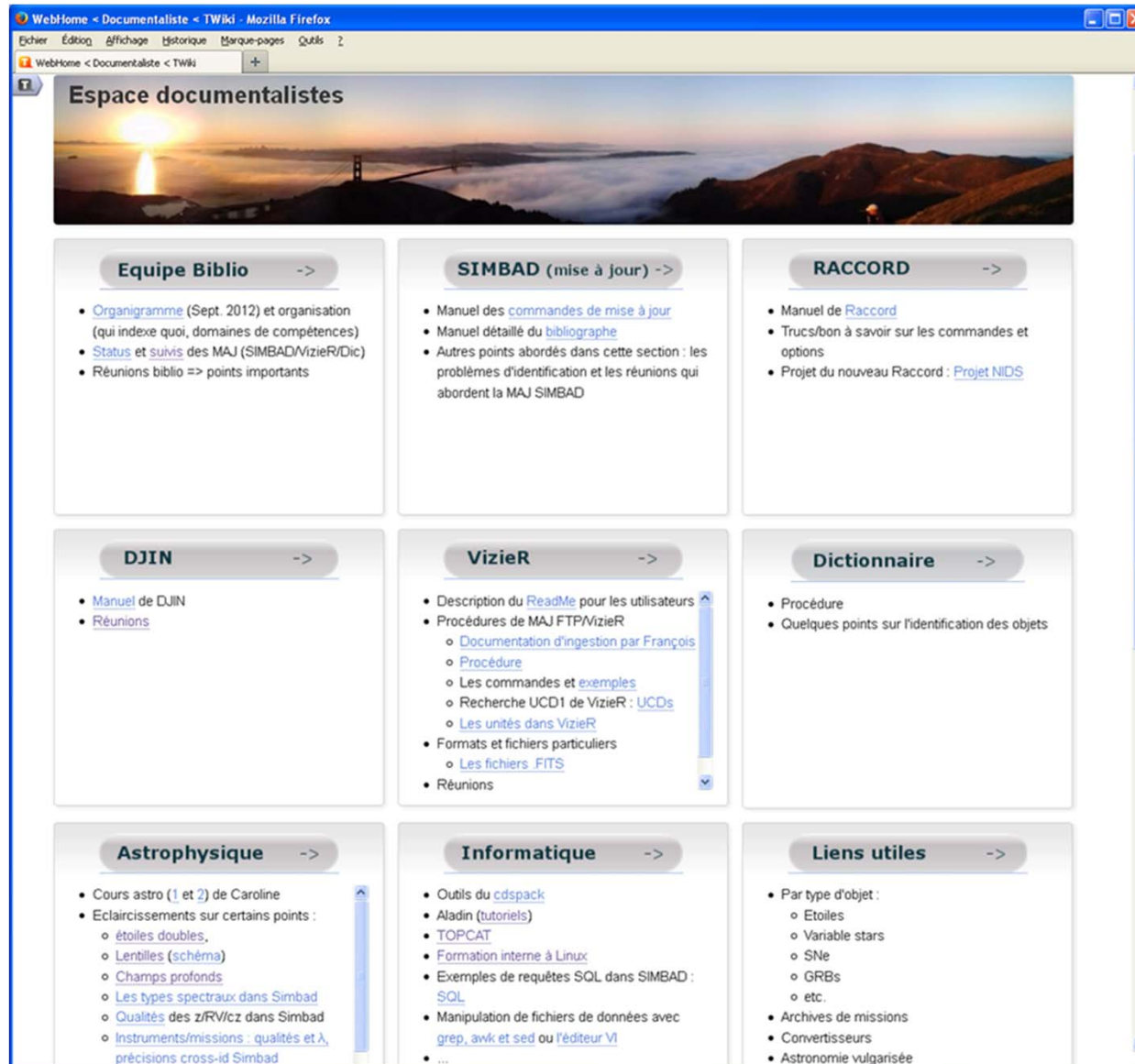
Visit the [Assessment](#) page to view a complete list of the seals.

ICSU World Data System: trusted data centres and data services



The screenshot shows the ICSU World Data System website. The browser window title is "World Data System - World Data System - Mozilla Firefox". The address bar shows "icsu-wds.org". The website has a navigation menu with "Home", "Organization", "Our Members", "Services", "Publications", and "Working Groups". A search bar is located in the top right. The main content area features a quote: "The WDS supports ICSU's mission and objectives, ensuring the long-term stewardship and provision of quality-assessed data and data services to the international science community and other stakeholders." attributed to "SCID Report 2008". To the right is the ICSU World Data System logo. Below the quote is a featured article titled "A Different Kind of Ecosystem" with a sub-image titled "International Forum Polar Data Activities in Global Data Systems" dated "15-16 October 2013". The article text states: "The following article was written by WDS-SC member Wim Hugo—Chief Data and Information Officer, South African Environmental Observation Network (SAEON)—in the October edition of the SAEON newsletter. This piece outlines SAEON's 'data manifesto', emphasizing the ethos on which this is founded and the efforts of ICSU-WDS in the field of global scientific data management." A bullet point below reads "• A different kind of ecosystem". On the right side, there is a "Latest Blog Entries" section with five entries, each with a "More" link: "The Rise of Open Access (More)", "New Visions for Citizen Science (More)", "Nature to Launch 'Scientific Data' Journal (More)", "Response to Science Magazine Open Access Publishing Hoax (More)", and "University of California's Academic Senate Approves Open Access".

The “documentalists” collaborative space



WebHome - Documentaliste - TWiki - Mozilla Firefox

Espace documentalistes

- Equipe Biblio** ->
 - [Organigramme](#) (Sept. 2012) et organisation (qui indexe quoi, domaines de compétences)
 - [Status et suivis](#) des MAJ (SIMBAD/VizieR/Dic)
 - Réunions biblio => points importants
- SIMBAD (mise à jour)** ->
 - Manuel des [commandes de mise à jour](#)
 - Manuel détaillé du [bibliographe](#)
 - Autres points abordés dans cette section : les problèmes d'identification et les réunions qui abordent la MAJ SIMBAD
- RACCORD** ->
 - Manuel de [Raccord](#)
 - Trucs/bon à savoir sur les commandes et options
 - Projet du nouveau Raccord : [Projet NIDS](#)
- DJIN** ->
 - [Manuel](#) de DJIN
 - [Réunions](#)
- VizieR** ->
 - Description du [ReadMe](#) pour les utilisateurs
 - Procédures de MAJ FTP/VizieR
 - [Documentation d'ingestion par François](#)
 - [Procédure](#)
 - Les commandes et [exemples](#)
 - Recherche UCD1 de VizieR : [UCDs](#)
 - [Les unités dans VizieR](#)
 - Formats et fichiers particuliers
 - [Les fichiers FITS](#)
 - Réunions
- Dictionnaire** ->
 - Procédure
 - Quelques points sur l'identification des objets
- Astrophysique** ->
 - Cours astro (1 et 2) de Caroline
 - Eclaircissements sur certains points :
 - [étoiles doubles](#),
 - [Lentilles \(schéma\)](#)
 - [Champs profonds](#)
 - [Les types spectraux dans Simbad](#)
 - [Qualités des z/RV/cz dans Simbad](#)
 - [Instruments/missions : qualités et](#), [précisions cross-id Simbad](#)
- Informatique** ->
 - Outils du [cdspack](#)
 - [Aladin \(tutoriels\)](#)
 - [TOPCAT](#)
 - [Formation interne à Linux](#)
 - Exemples de requêtes SQL dans SIMBAD : [SQL](#)
 - Manipulation de fichiers de données avec [grep](#), [awk](#) et [sed](#) ou [l'éditeur Vi](#)
 - ...
- Liens utiles** ->
 - Par type d'objet :
 - Etoiles
 - Variable stars
 - SNe
 - GRBs
 - etc.
 - Archives de missions
 - Convertisseurs
 - Astronomie vulgarisée

The "Infusion" meetings



Announces de réunion - Infusion - Mozilla Firefox

Le CNRS - Très grandes infrastructure... - MESR_Strategie-Nationale-Infrastru... - Announces de réunion - Infusion

cdsannotations.u-strasbg.fr/infusion/?-Announces-de-reunion-

Infusion

Accueil du site > Annonces de réunion

Annonces de réunion

Dernier ajout : 2 octobre 2012.

Articles de cette rubrique

- Infusion XIV - 5 octobre 2012**
2 octobre 2012, par Thomas
- Infusion XIII - 29 juin 2012**
11 juin 2012, par Thomas
- Infusion XII - 11 mai 2012**
24 avril 2012, par Thomas
- Infusion XI - 16 mars 2012**
9 février 2012, par Thomas
- Infusion X - 3 février 2012**
20 janvier 2012, par Thomas
- Réunion Infusion IX - vendredi 9 décembre 2011**
25 novembre 2011, par Thomas



Infusion XIV - 5 octobre 2012 - Infusion - Mozilla Firefox

Le CNRS - Très gran... - MESR_Strategie-Na... - Infusion XIV - 5 octo...

cdsannotations.u-strasbg.fr/infusion/?i

Infusion

Accueil du site > Annonces de réunion > **Infusion XIV - 5 octobre 2012**

Infusion XIV - 5 octobre 2012

mardi 2 octobre 2012, par Thomas

Le programme de la réunion Infusion du 5 octobre 2012 est le suivant :

- **Laurent Michel: Des projets ? Pour quoi faire !.** Retour sur la formation INSU consacrée à la Spécification.
- **André Schaaff: Wakanda, framework intégré de développement Javascript**



Infusion XIII - 29 juin 2012 - Infusion - Mozilla Firefox

Le CNRS - Très gran... - MESR_Strategie-Na... - Infusion XIII - 29 juin ...

cdsannotations.u-strasbg.fr/infusion/?i

Infusion

Accueil du site > Annonces de réunion > **Infusion XIII - 29 juin 2012**

Infusion XIII - 29 juin 2012

lundi 11 juin 2012, par Thomas

La réunion infusion n°13 se tiendra vendredi 29 juin 2012, avec le programme suivant :

- **Compte-rendu de la conférence PostgreSQL, PG Day France**, par Gilles Landais
- **Nouveautés de Java 7 (et Java 8)**, par Thomas Boch

STATUS OF SC 2012 RECOMMENDATIONS

-
- A very rich, deep analysis of all the aspects of our activities
 - The recommendations are kept in mind and used as guidelines, even if they are not all implemented yet
 - A detailed assessment is given in the yearly report. A selection of topics is presented here but all are of course open for questions.

High level recommendations (1)

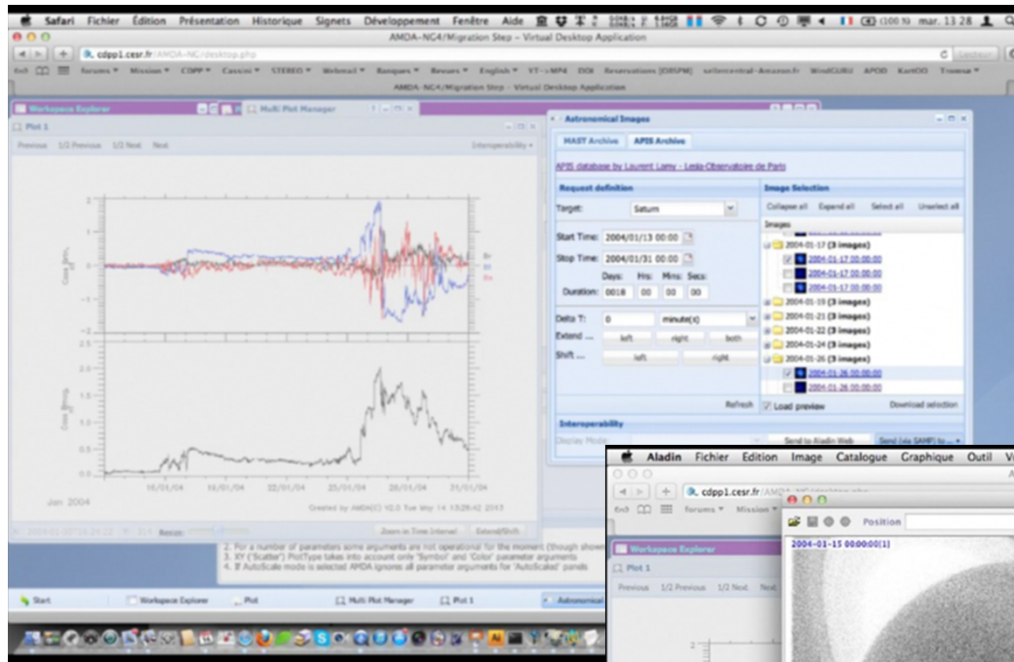
- “Services should be maintained at the highest level and upgraded periodically through research and development”

Service and R&D talk

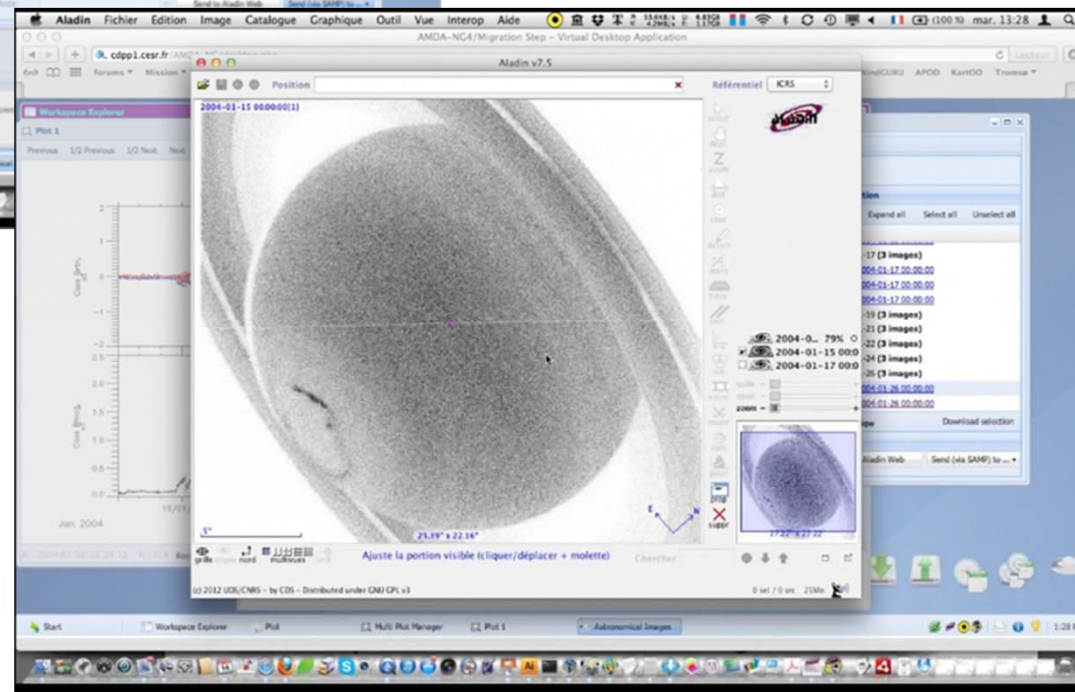
- “It would be beneficial to collaborate with organisations which generate large volumes of data”
 - Collaboration with ESA, including participation in Gaia and usage of Aladin
 - Discussions with ESO on dissemination of the Public Surveys
 - Collaboration with ADS (ADS All Sky Survey) *Demo*
 - Positive discussions with LOFAR and the Australians involved in preparation of SKA
 - Usage of Aladin by the planetary/space science community
- Role in the VO
 - Documents sent
 - Euro-VO: CoSADIE School and Data Centre Forum, close collaboration with Astronet
 - M. Allen organised Heidelberg Focus Sessions
 - Dissemination towards the national high energy astrophysics community (IN2P3)

Services, R&D and “Open data” talk

Saturn auroras in Aladin

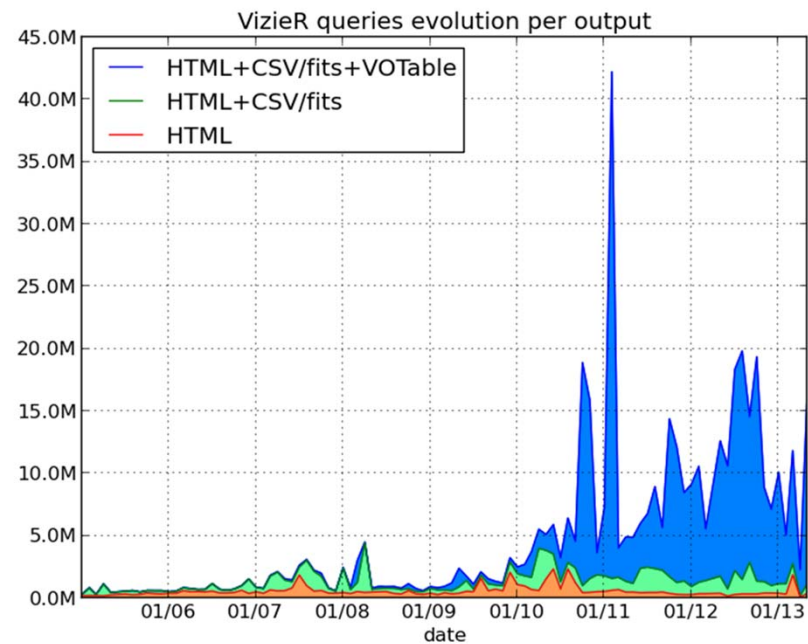


AMDA (CDPP) talks to Aladin using VO protocols



VO status

- The VO is fully operational but since it works it is hidden from the users, even when they use it routinely
- Advanced functionalities (multi-D data, time series) are being developed
- Future projects such as SKA or LSST planning to be VO compliant



Heidelberg IVOA Focus sessions



InterOpMay2013 < IVOA < TWiki - Mozilla Firefox

wiki.ivoa.net/twiki/bin/view/IVOA/InterOpMay2013

Tuesday May 14 2013			
5	09:00–09:10	gHS	Focus session on multi-dimensional data - Mark Allen (Session Chair) Introduction (pdf)
	09:10–09:30	gHS	CyberSKA (pdf) Russ Taylor
	09:30–09:50	gHS	ALMA, JVLA, VLBA (pdf) Brian Glendenning
	09:50–10:10	gHS	CALIFA (pdf) Mariya Lyubenova
	10:10–10:30	gHS	MUSE (pdf) Thomas Martinsson
	10:30–11:00		Break
6	11:00–12:30	gHS	Focus session on multi-dimensional data - Joseph Lazio (Moderator) Panel Discussion Panel:
			Severin Gaudet (TCG)
			Ray Norris (ASKAP) (pdf)
			Felix Stoehr (ALMA) (pdf)
			Michael Wise (ASTRON) (pdf)
			Frederic Paletou (Polarization) (pdf)
			Arnold Rots (X-ray) (pdf)
			Pat Dowler (DAL WG)
			Omar Laurino (DM WG)
			Lunch
		gHS	Apps III

InterOpMay2013 < IVOA < TWiki - Mozilla Firefox

wiki.ivoa.net/twiki/bin/view/IVOA/InterOpMay2013

Wednesday May 15 2013			
9	09:00–09:10	gHS	Focus session on time domain astronomy - Introduction (pdf) Enrique Solano (Session Chair)
	09:10–09:30	gHS	CoRoT, Kepler time series (pdf) Jonas Deboscher
	09:30–09:50	gHS	Designs and Requirements for Time Domain Data in LSST (pdf) Mario Juric (LSST)
	09:50–10:10	gHS	ASKAP/VAST (pdf) Paul Hancock
	10:10–10:30	gHS	LOFAR Transients and MeerKAT "ThunderKAT" transients (pdf) John Swinbank
	10:30–11:00		Break
10	11:00–12:30	gHS	Focus session on time domain astronomy - Panel Discussion Panel:
			Severin Gaudet (TCG)
			Enrique Solano
			Mario Juric (LSST)
			Matthew Graham (TD IG, CRTS)
			Pat Dowler (DAL WG)
			Jesus Salgado (DM WG)

VO tutorial for the high energy community

Multi-instrument, multi-wavelength study of high energy sources with the Virtual Observatory

Caroline Bot^{1,2}, François Bonnarel^{1,2}, René Goosmann² and Françoise Genova^{1,2}

1: Centre de Données astronomiques de Strasbourg, France
2: Observatoire astronomique de Strasbourg, France

Load the VOTable file containing the HESS sources from Simbad (go back to the server selector and use the File tab -). These sources get overlaid on the FERMI allsky survey.

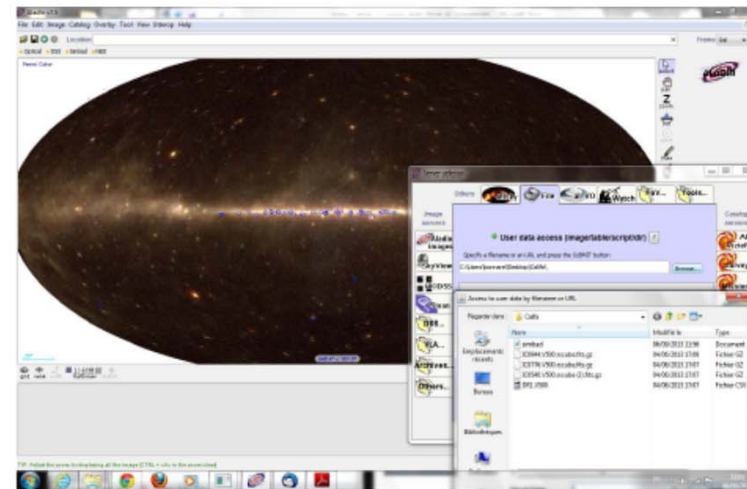


Figure 6: overlay of the HESS sources from Simbad on the FERMI color allsky image

Goal of this tutorial

This tutorial demonstrates how to data mining and multiple waveband towards applications in the gamma data from other wavebands. The u

- query astronomical catalog
- OV tools
- cross-correlate catalogues
- apply selection criteria
- use the observational means
- visualize astronomical ima
- display spectral energy dist



Figure 21: left: how to load the SCUBA 850um image from the Allsky menu
right: SCUBA 850um image of PKS 2155-304

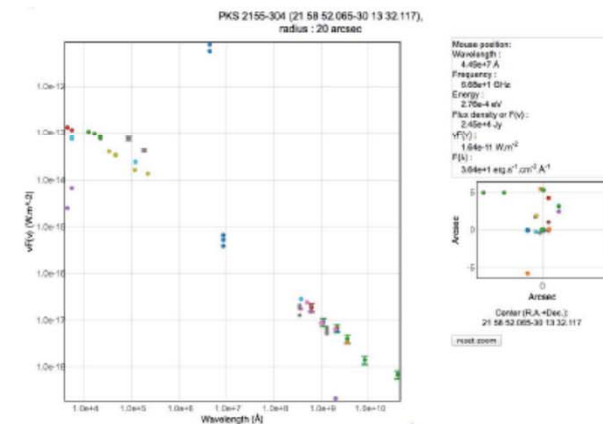
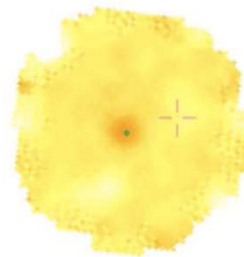


Figure 25: display of the photometric data points from VizieR catalogues found for PKS 2155-304

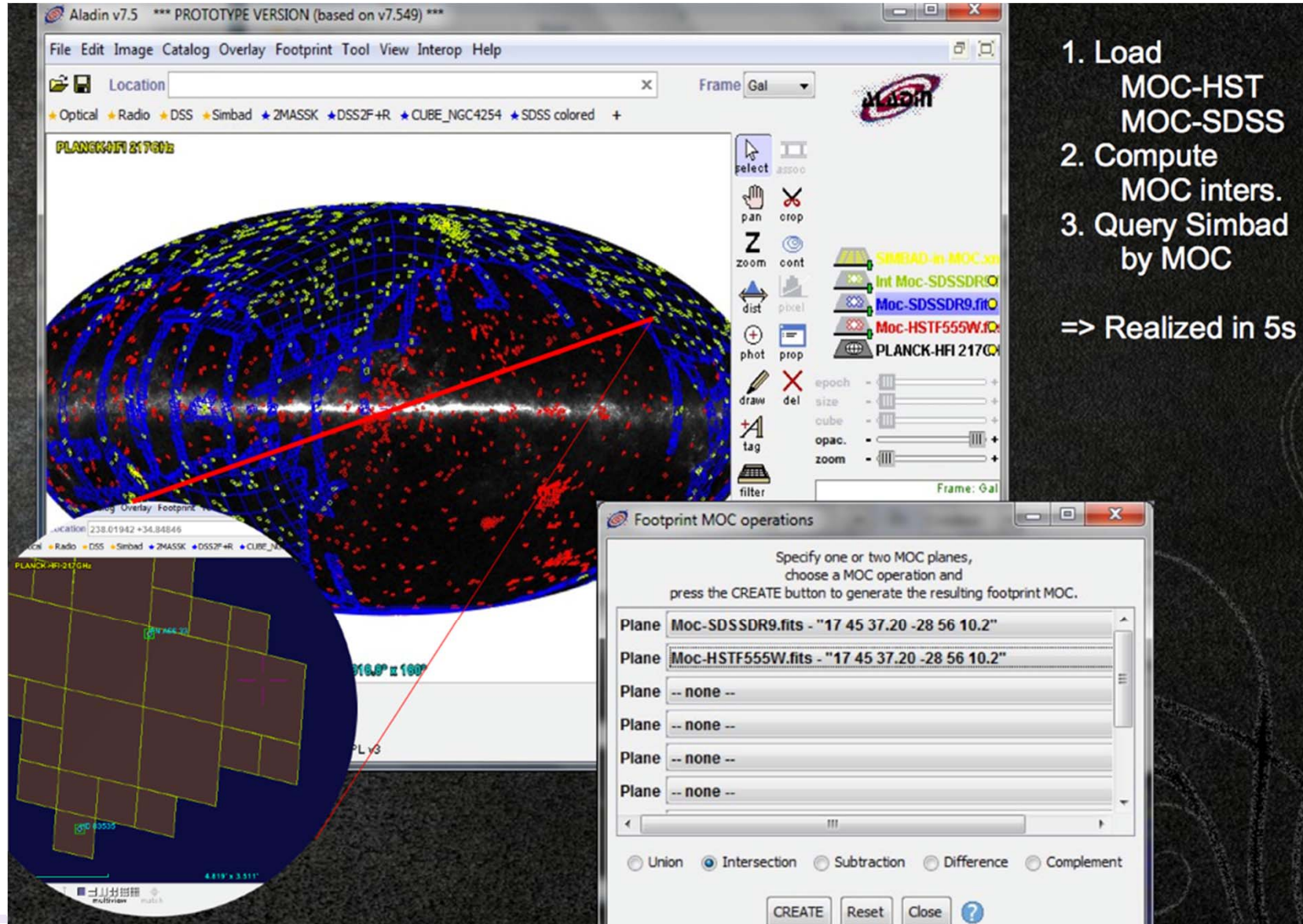
PKS 2155-304 – BL Lac object observed by HESS and FERMI

Coming soon...



« Please give me all SIMBAD objects
observed by HST F555W and SDSS DR9 »

Coming soon: Multi-Order Coverage



The screenshot shows the Aladin v7.5 software interface. The main window displays a 3D visualization of the sky with a grid overlay. A red line indicates a specific footprint. The 'Footprint MOC operations' dialog box is open, showing the following configuration:

- Plane 1: Moc-SDSSDR9.fits - "17 45 37.20 -28 56 10.2"
- Plane 2: Moc-HSTF555W.fits - "17 45 37.20 -28 56 10.2"
- Plane 3: -- none --
- Plane 4: -- none --
- Plane 5: -- none --
- Plane 6: -- none --

The dialog box also includes radio buttons for MOC operations: Union, Intersection (selected), Subtraction, Difference, and Complement. Buttons for CREATE, Reset, Close, and a help icon are at the bottom.

**1. Load
MOC-HST
MOC-SDSS**

**2. Compute
MOC inters.**

**3. Query Simbad
by MOC**

=> Realized in 5s

High level recommendations (2)

- Scientific activities
 - Two PhDs
 - Participation in projects

Science & Projects talks

- Visiting Scientist programme

The recommendation is taken very seriously and was part of the profile for a new “astronomers” position. No recruitment in 2013 but the profile will remain.

- Staffing

The situation is critical: F. Ochsenbein on Emeritus status, retirement of G. Chassagnard (IAP), and no recruitment. Two more critical retirements in 2014: M. Wenger, Ch. Bruneau

- Outreach

- Local activity towards secondary school teachers
- European/international aspects: led by INAF in IVOA and CoSADIE

- Future directions

Will be discussed throughout the meeting

- Routinely used by astronomers in their daily work
- Collaboration with journals, observatory archives, VO teams
- CDS long term expertise recognized beyond astronomy and the national borders
 - Participation in EC High Level Expert Group on Scientific Data (2010-2012), the Research Data Alliance, RDA-Europe
 - Chargée de mission INSU, VP Huma-Num Scientific Council, invited participation in INRA Open Access to data meeting, invited participation in FREDOC 2013, etc.

“CDS/Open data” talk

<http://cdsweb.u-strasbg.fr/~boch/24-hours-queries/>