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Centre de Données astronomiques de Strasbourg Strasbourg astronomical Data Center



Entry point to all services



Object database



Catalogue database



Interactive sky atlas

Other services



[X-match](#)



[Dictionary](#)

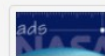


[Sesame](#)

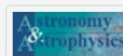


[SimPlay](#)

Hosted services



[ADS mirror](#)



[A&A](#)

[TIPTOPbase](#)
[INES](#)

Keep in touch



Latest news

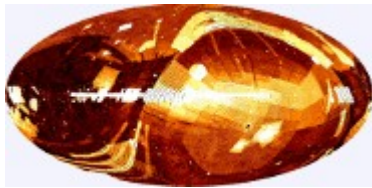
- Catalogs added between 24-May-2014 and 31-May-2014
- New VizieR beta version
- New server for SIMBAD
- Catalogs added between 17-May-2014 and 24-May-2014
- AllWISE HIPS surveys available
- Aladin v8 announcement
- Recent Progressive Survey (HIPS) additions

[More news](#)

Featured news



On September 18 2012, CDS celebrated **its 40 years**.



VizieR & SIMBAD created and maintained by
astronomers, documentalists & computer engineers :

- **An historical overview**
- Definition and roles of these 3 profiles today

3 main CDS services :



+ Nomenclature dictionary



The current CDS staff actively participating in at least one of the 4 services above :

- 10 astronomers
- 11 documentalists
- 11 computer engineers

1972

1980

1990

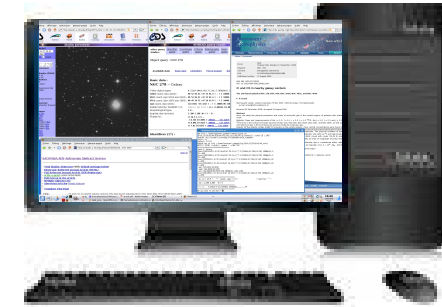
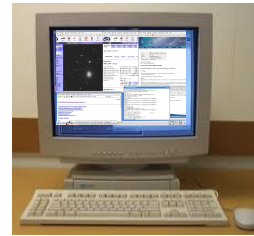
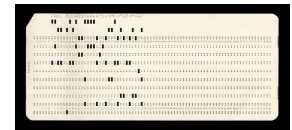
1993

1998

2006

2008

2014



Punched card

Alpha 20

vt100

Terminal X

PC

500 To



```

output set to file : /home/perret/~simbad/Log-2014.06.04-09-07-31_outep
[BJ] | B[IB] | h[elp] : update > o Nova Sct 1970
=====
NOVA Sct 1970
=====
Type: No* Nova
Coord ICRS(2000): 18 45 43.53-08 33 00.9 (-) [- - -] D 1997PASP..109..345
Coord ICRS(1950): 18 45 43.53-08 33 00.9 (-) [- - -] D 1997PASP..109..345
Coord FK5(2000): 18 45 43.53-08 33 00.9 (-) [- - -] D 1997PASP..109..345B
Coord FK5(1950): 18 42 59.92-08 36 13.7 (-) [- - -] D 1997PASP..109..345B
gal= 024.6694-02.6285
lgal= 200.8761+65.6320
lcl= 280.97783+14.43317 [D] 1997PASP..109..345D
Coord FK4(1950): 18 42 59.86-08 36 13.7 (-) [- - -] D 1997PASP..109..345D
=====
dim = - - - (-)
mb, mv = 7.7 - - - morph, type = - - / spectral - - -
=====
lv = - - - [+ -] -
Do you want to see more ? n
NOVA Sct 1970 : update > bye
    
```

other query Identifier Coordinate Criteria Reference Basic Script Output Help
modes : query query query query query submission options

Query an identifier

Identifier :

Examples

sirius, M31, MCG+02-60-010

How to write an identifier can be found in the [dictionary of nomenclature](#)

IAU format can also be used, with the following format:

iau [J]B[1230+08] [+ enlarging-factor] [- Object-type]

you can choose to query :

around the object, define a radius :

Query a list of identifiers

CSI

SIMBAD2

SIMBAD3

- Web

SIMBAD4

Raccord

Aladin

DJIN

COSIM

Magnetic bands & microfiches

Catalogs

VizieR

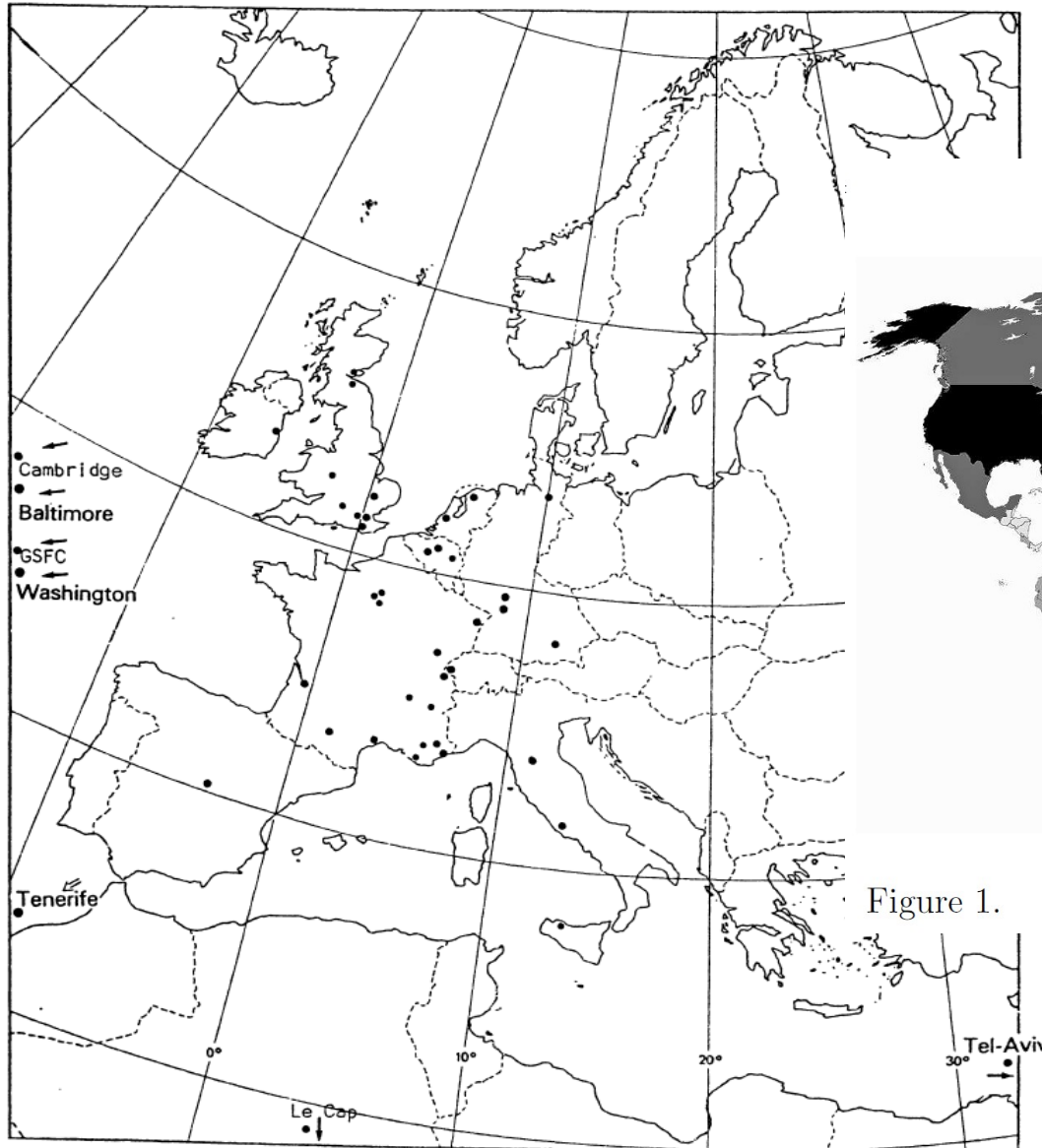
TAPVizieR

Users evolution (quantitatively)

Figure 1 : Localisation géographique des utilisateurs de SIMBAD (novembre 86)

~ 80 users

D. Egret



2001 : user accounts end ~8000
(M. Wenger, priv. com.)

Wenger and Oberto 2010ASPC.434.453

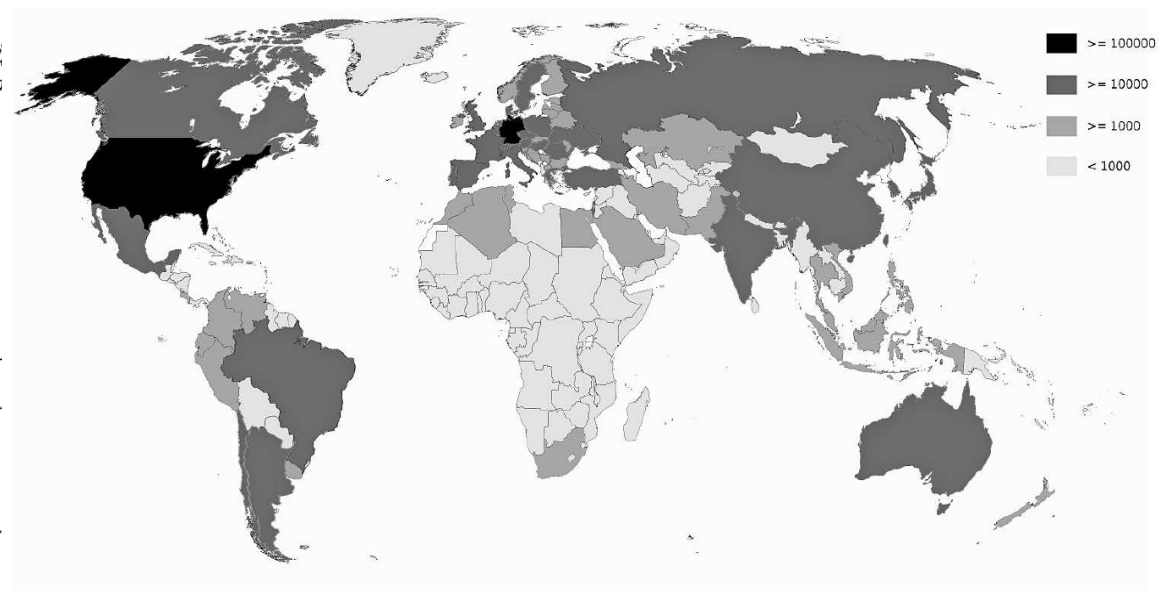


Figure 1.

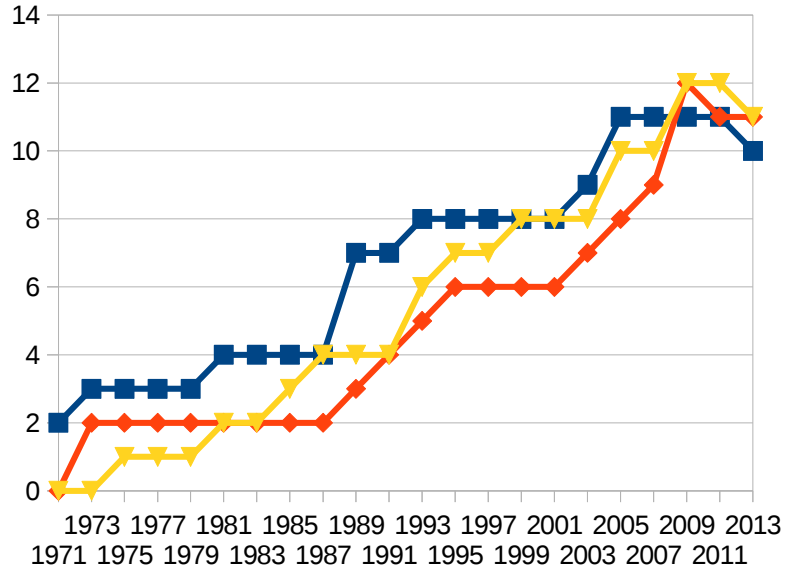
Users/country

IP adresses counts

>~100,000 in June 2009 in the US

2014 : 400,000 requests per day for
SIMBAD (M. Wenger, priv. com)

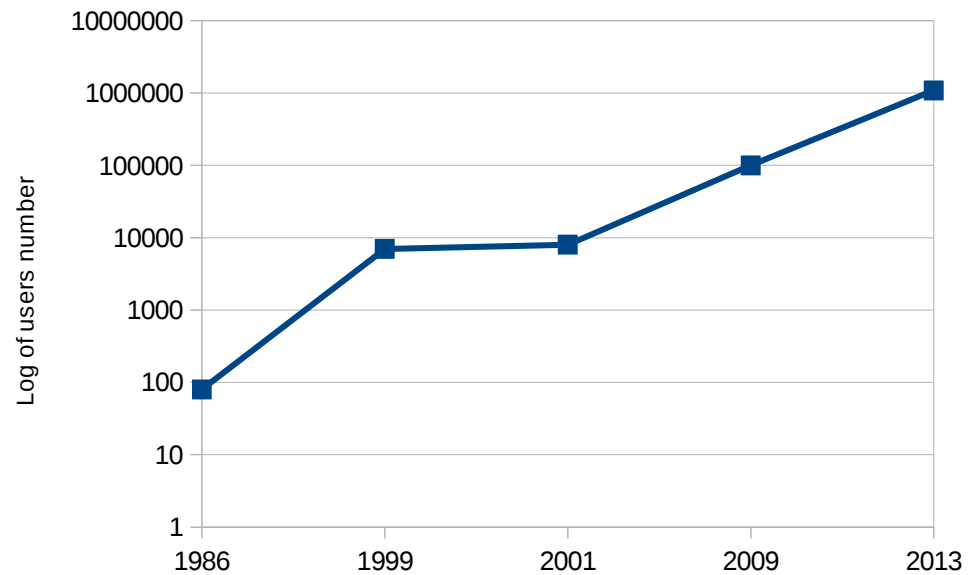
Staff evolution (quantitatively)



- Astronomers
- ◆ Computer engineers
- ▼ Documentalists

Includes also collaborations from other laboratories until 2013 (IAP, observatories of Meudon, Midi-Pyrénées, Paris, Bordeaux...); now all the staff is based in Strasbourg.

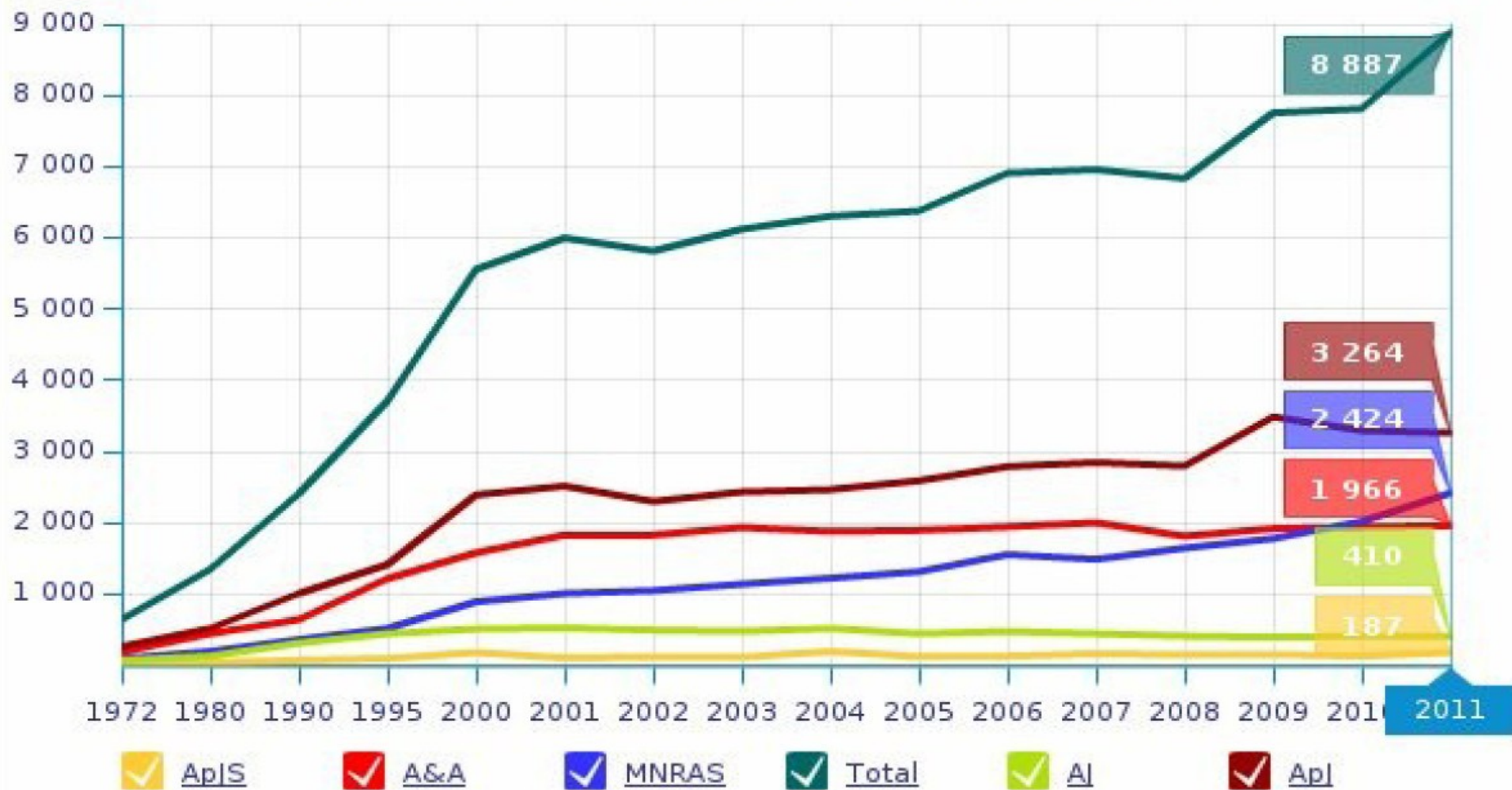
Very few turn-over, 51 people in 42 years (from CDS), except for computer engineers working on short missions.



Data evolution (quantitatively)

From S. Lesteven – FRÉDOC 2013 talk : the quantitative evolution of the amount of references treated from 1972 until 2011

Number of references by journal (1972 - 2011)





Basic data :

NOVA Sct 1970 -- Nova

Other object types: **V*** (V*, AAVSO) , **No*** (NOVA)
 ICRS coord. (ep=J2000) : **18 45 43.53 -08 33 00.9 (-) [- - -] D 1997PASP..109..345D**
 FK5 coord. (ep=J2000 eq=2000) : **18 45 43.53 -08 33 00.9 (-) [- - -] D 1997PASP..109..345D**
 FK4 coord. (ep=B1950 eq=1950) : **18 42 59.86 -08 36 13.7 (-) [- - -] D 1997PASP..109..345D**
 Gal coord. (ep=J2000) : **024.6694 -02.6285 (-) [- - -] D 1997PASP..109..345D**
 Fluxes (1) : **B 7.7 [-] V4 E 2003ActL...29..468S**

query around with radius arcmin



Identifiers (3) :

[NOVA Sct 1970](#) [V* V368 Sct](#)

Plots and Images



plot

CDS portal

radius

arcmin

References (32 between 1850 and 2014)

Simbad bibliographic survey began in 1950 for stars (at least bright stars) and in IS system).

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

[2001PASP..113..764D](#) [0]

Publ. Astron. Soc. Pac., 113, 764-768 (2001)

A catalog and atlas of cataclysmic variables: the living edition.

DOWNES R.A., WEBBINK R.F., SHARA M.M., RITTER H., KOLB U. and D

Comments & notes:

notes: Catalog Objects with a format 'CCC N' are [DWS97] CCC N' in SI cross-id. in other columns of the catalog (via <http://icar.usstci.ed>

flags: (abstract)

files: <CDS Catalogue: V/123>

Send to VO tools

VizieR Result Page

Show the target form
 Show constraint information

The 6 columns in **color** are computed by VizieR, and are **not part of the original data**.

[II/199A/stars](#) [Radio continuum emission from stars \(Wendker, 1995\)](#) [1995A&AS..109..177W](#) [ReadMe+ftp](#)
[Post annotation](#) Positions and designations of the stars (3021 rows)

[start AladinLite](#)

Full	r	RAJ2000	DEJ2000	Seq	Name	Alias	Det	RA1950	DE1950	Data	RA.icrs	DE.icrs
	arcsec	"h:m:s"	"d:m:s"					"h:m:s"	"d:m:s"		"h:m:s"	"d:m:s"
1	1.984	18 45 43.66	-08 33 01.2	2447	NOV Sct 1970		D	18 42 59.990	-08 36 14.00	Data	18 45 43.663	-08 33 01.17

[V/123A/cv](#) [Catalog of Cataclysmic Variables \(Downes+ 2001-2006\)](#) [2001PASP..113..764D](#) [ReadMe+ftp](#)
[Post annotation](#) Catalog of cataclysmic variables, Final Version (February 2006) (1830 rows)

[start AladinLite](#)

Full	r	RAJ2000	DEJ2000	R	GCVS	RAJ2000	DEJ2000	VarType	L	Maxmag	n	L	Minmag	n	Names
	arcsec	"h:m:s"	"d:m:s"			"h:m:s"	"d:m:s"			mag			mag		
1	0.42	18 45 43.55	-08 33 01.2		V368 Sct	18 45 43.55	-08 33 01.2	NA		6.9v			19.0p		

[B/gcvs/gcvs_cat](#) [General Catalogue of Variable Stars \(Samus+ 2007-2013\)](#) [ReadMe+ftp](#)
[1 annotation\(s\) - post](#) The GCVS Catalog (Vol. I-III, version 2013-04-30) (47969 rows)

[start AladinLite](#)

Full	r	RAJ2000	DEJ2000	GCVS	RAJ2000	DEJ2000	VarType	f	GCVS	n	GCVS	mag	Max	Period	SpType
	arcsec	"h:m:s"	"d:m:s"		"h:m:s"	"d:m:s"						mag	mag	d	
1	1.4	18 45 43.6	-08 33 00	V0368 Sct	18 45 43.6	-08 33 00	NA					7.700			pec(NOVA)

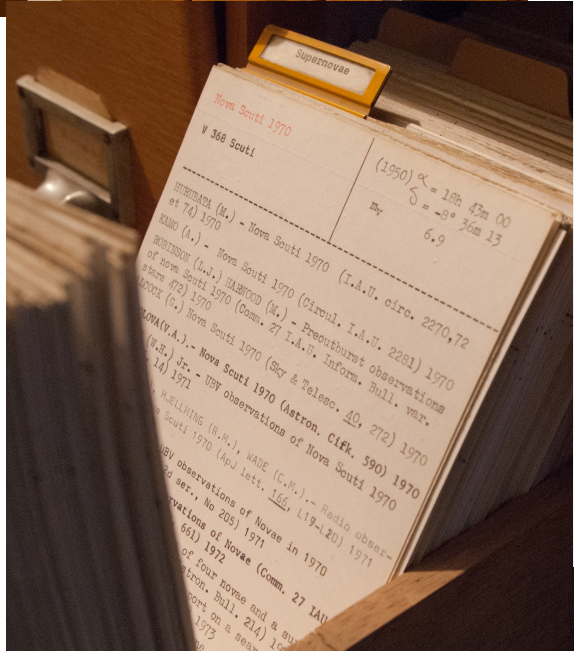
[B/vsx/vsx](#) [AAVSO International Variable Star Index VSX \(Watson+, 2006-2014\)](#) [ReadMe+ftp](#)
[Post annotation](#) Variable Star Index, Version 2014-05-19 (285852 rows) [2006SASS...25...47W](#)

[start AladinLite](#)

Full	r	RAJ2000	DEJ2000	Name	RAJ2000	DEJ2000	Period	OID	n	VType	L	max	u	n	f	l	min	u	n
	arcsec	"h:m:s"	"d:m:s"		deg	deg	d					mag	mag				mag	mag	
1	1.55	18 45 43.62	-08 33 00.1	V0368 Sct	281.43175	-08.55003		34484	B	0	NA	7.700		pg			19.300		pg

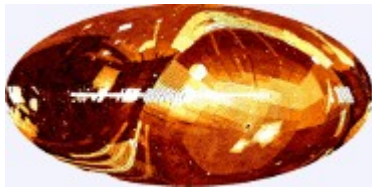
Available Visualisations:

- Plot of II/199A/stars V/123A/cv B/gcvs/gcvs_cat B/vsx/vsx in this region with Aladin-Java
- Optical Image of this region with Aladin-Java



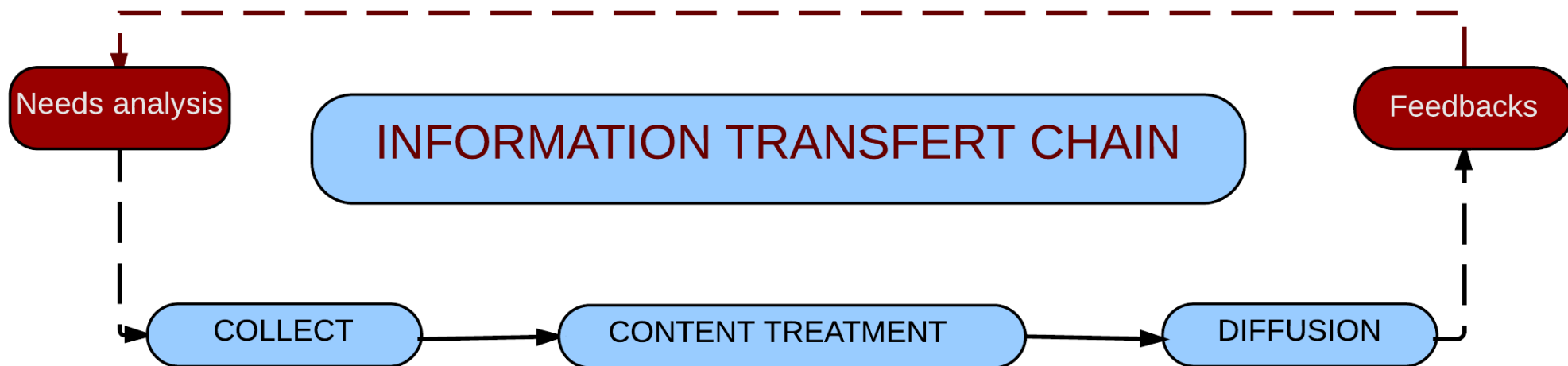
- Thanks for acknowledging the VizieR Service

© UDS/CNRS

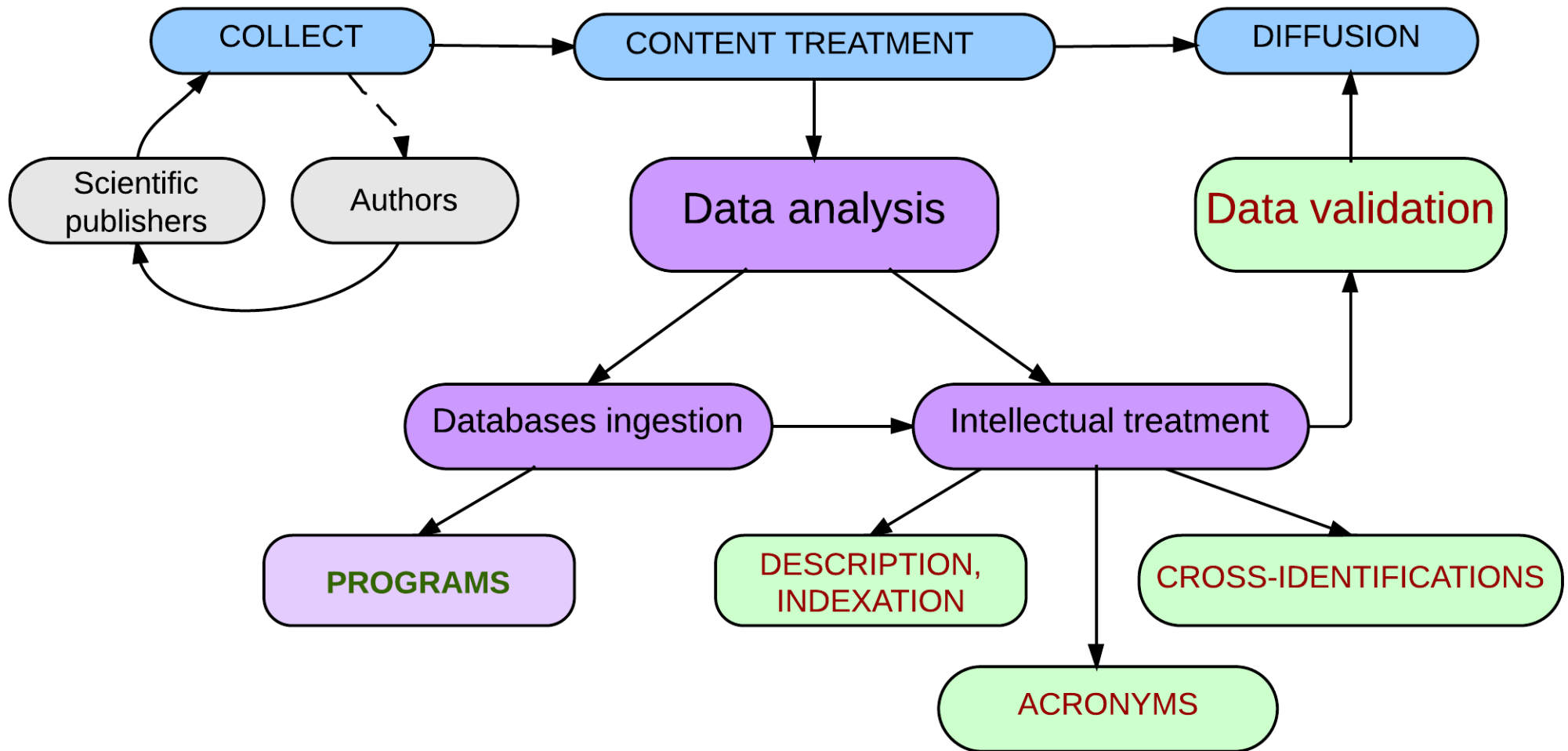


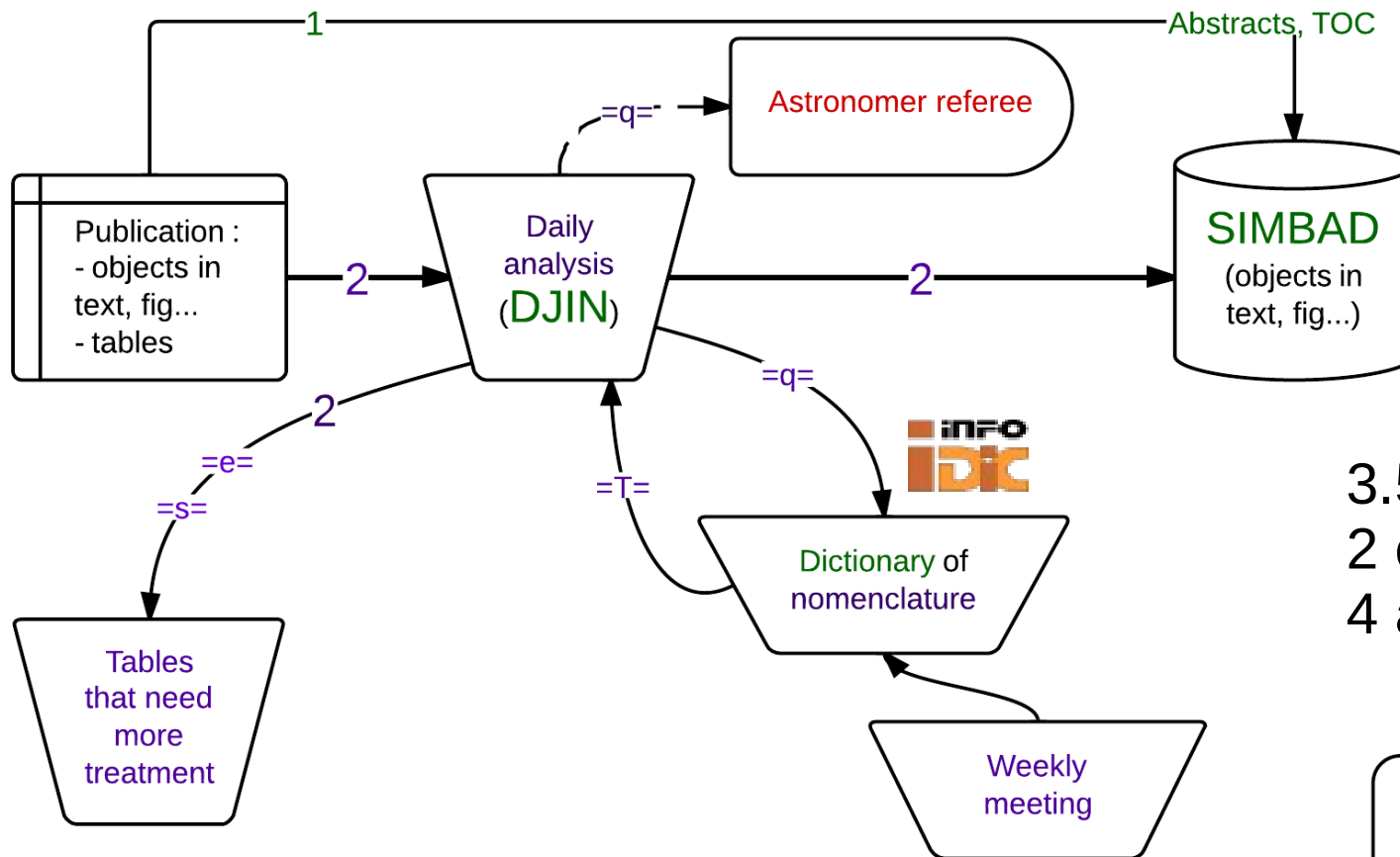
VizieR & SIMBAD created and maintained by
astronomers, documentalists & computer engineers :

- An historical overview
- **Definition and roles of these 3 profiles today**



INFORMATION TRANSFERT CHAIN





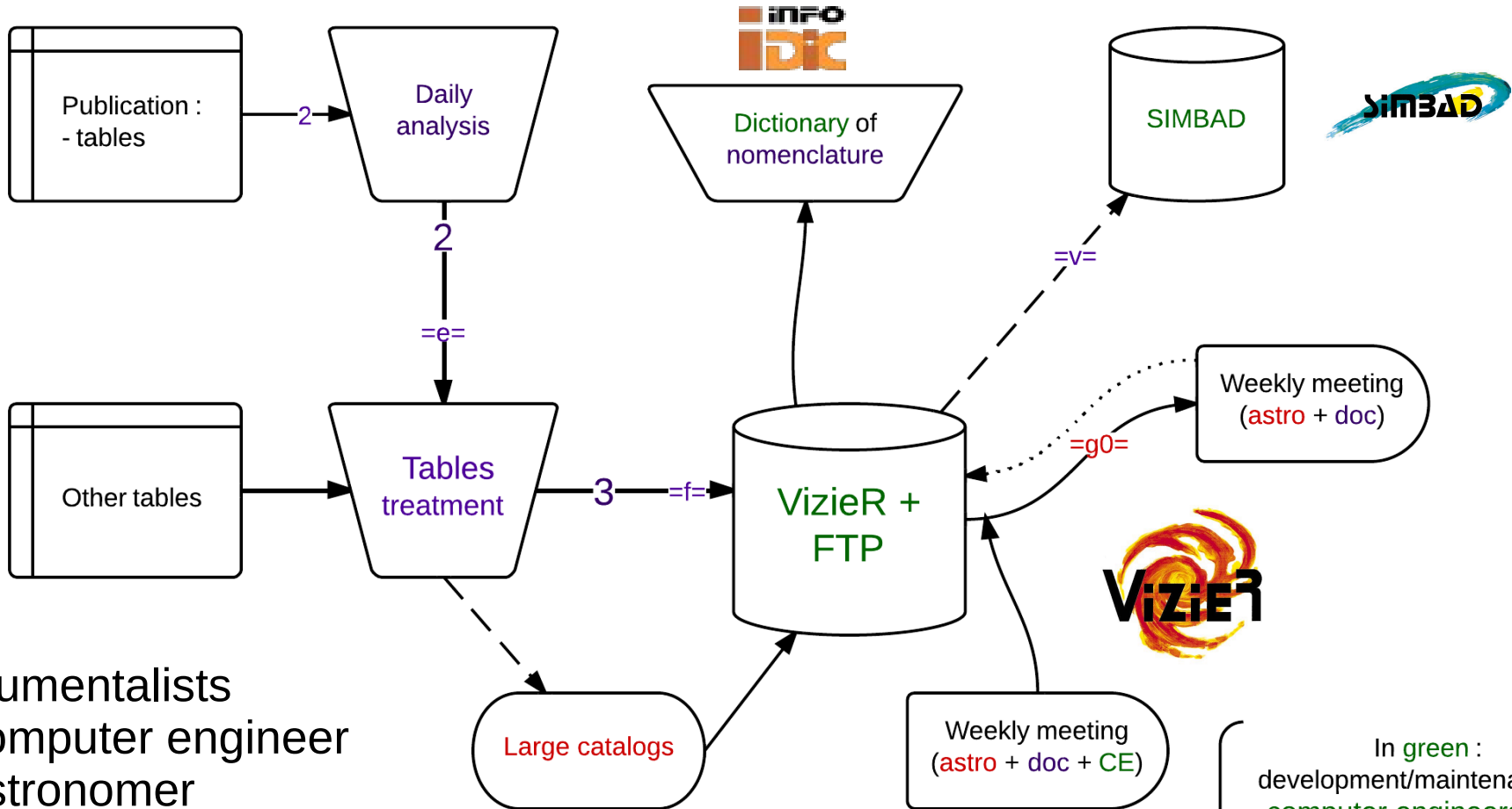
3.5 documentalists
2 computer engineers
4 astronomers

Interactions between astronomers, documentalists ("Djinists") and computer engineers to feed SIMBAD & VizieR

In green :
development/maintenance by
computer engineers (CE)

In purple :
SIMBAD/VizieR feeding by
documentalists

In red :
SIMBAD/VizieR selection or
quality control by
astronomers

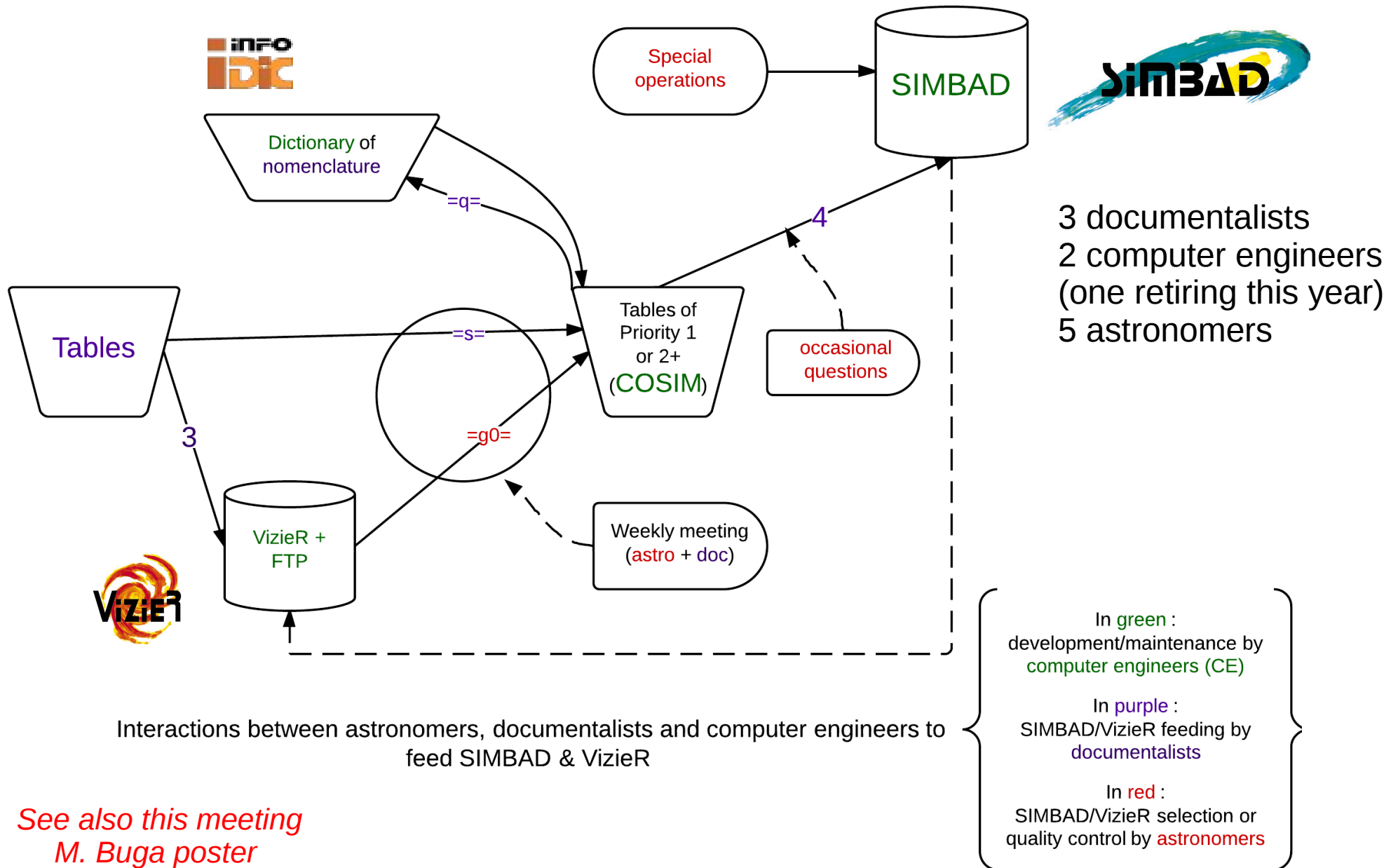


3 documentalists
1.5 computer engineer
1.5 astronomer

Interactions between astronomers, documentalists and computer engineers to feed SIMBAD & VizieR

*See also this meeting
G. Landais poster*

- In green : development/maintenance by computer engineers (CE)
- In purple : SIMBAD/VizieR feeding by documentalists
- In red : SIMBAD/VizieR selection or quality control by astronomers



Knowledge management, in-service training & informal communication

Espace collaboratif du CDS



Infusion

difFUSION de la connaissance INformatique

Conseil scientifique >

- A compléter

Réunions >

- [Planning des salles de l'observatoire](#)

Projets >

- [Lien exemple : Projet européen en cours,](#)

Astronomes >

Problèmes requérant l'expertise des astronomes

Developpeurs >

- [Lien exemple :Cluster, cdspack, documentation de vizier ..](#)

Documentalistes >

- [Organigramme Nov 2013](#)
- [Circuit et suivi des status SIMBAD pour le traitement des ref.](#)
- Le [ReadMe](#) des tables pour les utilisateurs
- [Commandes de MAJ pour SIMBAD et VizierR](#)
- [Notions d'astronomie et outils informatiques](#)

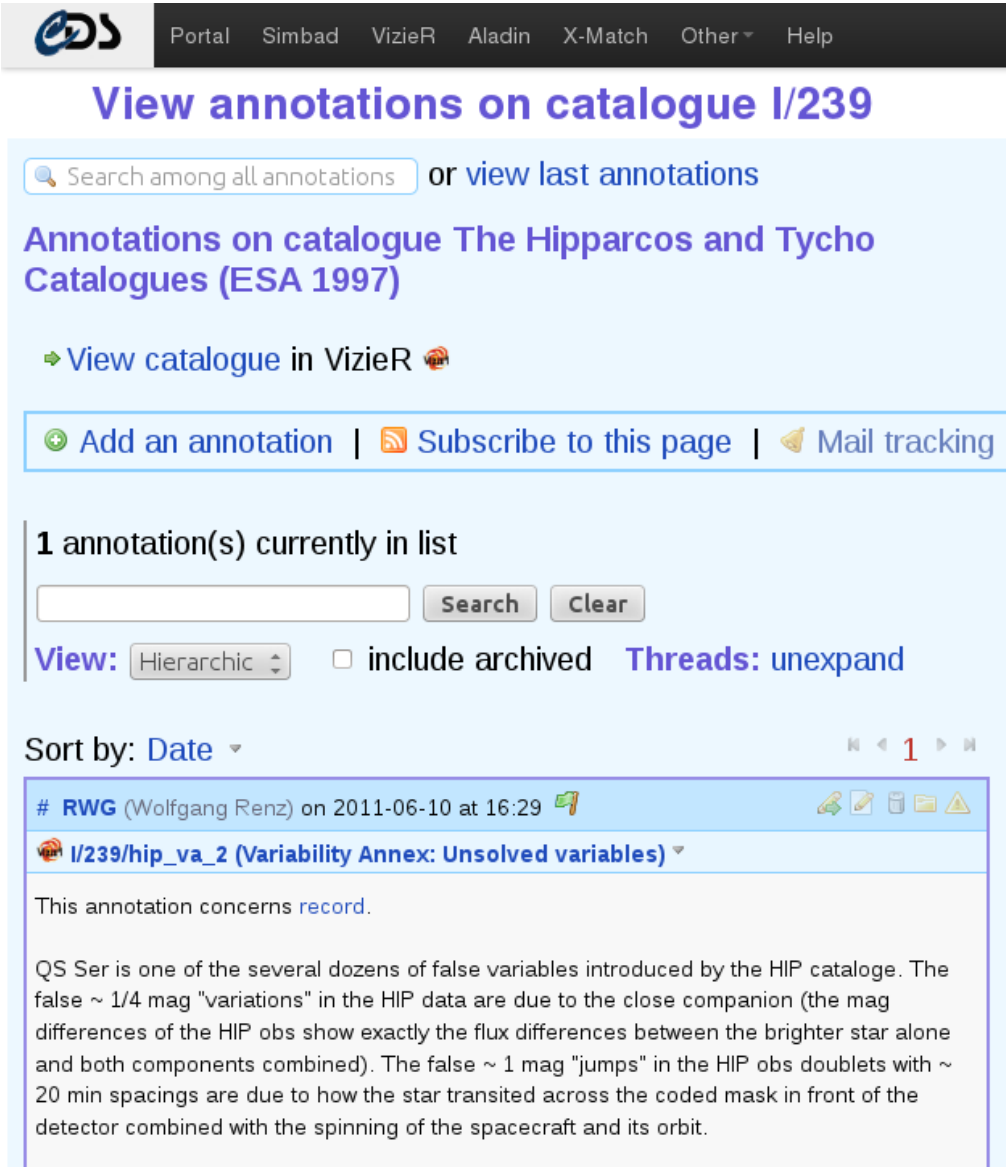
R&D >

Grands catalogues >

Autres >

See also this meeting E. Son & A. Eisele poster

Feedback from users



Portal Simbad Vizier Aladin X-Match Other Help

View annotations on catalogue I/239

Search among all annotations or view last annotations

Annotations on catalogue The Hipparcos and Tycho Catalogues (ESA 1997)

View catalogue in Vizier

Add an annotation | Subscribe to this page | Mail tracking

1 annotation(s) currently in list

Search Clear

View: Hierarchic include archived Threads: unexpand

Sort by: Date

RWG (Wolfgang Renz) on 2011-06-10 at 16:29

I/239/hip_va_2 (Variability Annex: Unsolved variables)

This annotation concerns [record](#).

QS Ser is one of the several dozens of false variables introduced by the HIP catalogue. The false ~ 1/4 mag "variations" in the HIP data are due to the close companion (the mag differences of the HIP obs show exactly the flux differences between the brighter star alone and both components combined). The false ~ 1 mag "jumps" in the HIP obs doublets with ~ 20 min spacings are due to how the star transited across the coded mask in front of the detector combined with the spinning of the spacecraft and its orbit.

Keep in touch



cds-question@unistra.fr

Symbiosis (from Ancient Greek σύν "together" and βίωσις "living") is close and long-term interaction between two or more different biological species.

The CDS success is based on a close and long-term interaction between :

- **astronomers** : specialists of the domain and data validation.
- **Computer engineers** : create easy ways to ingest, retrieve and use the data.
- **documentalists** : data specialists (cross-identification with SIMBAD) ; mediators between astronomers and IT specialists.

Data Steward

People who think to managing, curating, and preserving data.

- They are information specialists, archivists, librarians and compliance officers.
- This is an important role: if data has value, you want someone to manage it, make it discoverable, look after it and make sure it remains usable. Kenji Takeda, Microsoft

Thank you very much Dr François OCHSENBEIN



APOD : Horsehead and Orion Nebulas - Image Credit & Copyright: Roberto Colombari & Federico Pelliccia