



# Data ingestion in VizieR

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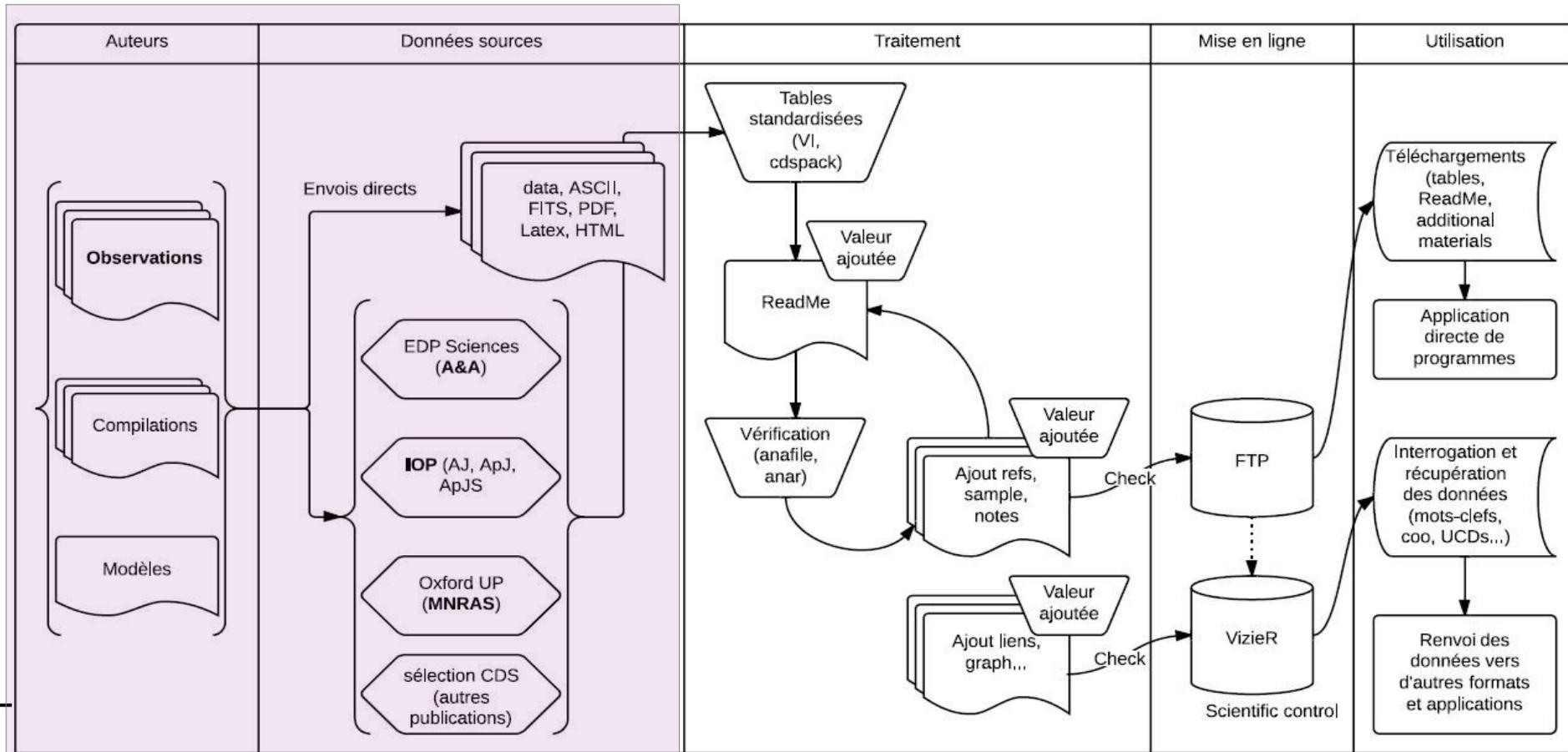
Patricia Vannier, Emmanuelle Perret,  
Sylvain Guéhenneux, Marianne Brouty





# In a nutshell

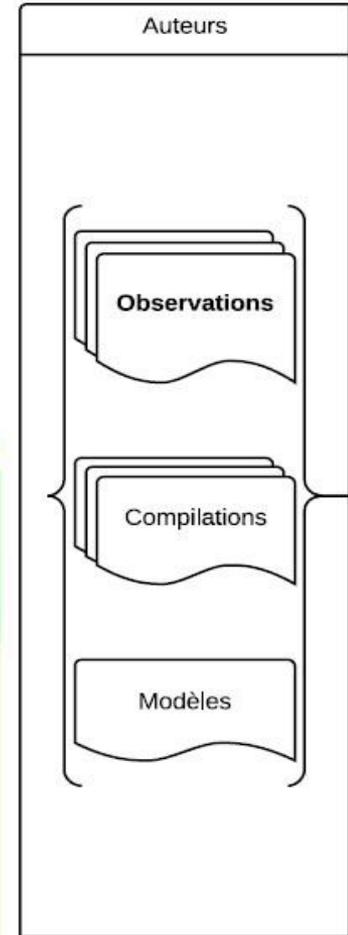
- Sélection & récupération des données
- Traitement des tables => FTP & VizieR





# I. Sélection des données

- Données envoyées par les **auteurs** directement (prioritaires) :
  - Par e-mail,
  - FTP
  - Site de soumission (données standardisées)



Let know whether your ReadMe file is  standard (*example*), or just  minimal (*example*)

• either your ReadMe and data files were already deposited in the CDS FTP service: just complete with the name of the directory you created at node **cdsarc.u-strasbg.fr**

Your Directory:   (where you uploaded your data via [ftp](#))

• or you have the files on your local computer: enter their filenames below (it is also possible to combine your local files with files previously deposited in the CDS FTP service)  
**binary files** like **PDF FITS ZIP**, can **only** be uploaded via **FTP**

Your ReadMe:    
Your data file# 1:    
Your data file# 2:    
Your data file# 3:    
 Your Email:

If the number of data files doesn't fit your needs, enter your value  and



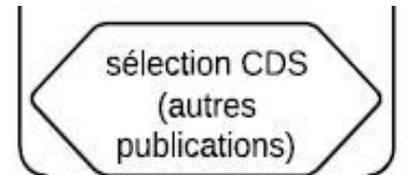
# I. Sélection des données



- Données sélectionnées par **le CDS** (=e=,=E=):
  - Traitement des **5** publications prioritaires (A&A, ApJ, AJ, ApJS, MNRAS)
  - Traitement de **25** autres publications d'astronomie (avec une priorité moindre)

## - Principaux **critères de sélection** :

- Toutes les tables > 100 lignes
- Toutes les tables déjà standardisées
- Tables < 100 lignes avec moult données pour Simbad (data ; xid...)





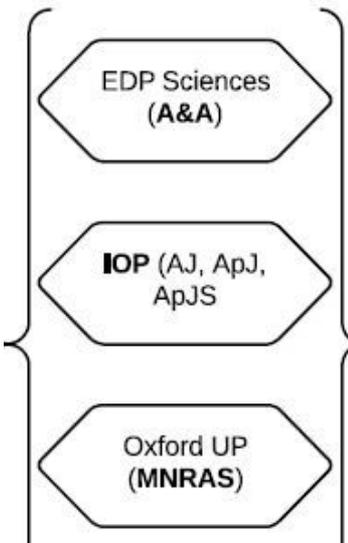
# I. Sélection des données

- Données sélectionnées par les **éditeurs** :



- EDP Sciences (A&A) => data accessibles au CDS uniquement. Financement 1/2 poste pour leurs traitements. Tables reçues AVANT publication de l'article.

- Institute Of Physics (AJ, ApJ, ApJS) => data via G. Schwarz (sur les tables >100 lignes)



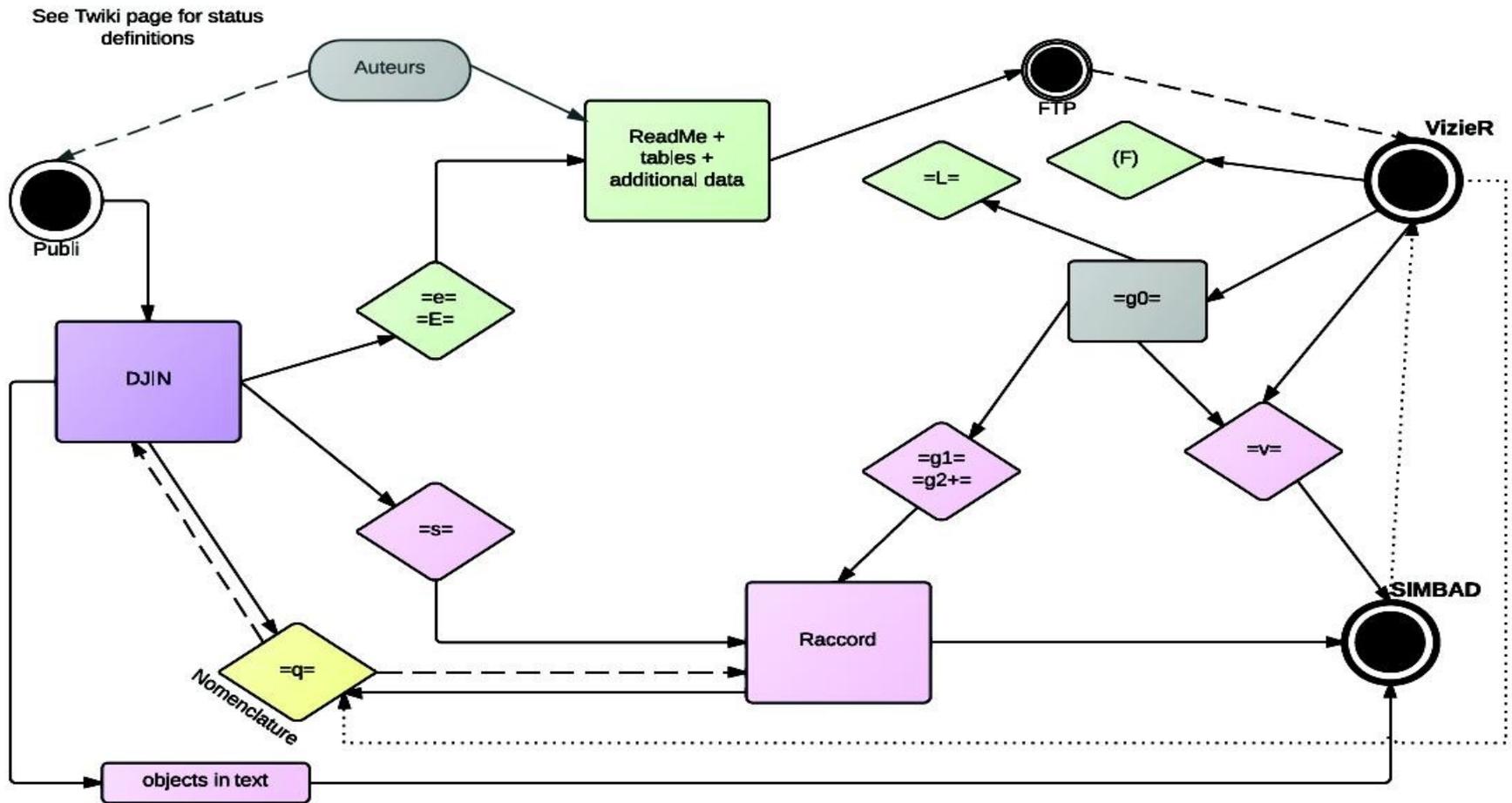
- Oxford University Press (MNRAS) => aucun contrat.





# I. Sélection des données

## VizieR & SIMBAD interactions

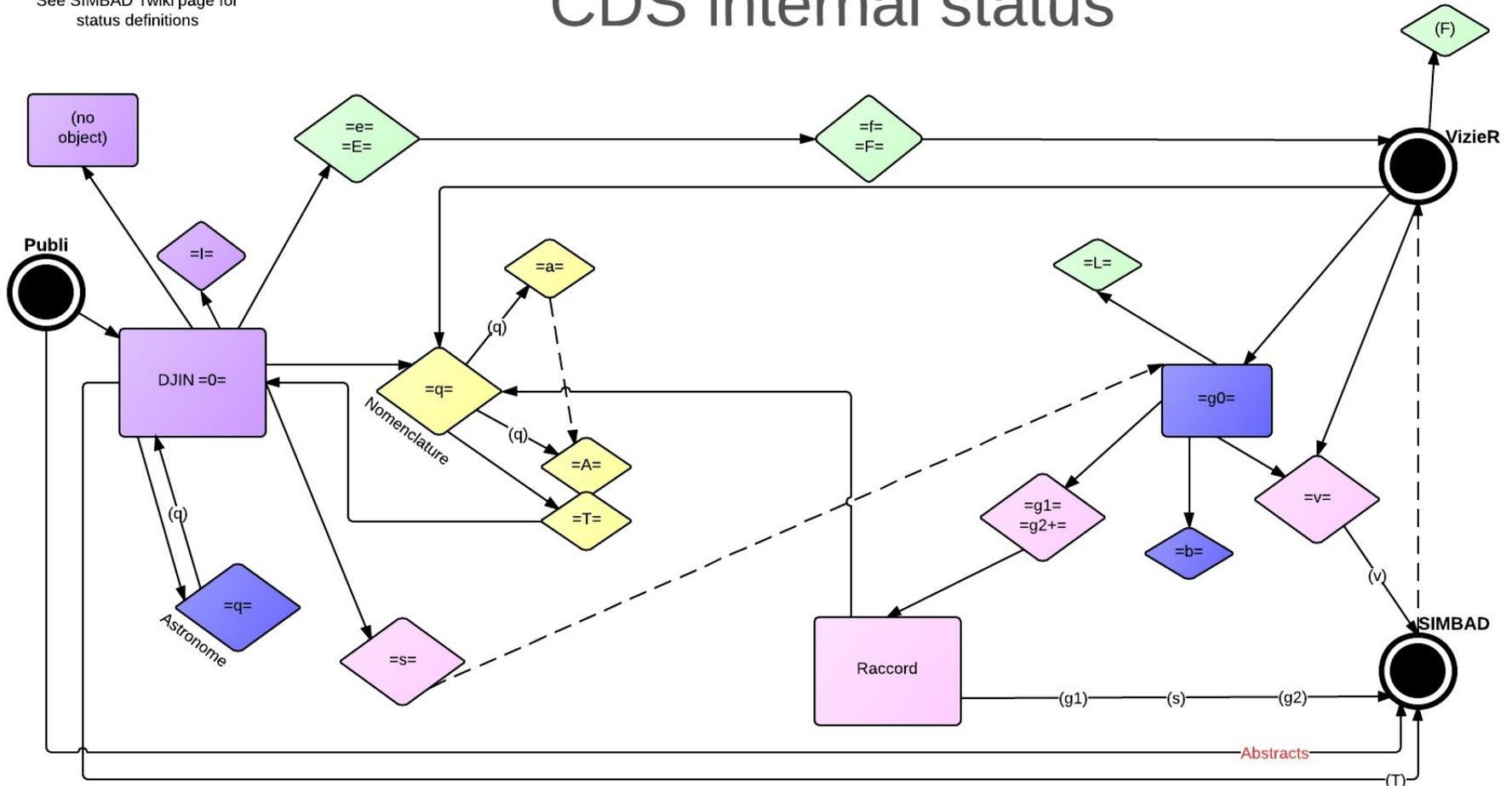




# I. Sélection des données

See SIMBAD Twiki page for status definitions

## CDS internal status

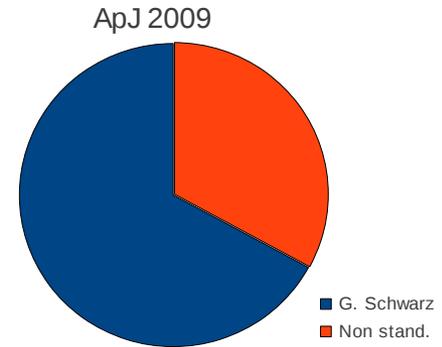




# I. Sélection des données

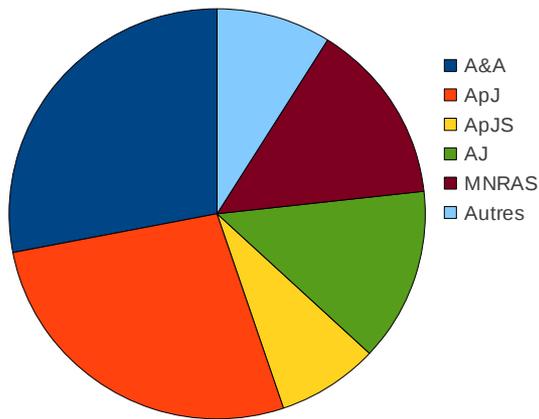
## • Quelques statistiques :

~3/4 des références AJ, ApJ, ApJS sont préparées en amont (auteurs/Greg S.) - ceci ne veut pas dire que toutes les tables d'une référence sont préparées...



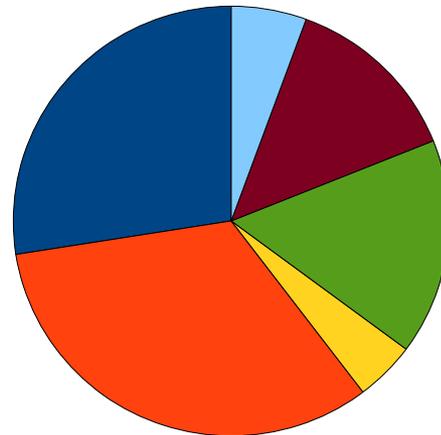
Ref. traitees 2011

899 vs 911



Ref. traitees 2012 :

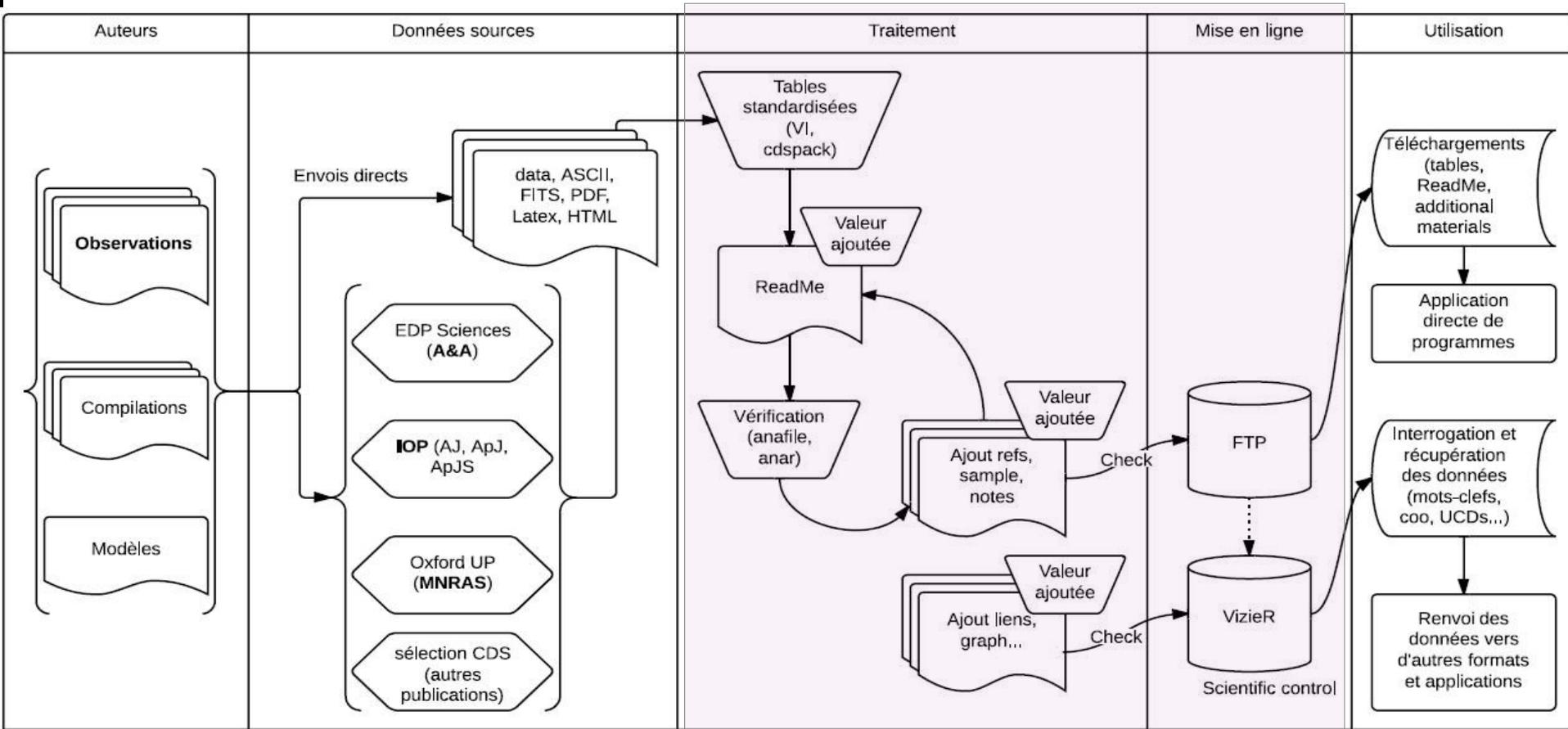
1200 vs 1118



- Entre 2011 et 2012 :
- +100 envois directs (30.7% vs 26.4%)
- ~+300 ref. traitees
- +207 ref. sélectionnées (y-compris envois directs)



# II. Traitement







# II. Traitement pour le FTP : 1. les tables

- Formats de départ : DATA ou ASCII, PDF, HTML, FITS, LATEX

Table 1. HD numbers,  $T_{\text{eff}}$ ,  $\log g$ , [Fe/H], and the derived elemental abundances for thick-disk stars

HD	$T_{\text{eff}}$ , K	$\log g$	[Fe/H]	[Na/Fe]	[Al/Fe]	[Cu/Fe]	[Zn/Fe]
245	5400	3.4	-0.84	0.13	0.32	-0.08	0.22
3765	5079	4.3	0.01	0.13	0.23	0.01	0.07
6582	5240	4.3	-0.94	0.10	0.38	-0.03	0.25
13783	5350	4.1	-0.75	0.10	0.37	0.02	0.34
22879	5972	4.5	-0.77	-0.01	0.19	-0.03	0.13
65583	5373	4.6	-0.67	0.05	0.35	0.10	0.21
76039	5810	4.0	0.05	0.10	0.30	0.05	0.28

```

\begin{document}
%
\section{Measured maser feature parameters}
\label{apx:feats}
%
These tables list the maser feature parameters.
Lists for VX Sgr were
published by M03.
% S Per 1994
\begin{table*}
\begin{tabular}{ccrrrrrr}
\hline
 $V_{\text{LSR}}$  &  $\Delta V$  &  $\log g$  & [Fe/H] & [Na/Fe] & [Al/Fe] & [Cu/Fe] & [Zn/Fe] \\
(km s-1) & (km s-1) & (mas) & (mas) & (mas) & (mas) & (mas) & (mas) \\
\hline
-52.5 & 0.6 & 0.00 & -11.6 & 1.3 & -29.7 & & \\
-51.8 & 0.4 & 0.39 & 0.5 & 1.5 & -18.7 & & \\
-51.6 & 1.4 & 1.09 & -11.4 & 0.7 & -29.7 & & \\
990125 & 1.0004 & 0.0000 & 3090 & 20 & 20-2000 & -0.89 & 0.05 & -2.43 & 0.97 & 2051 & 101.0 & 54.00 & 0.05 & 1, 3 \\
990510 & 1.6187 & 0.0015 & 270 & 50 & 20-2000 & -1.23 & 0.05 & -2.7 & 0.4 & 423.0 & 42.0 & 53.34 & +0.07 & -0.09 & 1, 2 \\
991208 & 0.7063 & 0.0017 & 1630 & 50 & 20-2000 & -1.1 & 0.4 & -2.2 & 0.4 & 312.3 & 5.1 & 53.43 & +0.05 & -0.06 & 1, 2, 4 \\
991216 & 1.02 & 0.01 & 2480 & 120 & 20-2000 & -1.23 & 0.25 & -2.18 & 0.39 & 763.6 & 20.2 & 53.93 & +0.04 & -0.05 & 1, 2 \\
000131 & 4.5 & 0.015 & 440 & 60 & 20-2000 & -1.2 & 0.1 & -2.4 & 0.1 & 1293 & 110.0 & 54.28 & +0.06 & -0.07 & 1, 2 \\
000301C & 2.0404 & 0.0008 & 83 & 6 & 20-2000 & -1.0 & 0.3 & -2.3 & 0.3 & 1213 & 303.0 & 52.99 & +0.03 & -0.04 & 2 \\
000911 & 1.0585 & 0.0001 & 1920 & 340 & 20-2000 & -1.11 & 0.12 & -2.32 & 0.41 & 2106 & 177.0 & 53.86 & +0.08 & -0.09 & 1, 2 \\
000926 & 2.0387 & 0.0008 & 260 & 40 & 20-2000 & -1.1 & 0.1 & -2.43 & 0.4 & 306.9 & 18.2 & 53.52 & +0.06 & -0.08 & 1, 2, 4 \\
010222 & 1.47688 & 0.00002 & 1390 & 80 & 20-2000 & -1.35 & 0.19 & -1.64 & 0.02 & 765.4 & 29.7 & 54.06 & +0.03 & -0.03 & 1, 2 \\
011121 & 0.362 & 0.001 & 2270 & 250 & 20-2000 & -1.1 & 0.3 & -2.1 & 0.2 & 1201 & 126.7 & 53.01 & +0.06 & -0.07 & 2, 5 \\
011211 & 2.1418 & 0.0018 & 50 & 5 & 40-700 & -0.84 & 0.09 & -2.3 & 0.46 & 185.0 & 22.0 & 53.01 & +0.05 & -0.06 & 1 \\
020405 & 0.68986 & 0.00004 & 830 & 60 & 20-2000 & -0.0 & 0.25 & -1.87 & 0.23 & 532.3 & 25.3 & 53.17 & +0.06 & -0.07 & 1, 2 \\
020813 & 1.254 & 0.005 & 1410 & 130 & 20-2000 & -0.94 & 0.03 & -1.57 & 0.04 & 710.0 & 33.8 & 53.94 & +0.04 & -0.04 & 1, 2 \\
021004 & 2.3304 & 0.0005 & 25.5 & 6 & 2-400 & -1.01 & 0.19 & -2.3 & 0.46 & 266.0 & 117.0 & 52.65 & +0.12 & -0.17 & 1 \\
030226 & 1.98691 & 0.00015 & 130 & 60 & 20-2000 & -0.89 & 0.17 & -2.3 & 0.46 & 349.5 & 41.8 & 53.17 & +0.17 & -0.27 & 1, 2 \\
030323 & 3.3718 & 0.0005 & 12.3 & +3.7 & -3.4 & 2-400 & -0.80 & +0.80 & +0.83 & \text{sdotsdtsdot} & 192.4 & +393.5 & -113.7 & 52.53 & +0.23 & -0.19 & 1, 6

```





# II. Traitement pour le FTP : help

## I. Mise en forme d'une table dans VI et quelques commandes shell

[Commande "expand" pour enlever les tabulations](#)

[Commande "acut" pour reformater les colonnes](#)

[Commande "trcol" pour faire des substitutions de caractères sur des colonnes précises](#)

[Commande "trim" pour extraire les caractères en trop en fin de fichier](#)

[Mode "Visual Block" dans VI pour sélectionner du texte](#)

[Substitutions et suppressions de lignes dans VI](#)

[La commande "join" pour coller 2 tables horizontalement selon la comparaison d'un champ commun](#)

[Utilisation de sed pour ajouter une ligne blanche \(ou non\) après ou avant un pattern ou substituer un pattern](#)

[La commande "a2a" pour convertir des fichiers au format bizarre en ASCII](#)

[La commande "fits2a" pour convertir des fichiers FITS au format ASCII](#)

## II. Commandes de base depuis la création du Readme au passage en FTP

[newcat pour créer une référence](#)

[anafile pour mettre en forme standard la description d'une table et faire les premiers contrôles](#)

[getobj pour rechercher des objets dans Simbad](#)

[detex pour transformer un fichier HTML en fichier texte](#)

[modbyte pour ajouter ou enlever une valeur à tous les numéros de colonnes](#)

[ana pour vérifier que le Readme est standard](#)

[modcat pour faire la liste des fichiers à publier](#)

[make\\_public pour publier les fichiers sur le FTP](#)

[tar : pour compresser plusieurs fichiers dans un répertoire](#)



# II. Traitement pour le FTP : help

## I. Mise en forme d'une table dans VI et quelques commandes

[Commande "expand" pour enlever les tabulations](#)

## III. Intégration du catalogue dans VizieR

[setUCD pour attribuer des UCDs aux différentes mesures](#)

[WizSimbad et WizSimbadName du fichier .status pour faire des liens vers les objets Simbad](#)

[WizPosition pour recréer les positions lorsqu'elles ne sont pas données](#)

[WizDisplayColumns du fichier .status pour définir quelle\(s\) colonne\(s\) afficher dans VizieR](#)

[WizPKF, wizPK-FK-AddFKflag pour définir les clefs primaires et secondaires et donc les liens entre les tables](#)

[WizLink et \wMore pour ajouter une colonne de liens vers d'autres catalogues](#)

[WizMore et \wRef pour faire le liens vers une table de références](#)

[WizExplain pour modifier la description d'une colonne dans VizieR par rapport à celle du Readme ou pour ajouter des liens](#)

[WizMerge pour fusionner des tables dont la description est identique dans le ReadMe mais qui comprend des objets différents \(équivalent de la commande "cat"\)](#)

[WizPaste pour coller des tables qui ont la même liste d'objets et des données complémentaires \(équivalent de la commande "paste"\)](#)

[WizAddColumn pour ajouter une colonne à la table VizieR depuis un script ou un fichier](#)

[WizAddCount pour ajouter une colonne qui compte et pointe vers le nombre d'objets liés à l'objet parent](#)

[WizAddXcount pour faire un cross-match par position avec d'autres tables de VizieR](#)

[WizObj pour faire des liens depuis la section "Object"](#)

[WizConvert : conversions Shell, taborder, etc. pour transformer la table directement dans VizieR](#)

[WizNote pour modifier ou ajouter du texte dans une note](#)

[NB: Lien sur le chiffre le 0](#)

[WizComment : ajout d'un commentaire sur une table ou une colonne](#)

[WizSet : modifications d'unité sur les colonnes, des formats de colonnes ou placement à la fin, etc.](#)

[WizSQL : modifications des valeurs selon des conditions de requêtes SQL](#)

[WizCSV : pour indiquer qu'une colonne contient une liste de valeurs \(textuelles\) séparées par des virgules](#)

[WizFilter : pour préciser les filtres lorsqu'ils ne sont pas reconnus](#)

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



# II. Traitement pour le FTP :

## 2. le ReadMe

- ReadMe = fichier texte limité à 80 cc de largeur.
- Objectif: se référer le moins possible à la publication pour utiliser les tables.

```
cats@cdsarc
J/ApJ/734/L34      Short Title      (Jacobs+, 2011)
=====
New 145 MHz source measurements by PAPER in the southern sky.
  Jacobs D.C., Aguirre J.E., Parsons A.R., Pober J.C., Bradley R.F.,
  Carilli C.L., Gugliucci N.E., Manley J.R., Van Der Merwe C., Moore D.F.,
  Parashare C.R.
<Astrophys. J., 734, L34 (2011)>
=2011ApJ...734L..34J (SIMBAD/NED BibCode)
=====
ADC_Keywords:
Mission_Name:
Keywords:

Abstract:
Description:

Objects:
-----
      RA   (2000)  DE   Designation(s)
-----

File Summary:
-----
FileName      Lrecl  Records  Explanations
-----
ReadMe                80          ?  This file
table2.dat           64        480  PAPER Fluxes for 480 MRC sources and matching
                               Culgoora Fluxes
-----

See Also:

Byte-by-byte Description of file: table2.dat
-----
  Bytes Format Units  Label  Explanations
-----
  1-   6  F6.2  deg   RAdeg  PAPER Right Ascension in decimal degrees (J2000)
  8-  13  F6.2  deg   DEdeg  PAPER Declination in decimal degrees (J2000)
 15-  23  A9    ---   Name   MRC name (1)
 25-  29  F5.1  Jy    S145   Integrated 110-180 MHz PAPER flux density
 31-  34  F4.1  Jy    RMS   RMS in 1-3 deg annulus around source
 36-  39  F4.2  deg   Sep   Distance between MRC and PAPER positions
 41-  48  A8    ---   Cul   Culgoora name (2)
 50-  54  F5.1  Jy    S160  ? Culgoora 160 MHz flux density
 56-  58  I3    Jy    S80   ? Culgoora 80 MHz flux density
 60-  64  F5.2  ---   SpIndex ? Culgoora spectral index between 80-160 MHz
-----

Note (1): PAPER Southern Sky catalog generated by searching for sources in
the Molonglo Reference Catalog above 4 Jy and below +10 deg
Declination. Images have been flux scaled to Culgoora
using: 1422-297 and 0521-365. CenA, FornaxA, and PictorA having
been peeled and are excluded here.

Note (2): Sources with a matching Culgoora source are listed here.
-----

Nomenclature Notes:
History:
  From electronic version of the journal
Acknowledgements:
  Heinz Andernach (catalog #XXX in his collection)

References:
-----

(End)                                     Greg Schwarz [AAS], Emmanuelle Perret [CDS] 28-Nov-2012
```



# II. Traitement pour le FTP :

## 2. le ReadMe

J/ApJ/734/L34 145MHz source measurements by PAPER (Jacobs+, 2011)

=====  
New 145 MHz source measurements by PAPER in the southern sky.  
Jacobs D.C., Aguirre J.E., Parsons A.R., Pober J.C., Bradley R.F.,  
Carilli C.L., Gugliucci N.E., Manley J.R., van der Merwe C., Moore D.F.,  
Parashare C.R.  
<Astrophys. J., 734, L34 (2011)>  
=2011ApJ...734L..34J  
=====

ADC\_Keywords: Radio sources ; Interferometry ; Cross identifications  
Keywords: catalogs - dark ages, reionization, first stars -  
instrumentation: interferometers

### Description:

In this Letter, we present new flux measurements of 480 sources at 145MHz using PAPER (Precision Array for Probing the Epoch of Reionization). During 2010 May and September, we recorded commissioning data with PSA32 antennas in two separate campaigns. The data presented here are from UT 2010 May 19 13:11-2010 May 20 04:50 (15hr) and UT 2010 September 15 16:48-2010 September 16 04:04 (12hr).

### See also:

VIII/35 : Radio Sources observed with Culgoora Circular Array (Slee 1995)  
VIII/16 : Molonglo Reference Catalogue of Radio Sources (Large+ 1991)  
VIII/85 : SPECFIND V2.0 Catalog of radio continuum spectra (Vollmer+ 2009)  
VIII/79 : The VLA Low-frequency Sky Survey at 74MHz (Cohen+ 2007)  
VIII/65 : 1.4GHz NRAO VLA Sky Survey (NVSS) (Condon+ 1998)  
VIII/18 : 6C Survey of radio sources I. (Baldwin+ 1985)  
J/ApJS/174/313 : Spectra of 388 bright 74MHz sources (Helmboldt+, 2008)  
J/AJ/131/100 : The Molonglo Southern 4Jy sample. I (Burgess+, 2006)

- Les différentes sections sont à remplir. Les plus demandeuses de temps :

*ADC\_Keywords, See also, Nomenclature, Description*

- Ajout ou modification de tables dans certains cas (*refs.dat, stars.dat, notes.dat*)



# II. Traitement pour le FTP :

## 2. le ReadMe

- Description de la table terminée :
  - Ajout d'une note pour expliquer les flags
  - Homogénéisation des labels
  - Vérification des unités
  - Vérification des valeurs min/max d'un paramètre

Byte-by-byte Description of file: table2.dat

Bytes	Format	Units	Label	Explanations
1- 6	F6.2	deg	RAdeg	PAPER Right Ascension in decimal degrees (J2000)
8- 13	F6.2	deg	DEdeg	PAPER Declination in decimal degrees (J2000)
15- 23	A9	---	MRC	MRC name (HHMM+DDdA) (1)
24	A1	---	n_MRC	[eyf] Key to alternative source name (2)
26- 30	F5.1	Jy	S145	Integrated 110-180MHz PAPER flux density
32- 35	F4.1	Jy	RMS	RMS in 1-3 deg annulus around source
37- 40	F4.2	deg	Sep	Distance between MRC and PAPER positions
42- 49	A8	---	Cul	Culgoora name (HHMM+DDdA) (3)
51- 55	F5.1	Jy	S160	? Culgoora 160MHz flux density
57- 59	I3	Jy	S80	? Culgoora 80MHz flux density
61- 65	F5.2	---	SpI	? Culgoora spectral index between 80-160MHz

Note (1): PAPER Southern Sky catalog generated by searching for sources in the Molonglo Reference Catalog (Cat. VIII/16) above 4Jy and below +10{deg} Declination. Images have been flux scaled to Culgoora using: 1422-297 and 0521-365. CenA, FornaxA, and PictorA having been peeled and are excluded here.

Note (2): Flag as follows:

e = source "Her A"

y = source "Hyd A"

f = source "For A" (sw)

Note (3): Sources with a matching Culgoora source are listed here.



# II. Traitement pour le FTP :

## 2. le ReadMe

**Note (1):** Note that Pall-I coordinates are more likely 3 33 21.83 +79 35 38.2 (see 2MASS Ks magnitude and figure 2) than 3 33 21.8 +79 35 16.2; position corrected at CDS.

Nomenclature note: Stars are <Cl\* {Cl} MG NNN> for Simbad.

### History:

From electronic version of the journal  
23-Sep-2011: Insert into VizieR  
27-Sep-2011: Table 2 modified according to PDF version to include NGC 3766 which is missing in HTML version.

### References:

McSwain & Gies. Paper I. 2005ApJ...622.1052M Cat. J/ApJ/622/1052  
McSwain & Gies. Paper II. 2005ApJS..161..118M Cat. J/ApJS/161/118  
McSwain et al. Paper III. History:

From electronic version of the journal  
18-Aug-2005: Insert into VizieR  
14-Sep-2011: SMM J141800.40+512820.3 is a misprint for J141800.40+522820.3; corrected at CDS.

End

End

Marianne Brouty [CDS]

16-May-2005

**Note (5):** the CXOC name does not match Elvis et al. 2009 (J/ApJS/184/158), and the "f\_CXOC" flag was added at CDS to reflect the problem: the plus (+) indicates a mismatching CXOC name, and the asterisk (\*) indicates an erroneous name corrected at CDS; see also the "Nomenclature Note" section below

### Nomenclature Note:

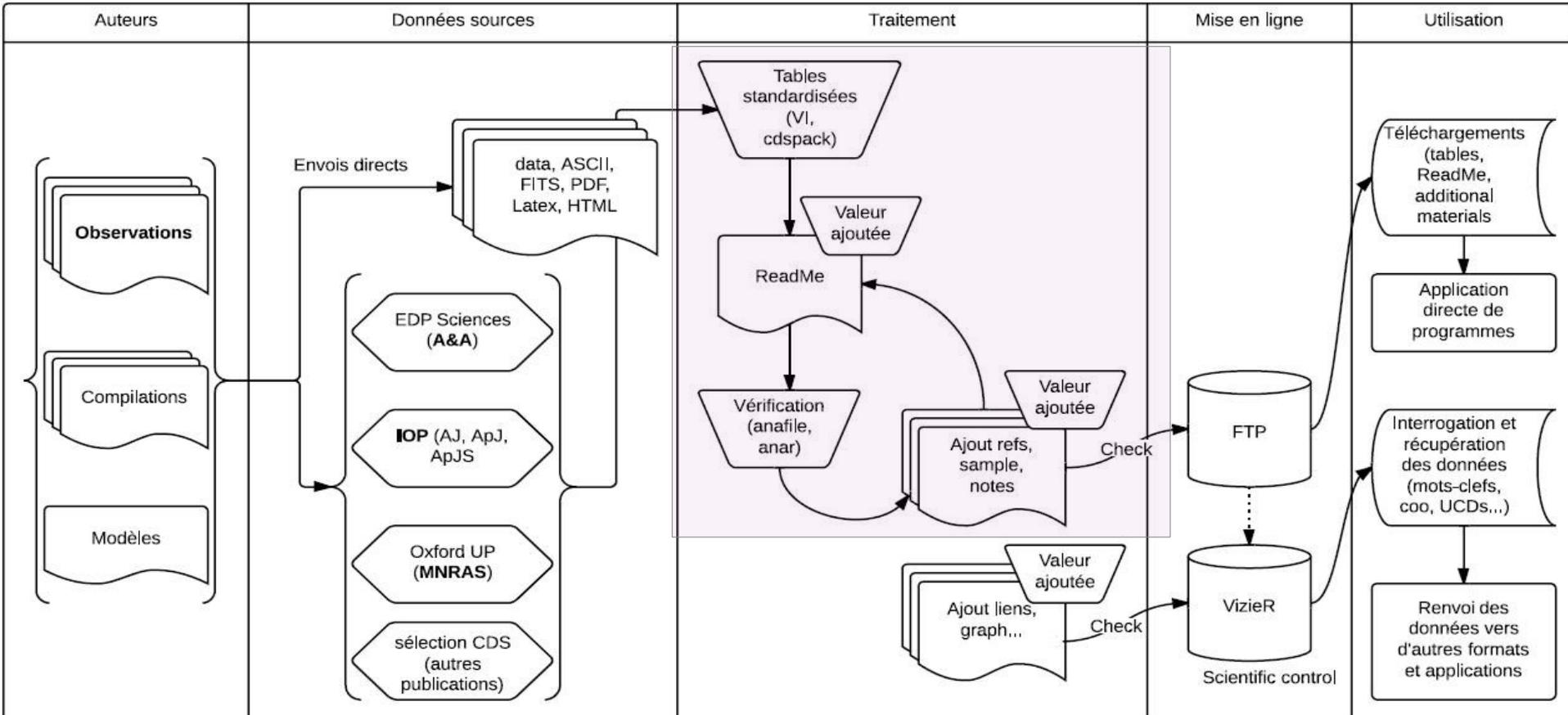
The CXOC name is apparently not following the IAU conventions as claimed (truncated position at 0.1s in RA and 1" in Dec).

### History:

- \* 09-Oct-2012: From electronic version of the journal (originally a FITS table)
- \* 21-Dec-2012: Three CXOC names were corrected at CDS (following a remark by Steve Drake, Heasarc at NASA-Goddard), for CID numbers 1214, 1246 and 3760. A "+" flag was also added for 1247 sources which differ from the Paper I (Elvis et al. 2009, Cat. J/ApJS/184/158)



# II. Traitement





# III. Traitement pour VizieR : le fichier d'entrée

- Objectif de VizieR:  
données interrogeables  
via le contenu des tables  
et valeur ajoutée

```
#!/ Catalogue Status
%-----
%-----
\cId{ CaT/ }
\cUsualName{ } % Short Designation
%\cDic{tab}{colname} % Link for VizieR-S
\cCenters{ } % Beijing LaPlata Moscow NASA Tokyo ftp vizier
\cSimbad{0} % Simbad Status 0=Not 1=Ids_only 2=Fully_accessible
%
\cAdded{ ToDay } % When this file was added
\cBulletin{ --- } % Bulletin number where catalogue announced
%\cRemoved{ --- } % Date when catalogue removed
%
%*****
% VIZIR Definitions
%*****
%\cType{ OC } % MC (Model) OC (Obs.) BCC CCC GCC (compilations)
%\cObjectType{ object_class }
%\cServer{ server_name } % Aladin Service: +(Survey) *(Archive) @(Images)
%\vizKeyword{X-Ray}%\vizKeyword{Category}{KeyName}
%\vizDB{ tables }{ [-]name_in_DB[*] login_in_DB }
%\vizQbox{ boxes } % List of boxes containing stars
%\vizIgnoreTables{ tables_to_ignore }
%\vizMerge{ tables }{ new_name }{ Explanation of the union }
%\vizPaste{ tables }{ new_name }{ Explanation of the larger table }
%\vizComment{ tables }{Cols}{ Comment text }
%\vizExplain{ tables }{ col }{+ \linkRole{pourquoi ce lien}}
%\vizOrder{ file }{ e_* }{ +* }
%\vizObj{(\wGraph{e{@cat}/foldedlc}{Plot})}
%\vizPosition{ file }{*vizSim c= scale= x= y= PA= Eq= Ep= x0= y0=}{ Explain }
%\vizAddColumn{ file }{ name }{value}{unit}{ +/-col }{\ucd{UCD}Explain column}
%\vizAddFKflag{ file }{ name }{*}{ +/-col }{\use{vMore}indicates that}
%\vizAddXcount{ file }{ name }{I/311/hip2 rs=1.5}{ +/-col }{\use{vMore}}
%\vizAddCount{ file }{ name }{stars Cluster=@{Cluster}}{+/-col}{\ucd{NUMBER}}
%\vizDisplayColumns{ file }{ fields }
%\vizIgnoreColumns{ file }{ fields }
%\vizUCD{ file }{ field }{ =UCD or words to add to explanation }
%\vizFilter{ file }{ field }{ system:filter }
%\vizSet{ file }{ field }{ fmt=9.5f dbunit=mmag dbtype=i2 flags|=VO_COLORCOL}
%\vizMore{ file }{ field }{ Other links... }
%\vizNote{ file }{ (1) }{+\begin{notesasatable}}
%\vizPK{ file }{ field(s) making up the PK }
%\vizFK{ file }{ field : table }
%\vizPFK{ file }{ field(s) both PK and FK }
%\vizPKlink{ file }{ column }{ link explanation }
%\vizFKlink{ file }{ column }{ link explanation }
%\vizSimbad{ file }{ Generation }
%\vizLEDA{ file }{ Generation }
%\vizNED{ file }{ Generation }
%\vizLink{ file }{field +/-col}{Text}{ moreLink }{Explain link column}
%\vizLink{ table* }{ Sloan }{Sloan}{ \glutag{SDSS.id.w @objID}|@{}}
% {Display the SDSS data for this object}
%\vizLink{ file }{2M}{2M}{\vMore{-source=2246&c=@{poseq},rs=3}{@{}}\
% {Display the 2MASS data (Cutri et al. 2003, Cat. II/246)}
%\vizLink{ tab }{SED}{SED}{\SPECFIND[-c=@{epos},rs=30]{-query=asu_sed4 \
% -source=@{catab} @{==AT20G}{@{}}
% {Plot the spectrum with SPECFIND (Vollmer et al. 2009, Cat. VIII/85)}
%*****
%\vizSoft{ file }{ fields }
%\vizSQL{ tables }{SQL instructions}
%\vizConvert{ file }{shell conversions} % { taborder master_table }
%-----
```



# III. Traitement pour VizieR : le script d'entrée

- Les données obligatoires :
  - metadata (*UCDs, type de catalogue, Nomenclature pour SIMBAD, Filter*)
  - *positions*
- Les ajouts d'information :
  - lien(s) vers *SIMBAD, NED*
  - liens entre les tables du cat. (*PFK, merge, paste*)
  - liens vers d'autres tables de VizieR (par ID ou coo (*Link, AddXCount*))
  - liens vers des sites extérieurs



# III. Traitement pour VizieR : le script d'entrée

145MHz source measurements by PAPER (Jacobs+, 2011) [Similar Catalogs](#) [ReadMe+ftp](#)

J/ApJ/734/L34 [Post annotation](#)

1 J/ApJ/734/L34/table2 PAPER (Precision Array for Probing the Epoch of Reionization) fluxes for 480 MRC sources and matching Culgoora fluxes (480 rows)

**Simple Constraint** [List Of Constraints](#)

Query by [Constraints](#) [?](#) applied on Columns (Output Order:  +  -)

Show	Sort	Column	Clear	Constraint	Explain (UCD)
<input type="checkbox"/>	<input type="radio"/>	recno	<input type="text"/>		Record number within the original table (starting from 1) ( <a href="#">meta.record</a> ) ( <a href="#">RECORD</a> )
<input checked="" type="checkbox"/>	<input type="radio"/>	RAJ2000	<input type="text"/>	<a href="#">deg</a>	PAPER Right Ascension in decimal degrees (J2000) ( <a href="#">pos.eq.ra:meta.main</a> ) ( <a href="#">POS_EQ_RA_MAIN</a> )
<input checked="" type="checkbox"/>	<input type="radio"/>	DEJ2000	<input type="text"/>	<a href="#">deg</a>	PAPER Declination in decimal degrees (J2000) ( <a href="#">pos.eq.dec:meta.main</a> ) ( <a href="#">POS_EQ_DEC_MAIN</a> )
<input checked="" type="checkbox"/>	<input type="radio"/>	MRC	<input type="text"/>	(char)	MRC name (HHMM+DDdA) ( <a href="#">Note 1</a> ) ( <a href="#">meta.id:meta.main</a> ) ( <a href="#">ID_MAIN</a> )
<input checked="" type="checkbox"/>	<input type="radio"/>	n_MRC	<input type="text"/>	(char)	[eyf] Key to alternative source name ( <a href="#">Note 2</a> ) ( <a href="#">meta.note</a> ) ( <a href="#">NOTE</a> )
<input checked="" type="checkbox"/>	<input type="radio"/>	S145	<input type="text"/>	<a href="#">Jy</a>	Integrated 110-180MHz PAPER flux density ( <a href="#">phot.flux.density:em.radio.100-200MHz</a> ) ( <a href="#">PHOT_FLUX_RADIO_150M</a> )
<input checked="" type="checkbox"/>	<input type="radio"/>	RMS	<input type="text"/>	<a href="#">Jy</a>	RMS in 1-3 deg annulus around source ( <a href="#">stat.stdev:phot.flux.density</a> ) ( <a href="#">FIT_ERROR</a> )
<input checked="" type="checkbox"/>	<input type="radio"/>	Sep	<input type="text"/>	<a href="#">deg</a>	Distance between MRC and PAPER positions ( <a href="#">pos.posAng</a> ) ( <a href="#">POS_ANG_DIST_GENERAL</a> )
<input checked="" type="checkbox"/>	<input type="radio"/>	Cul	<input type="text"/>	(char)	Culgoora name (HHMM+DDdA) ( <a href="#">Note 3</a> ) ( <a href="#">meta.id.cross</a> ) ( <a href="#">ID_CROSSID</a> )
<input checked="" type="checkbox"/>	<input type="radio"/>	S160	<input type="text"/>	<a href="#">Jy</a> <sup>(n)</sup>	Culgoora 160MHz flux density ( <a href="#">phot.flux.density:em.radio.100-200MHz</a> ) ( <a href="#">PHOT_FLUX_RADIO_150M</a> )
<input checked="" type="checkbox"/>	<input type="radio"/>	S80	<input type="text"/>	<a href="#">Jy</a> <sup>(n)</sup>	Culgoora 80MHz flux density ( <a href="#">phot.flux.density:em.radio.20-100MHz</a> ) ( <a href="#">PHOT_FLUX_RADIO_87M</a> )
<input checked="" type="checkbox"/>	<input type="radio"/>	SpI	<input type="text"/>	<sup>(n)</sup>	Culgoora spectral index between 80-160MHz ( <a href="#">spect.index:em.radio.100-200MHz</a> ) ( <a href="#">SPECT_SP-INDEX</a> )
<input checked="" type="checkbox"/>	<input type="radio"/>	B06	<input type="text"/>	<sup>(n)</sup>	Cross-match with the Burgess, 2006, Cat. <a href="#">JAJ/131/100</a> , within 20' ( <a href="#">meta.ref.url</a> ) ( <a href="#">DATA_LINK</a> )
<input checked="" type="checkbox"/>	<input type="radio"/>	SED	SED		Plot the spectrum with SPECFIND (Vollmer et al. 2009, Cat. <a href="#">VIII/85</a> ) ( <a href="#">meta.ref.url</a> ) ( <a href="#">DATA_LINK</a> )
<input checked="" type="checkbox"/>	<input type="radio"/>	Simbad	Simbad		ask the <b>Simbad</b> data-base about this object ( <a href="#">meta.ref</a> ) ( <a href="#">DATA_LINK</a> )
<input type="checkbox"/>					<sup>(n)</sup> indicates a possible blank or NULL column

**Adapt form**

[?](#) Display  UCD1+  UCD1



# III. Traitement pour VizieR

```

%\vizAddXcount{ file }{ name }{I/311/hip2 rs=1.5}{ { +/-col }{\use{vMore}}
\vizAddXcount{ table2 }{ B06 }{J/AJ/131/100/table5 rs=1200}{ }{\
{\ucd{DATA_LINK}Cross-match with the Burgess, 2006, Cat. J/AJ/131/100, \
within 20'}
#####Voir si ok - 228 rows seulement...
%\vizAddCount{ table5 }{ B06 }{stars Cluster=@{Cluster}}{ { +/-col }{\ucd{NUMBER}}
\vizDisplayColumns{ * }{ * }
%\vizIgnoreColumns{ file }{ fields }
\vizUCD{ table2 }{ S145 S160 }{ =PHOT_FLUX_RADIO_150M }
\vizUCD{ table2 }{ Cul }{ =ID_CROSSID }
%\vizFilter{ file }{ field }{ _system:filter }
%\vizSet{ file }{ field }{ fmt=9.5f dbunit=mmag dbtype=i2 flags|=V0_COLORCOL}
%\vizMore{ file }{ field }{ Other links... }
%\vizMore{ file }{ Flag }{ \showFlag{Sextractor}{@{}} } % Show SExtractor Flag
\vizMore{ table2 }{ MRC }{ \yMore{Link to MRC}
{-source=VIII/16/mrcj2000&MRC=@{MRC}}{@{}}
\vizMore{ table2 }{ Cul }{ \yMore{Link to Cul}
{-source=VIII/35/catalog&Cul=@{Cul}}{@{}}
%\vizNote{ file }{ (1) }{ +\begin{notestasatab}
%\vizLinkToNote{ file }{ field }
%\vizNoLink{ file }{ field } % Remove link
%\vizIndex{ file }{ fields }
%\vizPK{ file }{ field(s) making up the PK }
%\vizFK{ file }{ field : table }
%\vizPFK{ file }{ field(s) both PK and FK }
%\vizPKlink{ file }{ column }{ link explana
%\vizFKlink{ file }{ column }{ link explana
%\vizCatK{ file }{ field(s) from Catalog Co
%\vizSimK{ file }{ field(s) from SIMBAD Co
\vizSimbad{ table2 }{ MRC @{MRC} }
#####Il en manque 60 dans Simbad.
\vizLink{ table2 }{ SED }{ SED }{ \SPECFIND{-c=@
S=@{*S145},@{*S160},@{*S80}Jy}{@{}} }
{Plot the spectrum with SPECFIND (Vollme
%\vizSimbadName{ file }{ +/-col file_or_sc

```

[J/ApJ/734/L34/table2](#) [145MHz source measurements by PAPER \(Jacobs+, 2011\)](#)  
[Post annotation](#) PAPER (Precision Array for Probing the Epoch of Reionization) fluxes for 480 MRC sources and matching Culgoora fluxes (480 rows) [ReadMe+ftp](#)



Full	recno	RAJ2000	DEJ2000	MRC	n	S145	RMS	Sep	Cul	S160	S80	SpI	B06	SED	Simbad
		deg	deg			Jy	Jy	deg		Jy	Jy				
1	1	000.60	-83.14	0003-833		18.9	4.7	0.17					1	SED	Simbad
2	2	000.88	-17.50	0000-177		11.6	1.2	0.11	0000-177	11.8	22	-0.90	0	SED	Simbad
3	3	001.37	-56.54	0003-567		12.0	2.2	0.17					1	SED	Simbad
4	4	001.52	-42.61	0003-428		9.6	1.3	0.16	0003-428	11.9	11	0.11	1	SED	Simbad
5	5	001.58	-00.07	0003-003		25.5	2.6	0.12	0003-003	16.8	27	-0.68	0	SED	Simbad
6	6	002.11	-06.05	0005-062		11.2	1.8	0.23	0005-062	6.9	10	-0.54	0	SED	Simbad
7	7	002.51	-44.50	0007-446		14.3	1.2	0.16	0007-446	17.0	26	-0.61	1	SED	Simbad
8	8	003.27	-42.11	0008-421		1.5	1.4	0.41					0	SED	Simbad
9	9	003.34	+00.82	0010+005		13.4	2.9	0.12	0010+005	8.0	18	-1.17	0	SED	Simbad
10	10	003.56	-63.17	0013-634		28.2	6.6	0.29					1	SED	Simbad
11	11	003.87	-38.21	0012-383		13.1	1.0	0.23	0012-383	13.1	21	-0.68	1	SED	Simbad
12	12	004.92	-12.71	0016-129		8.8	1.6	0.11	0016-129	15.0	18	-0.26	0	SED	Simbad
13	13	005.89	-25.12	0020-253		8.6	1.0	0.16	0020-253	11.6	17	-0.55	0	SED	Simbad
14	14	006.15	-29.40	0022-297		15.1	1.2	0.15	0022-297	18.4	29	-0.66	0	SED	Simbad
15	15	006.50	-26.03	0023-263		8.6	1.2	0.11	0023-263	20.8	22	-0.08	0	SED	Simbad
16	16	008.88	-20.11	0032-203		10.8	1.3	0.11	0032-203	15.2	25	-0.72	0	SED	Simbad
17	17	009.32	-01.12	0034-014		22.9	2.9	0.12	0034-014	22.9	38	-0.73	0	SED	Simbad
18	18	009.67	-02.16	0035-024		35.3	2.6	0.12	0035-023	30.6	46	-0.59	0	SED	Simbad
19	19	009.67	-38.97	0036-392		13.4	1.6	0.12	0036-392	13.7	20	-0.55	1	SED	Simbad
20	20	010.44	-44.30	0039-445		16.5	1.9	0.15	0039-445	21.5	26	-0.27	1	SED	Simbad



# III. Traitement pour VizieR

```
%\vizSimbad{ file }{ Generation }
\vizSimbadName{ table1 } { table1.sim }
%\vizLEDA{ file }{ Generation }
\vizNED{ table1 }{ @{SimbadName}}
```

[I/ApJ/549/155/table1](#) [\[OIII\] emission in a sample of AGNs \(Nagao+, 2001\)](#) [ReadMe+ftp](#)  
[Post annotation](#) The Properties of the Objects in Our Sample (214 rows)



<u>Full</u>	<u>MType</u>	<u>Name</u>	<u>z</u>	<u>ROIII</u>	<u>F3.5um</u> <u>Jy</u>	<u>l</u>	<u>F12um</u> <u>Jy</u>	<u>l</u>	<u>F25um</u> <u>Jy</u>	<u>F60um</u> <u>Jy</u>	<u>SimbadName</u>	<u>NED</u>	<u>RA</u> <u>deg</u>	<u>DE</u> <u>deg</u>
<a href="#">1</a>	NLS1	NGC 4748	0.0146	0.0492			0.1708		0.3705	1.1630	NGC 4748	NED	193.05179	-13.41500
<a href="#">2</a>	NLS1	Mrk 42	0.0240	0.1339		<	0.0987	<	0.1394	0.3172	Mrk 42	NED	178.42404	+46.21192
<a href="#">3</a>	NLS1	Mrk 291	0.0352	0.1031		<	0.0662	<	0.0884	0.3368	Mrk 291	NED	238.78302	+19.19245
<a href="#">4</a>	NLS1	Mrk 335	0.0258	0.0699	0.0982		0.3021		0.3777	0.3433	Mrk 335	NED	001.58134	+20.20291
<a href="#">5</a>	NLS1	Mrk 359	0.0174	0.0735			0.1192		0.4376	1.1320	Mrk 359	NED	021.88583	+19.17889
<a href="#">6</a>	NLS1	Mrk 493	0.0319	0.4568	0.0155		0.0881		0.1918	0.6937	Mrk 493	NED	239.79012	+35.02992
<a href="#">7</a>	NLS1	Mrk 504	0.0359	0.0308	0.0093						Mrk 504	NED	255.28208	+29.40667
<a href="#">8</a>	NLS1	Mrk 507	0.0559	0.0593			0.0531		0.1042	0.5445	Mrk 507	NED	267.16000	+68.70444
<a href="#">9</a>	NLS1	Mrk 766	0.0129	0.0294	0.0543		0.3855		1.2950	4.0260	Mrk 766	NED	184.61050	+29.81292
<a href="#">10</a>	NLS1	Mrk 783	0.0672	0.0895		<	0.1005	<	0.1992	0.3096	Mrk 783	NED	195.74517	+16.40763
<a href="#">11</a>	NLS1	Mrk 957	0.0711	0.0952		<	0.1882		0.2450	2.0950	Mrk 957	NED	010.47250	+40.35500
<a href="#">12</a>	NLS1	Mrk 1126	0.0106	0.1163							Mrk 1126	NED	345.19925	-12.91853
<a href="#">13</a>	NLS1	Mrk 1239	0.0199	0.0892	0.1570		0.6500		1.1410	1.3350	Mrk 1239	NED	148.07959	-01.61207
<a href="#">14</a>	NLS1	1E 1031+5822	0.2480	0.0683							1E 1031.1+5822	NED	158.58846	+58.11469
<a href="#">15</a>	NLS1	1E 1205+4657	0.1020	0.3646							1E 1205.5+4657	NED	182.00083	+46.68528
<a href="#">16</a>	NLS1	1E 12287+123	0.1160	0.5395							1E 1228+12.3	NED	187.80471	+12.05200
<a href="#">17</a>	NLS1	2E 1226+1336	0.1500	0.0312							1E 1226.9+1336	NED	187.36042	+13.33889
<a href="#">18</a>	NLS1	I Zw 1	0.0611	0.0761	0.1110		0.5118		1.2110	2.2430	I Zw 1	NED	013.39617	+12.69289
<a href="#">19</a>	NLS1	H 34.06	0.0318	0.1023		<	0.0614		0.0882	0.2373	IRAS F06083-5606	NED	092.32292	-56.11639
<a href="#">20</a>	NLS1	H 1934-063	0.0106	0.0437			0.4963		1.0640	2.8080	IRAS 19348-0619	NED	294.38758	-06.21799



# III. Traitement pour VizieR

CDSD Portal Simbad VizieR Aladin X-Match Other Help

Send to VO tools

### VizieR Result Page

Show the target form  
 Show constraint information

The 2 columns in **color** are computed by VizieR, and are **not part of the original data**.

[J/ApJS/181/548/table2](#) X-shaped radio sources. II. New redshifts (Cheung+, 2009) [ReadMe+ftp](#)  
[Post annotation](#) Parameters of spectroscopically identified X-shaped radio galaxy sample (50 rows)

Full	<u>RAJ2000</u>	<u>DEJ2000</u>	recno	Seq	n	[C2007]	mag	z	Kcor	Av	[L1.4GHz]	RMAG	<u>RA</u>	<u>DE</u>
	"h:m:s"	"d:m:s"					mag				[W/Hz]	mag	dec	dec
1	00 09 52.60	+12 44 05.0	1	X01		J0009+1244	15.9 <sub>a</sub>	0.1560	0.17	0.24	26.12	-23.9		
2	00 58 22.60	+26 51 59.0	2	X02		J0058+2651	13.2 <sub>d</sub>	0.0477	0.05	0.23	24.98	-24.3		
3	01 48 28.90	+53 32 28.0	3	X03	Q	J0148+5332	17.5 <sub>c</sub>	0.2854	0.36	0.62	27.00	-24.3		
4	02 20 54.30	-01 56 50.0	4	X04	Q	J0220-0156	17.8 <sub>e</sub>	0.1750	0.20	0.09	26.48	-22.7	035.22625	-01.94722
5	05 16 03.10	+24 58 25.0	5	X05	Q	J0516+2458	17.0 <sub>f</sub>	0.0640	0.07	2.53	25.48	-23.5	079.01292	+24.97361
6	08 05 35.00	+24 09 51.0	6	X06		J0805+2409	15.4	0.0598	0.06	0.15	25.65	-22.2	121.39583	+24.16417
7	08 31 27.50	+32 19 27.0	7	X07		J0831+3219	14.7	0.0507	0.05	0.13	25.06	-22.5	127.86458	+32.32417
8	09 41 24.00	+39 44 42.0	8	X08		J0941+3944	16.1	0.1075	0.12	0.05	25.78	-22.8	145.35000	+39.74500
9	10 20 51.90	+48 31 10.0	9	X09		J1020+4831	15.1	0.0520	0.05	0.03	25.04	-22.0	155.21625	+48.51944
10	11 01 51.92	+16 40 38.1	10	X10	Q	J1101+1640	15.9	0.0680	0.08	0.05	24.86	-21.9	165.46633	+16.67725
11	13 57 30.50	+48 07 41.0	11	X13	Q	J1357+4807	20.1	0.3830	0.56	0.04	26.17	-22.3	209.37708	+48.12806
12	15 13 40.00	+26 07 24.0	12	X14		J1513+2607	16.9	0.1083	0.12	0.16	26.11	-22.1	228.41667	+26.12333
13	18 24 33.10	+74 20 59.0	13	X15		J1824+7420	16.1 <sub>c</sub>	0.2560	0.31	0.17	26.58	-24.9	276.13792	+74.34972
14	19 52 15.80	+02 30 24.0	14	X16		J1952+0230	14.1 <sub>b</sub>	0.0590	0.06	0.50	25.69	-23.6	298.06583	+02.50667
15	21 23 44.60	+25 04 27.0	15	X17		J2123+2504	16.4 <sub>e</sub>	0.1016	0.11	0.48	26.50	-23.2	320.93583	+25.07417
16	21 57 31.40	+00 37 57.0	16	X18		J2157+0037	19.1	0.3907	0.58	0.14	26.11	-23.5	329.38083	+00.63250
17	00 01 40.18	-00 33 50.6	17	1		J0001-0033	17.4	0.2469	0.30	0.10	25.13	-23.7	000.41742	-00.56406
18	00 49 39.45	+00 59 53.8	18	5		J0049+0059	18.1	0.3044	0.40	0.06	25.66	-23.6	012.41437	+00.99828
19	01 13 41.11	+01 06 08.5	19	6		J0113+0106	18.1	0.2810	0.35	0.09	25.99	-23.4	018.42129	+01.10236
20	01 15 27.37	-00 00 01.5	20	7		J0115-0000	20.5	0.3810	0.56	0.08	26.05	-22.0	018.86404	-00.00042

Position from Cheung 2007 (Cat. J/AJ/133/2097, table1 and 2) (right ascension part)

Result truncated to 20 rows

**Available Visualisations:**

- Plot the results with the VOPlot utility

→ Thanks for acknowledging the VizieR Service

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✉ Contact



# III. Traitement

- Autres fichiers de travail possibles :
  - tables.pos & tables.sim (lorsque le .status ne suffit pas)
  - .graph (un seul script pour tous les graphes du catalogue (donc toutes les tables...))
  - scripts ou fichiers en dur pour ajouter des colonnes (IDs)

```
set Star = `echo $theTablacut -d/ -f2`
set Tab = `echo $theTablacut -d/ -f1`

# Accept a menu
if ("$1" = "LIST_F="*) then
  set Flist = "$1"; shift
endif
if ("$1" = "F="*) then
  set F = `echo "$1" | acut -d=-f2-`; shift
else
  set F = "all"
endif

#if ("$1" = "P="*) then
#  set P = `echo "$1" | cut -c3-`; shift
#else
#  set P = ""
#endif
#if ("$P" == "") set P = 0

#####
# Vgraph not defined => just the plot introduction
#####
if (! $?Vgraph) then
  if (! $?Flist) then
    set Flist = "@F=Ic;Rc;g;i;i';z';z';all"
  endif
  #if ($P != 0) then
  #  set plotx = "-x 0 1"
  #else
  #  set plotx = ""
  #endif
  set ploty = ""
  set ploty = "-y - - -" # Reverse Y axis
  echo1 "\section*{Light curve of \object{GRB $Star} in"
  echo1 '\fg{red4}Ic3 \fg{red2}Rc3 \fg{green3}g3 (\ncirc)\quad'
  echo1 '\fg{red2}i3 \fg{red4}i'3 \fg{gray50}z3 \fg{gray10}z'3 (\square) 3"
  cgraph -img -ps:'Postscript Figure' -txt:'Data as a Table' -form -htx \
    "$Flist" F="$F" -graph $plotx $ploty $argv:q
  exit 0
endif

#####
# Actual gif or ps plot (Vgraph contains gif or plot)
#####

set plotarg = \
  "-f 0.0375 -h 0.85 -w 0.75 -u 0.125 -r 0.15 --title-font-size 0.05 -m -1 -S 2"

#if ($P != 0) then
#  set X = "Phase"
#else
#  set X = "JD-2451224.0"
#endif

set X = 't [time since burst]'
set Y = '[mag]'
#set ploty = "-y - - -"
#echo2 "Star='$Star'"

#####
# lc_get returns JDx, magx, e_magx
#####

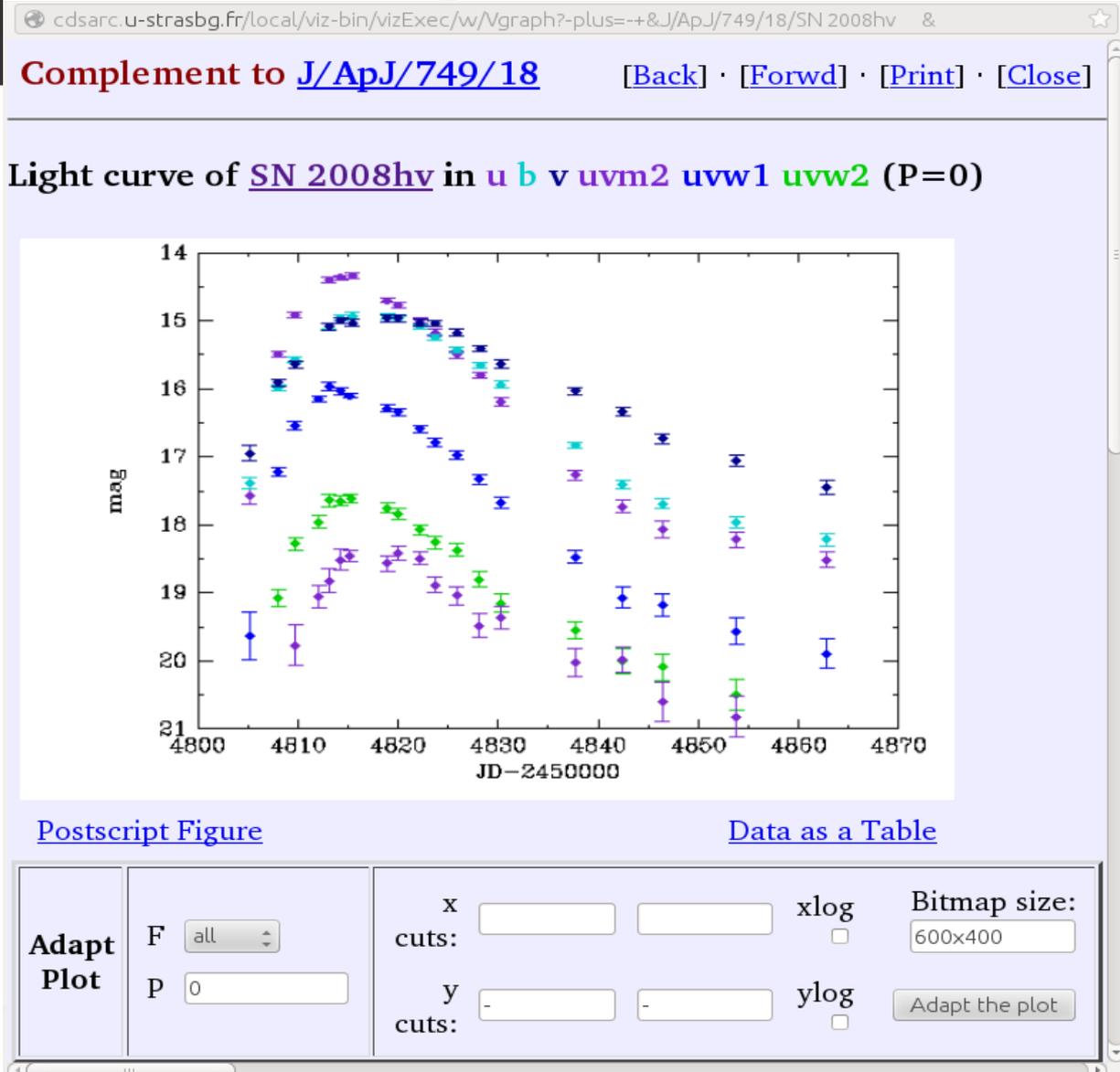
#echo2 "...Getting: ./lc_get $theTab"
#Symbols circle (BVI) / square (JHK)
#Limit values; use triangle

fcat table1.dat | grep "^GRB$Star" \
| tabmap -data -ascii 'Filt Time mag e_mag l_mag' -t table1.dat \
| tee /tmp/gcn1 \
| gawk -v F="$F" -v q="" ' /^$/ { print; next } \
{ if (C1=$1) { C=$1; \
m=index("gRIZ..i",substr(C,1,1)); if(substr(C,2,1)==q) m++; \
if(m>3) S=17; else S=4; printf "# m = -%d, S = %d\n",m,S3 \
if ((F!="all") && (F!=C)) next; \
mag = $3; err = $4; \
if ($4 == ">") { err=3.0; mag += err } \
else if ($4 == "<") { err = 3.0; mag -= err } \
else { mag = $3; err = $4 } \
printf "%10.1f %6.2f %6.2f\n", $2, mag, err }' \
| tee /tmp/4Plot.txt \
| graph -T $Vgraph -C -I e \
--pen-colors 1=green3;2=red2;3=red4;4=gray50;5=gray10 \
$plotarg -X $X:q -Y $Y:q $argv:q
exit 0
```



# III. Traitement pour VizieR

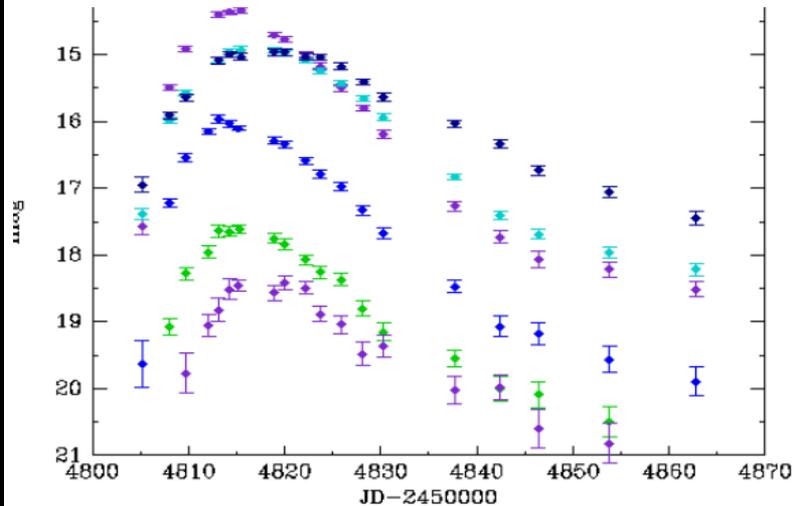
- Amélioration des Graph :
  - Ic-mag
  - sed4.csh
- Gilles => prog pseudo-SQL





# III. Traitement pour VizieR

- Amélioration des Graph :
- Ic-mag



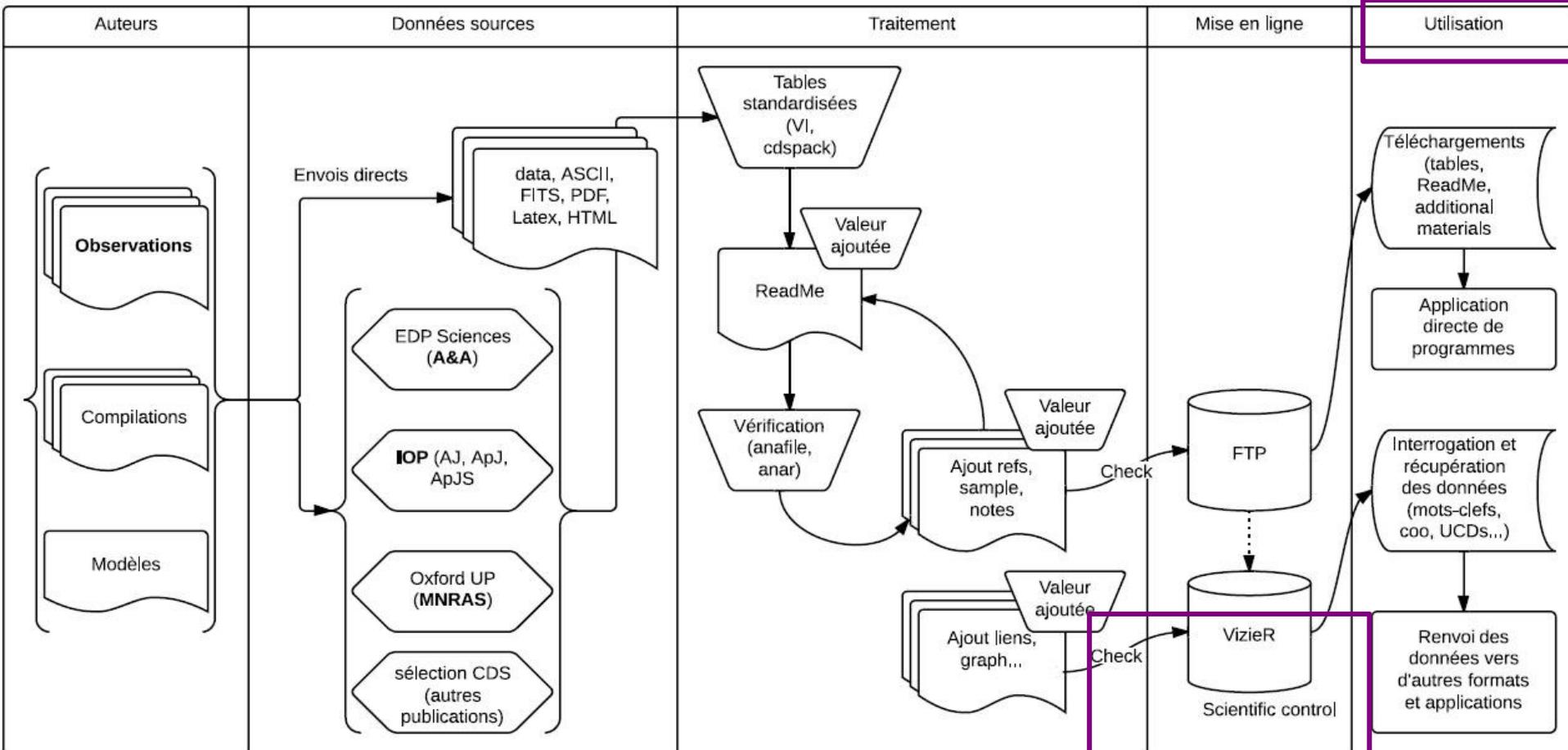
```
(cats) cdsarc
File Edit View Bookmarks Settings Help
#!/bin/csh
#####
# theTab = SN Name
# Argument is P=period
# Vgraph is "gif" "ps" or "txt"
#####

#####
# Get the Arguments: Star (in $theTab) and Period
#####

set Star = `echo $theTab |tr '_' ' '`
set Fall = "u;b;v;uvm2=U;uvw1=B;uvw2=V;all" # List of filters
#####
# Optional parameters:
#####
set theFile = table1.dat # default is $theTab
#set object = "\objS{M31N $Star}{$Star}" # default is \object{$Star}
set JD0 = 0 # Origin of JD (default is 2450000)
set Fcol = "Filt" # name of column containing a Filter
set Ycol = "mag" # name of column with magnitude
set has_err = 1 # must be defined to plot error bars
set has_lim = 1 # must be defined if limits
#set is_flux = 1 # must be defined if flux
#set is_diff = 1 # must be defined if diff. magnitudes (or relative flux)
#set title = non-standard title
set IDcol = "Name"
set IDval = "$Star"
set Xlab = "JD-2450000" # label de l'axe des X (dans le cas ou P=0)
#set Ylab = label de l'axe des Y (default: "mag", "Deltamag", ou "Flux"
# (when contains Jy or Flux => is_flux=1)
echo2 "#...IDcol=$IDcol, IDval=$IDval"
source $Vroot/lib/graph/lc-mag.csh
exit $status
```



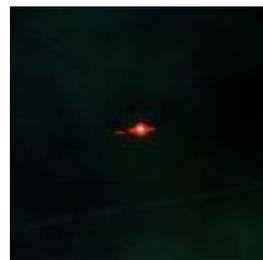
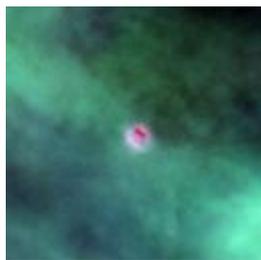
# Process VizieR





# Data ingestion in VizieR

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Thank you all!

(Cat. J/AJ/136/2136)

