

Starting point: Mission Data Set - Messy Data Set


● Messy Storage




- Multiple instruments
- Multiple modes per instrument
- Multiple data products per instrument/mode
- Multiple types for those data sets
 - FITS, PDF, preview
- Heterogeneous metadata
- Released over long periods
 - 16 years for XMM
 - Data product evolution




● Messy to Arrange




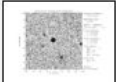
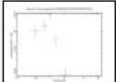





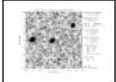
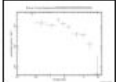






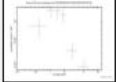
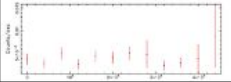





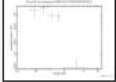
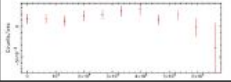




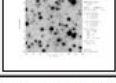

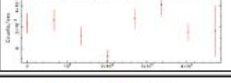

- Links between data products
 - FITS -> preview
 - PDF -> JPEG
- Navigation path between data products
 - Following observation IDs
 - Following detection IDs
- Released over long periods
 - 16 years for XMM

Target: A Clear Data View

 ThreeXMMdr5 CATALOGUE>ENTRY

← → Show 5 entries    Showing 1 to 5 of 100 entries

Access	Position	Rel : CatSrcToFC	Rel : CatSrcToSpecPlot	Rel : CatSrcToTSPlot	Rel : CatSrcToObsImg
  	23:59:59.62-55:17:50.2 (s)				
  	23:59:56.22-32:06:15.4 (s)				
  	23:59:56.19-32:18:39.8 (s)				
  	23:59:56.07-55:33:46.1 (s)				
  	23:59:54.04+62:29:25.8 (s)				
Access	Position	Rel : CatSrcToFC	Rel : CatSrcToSpecPlot	Rel : CatSrcToTSPlot	Rel : CatSrcToObsImg

← → Show 5 entries

.... And More

Exploring Neighbourhood

Showing 1 to 5 of 8 entries

Showing 1 to 15 of ...

Complex Searches

Const. Pattern Plan

05:30 56.460 -70 08 57.46

List of Active Constraints

ishCircle("83.866750")

QL strd ishCircle("83.866750")

Fov: 2.22A1

83.866750 -69.269722

Accessing Linked Data

Linked Data (relation CatSrcToEpic)

Plot	Access	Position	Size (deg)	namesaads	XCAT_OBSID	XCAT_INSTRUME	XCAT_OBJECT	KC
		23:58:59.80-55:27:30.0 (h)	0.7200 x 0.7200	NGC 7796	069130101	EPN	NGC 7796	Prv
		23:58:59.80-55:27:30.0 (h)	0.7200 x 0.7200	NGC 7796	069130101	EMOS1	NGC 7796	Prv
		23:58:59.80-55:27:30.0 (h)	0.7200 x 0.7200	NGC 7796	069130101	EMOS2	NGC 7796	Prv

Linked Data (relation CatSrcToObsId)

Plot	Access	Position	Size (deg)	namesaads	XCAT_OBSID	XCAT_INSTRUME	XCAT_OBJECT	KC
		23:58:49.61-55:26:33.8 (h)	0.7200 x 0.7200	NGC 7796	069130101	EPIC	NGC 7796	Prv

Picking up Data

Shopping Cart

Keep/Discard	Data Source	Include Linked Data	Resource Name	Resource URL
<input checked="" type="checkbox"/>	SINGLE_FILE	<input type="checkbox"/>	P05961201EPF0000CBM0000.FIT	2861185911834773
<input checked="" type="checkbox"/>	SINGLE_FILE	<input type="checkbox"/>	P00464202EPF0000CBM0000.FIT	2861185911834772
<input checked="" type="checkbox"/>	SINGLE_FILE	<input type="checkbox"/>	P0600300202EPF0000CBM0000.FIT	2861185911834771
<input checked="" type="checkbox"/>	SINGLE_FILE	<input type="checkbox"/>	P024190402EPF0000CBM0000.FIT	2861185911834770

Node EPICSpecObj

Keep/Discard	Data Source	Include Linked Data	Resource Name	Resource URL
<input checked="" type="checkbox"/>	SINGLE_FILE	<input type="checkbox"/>	EPIC EPN Spectra: OBS 0309490301 SPC1-138	115320309713318889
<input checked="" type="checkbox"/>	SINGLE_FILE	<input type="checkbox"/>	EPIC EPN Spectra: OBS 0556260601 SPC1-101	115320309713318887
<input checked="" type="checkbox"/>	SINGLE_FILE	<input type="checkbox"/>	EPIC EPN Spectra: OBS 0448340201 SPC1-26	115320309713318886
<input checked="" type="checkbox"/>	SINGLE_FILE	<input type="checkbox"/>	EPIC CMOS1 Spectra: OBS 0646490101 SPC1-10	115320309713318885

Node CATALOGUE_ENTRY

Keep/Discard	Data Source	Include Linked Data	Resource Name	Resource URL
<input checked="" type="checkbox"/>	QUERY_RESULT	<input type="checkbox"/>	query_0	Select ENTRY FROM 'IN CATALOGUE LHM 100

Processing status

Current Job Status: 100%

Message Content: [Remove Unselected Items] [Remove All Items]

Manage Job: [Start Processing] [Abort]

Get the Result: [Download Cart]

Being Samp Connected

Refine Query

Samp Info

Available SAMP Clients

Below is the list of SAMP clients accepting data

- Click on the icon of the client you want to send data.
- Click on the broadcast icon if you want your data to be sent to all clients.
- topcat Tool for Operations on Catalogues And Tables [read more...](#)
- Aladin The Aladin sky atlas and VO Portal [read more...](#)
- Broadcast to any client

TOPCAT

File Views Graphics Joins Windows VO Interop Help

Table List

1: table.load.votable

Current Table Properties

Label:

Location:

Name:

Rows:

Columns:

Sort Order:

Row Subset:

Activation Action: Broadcast Row

SAMP

Messages:

Clients:

Being Interoperable



... and the VO

From Topcat

Table Access Protocol (TAP) Query

Window TAP Edit Interop Help

Select Service Use Service Resume Job Running Jobs

Metadata

Find:

<input checked="" type="checkbox"/> Name	<input type="checkbox"/> Descrip	<input type="checkbox"/> Or
ArchesFlux (1)		
ArchesFlux.Arche		
ArchesProba (1)		
ArchesProba.Arc		
EPIC (3)		
EPIC.EpicObslma		
EPIC.EpicSrcSpe		
EPIC.EpicSumSrc		
Enhanced (1)		
Enhanced.Enhar		
TAP_SCHEMA (5)		
TAP_SCHEMA.col		
TAP_SCHEMA.key		

Service

Schema

Name: EPIC

Tables: 3

Description: Schema matching the Saada collection EPIC

Service Capabilities

From TAPHandle

saada.unistra.fr/taphandle/?url=http%3A//xcatdb.u-strasbg.fr/3xmmdr5/tap/#

News saada CDS divers VO privé obser ssc Arches

Enter a TAP service URL or a keyword

Tap Nodes

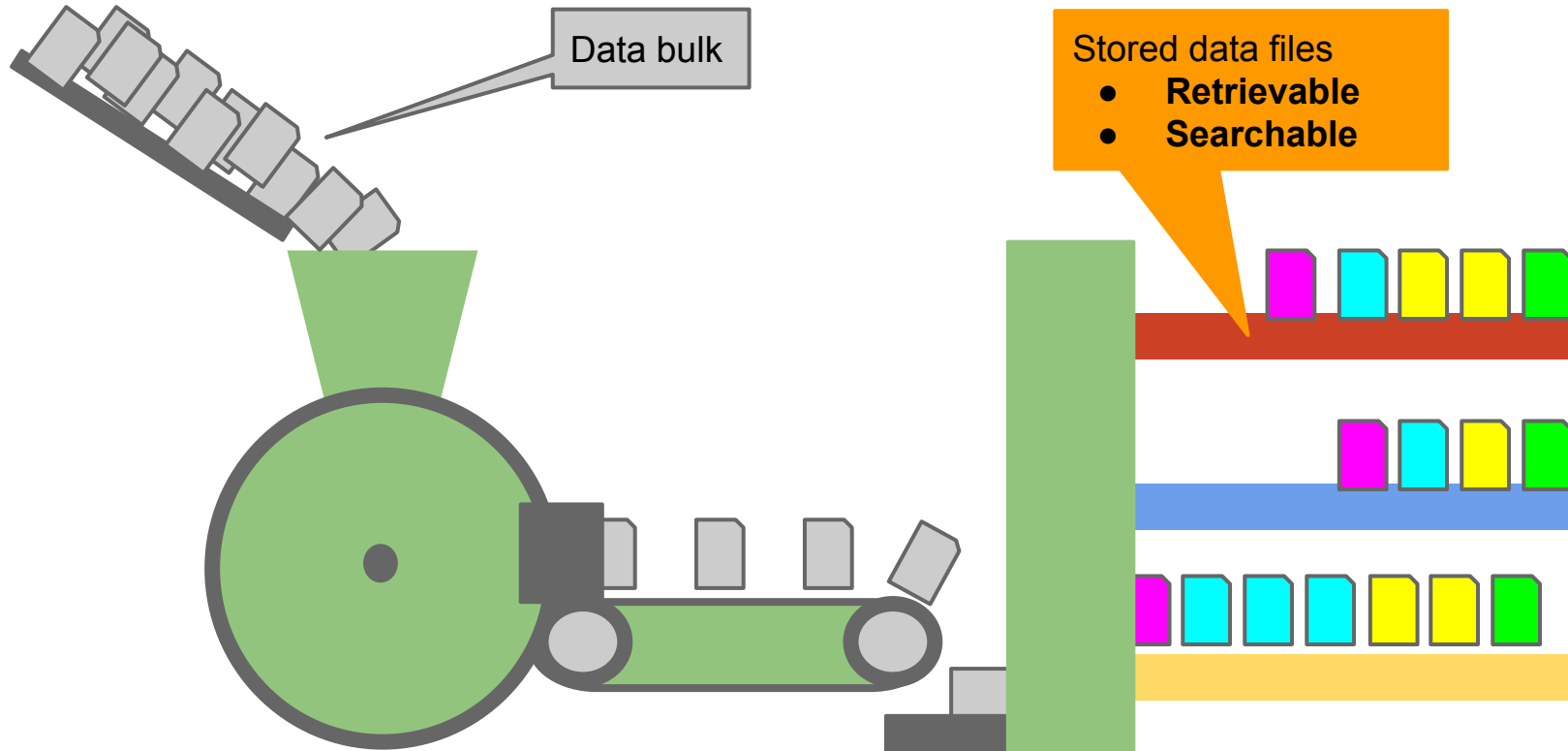
- xcatdb>EPIC>EpicSrcSpect>1_EPIC
- Enhanced
- ArchesProba
- ArchesClusters
- ArchesFlux
- ArchesFlux.ArchesFluxEn
- EPIC
 - EPIC.EpicSrcSpect
 - EPIC.EpicObsImage
 - EPIC.EpicSumSrcListEntr
- Ivoa
- TAP_SCHEMA
- Goodies (not used yet)

Hide tree

Show 10 entries

oldsaada	namesaada
	EPIC EMOS2 Spectra: OBS 0110980601 SRC# 2
	EPIC EMOS1 Spectra: OBS 0551280201 SRC# 10
	EPIC EMOS2 Spectra: OBS 0121500301 SRC# 10
	EPIC EMOS2 Spectra: OBS 0008820101 SRC# 277
	EPIC EMOS2 Spectra: OBS 0504101601 SRC# 3
	EPIC EMOS2 Spectra: OBS 0109141301 SRC# 12
	EPIC EPN Spectra: OBS 0673780101 SRC# 9
	EPIC EPN Spectra: OBS 0201902401 SRC# 11
	EPIC EPN Spectra: OBS 0202210301 SRC# 56
	EPIC EMOS2 Spectra: OBS 0554750401 SRC# 33

The Tool: A Storing Machine





Astronomical Database Generator



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Asterics Workshop (Heidelberg 2016) (2016-06-10)

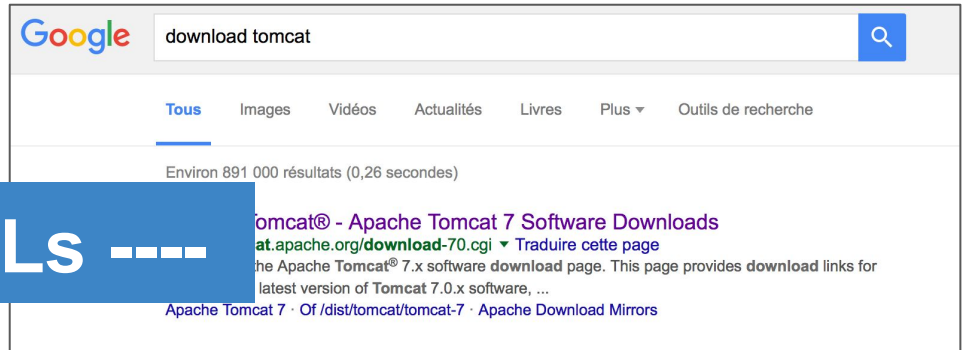
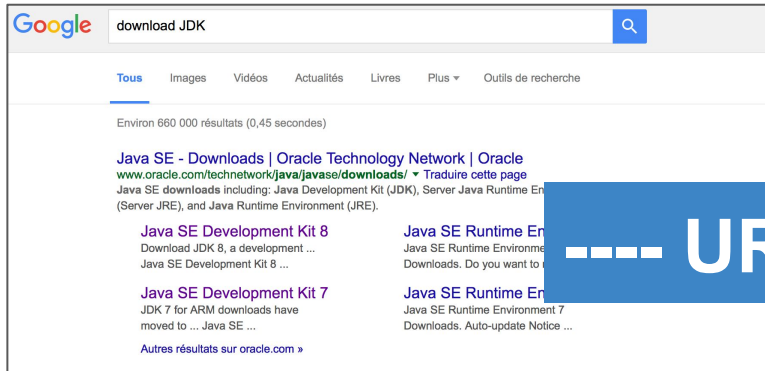
The ASTERICS project is organising the European Data Provider Forum and Training Event at the Zentrum für Astronomie at Heidelberg University, Germany.

This workshop gathered researchers and technicians on the topic of on-line publishing of astronomical data and services. It offered an opportunity to identify common challenges and problems, to exchange solutions, and to share perspectives.

<http://saada.unistra.fr>

Getting Started

- Make sure **Java JDK** is running on your machine
- Create a *handson* directory
 - Create subdirs: *tomcat*, *saada*, *saadadb*, *repository* and *data*
- Install **Tomcat** in *handson/tomcat* to avoid permission issues
- Download **Saada1.9.build1** and install in *handson/saada*
- Download the data sample and extract it in *handson/data*



---- URLs ----