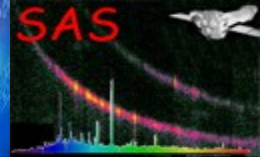


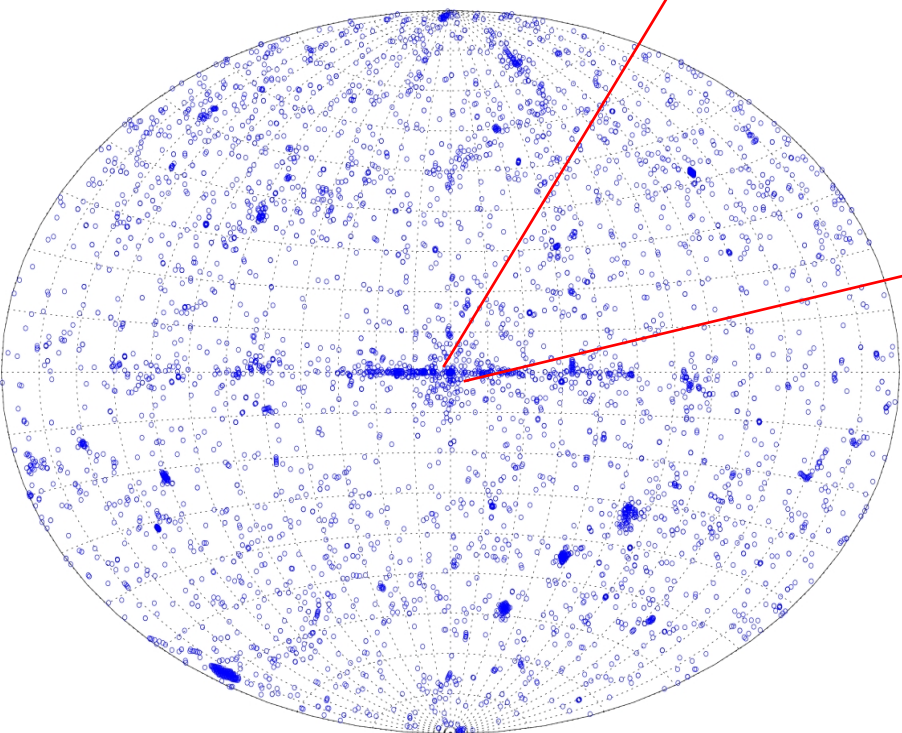
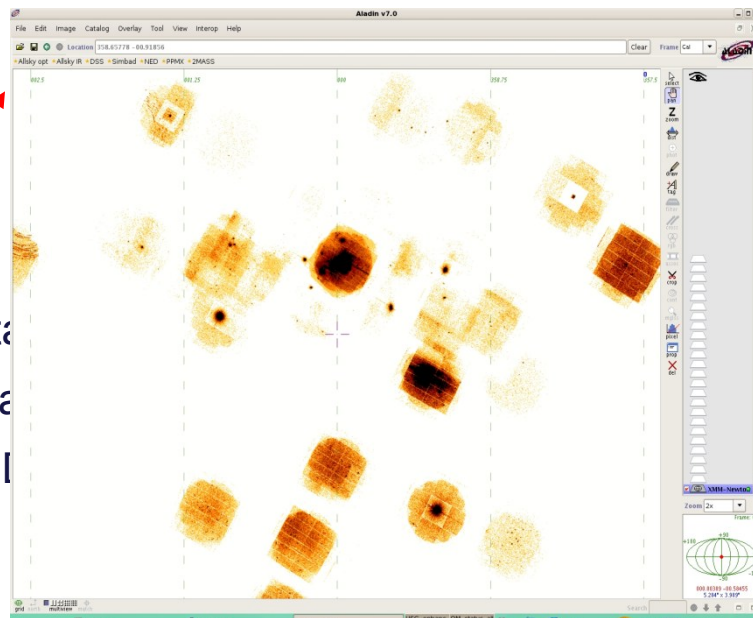
The XMM-Newton Science Archive (XSA)



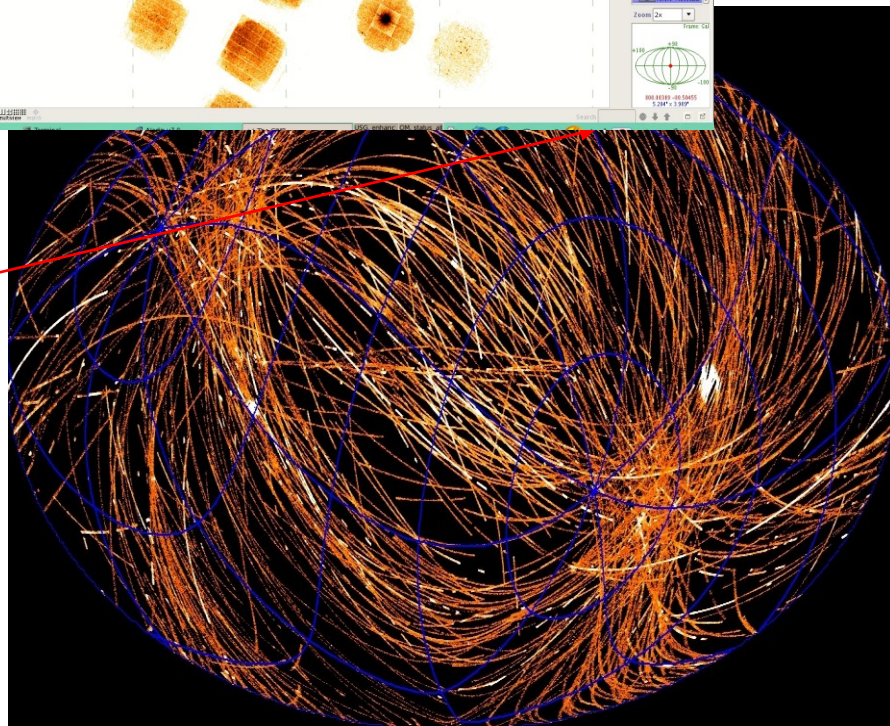


➤ Content of the XSA:

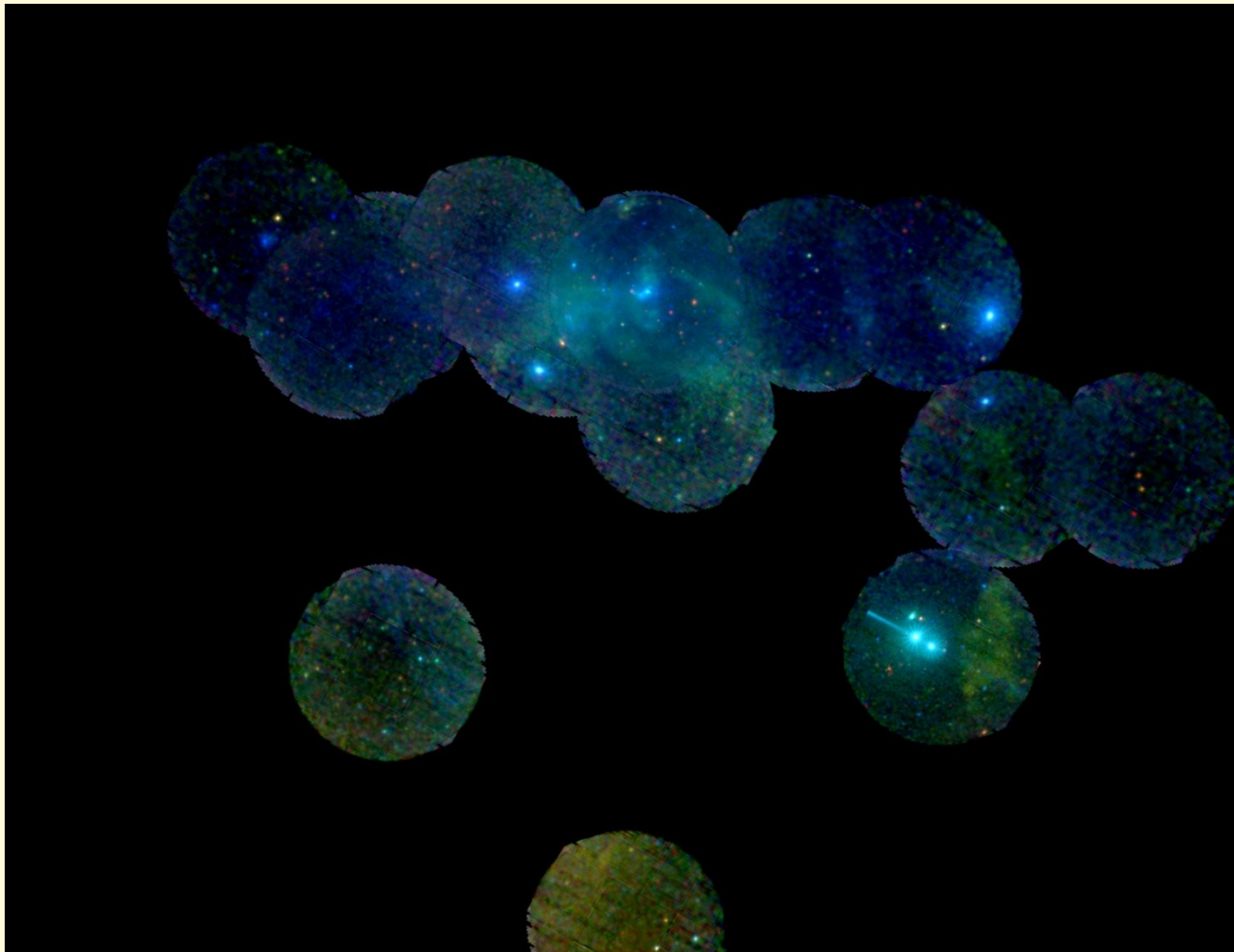
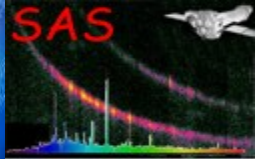
- > 10900 pointed observations
- > 3100 slew observations
- > 143000 Slew Survey sub-exposures
- 531,261 EPIC sources (3XMMi-DR4 catalog)
- 5,595,331 OM sources (OM-SUSS2 catalog)
- 41,423 Slew Survey sources (XMMSL1 catalog)



Pointed Observations – P. Rodriguez

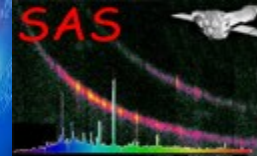


Slew observations – A. Read



Galactic Centre region – Pedro Rodriguez




<http://xmm.esac.esa.int/xsa>

XMM-Newton Science Archive (XSA)

Index

- Access to XMM-Newton Data and Source Catalogues
- Tools
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- Questions, Comments

Web Interface access to XMM-Newton Data and Source Catalogues

 Search the XMM-Newton Science Archive (XSA)

Direct access to the XSA data through the Archive InterOperability System (AIO):

 AIO tool for direct access to the XSA database

Tools

FLIX Upper limit and image cut-out
 from XMM-Newton Serendipitous Source Catalogue images

Tool provided by the XMM-Newton Survey Science Centre (SSC), available via LEDAS.

"Upper Limit Server" for XMM-Newton pointed and slew observations

Tool to calculate the maximum count rate and flux which could be produced by a source at the input position in a given image. See the User Guide.

Download Full XMM-Newton Catalogues

Alongside all XMM-Newton scientific data products and observation-related information, high-level catalogues and a multiwavelength datasets can be accessed through the XSA user interface or downloaded from the links below:

3XMM-DR4 XMM-Newton Serendipitous Source Catalogue	Download the FITS table Download the CSV table	Documentation and watchouts (by the SSC consortium)
Sim version of the 3XMM-DR4 catalogue	Download the FITS table Download the CSV table	Documentation and watchouts (by the SSC consortium)
New The XMM-Newton Slew Survey XMM-SL1_Delta6 Source Catalogue	Download the FITS table (FULL) Download the FITS table (CLEAN)	Documentation
New XMM-Newton OM Serendipitous Ultra-violet Source Survey Catalogue (XMM-SUSS2)	Download the FITS table Download the FITS table (SLIM version)	Documentation
XID program WFC/INT images		Documentation (Maintained by the SSC consortium)

Alongside the XSA user interface, 3XMM-DR4 is also available at:

- LEDAS (Leicester Database and Archive Service)
- XCAT-DB at the Observatoire Astronomique de Strasbourg
- HEASARC

Previous versions of the XMM-Newton Serendipitous Source Catalogue can be found here.

Documentation

XMM-Newton Science Data Products Guide

A short guide to XMM-Newton science data products.

Data Quality Process for XMM-Newton Data

A description of the "Data Quality Process" applied to XMM-Newton Data and the "Data Quality Report" available for each observation.

Notes on the XSA releases

XSA version 8.2:

The **XSA v8.2**, released on 27 February 2014, provides for the first time access to two new versions of catalogues: the incremental **XMM-SL1_Delta6** and the **XMM-SUSS2**. It also provides access to new mosaic ODF subsets generated in 2014, and continues giving access, as earlier XSA v8 versions, to the **3XMM-DR4** and to all XMM-Newton ODF and PPS files, either routinely processed since July 2013, or earlier data reprocessed in 2013.

XSA version 8.0:

The **XSA v8.0**, released on 23 July 2013, offered for the first time a web based interface to the XMM-Newton Science Archive. The XSA was fully re-engineered also greatly improving the search speed.

Since v8.0 of the XSA access is provided to all XMM-Newton data including the fully reprocessed PPS products, and the 3XMM-DR4 catalogue.

Watchouts

- Since the release of the web based XSA v8.0 **new AIO client files** need to be downloaded in order to get command line access to the new data. The previous XSA v7.2 java interface and associated **old AIO client files** will **no longer be available** around mid 2014. They **do not** provide access to the most updated EPIC, Slew Survey and OM catalogues, to the fully reprocessed pipeline products or to the newly ingested data.
- The links to the old Postcard server will also be discontinued. They have to be replaced by direct links to the CSD web page. Example: replace <http://hsa.esac.esa.int:8080/aio/jsp/locatePostcards.jsp?obsno=011288001> by <http://hsa.esac.esa.int/hsa-web/obsno/011288001>
- The on-the-fly data processing functionality has not yet been implemented.

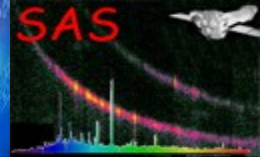
Questions, Comments

If you have questions about the XMM-Newton Science Archive please contact us via the XMM-Newton Helpdesk



xmm-newton

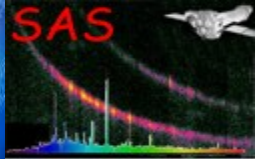
Nora Loiseau



XSA usage cases

- Search for observations of a given target or list of targets to download ODFs, to analyse them with SAS and extract sources, and get their total flux, spectra and light curves.
- Quick look view of the associated information for a given observation: exposures modes/filters, postcard images, related publications, quality reports.
- First look at the list of results: save list, open list with TOPCAT, or open image with ds9 or Aladin.
- Search for specific type of data, i.e. timing exposures for binary stars.
- Search catalogues.
- Direct download data using AIO.





XMM-Newton Science Archive

nxsa.esac.esa.int/nxsa-web/#search

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SLEW OBSERVATIONS (1)

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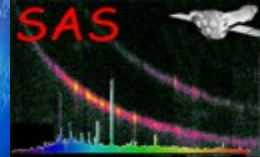
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<input type="checkbox"/>		0655300101			2PIGG_1520	00h 01m 54.00s	-34d 47' 43.8"	54.8	1914	2010-05-22 22:33:42	2010-05-23 07:25:37	31915
<input type="checkbox"/>		0204790101			WLM	00h 01m 57.90s	-15d 27' 50.0"	247.6	740	2003-12-23 23:05:47	2003-12-24 02:24:35	11928
<input type="checkbox"/>		0041750101			BLANCO1	00h 02m 47.99s	-30d 00' 00.0"	66.4	461	2002-06-15 19:38:36	2002-06-16 10:09:46	52270
<input type="checkbox"/>		0016140101			RX J0002+6246	00h 02m 55.50s	+62d 46' 17.2"	30.5	312	2001-08-22 16:40:33	2001-08-23 02:30:38	35405
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<input type="checkbox"/>		0602830101			G 266-33	00h 03m 41.47s	-28d 23' 46.3"	244.3	1833	2009-12-11 19:47:21	2009-12-11 22:35:59	10118
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<input type="checkbox"/>		0556210201			SDSSJ000524.83-084502	00h 05m 24.82s	-08d 45' 02.9"	64	1554	2008-06-03 19:03:33	2008-06-03 22:22:09	11916

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Details for Observation 0145020201

Summary Exposures Publications

Title BibCode

XMM-Newton observations of three poor clusters: Similarity in dark matter and entropy profiles down to low mass 2005A&A...429..791P

The structural and scaling properties of nearby galaxy clusters. I. The universal mass profile 2005A&A...435....1P

Chandra Temperature Profiles for a Sample of Nearby Relaxed Galaxy Clusters 2005ApJ...628..655V

Structure and scaling of the entropy in nearby galaxy clusters 2006A&A...446..429P

Modelling the formation of galaxy clusters in MOND 2006MNRAS...366..969N

Galaxy cluster masses without non-baryonic dark matter 2006MNRAS...367..527B

Calibration of the galaxy cluster M(500)-Y(X) relation with XMM-Newton 2007A&A...474L..37A

A catalog of galaxy clusters observed by XMM-Newton 2008A&A...478..615S

Intracluster Medium Entropy Profiles for a Chandra Archival Sample of Galaxy Clusters 2009ApJS...182...12C

The X-ray/SZ view of the virial region. I. Thermodynamic properties 2013A&A...551A..22E



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<input type="checkbox"/>	0305751001			SDSS00004+00
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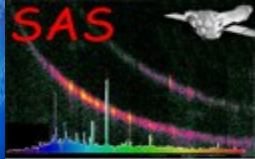
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GAMMA RAY BURSTS	SCHARTER (PS), NORBERT	TOO	Publ
STAR FORMING REGION	Getman, Konstantin	Co-Chandra	Publ
TRACTING GALAXY MIXED FLAT RADIO SP	Plak, Andrew	GO	Publ
GROUP OF GALAXIES	Miniati, Francesco	Large	Publ
DWARF GALAXY	DI STEFANO, ROSANNE	GO	Publ
OPEN STAR CLUSTER	Micela, Giuseppina	GO	Publ
LATED NEUTRON STAR	Zavlin, Vyacheslav	GO	Publ
SPIRAL GALAXY	Bregman, Joel	GO	Publ
SPIRAL GALAXY	Bregman, Joel	GO	Publ
TER OF GALAXIES ABELL CLASS 2	Zhang, Yu-Ying	GO	Publ
TER OF GALAXIES ABELL CLASS 1 WITH COOLING FLOW	ARNAUD, Monique	GO	Publ
GALAXY	Aschenbach, Bernd	GO	Publ
GALAXY	Aschenbach, Bernd	GO	Publ
STAR G8V	Walter, Frederick	GO	Publ
USTER OF GALAXIES	BOEHRINGER, HANS	GO	Publ
SEYFERT RADIO QUIET TYPE 2	Bassani, Loredana	Large	Publ
QSO	Komossa, Stefanie	GO	Publ
QSO RADIO QUIET TYPE 1	Page, Mathew	Large	Publ

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Observation ID Revolution Availability Status

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Display options

Observations	PPS Sources	Slew Observations	Catalogues
<input checked="" type="checkbox"/> Pointed Observations <input checked="" type="checkbox"/> Exposures <input checked="" type="checkbox"/> EPIC Exposures <input checked="" type="checkbox"/> OM Exposures <input checked="" type="checkbox"/> RGS Exposures <input checked="" type="checkbox"/> Proposals <input checked="" type="checkbox"/> Publications	<input checked="" type="checkbox"/> EPIC PPS Sources <input checked="" type="checkbox"/> OM PPS Sources	<input checked="" type="checkbox"/> Slew Observations <input checked="" type="checkbox"/> Slew Exposures	<input checked="" type="checkbox"/> EPIC Source Catalogue <input checked="" type="checkbox"/> OM Source Catalogue <input checked="" type="checkbox"/> Slew Source Catalogue

☒ Select All

Validating Equatorial Coordinates contained in file 'AndyWR_RADec.list'. Please wait...

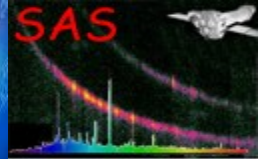
100 entries found

File validated. Click now on the Submit button to proceed

[Reset Form](#)

[Catalogue Search >](#)





AIO system for direct data download

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AIO System

AIO

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3. ACCESS USING URL's

4. ACCESS USING AIO CLIENT

Download AIO client

2. AIO USAGE

The AIO can be accessed in two modes: directly from the URL (see section 3: ACCESS USING URL's), or using a command line client (see section 4: ACCESS USING AIO CLIENT)

The params are the same for the different access modes, which are the following:

Parameter name(s)	Description	Mandatory?	Expression	Possible values
obsno	Observation ID	YES	PPPPPPPOOLL	PPPPPP: Incremental number given by the Mission Planning DB OO: observation number inside proposal LL: exposure number within observation
instname	Instrument or data source ID	NOT	II	OM: Optical Monitor R1: RGS1 R2: RGS2 M1: EMOS1 M2: EMOS2 PN: EPIC PN CA: Catalogue Cross Correlation OB: Observation Summary
expflag	Exposure Flag	NOT	U	S: Scheduled U: Unscheduled X: Not applicable
expno	Exposure number within observation	NOT	EEE	Any integer value
name	Product type	NOT	TTTTT	Specify any of the 67 different Product types, as they appear in the file name within the PPS Products. E.g.: - SCOLIM: EPIC Three colour image - ATTSR: Attitude time series - EVENLI - SBSPEC - EXPMAP - SRCARF -
datasubsetno	Data subset number	NOT	S	Any integer value
sourceno	Source number	NOT	XXX	Any HEX value
extension	File format	NOT	ZZZ	ASC: ASCII ASZ: Compressed ASCII FITZ: Compressed FITS HTML: HTML IND: Index PDF: Acrobat PNG: PNG (Graphics)
level	Download level	NOT	AAA	PPS: Pipeline Processed Products ODF: the whole ODF set PPS_SRC: Source Specific Products (as of 24 Feb 2003)

Please note that:

- Order does NOT matter.
- String inputs do NOT have quotes.
- If the parameter 'level' is not specified, it will always return both the ODF and the PPS files (default).
- For users of previous XSA versions (up to 7.1): the name of the params have been kept exactly the same in order to have the minimum impact in already existing scripts.
- Replacing the old URL up to the '?' (<http://xsa.esac.esa.int/aio/js/product.jsp?>) by the new XSA URL (<http://nasa.esac.esa.int/nasa-si/service/data-action-aio?>) should return the same result.

3. ACCESS USING URL's

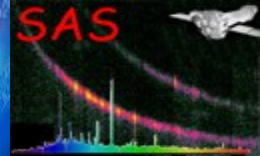
Basic case: Retrieve ODF and PPS for a given observation:

<http://nasa.esac.esa.int/nasa-si/service/data-action-aio?obsno=0144090201>

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v8.2.1 (03-Mar-2014 15:31)

xmm-newton

Nora Loiseau



Direct data download via URL

- ❖ Retrieve ODF and PPS for a given observation:

<http://nxsa.esac.esa.int/nxsa-sl/servlet/data-action-aio?obsno=0144090201>

- ❖ Retrieve ODF only:

<http://nxsa.esac.esa.int/nxsa-sl/servlet/data-action-aio?obsno=0144090201&level=ODF>

- ❖ Retrieve PPS only:

<http://nxsa.esac.esa.int/nxsa-sl/servlet/data-action-aio?obsno=0144090201&level=PPS>

- ❖ Retrieve all files for a given instrument (MOS1):

<http://nxsa.esac.esa.int/nxsa-sl/servlet/data-action-aio?obsno=0144090201&instname=M1>

- ❖ Retrieve all fits PPS files for a given instrument (MOS2):

<http://nxsa.esac.esa.int/nxsa-sl/servlet/data-action-aio?obsno=0144090201&extension=FTZ&instname=M2&level=PPS>

- ❖ Retrieve all files for a specific exposure (S402) -> flag (S-scheduled) and exp number (402):

<http://nxsa.esac.esa.int/nxsa-sl/servlet/data-action-aio?obsno=0505720401&expflag=S&expno=402&level=PPS>

- ❖ Retrieve all specific file type (IMAGE_ files) for a given observation:

http://nxsa.esac.esa.int/nxsa-sl/servlet/data-action-aio?obsno=0505720401&name=IMAGE_&level=PPS

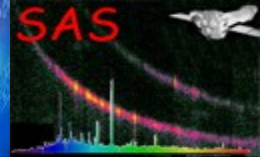
- ❖ Retrieve proprietary data, in this case an ODF (where PPPPPPOOOO is the proprietary Observation ID, and replace <username> and <pwd> by the privileged user/password):

<http://nxsa.esac.esa.int/nxsa-sl/servlet/data-action-aio?obsno=PPPPPPPOOOO&level=ODF&AIUSER=<username>&AIOPWD=<pwd>>

- ❖ Retrieve FTZ spectra files for source number is 001:

<http://nxsa.esac.esa.int/nxsa-sl/servlet/data-action-aio?obsno=0505720401&sourceno=001&name=SRSPEC&extension=FTZ>

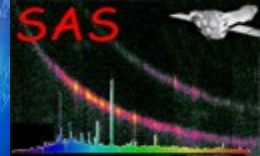




Command line data download

- ❖ Download and untar aioclient files from <http://nxsa.esac.esa.int/nxsa-web/#aio>
 - > tar -xvf aioclient.tar
- ❖ Go to the directory where the AIO client has been extracted:
 - > cd nxsa-cl-aioclient-8.2/
- ❖ Add execute permission to “aioclient” :
 - > chmod u+x aioclient
- ❖ The parameters accepted are the same as the ones of the direct URL access. The command line form is:
 - > ./aioclient -L "GET obsno=<obsId> [<param1>=<value1>] ... [<paramN>=<valueN>]" [-O <output DIR>][[-prop]
- ❖ Examples:
 - > ./aioclient -L "GET obsno=0701381101 level=PPS"
 - > ./aioclient -L "GET obsno=0112570401 instname=M1 name=IMAGE_extension=PNG"
- ❖ For proprietary data one has to previously define the login parameters:
 - For C shell: > setenv AIOUSER your_xsa_user
 - > setenv AIOPWD your_xsa_pwd
 - For bash: > export AIOUSER=your_xsa_user
 - > export AIOPWD=your_xsa_pwd
- > ./aioclient -L "GET obsno=0741330101 level=PPS" -prop





ODF data for hands-on sessions - Three options:

1. Use your own data

2. Download your favorite data from the XSA Archive

<http://xmm.esac.esa.int/xsa/>

a) Using XSA interface:

<http://nxsa.esac.esa.int/nxsa-web/#search>

b) Direct download:

i) via URL:

<http://xsa.esac.esa.int:8080/aio/jsp/product.jsp?obsno=0112570401&level=ODF>

ii) via aioclient commands:

`./aioclient -L "GET obsno=0701381101 level=ODF"`

3. Use provided ODFs (by E. Ojero)

