

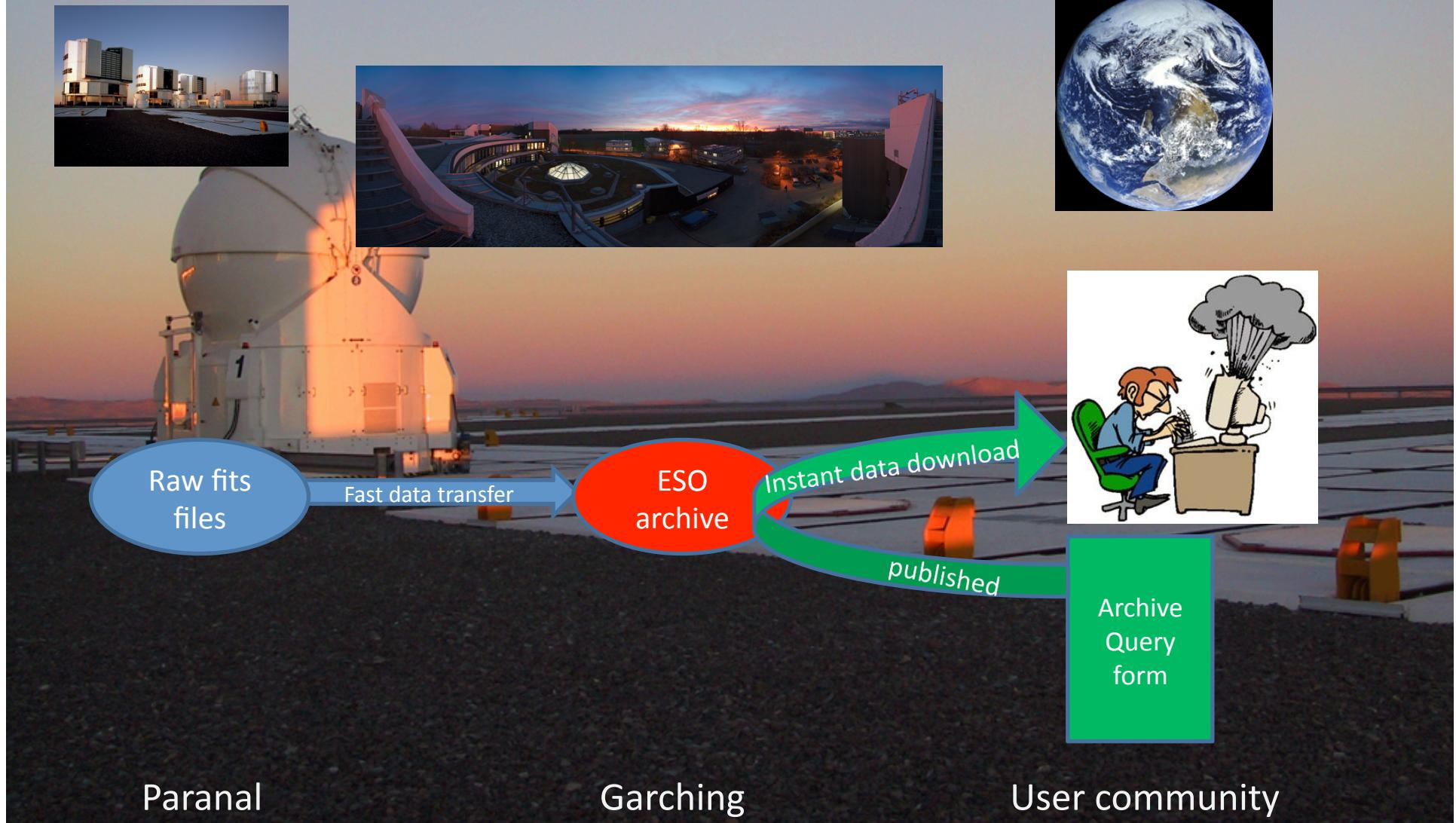
Archive current and future services

focus on data (raw and processed) delivery

- The archive services:
 - Retrieval of the data : science and instrument specific forms
 - Fast data transfer from Paranal
 - Instant data download for the user
- The future archive services



Data transfer



Data retrieval

- Science archive facility: <http://archive.eso.org/cms/eso-data>

[Home](#) → ESO Data

[Home](#)
[Data Portal](#)
[ESO Data](#)
[Raw Data Query Form](#)
[Reduced Data Query Form](#)
[Instrument Specific Query Forms](#)
[PI Packages](#)
[Observation Schedule](#)
[Ambient Conditions Database](#)
[User Publications](#)
[Data Direct Retrieval](#)
[Data Products](#)
[Hubble Space Telescope Data](#)
[Virtual Observatory Tools](#)
[Catalogues, Plates & DSS](#)
[Tools & Documentation](#)
[Related External Services](#)
[ESO & HST Image Galleries](#)
[ESO Archive News](#)
[FAQ](#)

Warning!

Due to scheduled maintenance, there will be disruption of archive services on Tue 25 Oct 2011 starting at 08:00hrs CEST followed by complete unavailability from 12:00hrs to 18:00hrs. Full services won't be guaranteed before Thu 27 Oct 2011. We apologize for any inconvenience this may cause.

EURO VO

VirGO
Stellarium

Welcome to the ESO Science Archive Facility

Except for a few special cases, ESO data are world-wide available and can be requested after the proprietary period by the astronomical community. Please read the official [ESO data access policy](#).

Contents of the ESO Archive

- All raw observations performed at the La Silla Paranal Observatory on the NTT, MPG-ESO 2.2m, ESO 3.6m, VLT/VLT and APEX telescopes.
- The raw data from the UKIRT Infrared Deep Sky Survey (UKIDSS) taken with the Wide Field Infrared Camera (WFCAM). Per agreement between ESO and the United Kingdom, these data are made available to the astronomers from the ESO member states. Please note that WFCAM data stored in the ESO archive are tile-compressed.
- Various data products:
 - Data from the commissioning and science verification/demonstration phases, see the [ESO science activities page](#) or the archive [list of data packages](#).
 - Data from the ESO Imaging Survey and other projects, see the [list of data packages](#).
 - Advanced Data Products, see the [data release overview page](#) and the [data product submission guidelines](#).

Science data are stored in the archive together with the calibration and auxiliary data. Find out more about the [ESO optical and infrared instrumentation](#) and the [APEX submillimeter instrumentation](#).

ESO Archive Browsers

To search and retrieve ESO data, use one of the following archive browsers:

- [Raw data query form](#), a unified and observatory-oriented access to the ESO collection of raw data for astronomers with no previous experience with ESO instruments.
- [Reduced data query form](#), a unified and science-oriented access to the ESO collection of historical advanced data products.
- Query interfaces for ESO data products collected through the [Phase 3 process](#) since April 2011:
 - Generic Data Products
 - Imaging Data Products
 - VISTA Data Products
- [VirGO](#), the next generation visual archive browser.
- [Instrument specific query forms](#) (for raw data only), several instrument specific and technically-oriented access points to the ESO archive for astronomers already well familiar with ESO instrument setups and observing strategies.

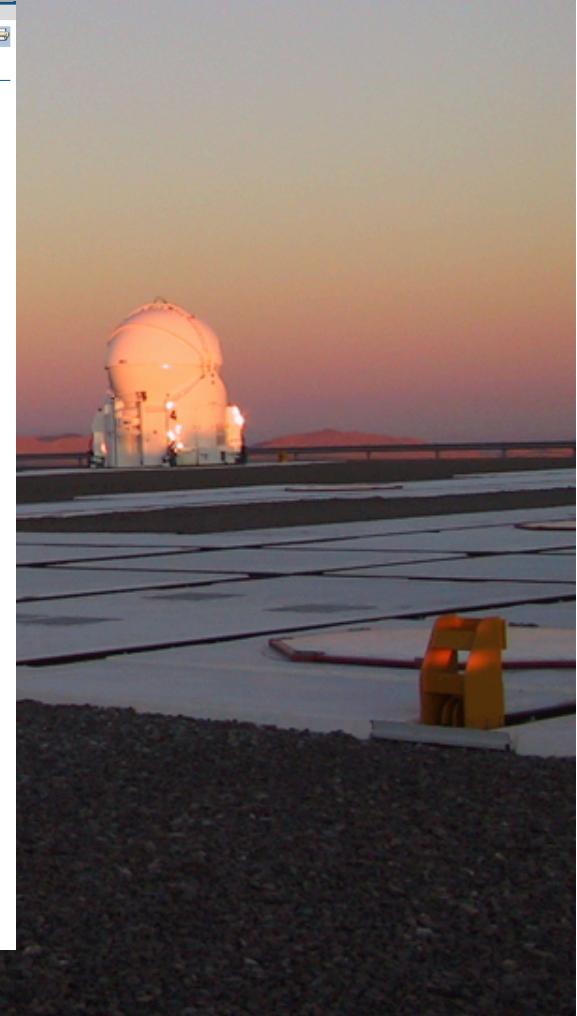
To monitor the progress of your data requests, use the [archive request status tool](#). A section on [Frequently Asked Questions](#) provides additional guidance on the use of the ESO/ST-ECF Science Archive Facility.

Additional Query Forms

- [Observation schedule query form](#)
- [Ambient conditions database](#), includes nightly measurements of environmental parameters at La Silla and Paranal observatory sites.
- [ESO data-based refereed publications](#) are recorded in the so-called ESO Telescope Bibliography database. It is compiled by scanning the major astronomical journals for scientific papers based on data obtained with ESO telescopes. The ESO Telescope Bibliography can also be queried through a filter at the NASA ADS from which active links are provided to the ESO Archive. Just follow the D-links ("On-line Data"). Unlike the ESO interface, however, ADS does not cater for queries limited to specific telescopes or instruments, and therefore the entire database is searched. Lists derived from the ESO Telescope Bibliography are printed as an Annex to the ESO Annual Report.
- [Data direct retrieval form](#) (for raw data only)

Registration and Acknowledgments

To request data one has to register to the [ESO User Portal](#). Please [acknowledge](#) the use of archive data in your publications.



Instrument Specific forms

The screenshot shows a web browser displaying the ESO Science Archive Facility website. The URL in the address bar is archive.eso.org/cms/eso-data/instrument-specific-query-forms. The page title is "Science Archive Facility".

The left sidebar contains a navigation menu with links to various ESO services and data portals. A red circle highlights the "Instrument Specific Query Forms" link under the "Data Portal" section.

The main content area displays a query form for the AMBER instrument. The form includes sections for "Instrument Specific Information", "Ambient Parameters", and a "Result set".

Instrument Specific Information:

- OBS.TARG.NAME..... : [text input]
- DPR.CATG..... : [dropdown] Any data category (e.g. CALIB)
- DPR.TYPE..... : [dropdown] Any Request all interferometry files
- DPR.TECH..... : [dropdown] Any observation technique (e.g. INTERFEROMETRY)
- TPL.NAME..... : [text input] AMBER template name
- TPL.NEXP..... : [text input] total number of exposures within the template
- TPL.START..... : [text input] starting time of template (UT)

Ambient Parameters:

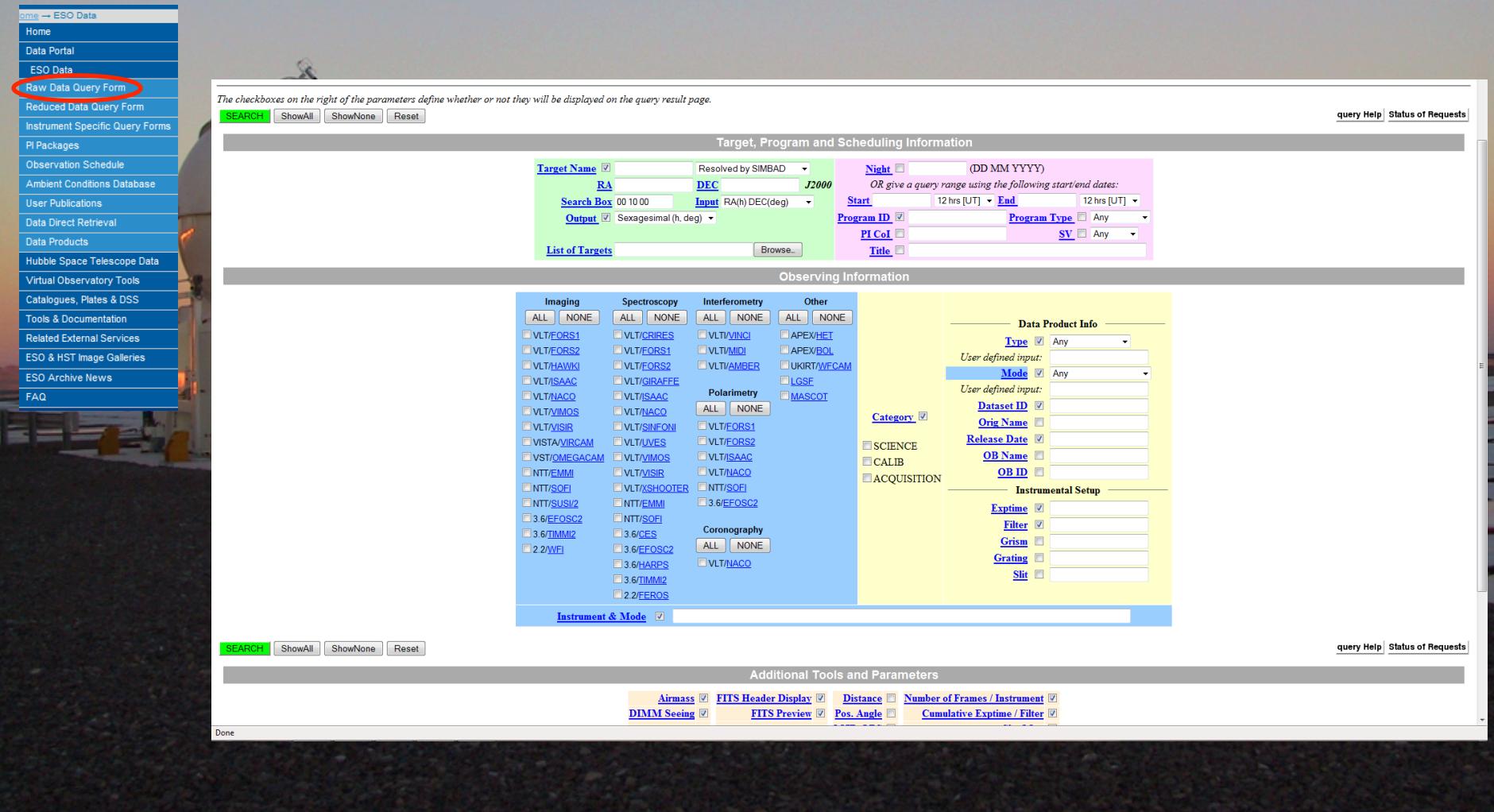
- DIMM S-avg..... : [text input] DIMM Seeing average over the exposure (FWHM at 0.5μm)
- Airmass..... : [text input] +/- 0.1
- Night?..... : [dropdown] Any Night Exposure ?
- Moon Illu..... : [text input] Moon Illumination during the exposure (percentage, negative when moon below the horizon)

Result set:

- Sort by..... : [dropdown] nothing (faster)

Warning!

Science query form



The screenshot shows a science query form interface with a sidebar menu and various search panels.

Left Sidebar (Home ESO Data):

- Home
- Data Portal
- ESO Data
- Raw Data Query Form** (highlighted with a red oval)
- Reduced Data Query Form
- Instrument Specific Query Forms
- PI Packages
- Observation Schedule
- Ambient Conditions Database
- User Publications
- Data Direct Retrieval
- Data Products
- Hubble Space Telescope Data
- Virtual Observatory Tools
- Catalogues, Plates & DSS
- Tools & Documentation
- Related External Services
- ESO & HST Image Galleries
- ESO Archive News
- FAQ

Search Buttons: SEARCH, ShowAll, ShowNone, Reset.

Target, Program and Scheduling Information:

Target Name: Resolved by SIMBAD

RA: DEC: (DD MM YYYY)
Search Box: 00 10 00 Input: RA(h) DEC(deg)
Output: Sexagesimal (h, deg)

Night: OR give a query range using the following start/end dates:
Start: End:

Program ID: Program Type: Any
PI Col: SV: Any
Title:

[List of Targets](#)

Observing Information:

Imaging: VLT/FORS1, VLT/FORS2, VLT/HAWK-I, VLT/ISAAC, VLT/NACO, VLT/VIMOS, VLT/VISIR, VISTA/VIRCAM, VST/OMEGACAM, NTT/EMMI, NTT/SOFI, NTT/SUSI/2, 3.6/EFOSC2, 3.6/TMIM2, 2.2/WFI, 2.2/FEROS

Spectroscopy: VLT/CRIRES, VLT/FORS1, VLT/GIRAFFE, VLT/SAAC, VLT/VAC, VLT/VIMOS, VLT/VISIR, VLT/INTEGRAL, VLT/UVES, VLT/SAAC, VLT/VIMOS, VLT/VISIR, VLT/XSHOOTER, NTT/MMI, 3.6/EFOSC2, 3.6/CE5, 3.6/EFOSC2, 3.6/HARPS, 3.6/TMIM2, 2.2/FEROS

Interferometry: VLT/VINCI, VLT/MIDI, VLT/AMBER, VLT/VISIR, VLT/INTEGRAL, VLT/UVES, VLT/VIMOS, VLT/VISIR, VLT/XSHOOTER, NTT/MMI, 3.6/EFOSC2, 3.6/CE5, 3.6/EFOSC2, 3.6/HARPS, 3.6/TMIM2, 2.2/FEROS

Other: APEX/HEAT, APEX/BOL, UKIRT/WFCAM, LGSF, MASCOT

Polarimetry: ALL, NONE

Coronagraphy: ALL, NONE

Data Product Info:

Type: Any
User defined input:
Mode: Any
User defined input:
Dataset ID:
Orig Name:
Release Date:
OB Name:
OB ID:

Instrumental Setup:

Exptime:
Filter:
Grism:
Grating:
Slit:

Additional Tools and Parameters:

Airmass: FITS Header Display: Distance: Number of Frames / Instrument:
DIMM Seeing: FITS Preview: Pos. Angle: Cumulative Exptime / Filter:

SEARCH, ShowAll, ShowNone, Reset.

Done

Instant download

The screenshot shows the ESO Archive Requests interface. On the left, a sidebar menu includes options like ESO Home, User Portal, Contact, Site Map, and Search. The main content area displays Request #12,693 by Isabelle Percheron, specifically for the dataset SAF. A table lists two files: AMBER.2006-02-09T06:06:11.485.fits.Z and AMBER.2006-02-09T06:10:01.085.fits.Z. Both files are selected, and the "Download Selected" button is visible. Below this, a note mentions a UNIX/Linux Shell script for command-line download. A modal window titled "ESO Download Manager - Request 12693 - Mozilla Firefox" is open, showing the progress of the download. It lists the two files with their current status as "Completed". The download speeds are 10.7MB/s and 11.9MB/s respectively. The total download size is 72.4MB.

Select	Dataset	File	Size	Access
<input checked="" type="checkbox"/>	SAF+AMBER 2006-02-09T06:06:11.485	AMBER.2006-02-09T06:06:11.485.fits.Z	37.3MB	✓
<input checked="" type="checkbox"/>	SAF+AMBER 2006-02-09T06:10:01.085	AMBER.2006-02-09T06:10:01.085.fits.Z	35.0MB	✓

Requested Datasets
UNIX/Linux Shell script if you prefer command line download of complete request: [downloadRequest12693script.sh](#)

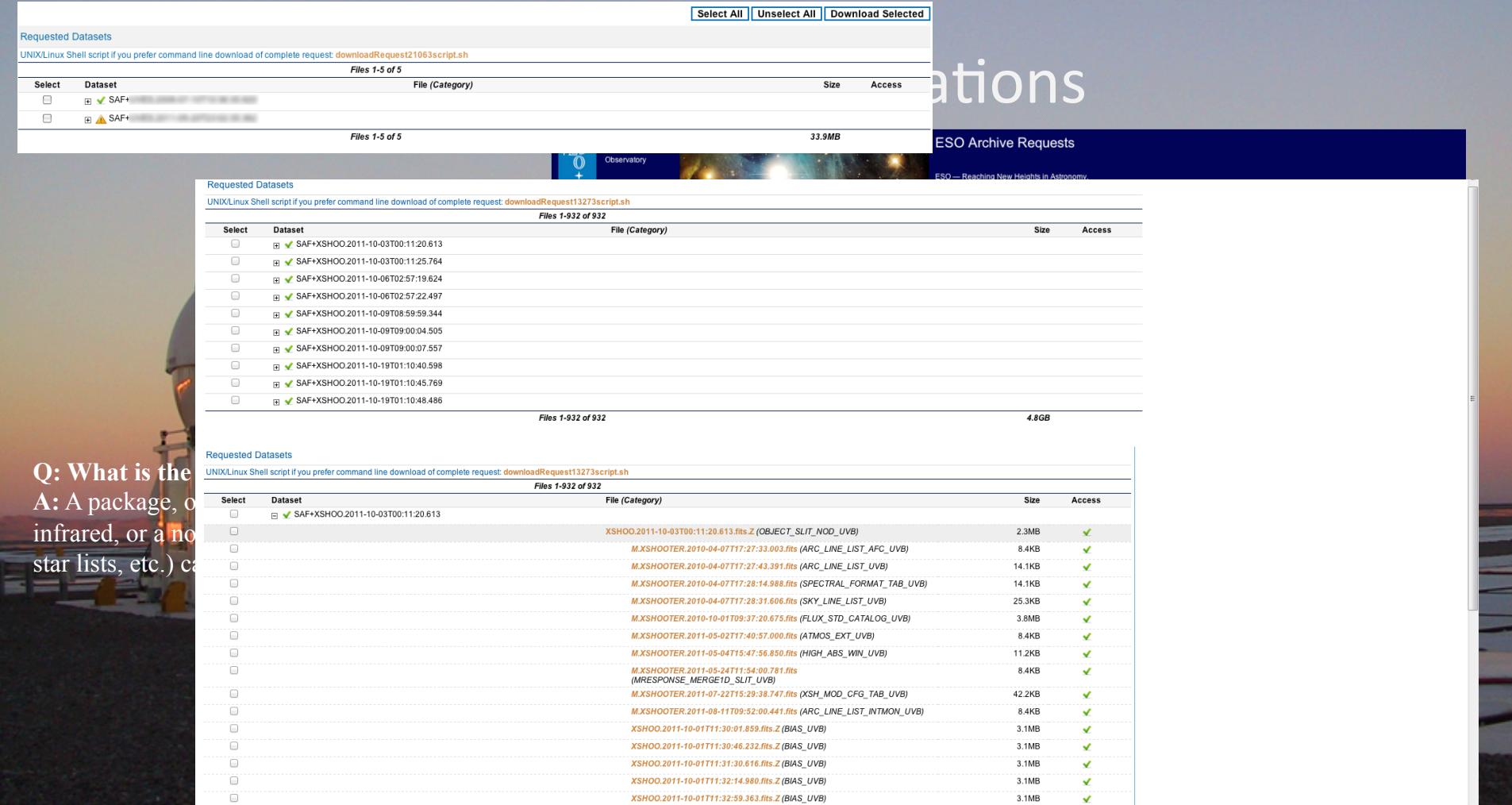
Files 1-2 of 2

Filename	Status	Progress
AMBER.2006-02-09T06_06_11.485.fits.Z	Completed	100% - 37.3MB of 37.3MB, 10.7MB/s
AMBER.2006-02-09T06_10_01.085.fits.Z	Completed	100% - 35.0MB of 35.0MB, 11.9MB/s

14:59:58 AMBER.2006-02-09T06_06_11.485.fits.Z Queued ---> 14:59:58 Downloading
14:59:58 AMBER.2006-02-09T06_10_01.085.fits.Z Queued ---> 14:59:58 Downloading
14:59:58 AMBER.2006-02-09T06_10_01.085.fits.Z Downloading ---> 15:00:00 Completed 35.0MB 11.9MB/s
14:59:58 AMBER.2006-02-09T06_06_11.485.fits.Z Downloading ---> 15:00:01 Completed 37.3MB 10.7MB/s

Retry failed | Pause all | Speed: 0.0bytes/s | Completed 2 of 2 files, failed 0 | 72.4MB of 72.4MB | Conc. Downloads 1.5 | 2 | ESO download manager started

New archive service



The background of the slide features a photograph of a large astronomical telescope dome, likely at the ESO Paranal Observatory, set against a backdrop of a setting or rising sun.

Requested Datasets
UNIX/Linux Shell script if you prefer command line download of complete request: [downloadRequest13273script.sh](#)

Files 1-5 of 5

Select	Dataset	File (Category)	Size	Access
<input type="checkbox"/>	<input checked="" type="checkbox"/> SAF+ SAF+ SAF+			
<input type="checkbox"/>	<input checked="" type="checkbox"/> SAF+ SAF+ SAF+			

Requested Datasets
UNIX/Linux Shell script if you prefer command line download of complete request: [downloadRequest13273script.sh](#)

Files 1-932 of 932

Select	Dataset	File (Category)	Size	Access
<input type="checkbox"/>	<input checked="" type="checkbox"/> SAF+XSHOO.2011-10-03T00:11:20.613			
<input type="checkbox"/>	<input checked="" type="checkbox"/> SAF+XSHOO.2011-10-03T00:11:25.764			
<input type="checkbox"/>	<input checked="" type="checkbox"/> SAF+XSHOO.2011-10-06T02:57:19.624			
<input type="checkbox"/>	<input checked="" type="checkbox"/> SAF+XSHOO.2011-10-06T02:57:22.497			
<input type="checkbox"/>	<input checked="" type="checkbox"/> SAF+XSHOO.2011-10-09T08:59:59.344			
<input type="checkbox"/>	<input checked="" type="checkbox"/> SAF+XSHOO.2011-10-09T09:00:04.505			
<input type="checkbox"/>	<input checked="" type="checkbox"/> SAF+XSHOO.2011-10-09T09:00:07.557			
<input type="checkbox"/>	<input checked="" type="checkbox"/> SAF+XSHOO.2011-10-19T01:10:40.598			
<input type="checkbox"/>	<input checked="" type="checkbox"/> SAF+XSHOO.2011-10-19T01:10:45.769			
<input type="checkbox"/>	<input checked="" type="checkbox"/> SAF+XSHOO.2011-10-19T01:10:48.486			

Requested Datasets
UNIX/Linux Shell script if you prefer command line download of complete request: [downloadRequest13273script.sh](#)

Files 1-932 of 932

Select	Dataset	File (Category)	Size	Access
<input type="checkbox"/>	<input checked="" type="checkbox"/> SAF+XSHOO.2011-10-03T00:11:20.613	XSHOO.2011-10-03T00:11:20.613.fits.Z (OBJECT_SLIT_NOD_UVB)	2.3MB	✓
<input type="checkbox"/>		MXSHOOTER.2010-04-07T17:27:33.003.fits (ARC_LINE_LIST_AFC_UVB)	8.4KB	✓
<input type="checkbox"/>		MXSHOOTER.2010-04-07T17:27:43.391.fits (ARC_LINE_LIST_UVB)	14.1KB	✓
<input type="checkbox"/>		MXSHOOTER.2010-04-07T17:28:14.988.fits (SPECTRAL_FORMAT_TAB_UVB)	14.1KB	✓
<input type="checkbox"/>		MXSHOOTER.2010-04-07T17:28:31.606.fits (SKY_LINE_LIST_UVB)	25.3KB	✓
<input type="checkbox"/>		MXSHOOTER.2010-10-01T09:37:20.675.fits (FLUX_STD_CATALOG_UVB)	3.8MB	✓
<input type="checkbox"/>		MXSHOOTER.2011-05-02T17:40:57.000.fits (ATMOS_EXT_UVB)	8.4KB	✓
<input type="checkbox"/>		MXSHOOTER.2011-05-04T15:47:56.850.fits (HIGH_ABS_WIN_UVB)	11.2KB	✓
<input type="checkbox"/>		MXSHOOTER.2011-05-24T11:54:00.791.fits (MRSPONSE_MERGEID_SLIT_UVB)	8.4KB	✓
<input type="checkbox"/>		MXSHOOTER.2011-07-22T15:29:38.747.fits (XSH_MOD_CFG_TAB_UVB)	42.2KB	✓
<input type="checkbox"/>		MXSHOOTER.2011-08-11T09:52:00.441.fits (ARC_LINE_LIST_INTMON_UVB)	8.4KB	✓
<input type="checkbox"/>		XSHOO.2011-10-01T11:30:01.859.fits.Z (BIAS_UVB)	3.1MB	✓
<input type="checkbox"/>		XSHOO.2011-10-01T11:30:46.232.fits.Z (BIAS_UVB)	3.1MB	✓
<input type="checkbox"/>		XSHOO.2011-10-01T11:31:30.616.fits.Z (BIAS_UVB)	3.1MB	✓
<input type="checkbox"/>		XSHOO.2011-10-01T11:32:14.980.fits.Z (BIAS_UVB)	3.1MB	✓
<input type="checkbox"/>		XSHOO.2011-10-01T11:32:59.363.fits.Z (BIAS_UVB)	3.1MB	✓

Select All **Unselect All** **Download Selected**

Observatory **ESO — Reaching New Heights in Astronomy.**

Evolution of the archive services

(data and PI pack delivery)

- Instant download makes optical disks obsolete
- CalSelector makes PI Packs largely obsolete
 - Raw to raw associations
 - Generation of quick look science products discontinued

