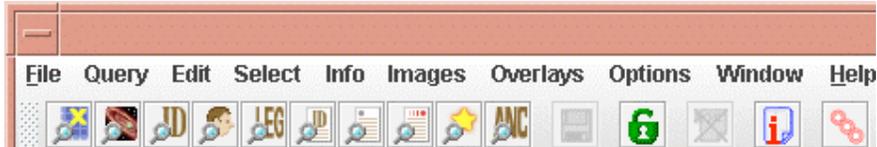


# Leopard - The Spitzer Data Archive Tool



Leopard is a client-server multi-platform software tool designed to be the only tool you need to access data from the Spitzer Data Archive. In Leopard you can access public datasets, including the First Look Survey (FLS) and original Legacy Programs. Via Leopard you can login to the Archive and access your proprietary data, when they are available. Archive Query results are listed by Astronomical Observation Requests (AORs). You can use Leopard to list details of an observing program, see the program target list, and visualize the field Spitzer observed. The raw, BCD, and post-BCD data corresponding to an AOR can be downloaded to your local disk.



## Basic Components of Leopard:

- **Help** Full 'online' help packaged with Leopard.
- **Query**
  - by Position
  - by Program
  - by AOR ID
  - by campaign/observer
  - for FLS/Legacy Programs
  - by AOR ID list
  - by Position list
  - by NAIF IDs list
  - for Popular Products
  - for Ancillary Data.
- **AOR Management**. Delete highlighted AORs in the Archive Query Results.
- **Detail Information, List of Targets**. Obtain details from a highlighted AOR about a specific observing program, including AOR parameters, program description, size of available data, and BCD list. See the observed target list.
- **Login to the Spitzer Archive** (username and password required). Not necessary for non-proprietary data.
- **Save data to your local disk, or stage data on our ftp site**, after selecting which wavelengths and types of data you want.
- **Images Overlays** **Visualization**. Download and display images, and visualize the field observed in an AOR. Overlay catalogs, images, etc, just like in Spot.
- **Options** **Options**. Auto-update Leopard (get new versions automatically when selected -- this is recommended). Disk cache preferences are selectable too.
- - Partially Queued (see tip)**
  - Fully Queued (see tip)**
  - Partially Downloaded (see tip)**
  - Fully Downloaded (see tip)**Monitor the progress of your data download.

# Leopard – The Spitzer Data Archive Tool



**Leopard**

File Query Edit Select Info Images Overlays Options Window Help ← Main Toolbar

← Shortcut Icons

Archive Query Results

Observation status

**Astronomical Observation Requests (AORs)**

Click on column header to sort column contents

| Instrument   | Label             | Target      | Key     | Position   | Retrieve Wave length | Status  | Version | Sched... | Relea... | Preview         |
|--------------|-------------------|-------------|---------|------------|----------------------|---------|---------|----------|----------|-----------------|
| IRAC Mapping | P00026: FLS-IR... | FLS-CVZ-ver | 7676928 | 17h17m0... | 3... 4... 5... 8...  | nominal | S15.0.4 | 12-5-03  | 05-11-04 | 3.6 4.5 5.8 8.0 |
| IRAC Mapping | P00026: FLS-IR... | FLS-CVZ-ver | 7677184 | 17h17m0... | 3... 4... 5... 8...  | nominal | S15.0.4 | 12-5-03  | 05-11-04 | 3.6 4.5 5.8 8.0 |

Unique AOR label      Target Name      Target Position      Wavelengths to be retrieved

Unique AOR ID or Key      Unique AOR ID or Key      Wavelengths to be retrieved

Dataset being downloaded

Retrieved – 0 of 1

| File                                      | Size           | Time    | Progress          |
|---|----------------|---------|-------------------|
| P00026- FLS-IRAC-ver1a.zip (1 of 2 parts) | 11.8M / 200.1M | 0:00:18 | 0:05:02 remaining |

Progress of dataset download by Subscriber tool to local disk

Scheduled date for AOR

Public release date for data products

Legend for data retrieval status indicators

- Partially Queued (see tip)
- Fully Queued (see tip)
- Partially Downloaded (see tip)
- Fully Downloaded (see tip)

Uncompressed Size: 0

Selected Products: 0

↑ Select AOR Wavelengths

What to download?

- Post BCD data
- BCD - Basic data
- Raw data
- Calibration data

Logged in as: General User

Net Up

Total AORs: 2 / Total Products: 0

Login name (no login necessary, i.e., "General User," for accessing non-proprietary data)

Connection to SSC servers via Internet

Data product types to be downloaded

# Leopard – The Spitzer Data Archive Tool

## Visualizing The Observations



- Click to zoom in image in active frame
- Click to zoom in on all frames (not active if only one frame is displayed)
- Click to zoom out
- Click on crosshairs to center current frame to current target's position (for fixed targets).
- Click to show current fixed target.
- Click to show coordinate grid.
- Click to create a slice from an image.
- Click to compute statistics in an area on an image.
- Click to crop image.
- Click to use distance tool.
- Click to add marks to image and create your own catalog.
- Pull down to overlay other images.

Image thumbnail with box outline showing zoomed field in frame below. Click on thumbnail to move position of zoomed image.

"Magnifier" view of image.

Display of image flux and pixel scales. Coordinates and x,y position of cursor on image. Change coordinate system display under Options on Toolbar.

Delete frame

Iconify frame

Expand frame to full size

Click to view Spitzer's pointing positions.

Click to change AOR overlay date.

Overlay layer for coordinate grid.

Click on layer box to move a layer up or down between other layers.

Click to view image header.

Click to change image color table.

Click to change image opacity.

Window Tabs (click to bring forward)

Overlay of IRAC Map AOR (6x2 grid). The two IRAC apertures are shown (blue and magenta).

Coordinate grid overlay