

## Preparing HIPE for SPIRE work

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## Intro to HIPE and Setup for SPIRE

Help and Documentation

SPIRE-specific Setup













## Intro to HIPE and Setup for SPIRE

- Help and Documentation
  - Starting the Help system
  - User Guides, Tutorials and How-Tos
  - Search
  - SPIRE Observer's Manual
- SPIRE-Specific Setup







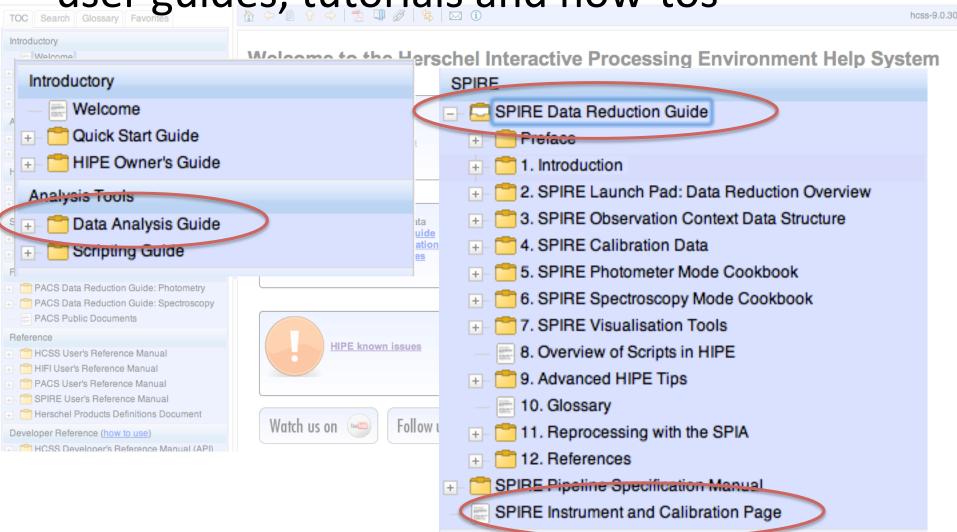




# The Help and Documentation are accessed in your web browser

- Start the *local* help system by 1 of 2 ways:
  - Menu "Help" -> Help Contents
  - Right-click on variable
    - Help in URM (Users Ref. Manual)
    - Help in DRM (Developers Ref. Manual)
- Also online at http:// herschel.esac.esa.int/hipe-doc-11.0/

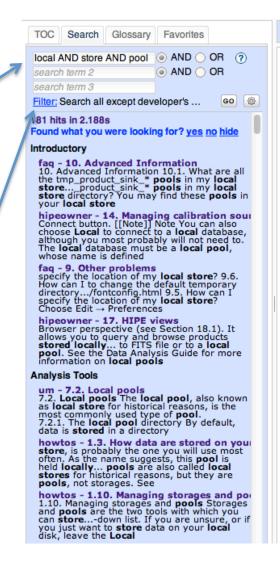
# The Help system includes user guides, tutorials and how-tos



### The Search tab allows filtering by manual

Combine terms with AND for better results

Filter by specific manuals, or "all but developer's documentation"



### 7.2. Local pools

The local pool, also known as local store for historical reasons, is the mos

#### 7.2.1. The local pool directory

By default, data is stored in a directory with the user-supplied store name

home/.hcss/lstore/

This can be changed by changing the property hcss.ia.pal.pool.ls

1. Add this line to the hipe.props file, located in the .hcss director

hcss.ia.pal.pool.lstore.dir=\${user.home}/.hcss/alter

If the hipe props file does not exist, create it.

2. Not recommended: issue the following command in the Console vi

HIPE> Configuration.setProperty("hcss.ia.pal.pool.lst

If you use the first method, the property will be set permanently. If you use reset to its original value the next time you start HIPE.

(j) Tip

The local store directory can also be a link to another directory products in a different hard disk with more space.

You can rename a local pool by renaming the corresponding c created with HCSS 4.0 or newer.

#### 7.2.2 Repairing a local pool

## The SPIRE Observer's Manual contains essential calibration information

- The Observer's Manual is <u>not</u> included in your HIPE installation
- See "Documentation" on HSC website, or the SPIRE page on NHSC site <a href="http://herschel.esac.esa.int/Docs/SPIRE/html/spire\_om.html">http://herschel.esac.esa.int/Docs/SPIRE/html/spire\_om.html</a>
- Chapter 5 (Calibration) covers several topics useful for understanding SPIRE data



### Intro to HIPE and Setup for SPIRE

Help and Documentation

- SPIRE-specific Setup
  - Setting up SPIRE calibration
  - Installing the SPIA Plug-in
  - Installing the sample data
  - Checklist document











# A few additional steps will make HIPE ready for SPIRE work

- Detailed checklist is on agenda page
- Install the calibration tree
  - From a jarfile
- Install plug-in for interactive analysis
  - SPIA 1.11
- Install workshop data pools
  - Unpack tarballs in format you'd get for ondemand reprocessing

# Import the SPIRE calibration file from the jarfile we've provided (one-time only)

- Download spire\_cal\_11\_0.jar from our site into any working directory
- Run
  cal = spireCal(jarFile="<PATH-TO-FILE>/
  spire\_cal\_11\_0.jar",saveTree=True)
- Output: Saved to pool: spire\_cal\_11\_0
- What happens:
  - pool spire\_cal\_11\_0 is created in lstore directory
  - ~/.hcss/user.props is created or modified with the spire.cal.pool property
- From now on, to load in again:

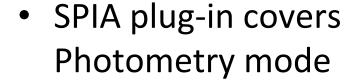
```
cal = spireCal()
```

• Output:

```
Reading from pool spire_cal_11_0
SpireCal: Calibration tree read from
spire cal 11 0
```

Plug-ins are add-on software for HIPE maintained elsewhere

 Install once, use in all HIPE versions



 CASSIS to be covered on Friday



Vindow Tools Help

Interoperability

HSA User Interface

External Tools

l Plug-ins

# Follow the checklist linked from the agenda page for SPIA

DP-SPIRE\_Aug2013\_InstallationChecklist.pdf

### Install HIPE plugin for SPIRE Photometer Interactive Analysis (SPIA)

Start up HIPE version 11.0.1

Open Tools -> Plug-ins and select "Install new plug-in"

Delete the <a href="http://">http://</a> and paste in this URL:

https://nhscsci.ipac.caltech.edu/spire/DPsoftware/spia/scripts/spia 1.11.jar

Click the "Install" button.

Now the message "Plug-in installed correctly" should pop up. (If not, please check the URL.). Click "OK".

## Unpack sample data and register observations with HIPE

- Unpack the tarfiles using Navigator view
- Find the "Saturn" icons and doubleclick to load into HIPE
- Delete the tarfiles

```
spirework
🕒 🗁 cal
Sampledata

→ bsaint_11_0_1_spirephot

   hsaint_11_0_1_spirephot
        1342187263
          1342201441
          1342202246
          1342204088

→ 1342204089

        auxiliary
         calibration
   hsaint_11_0_1_spirespec.tgz
```

# The sample data are packaged the same as if you requested HSA reprocessing

- Pools in your Istore directory
- Like HSA reprocessing with Level 3 added
- Lstore has indices only with the data in tarball directory

```
hcss
apps
data
lstore
hsaint_11_0_1_spirephot
hsaint_11_0_1_spirespec
spire_cal_11_0
standard
```



## Wishing you every success with your SPIRE data







