# Preparing HIPE for SPIRE work

David Shupe, NHSC/IPAC
on behalf of the SPIRE ICC

# Intro to HIPE and Setup for SPIRE

- Help and Documentation
- SPIRE-specific Setup

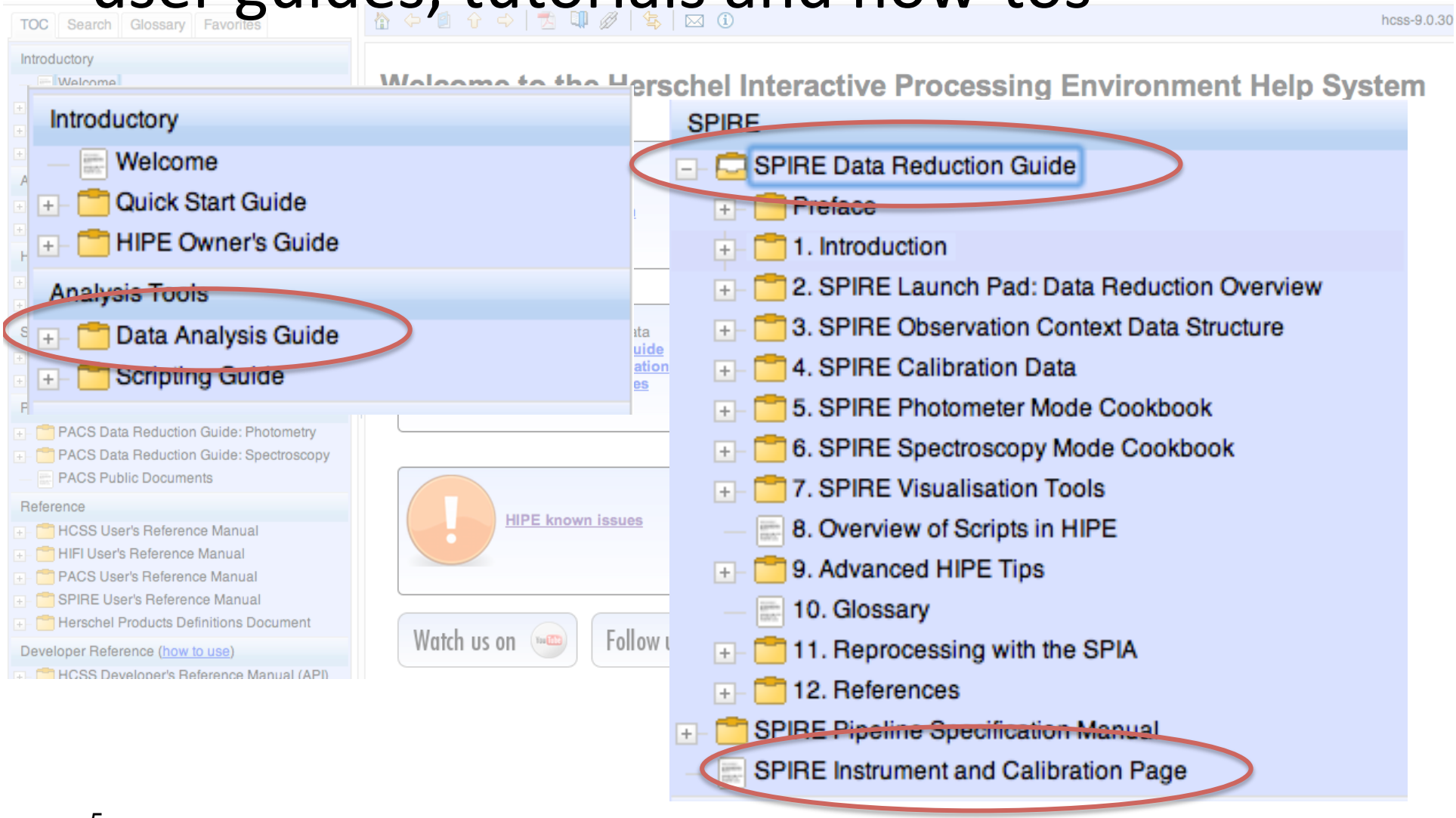
# Intro to HIPE and Setup for SPIRE

- 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/

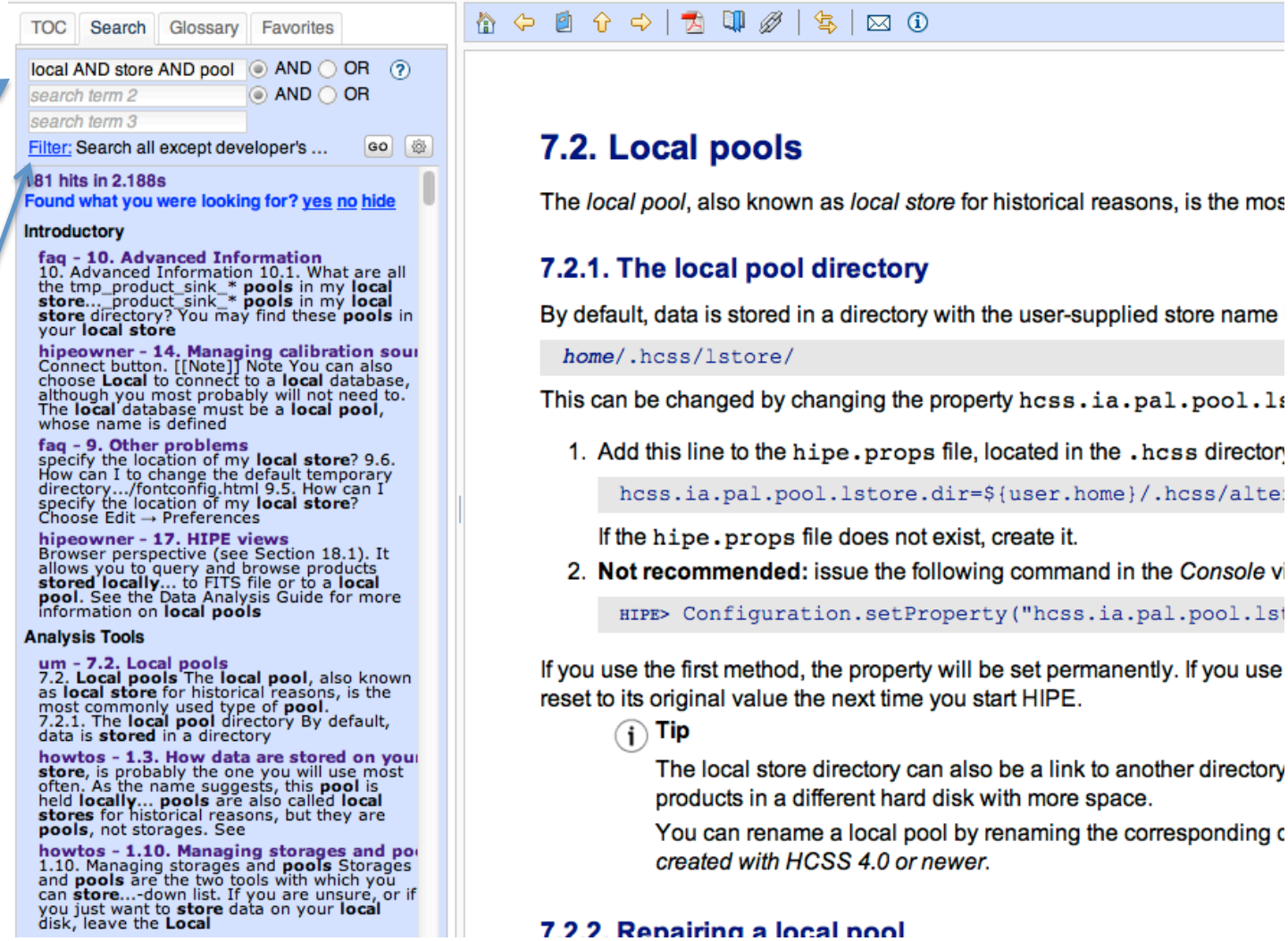
# The Help system includes user guides, tutorials and how-tos



# The Search tab allows filtering by manual

Combine terms with AND for better results

Filter by specific manuals, or “all but developer’s documentation”



# The SPIRE Observer's Manual contains essential calibration information

- The Observer's Manual is not included in your HIPE installation
- See "Documentation" on HSC website, or the SPIRE page on NHSC site
  http://herschel.esac.esa.int/Docs/SPIRE/html/spire_om.html
- 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

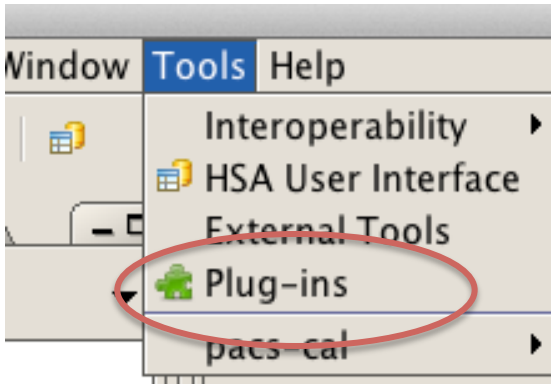
- Detailed checklist is on agenda page
- Install the calibration tree
  - From a jarfile
- Install plug-in for interactive analysis
  - SPIA 1.11
- Install workshop data pools
  - Unpack tarballs in format you'd get for on-demand reprocessing

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

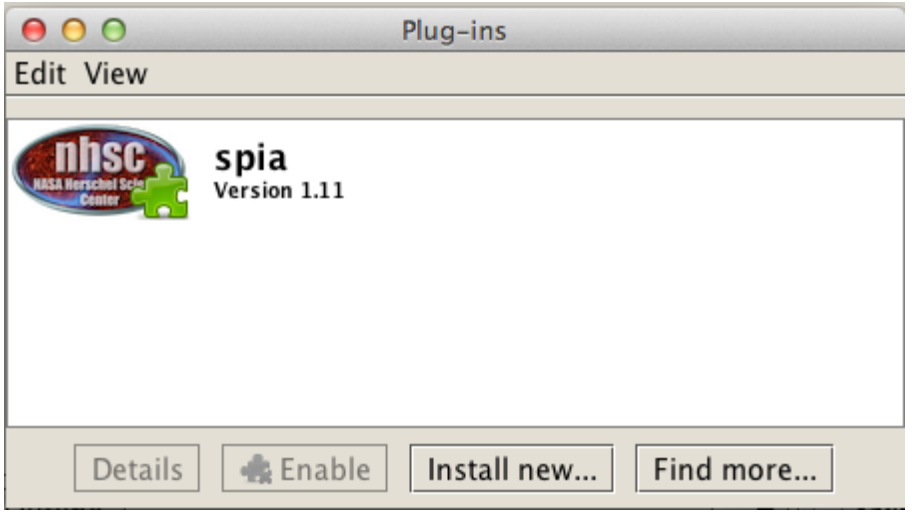
- Download **`spire_cal_11_0.jar`** from our site into any working directory
- Run
```
cal = spireCal(jarFile="<PATH-TO-FILE>/
spire_cal_11_0.jar",saveTree=True)
```
- Output: **`Saved to pool: spire_cal_11_0`**
- What happens:
  - pool **`spire_cal_11_0`** is created in lstore directory
  - **`~/.hcss/user.props`** 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




- SPIA plug-in covers Photometry mode
- CASSIS to be covered on Friday



# Follow the checklist linked from the agenda page for SPIA

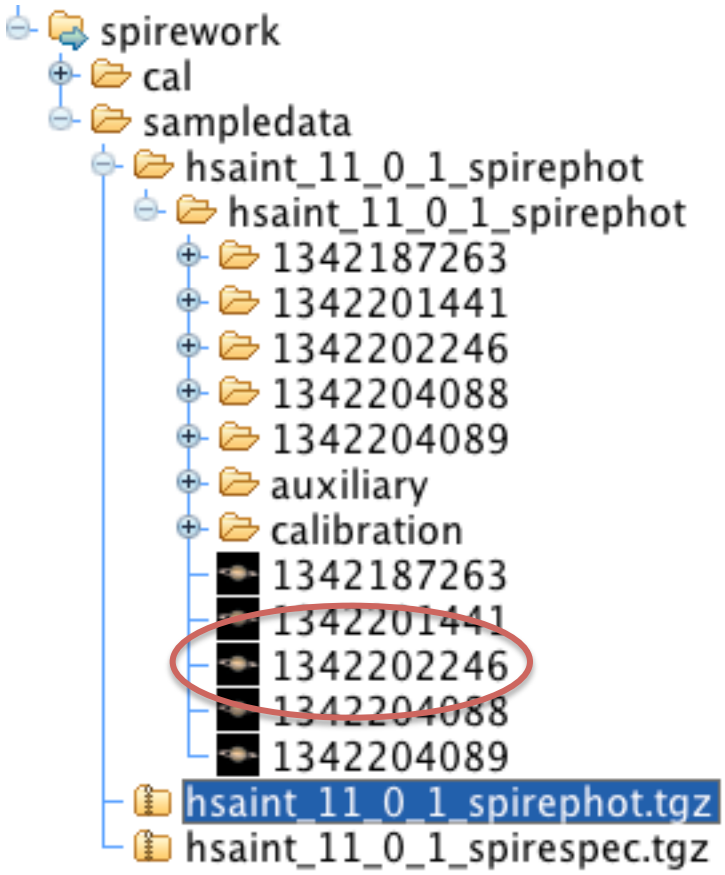
- DP-SPIRE_Aug2013_InstallationChecklist.pdf

**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 http:// 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”.

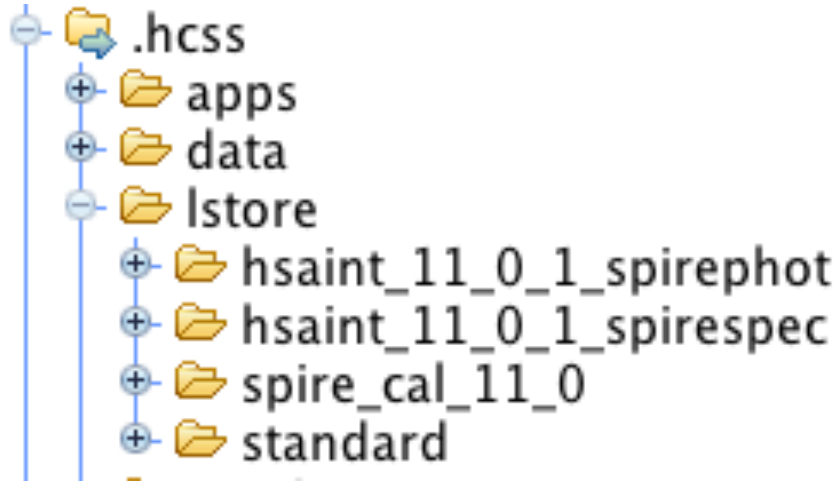
# Unpack sample data and register observations with HIPE

- Unpack the tarfiles using Navigator view
- Find the “Saturn” icons and double-click to load into HIPE
- Delete the tarfiles



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

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



# Wishing you every success with your SPIRE data