



NHSC/PACS Web Tutorials

PACS-101

How to Use these Tutorials



Introduction



- The purpose of the web tutorials is to illustrate PACS data reduction to those new to Herschel/PACS data processing.
- The tutorials are self-guided and should provide new users with enough knowledge to start reducing their PACS observations.
- The NHSC provides full support for these tutorials, via the normal communication channels.
- The tutorials are provided as an additional service to the Herschel community and are not a replacement for workshops or data schools.



Organization & Philosophy



- The tutorials walk you through specific PACS data processing tasks in a series of sequentially executed steps.
- At the end of each step, there are one or more checks one can apply to ensure that the data processing is proceeding as expected.

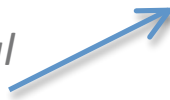


How you should use the tutorials



1. Follow the step-by-step guidelines.
 - Pay attention to the pre-requisites. The tutorials should be done in the proper sequence as described.

An example from tutorial PACS-p3 outlining the expected chain to follow for the PACS photometer scan-map processing.



Pre-requisites:

1. You should have completed the following tutorials:
 - **PACS-1:** *How to use these tutorials.*
 - **PACS-2:** *Accessing and Storing data from the Herschel Science Archive*
2. PACS photometer OBSID(s).



How you should use the tutorials



- Where relevant, we identify the appropriate documentation for the processing step.

The most relevant documentation is the PACS data reduction guides and HIPE user manual.

Details about the processing steps are found in the identified sections of said documents.

Documentation References:

- *HIPE user manual Version 1.2, chapter 3, pgs. 45-56*
- *PACS data reduction guide Version 3, Section 5.2, pg. 145*

How you should use the tutorials

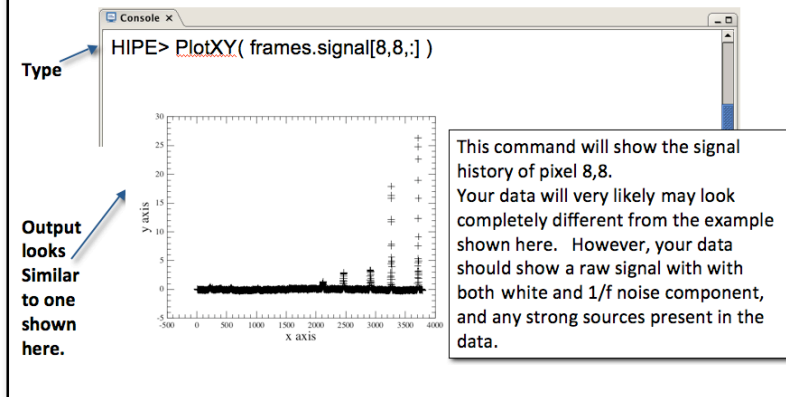
2. Execute the **checks** at the relevant breaks.

- Most require issuing a simple command in HIPE.
- More complicated checks are provided as downloadable scripts on the NHSC website

An example from tutorial PACS-p3 illustrating the check to execute and the expected result.

In the additional dialog box (bottom right) we discuss the expected outcome to allow you to discern if the particular processing step executed nominally.

Check # 6 The pipeline execute nominally (continued).





How you should use the tutorials



If the checks **pass**,

3. Continue with the tutorial

If the checks **fail**,

3. Contact the NHSC helpdesk

<http://nhsc.ipac.caltech.edu/helpdesk/index.php>

Please indicate:

- Which tutorial you are using
- Which step failed
- Included error messages and/or screen captures.
- Include details about HIPE version and the OS.