Chandra X-ray Center

AHELP for CIAO 3.4   **set_notice**   Context: sherpa

Jump to: Description Examples Bugs See Also

Synopsis

Module functions for noticing source and background filter ranges in 1–D datasets.

Syntax

```
Integer_Type set_notice([Integer_Type],Float_Type,Float_Type)
Integer_Type set_snotice([Integer_Type],Float_Type,Float_Type)
Integer_Type set_bnotice([Integer_Type],Float_Type,Float_Type)

Success/Error Return Values: 1/0

Arguments:

(1) Dataset number (default 1)

(2) The lower bound for the notice range (default no lower bound)

(3) The upper bound for the notice range (default no upper bound)
```

Description

The commands set_notice, set_snotice, and set_bnotice allow the user to specify data ranges to notice in both source and background datasets, a source dataset, or a background dataset respectively. These functions may only be applied to 1–D data. Use set_notice2d to set include regions in images.

Note that these functions work in the space given by the current ANALYSIS setting, e.g., if the setting is ENERGY, then the defined bounds are assumed to be in energy units. Note that in CIAO 3.1 set_notice will work only if instrument models for both source and background are set.

See the related Sherpa commands NOTICE and IGNORE for more information.

Example 1

Read in a PHA file with instrument; notice the data below 1 keV:

```
sherpa> () = load_dataset(1,"example.pha")
sherpa> set_notice(1,,1)
1
sherpa> ANALYSIS
Analysis Space for Dataset 1: Energy
```

Example 2

Continue Example 1, notice all data between 3 and 6 Angstroms:

```
sherpa> ANALYSIS WAVE
sherpa> set_notice(,3.0,6.0)
1
```

Example 3

Continue Example 2, now noticings all source data above 9 keV:

```
sherpa> ANALYSIS ENERGY
sherpa> set_snotice(1,9.0,)
1
```

The corresponding background data above 9 keV are still ignored.

Bugs

See the Sherpa bug pages online for an up−to−date listing of known bugs.

See Also

sherpa

> analysis, get_groups, ignore, notice, set_filter, set_groups, set_ignore, set_ignore2d, set_ignore_all, set_ignore_bad, set_notice2d, set_notice_all