



CIAO 1.1.3 Release Notes

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tgextract:

- Bug fixed that was filling the background arrays with all zeros.
- removed external references to HESF (Drake Flat) extraction -- support for this has been suppressed.
- Modified to handle ACIS + LETG
- Fixed bug in region extension output. The older version has negative wavelength in the region extension when order is negative. Also, in the older version, the y coordinate of the center of the BACKGROUND_DOWN region is wrong when order is positive.

Sherpa:

New functionality:

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1. FAKEIT allows simulation of 1-D spectra (see attached additional document for detail description).
2. XSPEC plasma emission model has been added to the model library. Two options are available: access to the new Atomic Data Base through APEC (default option 4), and to the traditional Raymond-Smith plasma (option 1)

Bug Fixes:

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1. An access to XSPEC model library on Linux has been fixed.
2. Two bug fixes included in previous 1.1.2 patch:
 - 2.1 glue.C : EFFECT: fixes bug that rendered useless the Sherpa command "record," which logs parameter values and chi-squares in a file called "search.dat." The chi-square output (val) was wrong and meaningless.
 - 2.2 histogramAxis.C : EFFECT: fixes bug that prevented 1D histogram (PHA) datasets from being fit with some filter choices, and caused the following error message to be displayed:

```
Error: A DataSet Error has been detected.
-- Internal miscount of number of rhs points.
```

The bug is seen only when a given filter range in the convolved PHA data space mapped to two or more non-contiguous filter ranges in the unconvolved RMF energy space. (Simplistic example: photons in the non-contiguous energy ranges 0.1-0.2 keV and 0.4-0.5 keV can be recorded as counts in the contiguous PHA bin range i-j, but photons between 0.2 and 0.4 keV cannot.)

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other tools:

- asphist - handle no GTI case

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URL:
http://cxc.harvard.edu/ciao3.4/releasenotes/ciao_1.1.3_release.html
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