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Last modified: 11 August 2006

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:
==================
1. FAKEIT allows simulation of 1-D spectra (see attached additional
document for detail description).

2. XSAPEC 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:
==========
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.)
```

other tools:

```
− asphist − handle no GTI case
```

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