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## Sherpa Release Notes

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** (29 Jan 2007) CIAO 3.4 for Mac OS X 10.4 on Intel has been patched to 3.4.1.1.**

- The CIAO 3.4.1.1 patch makes it possible to run all tools and applications (e.g. Sherpa and ChIPS) in CIAO 3.4 under *Mac OS X 10.4 on Intel*. Intel Mac users do not need to install the CIAO 3.4.1 patch; the CIAO 3.4.1.1 patch file is a direct upgrade to CIAO 3.4.

The CIAO software for Intel runs under Apple's Rosetta software, which is included in Mac OS X for Intel machines.

There are some performance test results of running CIAO on Intel Mac under Rosetta in the CIAO 3.4.1.1 release notes.

### Sherpa: using exposure maps when fitting image data

- The Sherpa `fexpmap2d` command does not work under Mac OS X 10.4 on PowerPC or Intel.

To load an exposure map for use in image fitting, use the `gridmodel` model in its place:

```
gridmodel[thename](emap.fits,1)
source = <source expression> * thename
```

This is equivalent to the `fexpmap2d` syntax:

```
source = <source expression>
fexpmap2d[thename](emap.fits,1)
instrument = thename
```

### Sherpa: user models

- The Sherpa user-model package (`sherpa_user.tar.gz`) has been updated to support the CIAO 3.4.1.1 release. The OS X Makefiles have been changed to allow building on Intel Mac systems.

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There was no development done on Sherpa for CIAO 3.4. The CIAO release notes contain a complete listing of changes made in this release.

Release notes for previous versions of CIAO and *Sherpa* are available from the CIAO Version History.

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