# CIAO 3: Status

- Now in final stages of testing and porting:
  - code freeze was 5/9/03
- Release anticipated: 30 June 2003
- Mac OS-X port *is* included (issue over version of X)
- New Data Model
  - More robust, cleaner design
    - -16,000 lines of code (17% smaller) ***hard to report as a metric!***
- User and CXC scripting now readily available
  - Much of the new *Sherpa* code is in S-Lang already
  - `*contamarf*` is in S-Lang

# CIAO 3: Status II

- ***Sherpa***
  - internals available via S-Lang structures- scriptable
  - 30% -10 times (2-D fitting) faster
  - Multiple responses for one source (e.g. LETG)
  - Plotting configuration

- more tools…

# CIAO 3: Status III

- CIAO3 is not just infrastructure
- GUIs
  - *peg*: graphical interface to all CIAO tools
  - *prism* histogramming, analysis menu
- Tools
  - *dmhistory*: extract history records from headers
  - *skyfov*: make a field-of-view region
  - *dmgroupreg*: use ds9 source and background region tags
    - *Kenny Glotfelty demo*
  - And timing…

# CIAO 3: Status IV

- *dmextract* upgraded to use GTIs
  - Better light curves
  - *lightcurve* now deprecated
- *apowerspectrum, acrosscorr, aconvolve*
  - now work with tables (x-axis units correctly inverted: frequency/time)
    (not just images)
- Some anticipated timing tools not in CIAO 3.0
  - Key programmer left in Jan 2003
  - Crucial stage: too late to add new person (given hiring/training cycle)
  - S-Lang versions released on contrib. page; CIAO versions to follow.
    epoch folding; Rayleigh-Z test; Z-transformed X-correlation; Lomb-Scargle periodograms