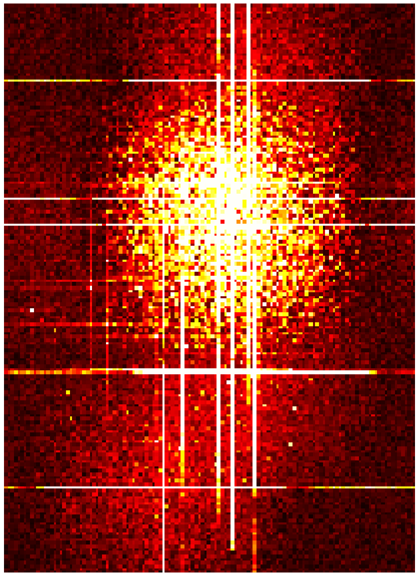
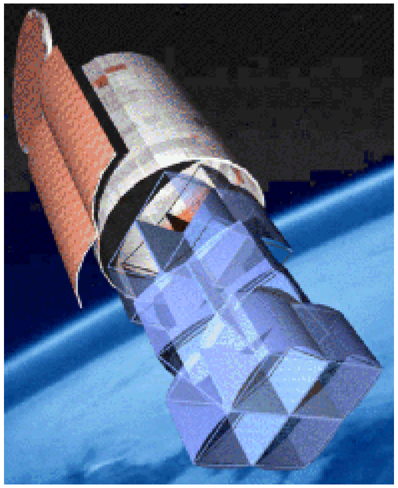
Lobster X-ray All-sky Monitor

- Exploits novel wide-field x-ray optics
- Order of magnitude improvement in sensitivity
- Sized for Pegasus launch, SMEX budget
- Equatorial orbit, contact every 90 minutes
- US-UK-Australia collaboration



Simulated 1 day exposure of Large Magellanic Cloud



Satellite concept

- Daily sensitivity 2 x 10^{-12} erg cm^{-2} s^{-1}
- Long term x-ray studies of all classes of objects
- Measure ~1000 active galactic nuclei daily
- Locate fast transients, gamma ray bursts to arc-minutes
- Detect initial flash of type II supernovae