



MIT Kavli Institute
for Astrophysics
and Space Research

HETG - Status

Chandra Quarterly Review No. 29
9 March 2010



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Ongoing HETG Team Activities Summary

- HETG Performance (Sept.'09 through Feb.'09)
 - 41 HETG obsids on 14 Science + 1 Cal target
 - * 3 of our GTO targets, GX 5-1, TW 19A, and NGC 2992.
 - * Gratings operation resumed in Sept. after July limit switch anomaly.
 - FWHM of streak is steady; HETG performance is nominal.
 - LETG usage: 30 obsids on 9 Science + 2 Cal targets

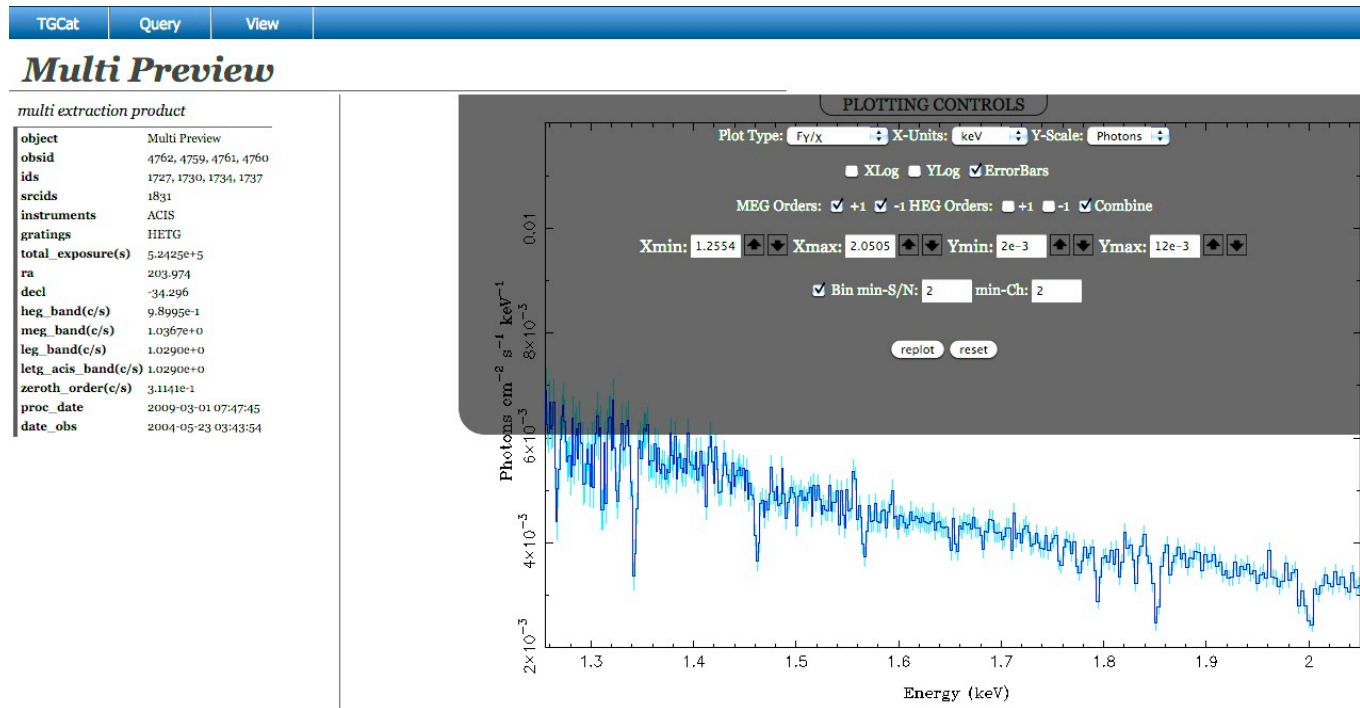
- HETG Calibration
 - New ACIS contamination was main effort



Ongoing HETG Team Activities, cont.

- Science Support to CXC, etc.

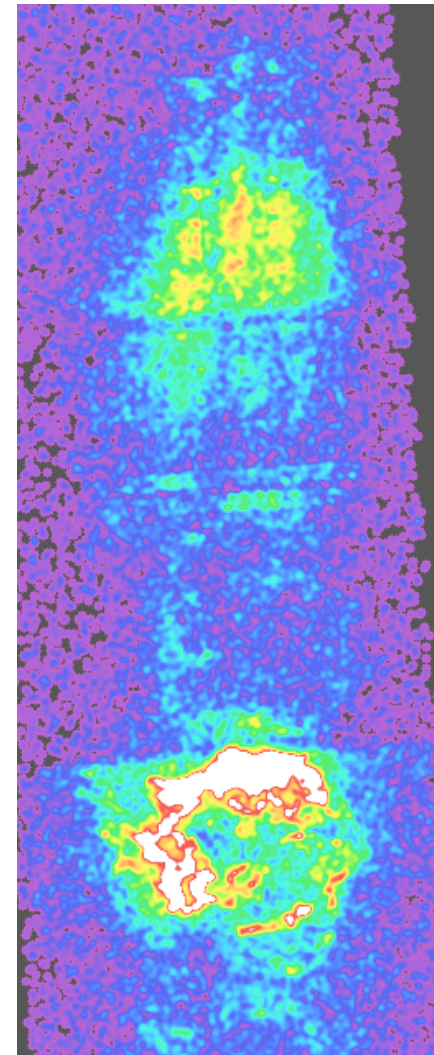
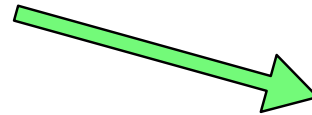
- Article contributed to Chandra Newsletter
- Support CDO's new Instrument web pages (HETG)
- TGCat *NEW* web page interface: <http://tgcath.mit.edu/>





Ongoing HETG Team Activities, cont.

- GTO Science Program
 - Cycle 10 - one left-over:
 - Cas A "HETG-II": 9.0-years-later (70 ks) ~
Scheduled for "2010-04-30"
 - Cycle 11:
 - ✓ T-Tauri binary: TWA 19A (60 ks)
 - ✓ NGC 2992 (150 ks)
 - AGN: ESO 323-G077 (300ks)
 - XRB: GX 13+1 (5x 30 ks)
 - Cycle 12: ... working ...
 - Postdoc status:
 - * Two postdocs under current contract funding.





Science: HETG and Conferences

- Last week:
 - High-Energy Astrophysics Division of AAS meeting
 - * Do AGN Outflows Cease Star Formation? Results from an Ultradeep Chandra HETG Observation of NGC 1068 (Evans)
 - * Chandra High-Resolution Spectroscopy of SN 1996cr (Bauer, Dewey, Dwarkadas, Brandt)
- Next week:
 - High-Resolution X-ray Spectroscopy: past, present, future
 - * Warm absorber and warm emitter in AGNs: clues from X-ray spectroscopy (Longinotti)
 - * Kinematics of supernova remnants (Dewey)