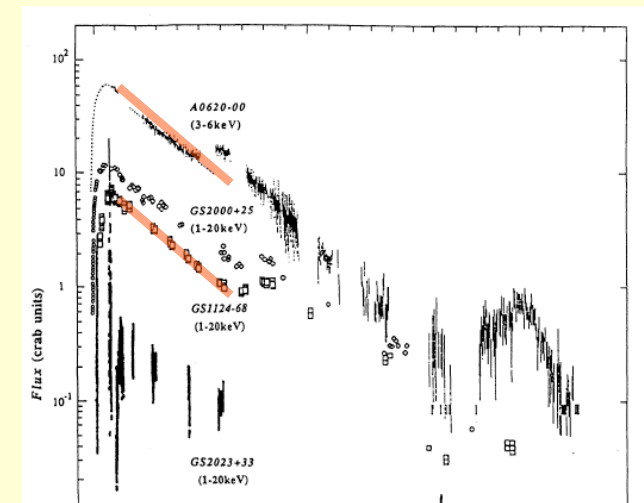
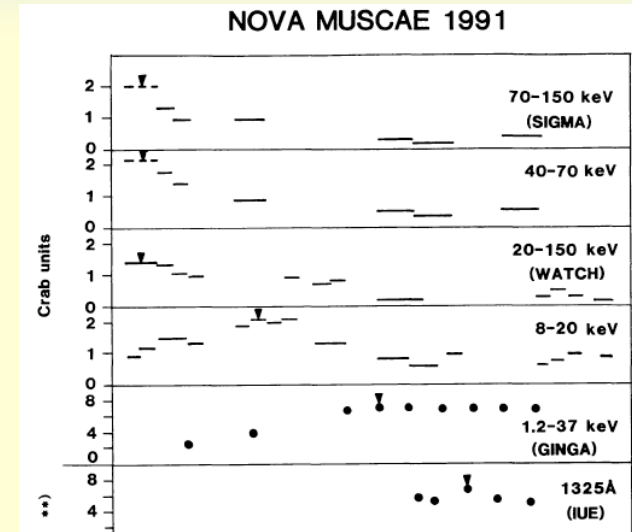


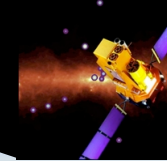
Actions & Reactions

- Problem noted in ad-hoc Telemetry working group meeting in April 2006. Led to two actions:
 - **TWG/03 (Apr 2006)** P.Ubertini & J.-P. Roques:
Discuss within their teams and report on possible set up for observations of very bright transients.
 - **Co/11-07 (Nov 2006)**, P. Kretschmar:
Draw together TN with astrophysical cases for bright sources and possible reaction strategies.
- Some email exchanges with ideas.
- Preliminary study of source cases at ISOC.
- **Clear plan of action still missing.**

Example cases

- A0535+262:**
 1-2 Crab at low energies, ~ 8 Crab at few 10 keV, steeply falling off above 20-30 keV.
- Nova Muscae:**
 ~ 8 Crab at soft energies, 1-2 Crab at 40-150 keV.
 What was brightest X-ray source in hard band? A0620-00?
 Scaled naively, factor ~ 10 brighter.
- Bright outburst of Sgr A*:**
 Munro et al. (2007), Inui et al. (2008):
 10^{38-39} erg/s (2-200 keV)
 $\Rightarrow > 10-100$ Crab in Integral range!





Possible Reactions

- **IBIS:**
 - TLB buffer setup (up to 5 Crab, 1000 cps)
 - switch off modules (from 5-15 Crab)
 - consider switch-off VETO, (above 15 Crab)
At 15 Crab, source flux \approx background.
 - **SPI:**
 - No modes to play with, 'grey filter' by telemetry saturation.
 - **JEM-X:**
 - Grey filter mechanism, reduction up to factor 30.
 - Point off source (special dithering?).
 - Switch off anode sections.
- **Is this sufficient, should ISOC/MOC create plan of action?**