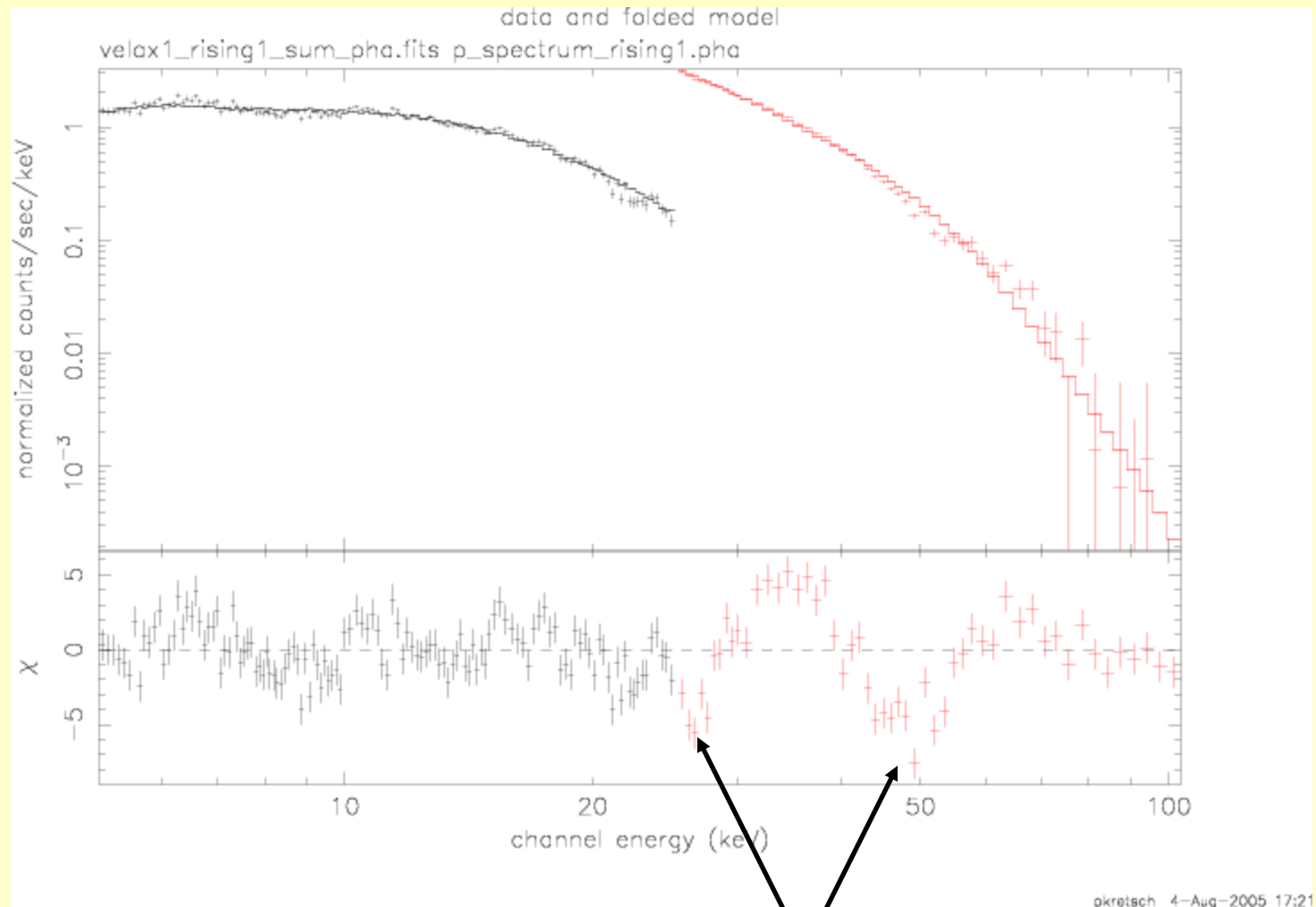




# Vela X-1

- Data from long Vela field observations in revolutions 81ff.
- Pulse phase resolved spectra for JEM-X and ISGRI via user GTIs (Barycenter & orbit corrected).
- Finely resolved spectra summed into six broad phase intervals. Remaining period drift (imperfect orbital ephemeris) corrected manually in choice of summed spectra.
- Spectra fitted systematically with consistent model.
- Paper being written, expect to submit in October.

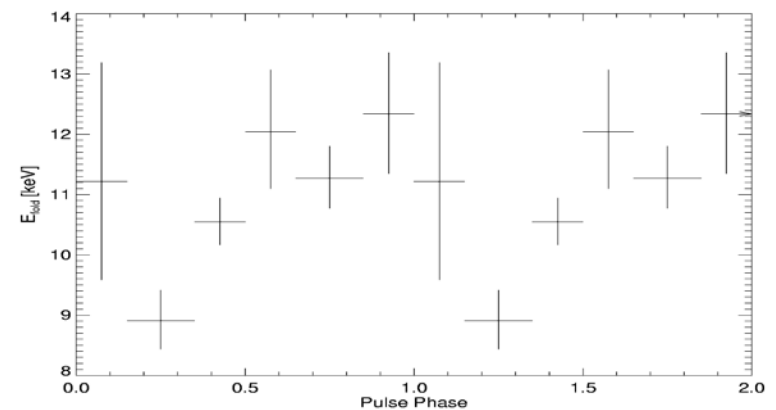
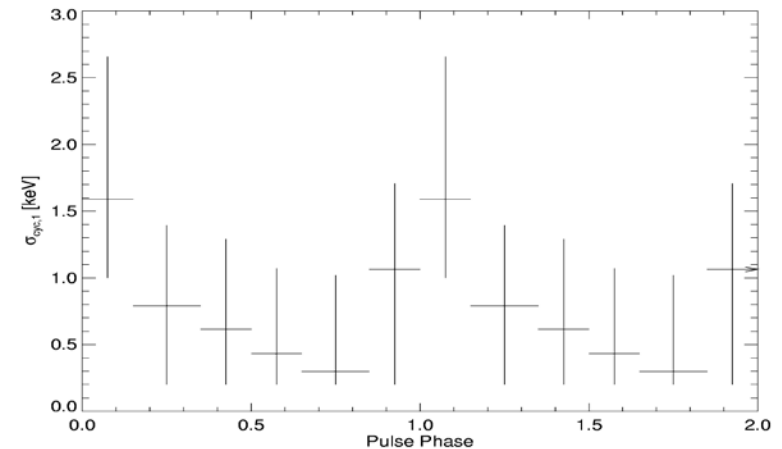
# Vela X-1



Cyclotron lines

# Vela X-1

- Variations in spectral parameters both for continuum and lines.

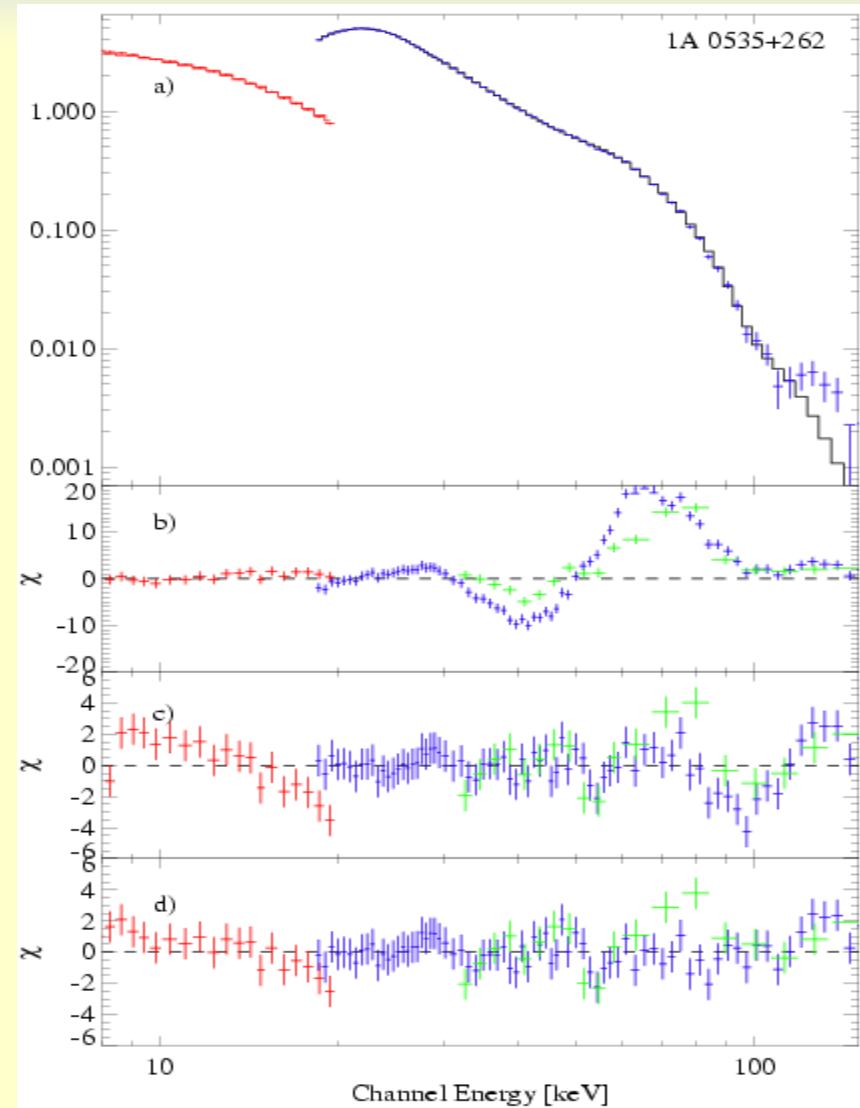


# A0535+26

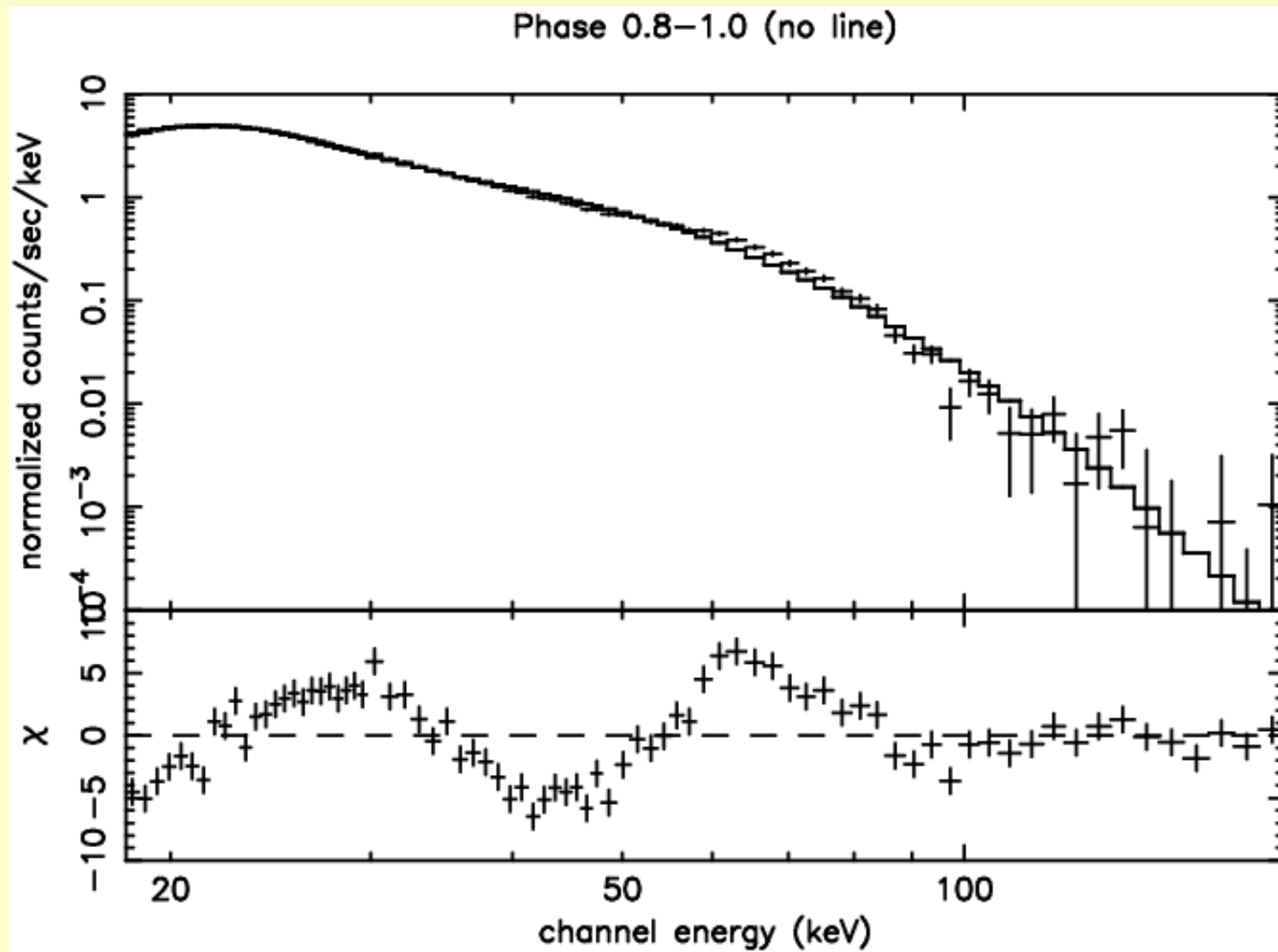
- (1A 0535+262), famous Be/X-ray binary
- Detected in 1976 in giant outburst (several Crab), showed normal and giant outbursts.
- Quiescent since giant outburst in 1994 (and two weaker following events)  
⇒ 10 years of repeated accepted TOO proposals without observations.
- Giant outburst in May/June *behind the Sun!*
- Normal outburst starting end August  
⇒ triggered Integral & RXTE TOO obs.

# A0535+26

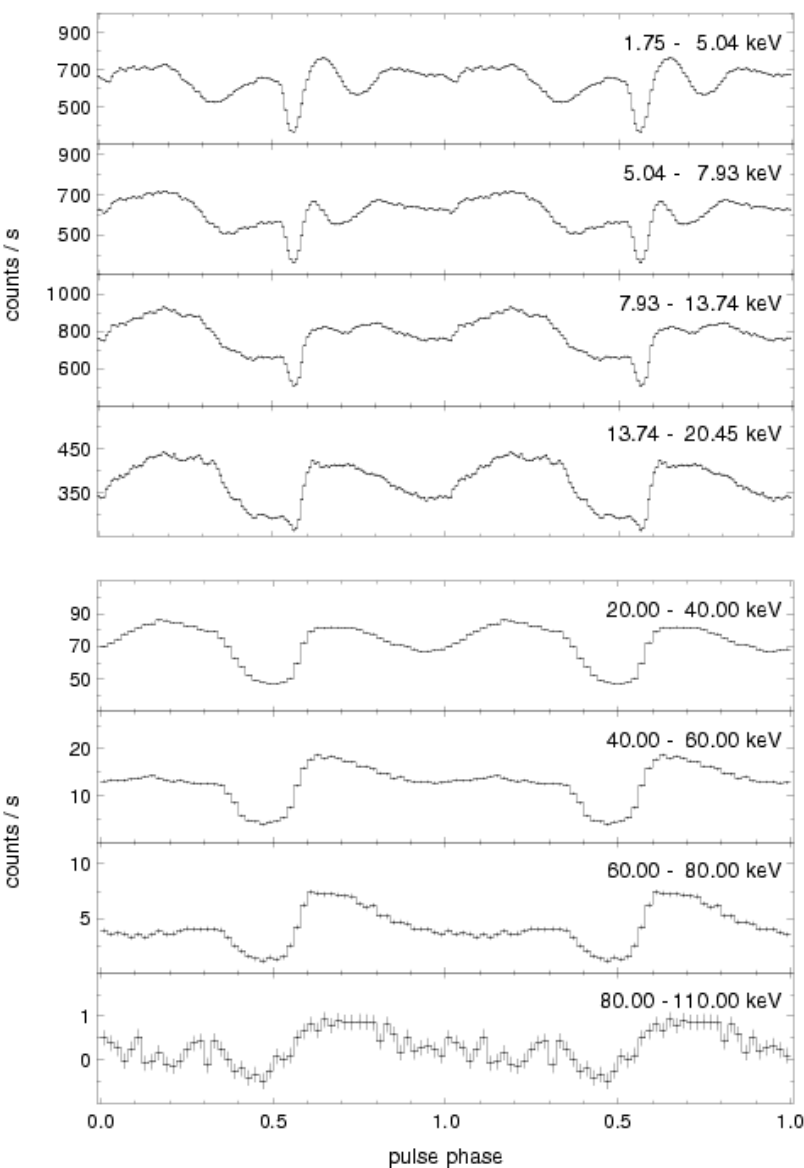
- Joint fit of Integral spectra clearly shows line feature at  $<50$  keV and weak feature  $\sim 100$  keV.
- Results confirmed by analysis of RXTE spectra – also by independent group (Finger et al.).



# A0535+26, ISGRI Spectra



# A0535+26 Pulsations

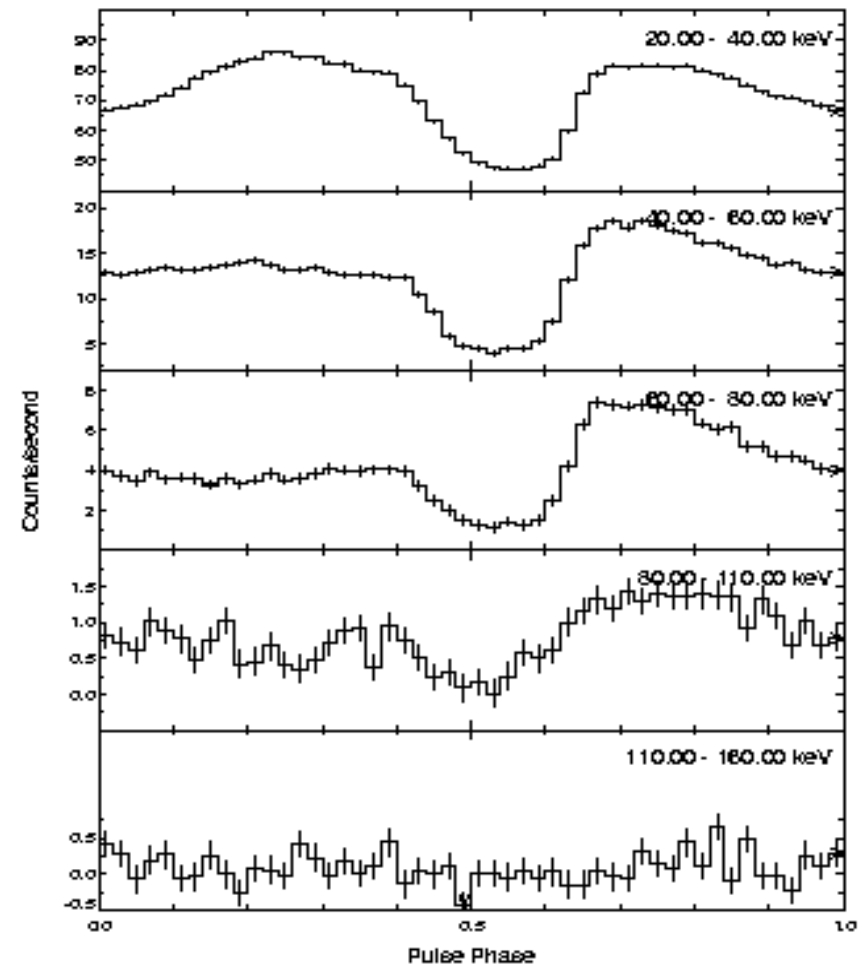
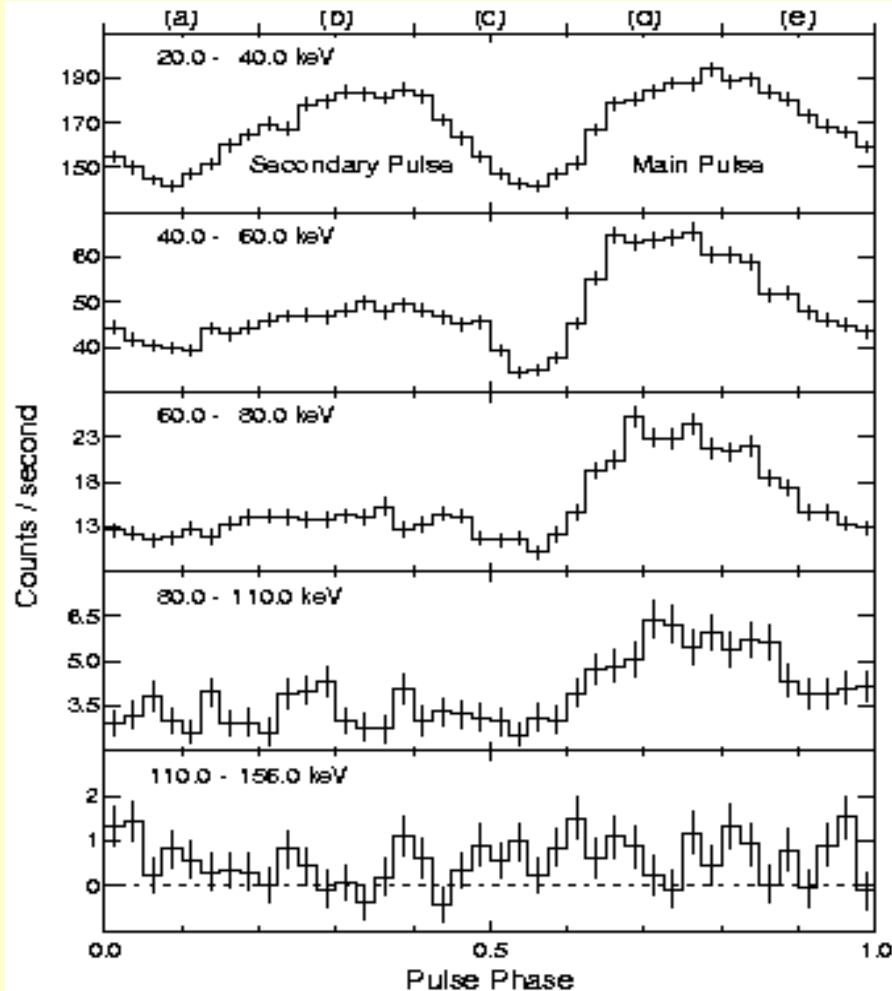


- Current observations show pulse profile  $< 15$  keV for first time since **1976** and full range 2-100 keV for first time ever.
- Profile more complex at low energies (frequent pattern).

# A0535+26 Pulsations

1989 – Mir/HEXE

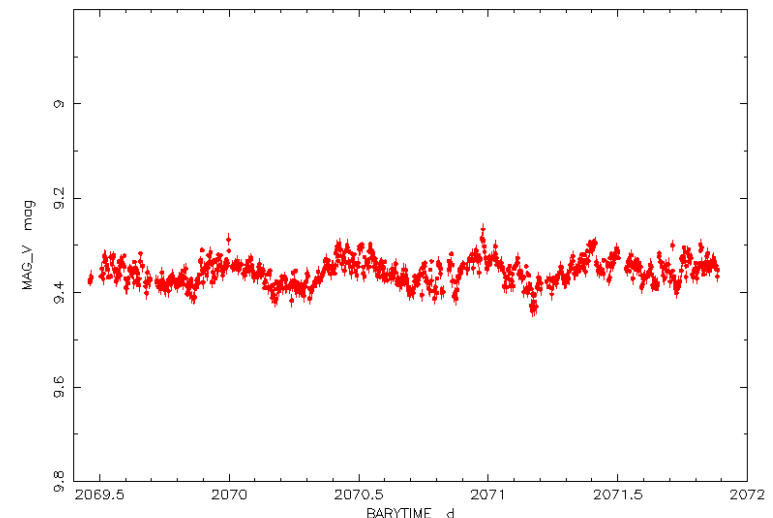
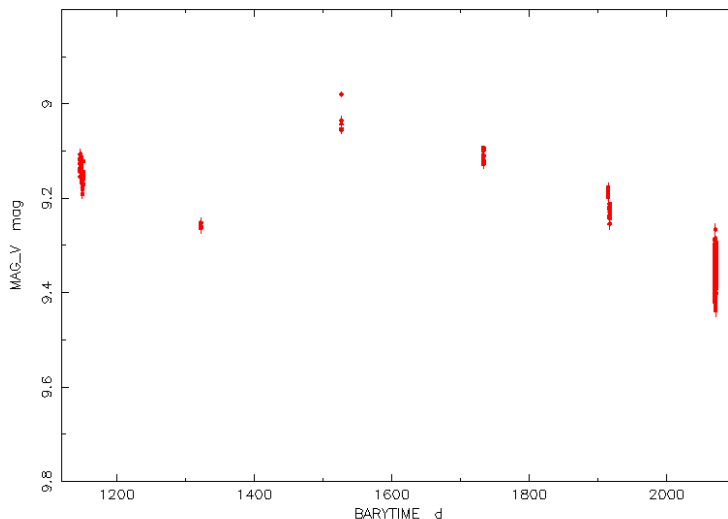
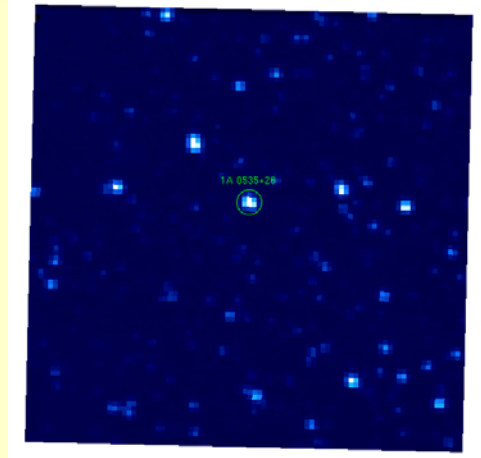
2005 – ISGRI



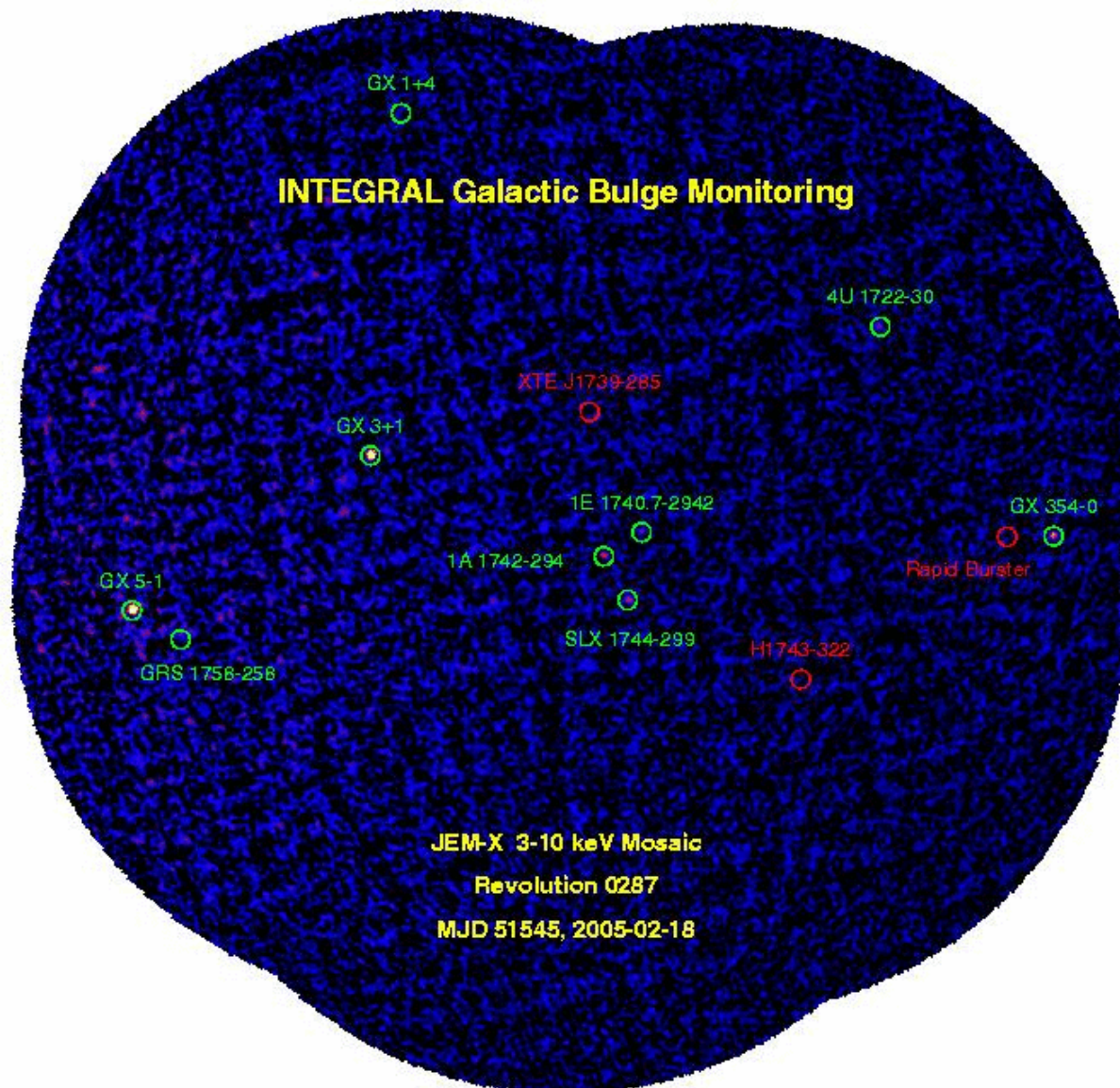


# A0535+26, OMC data

- Triggered IBAS  $\Rightarrow$  'real' OMC image
- Long-term lightcurve from Crab observation
- Short term modulation of Be companion



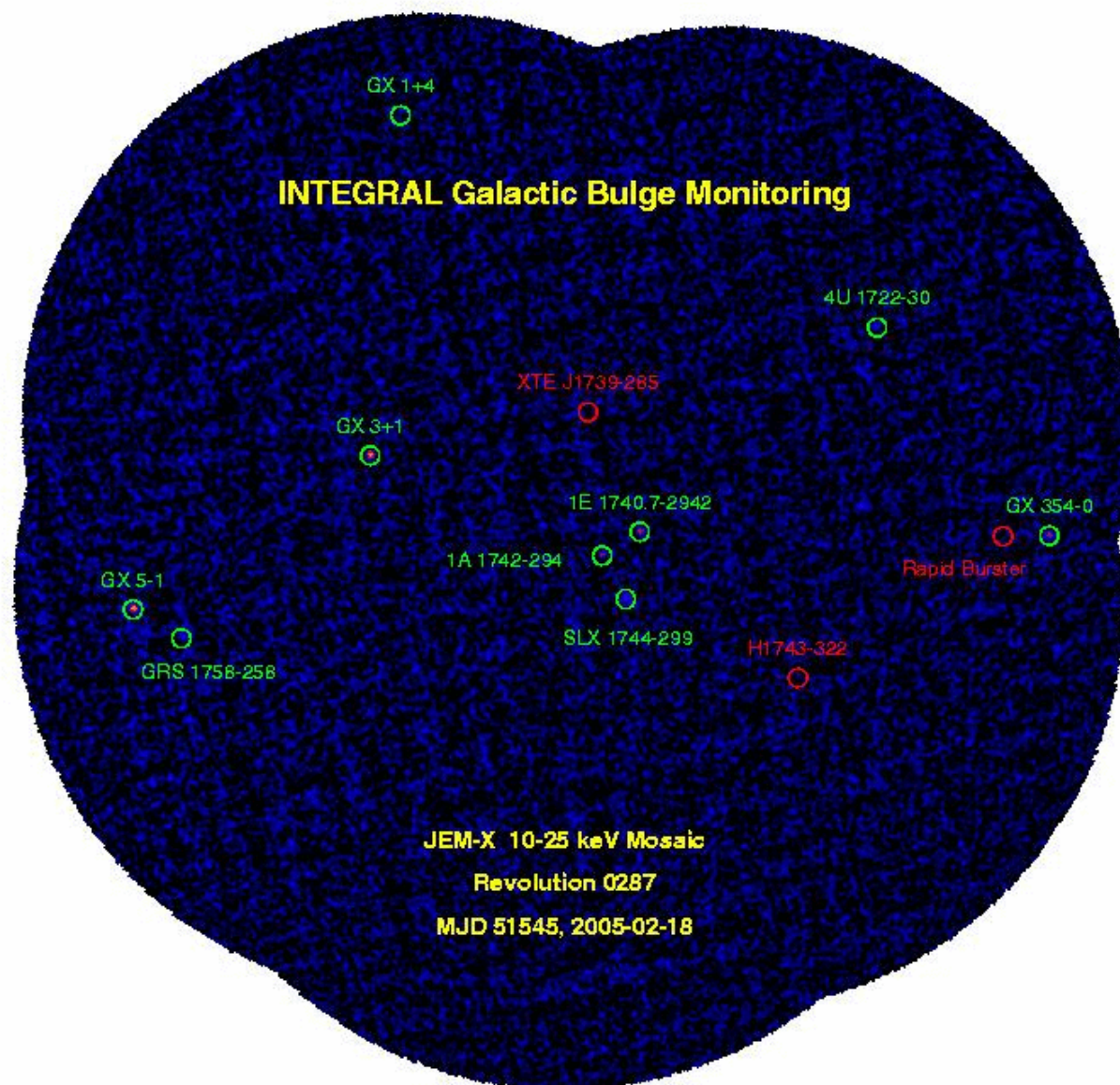
# Gal. Bulge Monitoring



- Mosaics built with OSA 5 from all available Gal. Bulge data



# Gal. Bulge Monitoring



# BQ Cam (V0332+53)

- Results obtained by Silvia Martínez, to be published soon.

