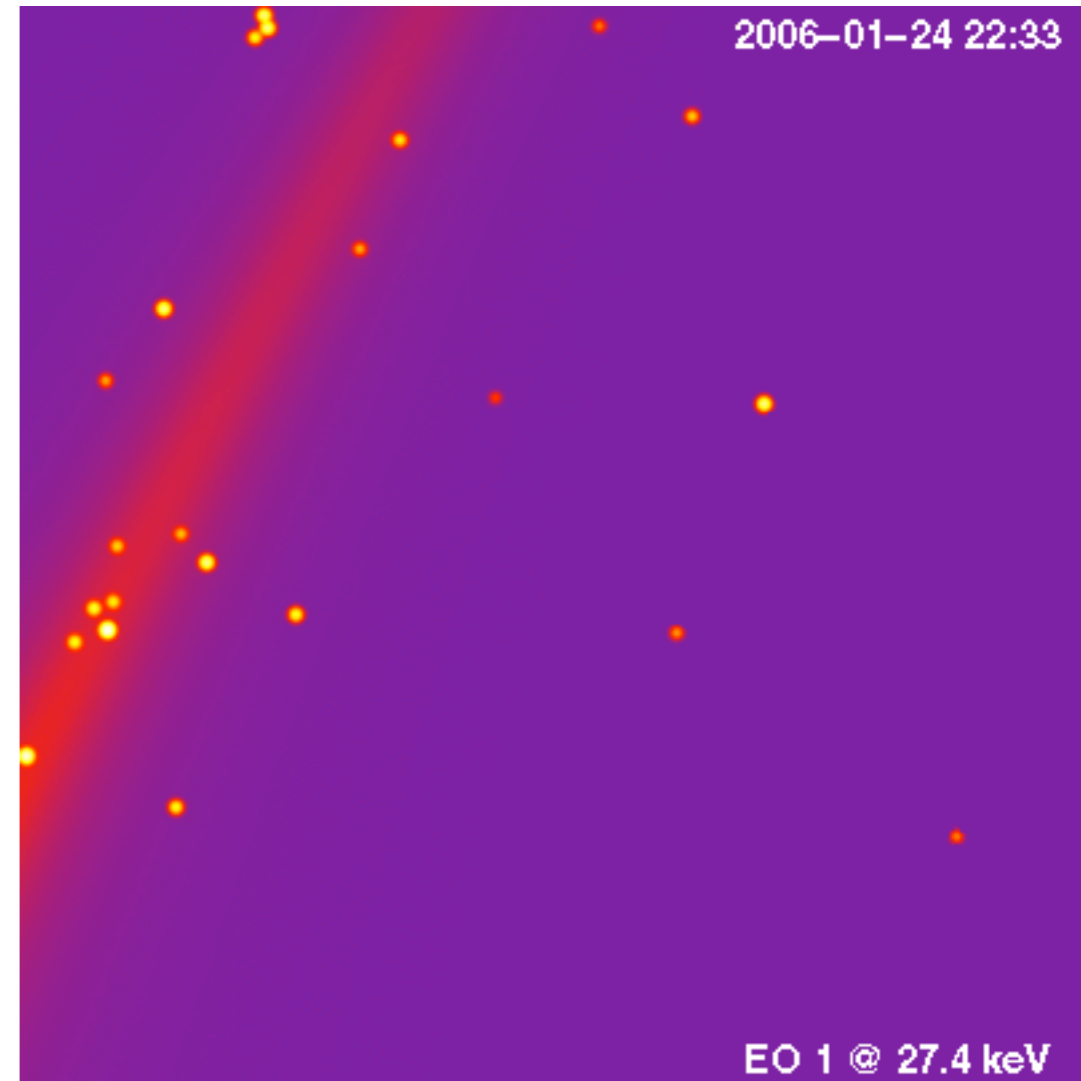
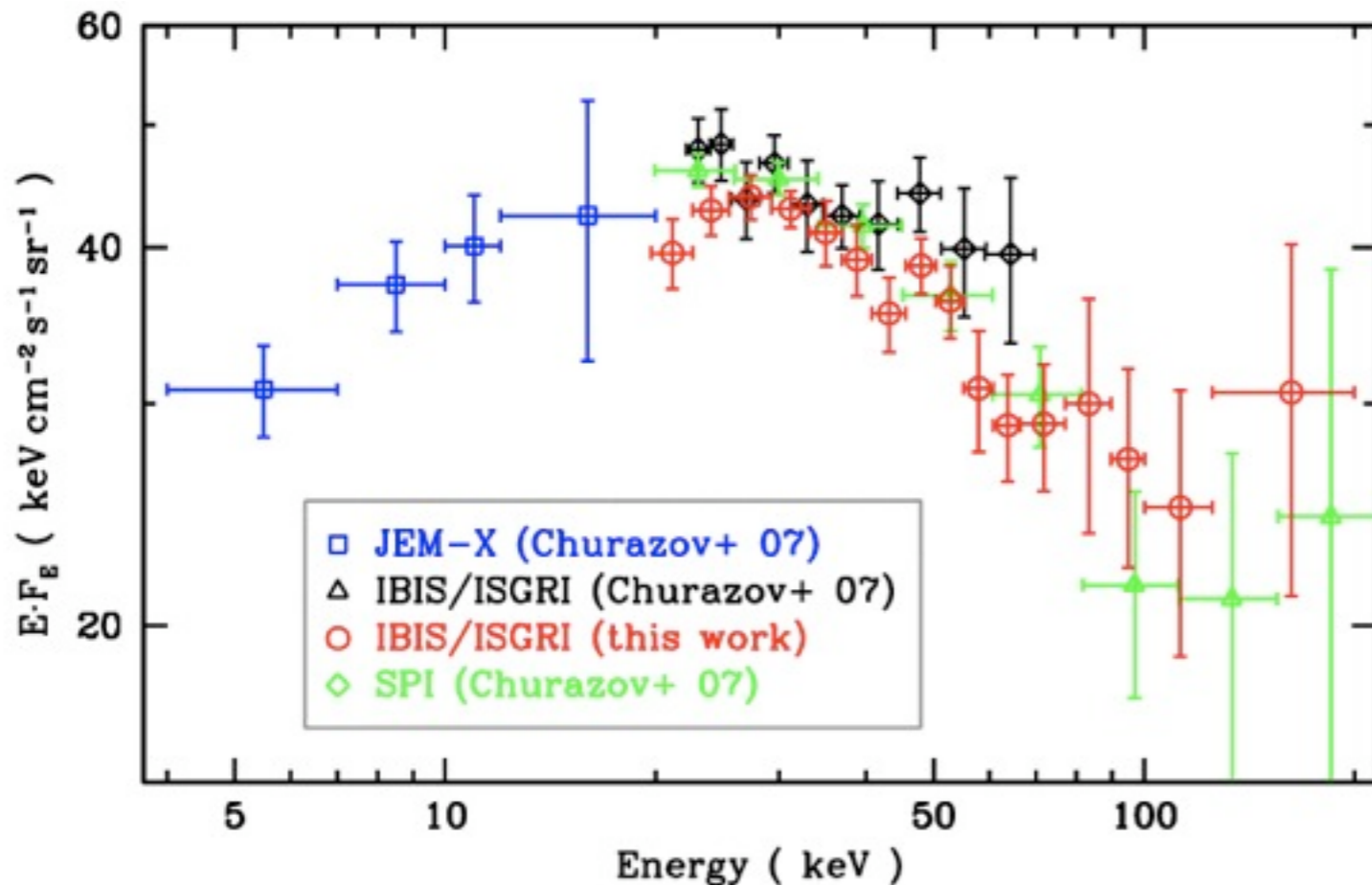


Earth observations

- Measurement of the Cosmic Hard X-ray background spectrum (3-300 keV).
- Public observations following the 2006 experiment.



Türler et al. (2010)

New Earth observations

- Reduced contamination by foreground sources due to a more favorable target configuration (Earth vs. galactic plane and bulge)
- Reduced emission of the Earth atmosphere above ~ 70 keV due to the increase of solar activity and the corresponding decrease of the cosmic-ray induced radiation by the Earth atmosphere.
- Leaders of the effort: M. Türler (ISDC) and R. Krivonos (MPA-Garching, IKI).
- For 2012 (AO-9), the observations can be performed as a series of 5 individual exposures with a duration of 13 hours each, corresponding to a total exposure time of 234 ks.
- Overhead of 5 hours will have to be added. The total time is therefore about 5×18 hours or 324 ks.
- **Immediately public.**
- **To be repeated in next cycles.**
- Paper in preparation by C. Lozano (ESOC): *INTEGRAL - Renaissance of occultation techniques using the Earth.*