Instrument Health

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  • Anom. states not so well separated in R-HR
  • New anom. state defs. implemented in ESAS
    ▶ HR<1.5 bad for all chips
    ▶ 1-4, 2<HR<2.5 questionable, HR<2 bad
    ▶ 1-5, HR<2 is bad
    ▶ 2-5, 2.5<HR<3 questionable, HR<2.5 bad
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PN:
• General increase of QPB rate
• No general trend in hardness ratio

BGWG 2011
Instrument Health

PN:

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Summary

- Automated production of QPB files for MOS & PN
- Single QPB .fits file for each instrument
  - one chip per extension for MOS
  - one quadrant per extension for PN
- MOS QPB files include anomalous state data
  - new ESAS smart enough to exclude normally
  - may define/characterize “quasi-anomalous states”
Work Plan

Now (?) in maintenance mode
• Update MOS & PN QPB files ~ every six months
• Update FWC files (Snowden)
  • If the usable files forthcoming from SOC
• Construct new SP vignetting maps and spectra

SWCX - Part of continuing STORM proposal
• Building new magnetosheathic model
  • BATSRUS-like hydro model for unique events
  • Similar model cubes for quiescent periods