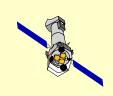


Status of EPICs Operations

Stéphane RIVES 4th of May 2006





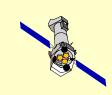
Introduction



1) MOS/PN related issue

- 2) MOS specific
- 3) SCOS2000





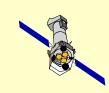
MOS-PN Bit Rate reallocation



Experience showed that some bandwidth could be reallocated from MOS to PN

- Improve PN science production without affecting MOS science quality
- The following table is now used by default:
 - -OM = 1000 kb/s
 - -RGS1 = 1500 kb/s
 - -RGS2 = 1500 kb/s
 - -MOS1 = 12000 kb/s (16000 before)
 - -MOS2 = 12000 kb/s (16000 before)
 - -PN = 23888 kb/s (15888 before)



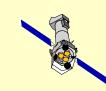


· Cess

Substitution heater LCL Trip-on

- Rev. 1114, 7th of January 2006, spurious switch-on of the nominal substitution heater, within one exposure:
 - PN: -92.46 degC < T < -86.24 degC
 - MOS1: -118.04 degC < T < -120.04 degC
 - MOS2: -117.69 degC < T < -120.37 degC
- Recovered by the corresponding contingency procedure
- Explanation: SEU
 - 14th LCL trip off/on since the BOL
 - 11 occurrences in the last 2 years



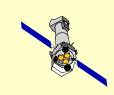


Redundancies documents



- One document per instrument has been produced to analyze the redundancy cases:
 - Electronic boxes
 - Filter wheel
 - Thermal subsystem
- Baseline in case of future failures, and possible further tests



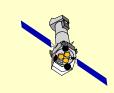






- In order to compensate the long term drift in the MOS background, the overall fixed offsets has been lowered by 1 ADU for:
 - MOS1 CCDs 2, 4 and 7
 - MOS2 CCDs 3, 4, 5 and 7
- Change available with the new database release as of the 27th of April, rev. 1169 for manual commanding, ~ 1 month later for timeline commanding









In rev. 1140, on the 28th of February:

- @ 20:46z, MOS1 stopped sending Telemetry
- Instrument in IDLE mode, FW closed
- SW cold reset did not work
- A hard reset was finally executed @22:23z
- After the reset, the functioning of the instrument was fully nominal





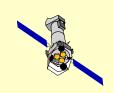




Explanations

- EMDH crash followed by a failure of the RBI
- RBI stuck in INIT mode after the EMDH crash
- No explanation other than the SEU one proposed so far
- NCR#118 raised to trace the problem





SCOS 2000



- SCOS 2000 is now validated and used as our new control system
- Still one release to come to be in line with the "maintainable" version for the infrastructure



