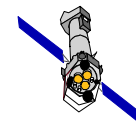


Status of EPICs science operations

Bruno Altieri

EPIC CAL/OPS meeting

VilSpa, June 2-4, 2002

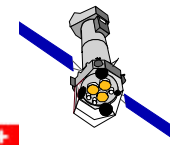


XMM-Newton

Bruno Altieri, ESA/RSSD

Review of actions

- **EPIC_7/6: M.Turner to nominate one point of contact per instrument (i.e. one for MOS and one for pn) for the on-board s/w updates**
 - Formal mechanism to handle s/w updates to be settled at upcoming management meeting at ESTEC (April 2002)
- **EPIC_8/1: To propose a work around solution for the EMDH limitation of 50 flagged bad pixels per CCD. On N. La Palombara.**
 - *activity in progress (April 2002)*
- **EPIC_9/1: J.Munoz/B.Altieri : clarification of the prospects of ODF availability of the very early Cal/PV observations (before rev 47)**
 - *Due date 19/04/2002*
 - *all observations that could be processed are now available on XSA*
 - *pre revs 47-53 obs cannot be reprocessed blindly. New HK files and attitude files have to be merged with OLD PMS FITS files for pn. Specific requests to be addressed to Munoz/Altieri.*
- **EPIC_9/2: B. Altieri to provide the new CCFs reflecting the current MOS bad pixels**
 - *Due date : 29/04/02, OPEN ...*

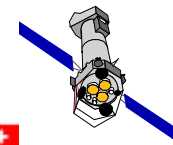


XMM-Newton

Bruno Altieri, ESA/RSSD

Status of spacecraft operations

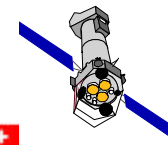
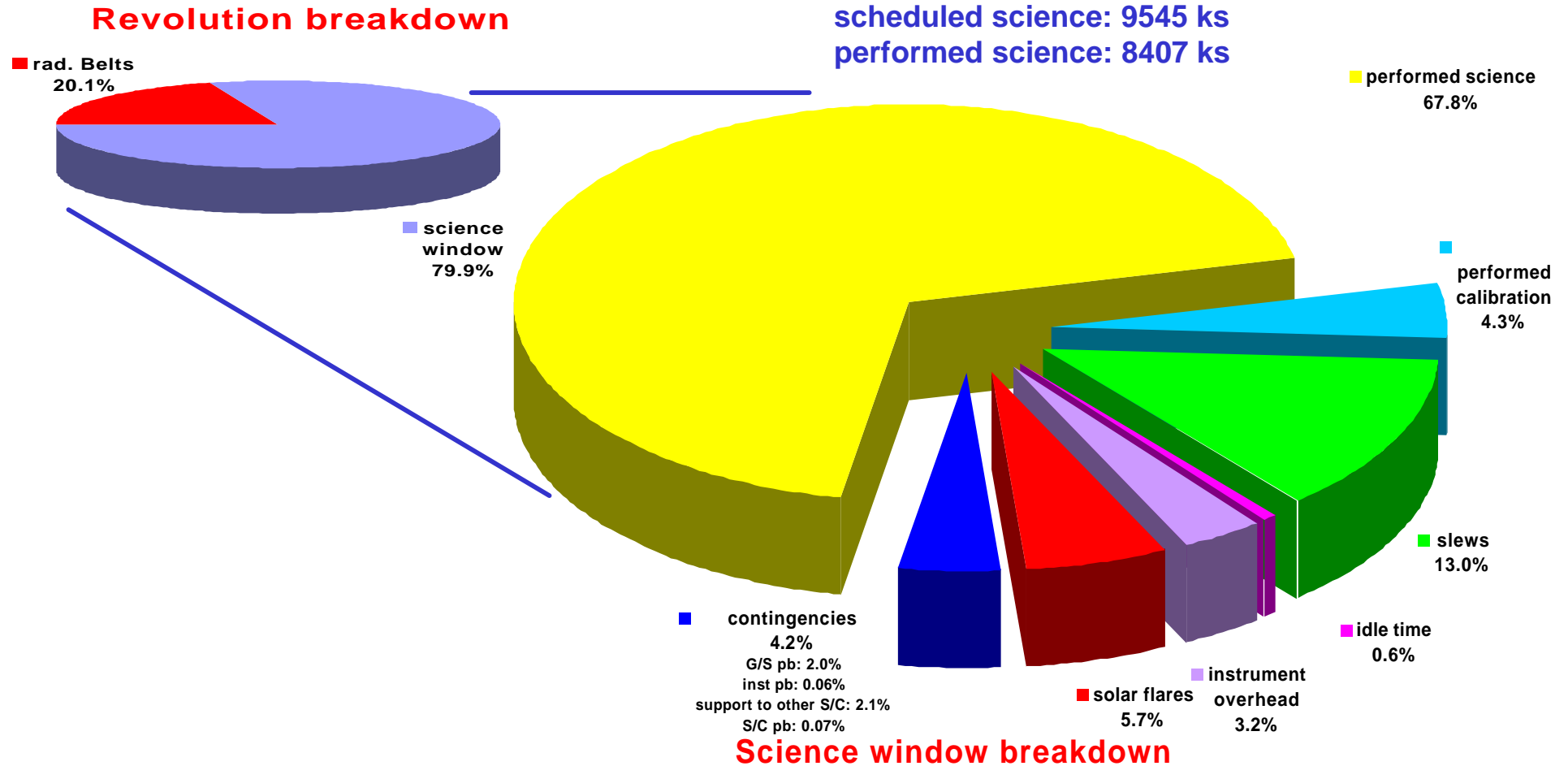
- All subsystem in prime units
- Hydrazine: consumption stable at ~0.4kg / month
- Solar array / power : ok
- Next eclipse season starting on August 15, 2002
- Flexible timeline now in use.
- Orbit manoeuvre planned in early 2003
- Only one solar flare in spring 2002: rev 434



XMM-Newton

Bruno Altieri, ESA/RSSD

MOS 1 efficiency breakdown over the last 6 months (rev 351 to 440)

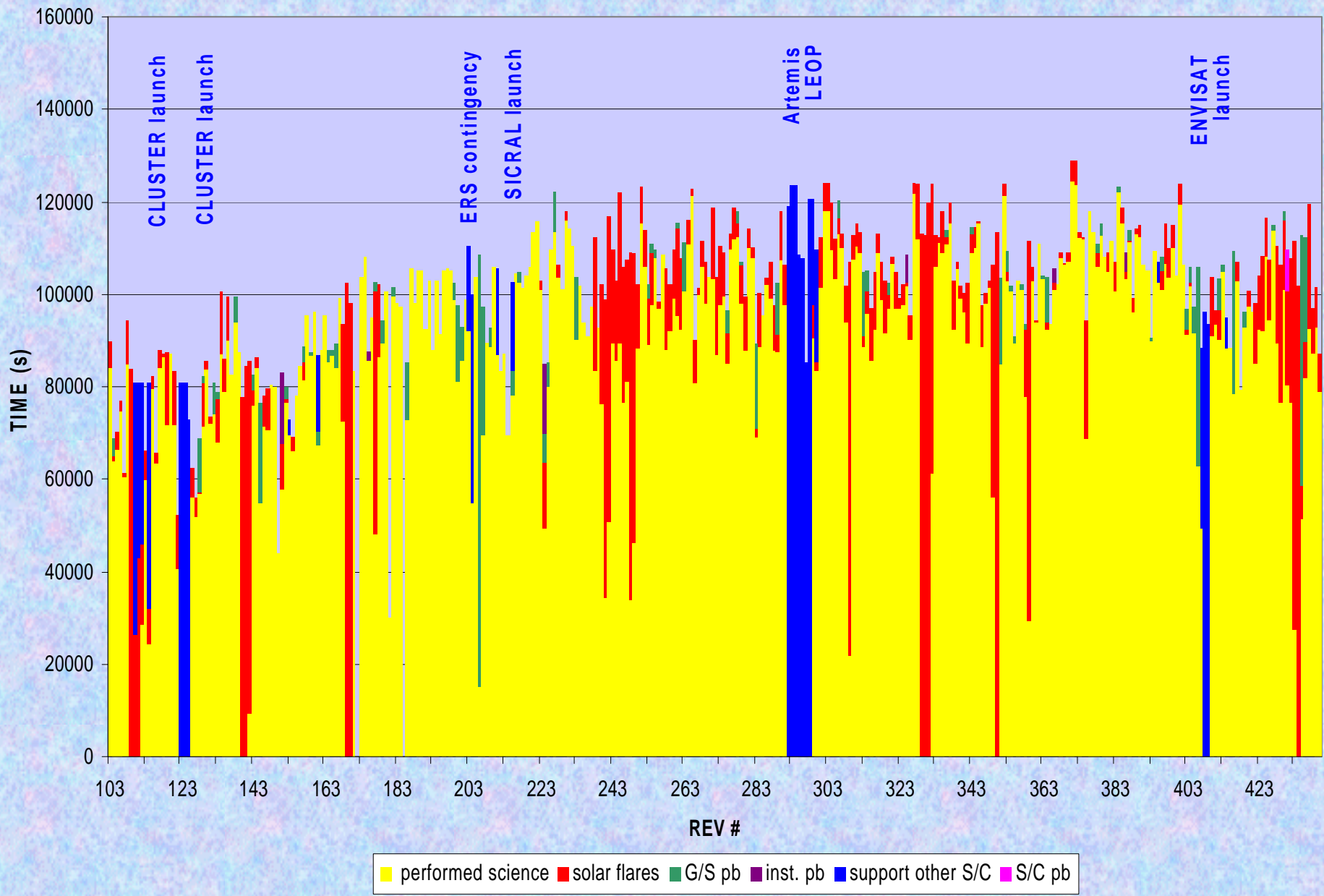


XMM-Newton

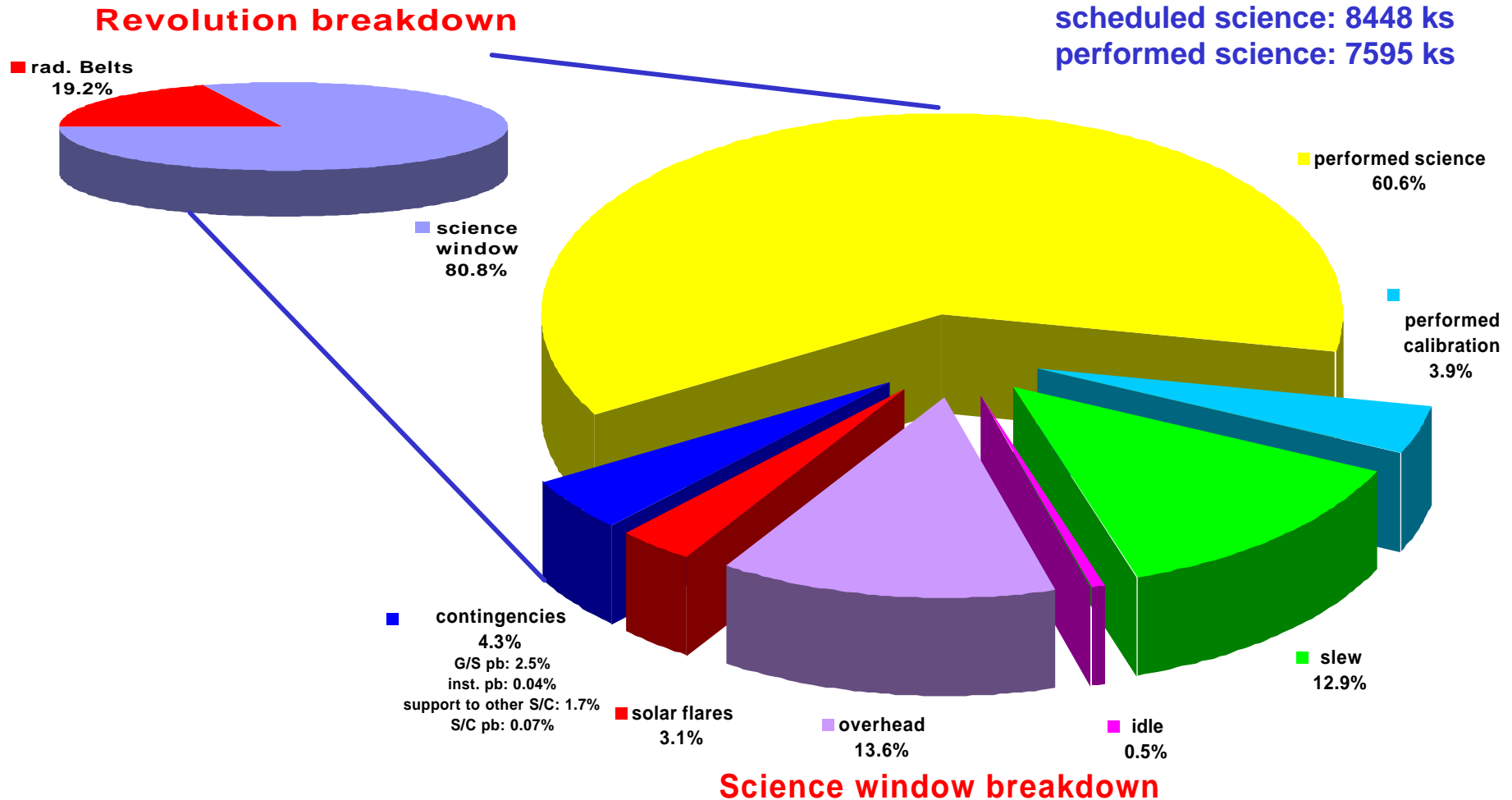
Bruno Altieri, ESA/RSSD

MOS 1 efficiency in the routine phase

scheduled science: 33520 ks
performed science: 28375 ks

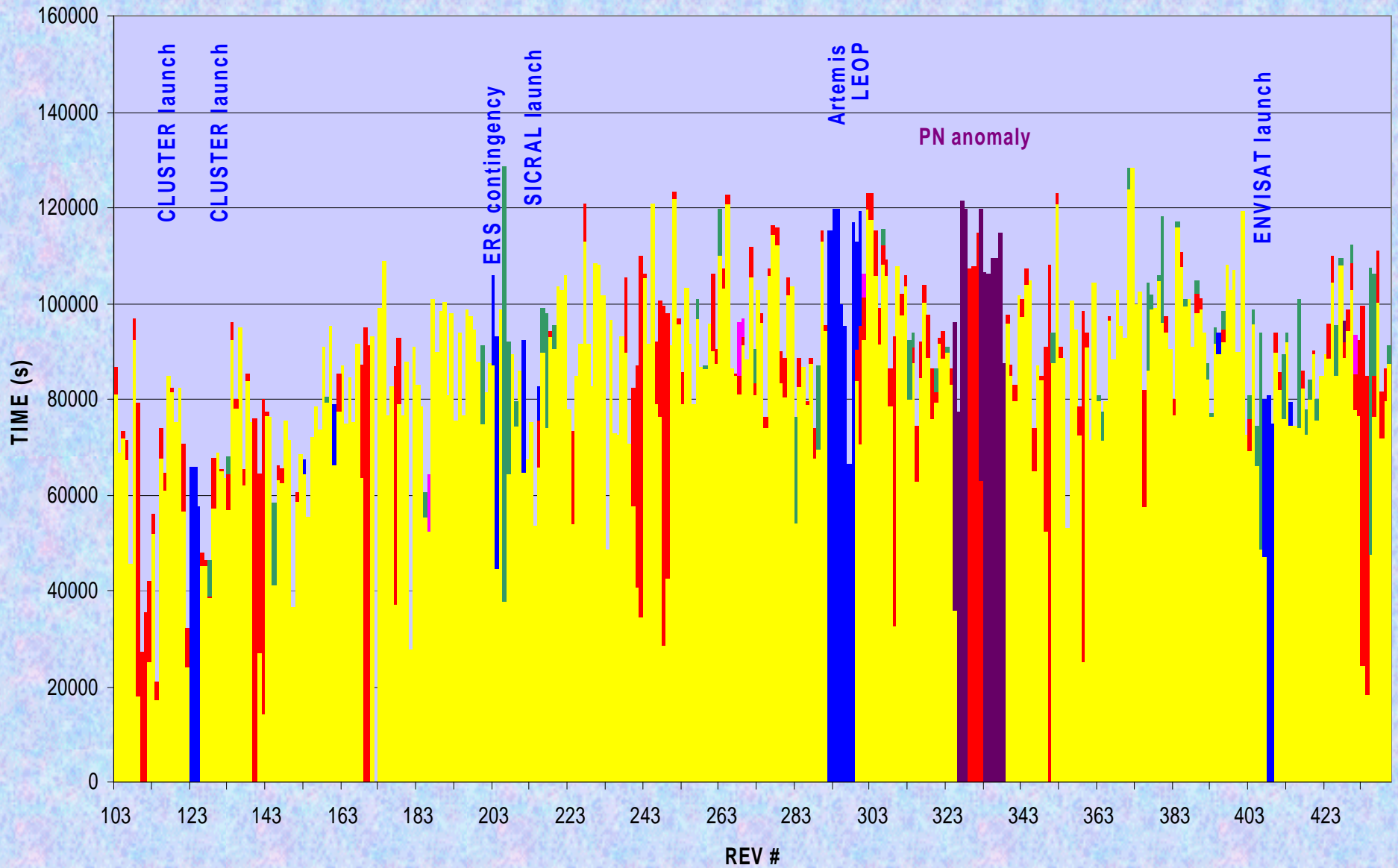


PN efficiency breakdown over the last 6 months (rev 351 to 440)



PN efficiency in the routine phase

scheduled science: 30294 ks
performed science: 24942 ks



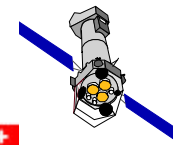
performed science solar flares G/S pb inst pb. support other S/C S/C pb

Data processing and distribution

- In the routine phase (as of rev 440, 24 May 2002)
 - Number of planned observations: 1757
 - Number of performed observations: 1666
 - Number of ODF generated: 1623
 - Number of pipeline / data products sets generated and distributed: 1518

Observing time implementation status as of revolution 0451

Predicted end of AO1 (Open and Guaranteed);		Revolution 0579 (05-Feb-2003)		
	Open Time	Guaranteed Time	ToO	
Number of allocated targets (Priority A and B)	638	831	20	
Allocated cumulative exposure time (ks)	14214.3	18949.8	-	
Number of successfully observed targets	437 (68.5%)	585 (70.4%)	-	
Successfully observed cumulative exposure time (ks)	10187.5 (71.7%)	14198.5 (74.9%)	618.0	

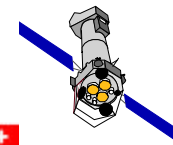
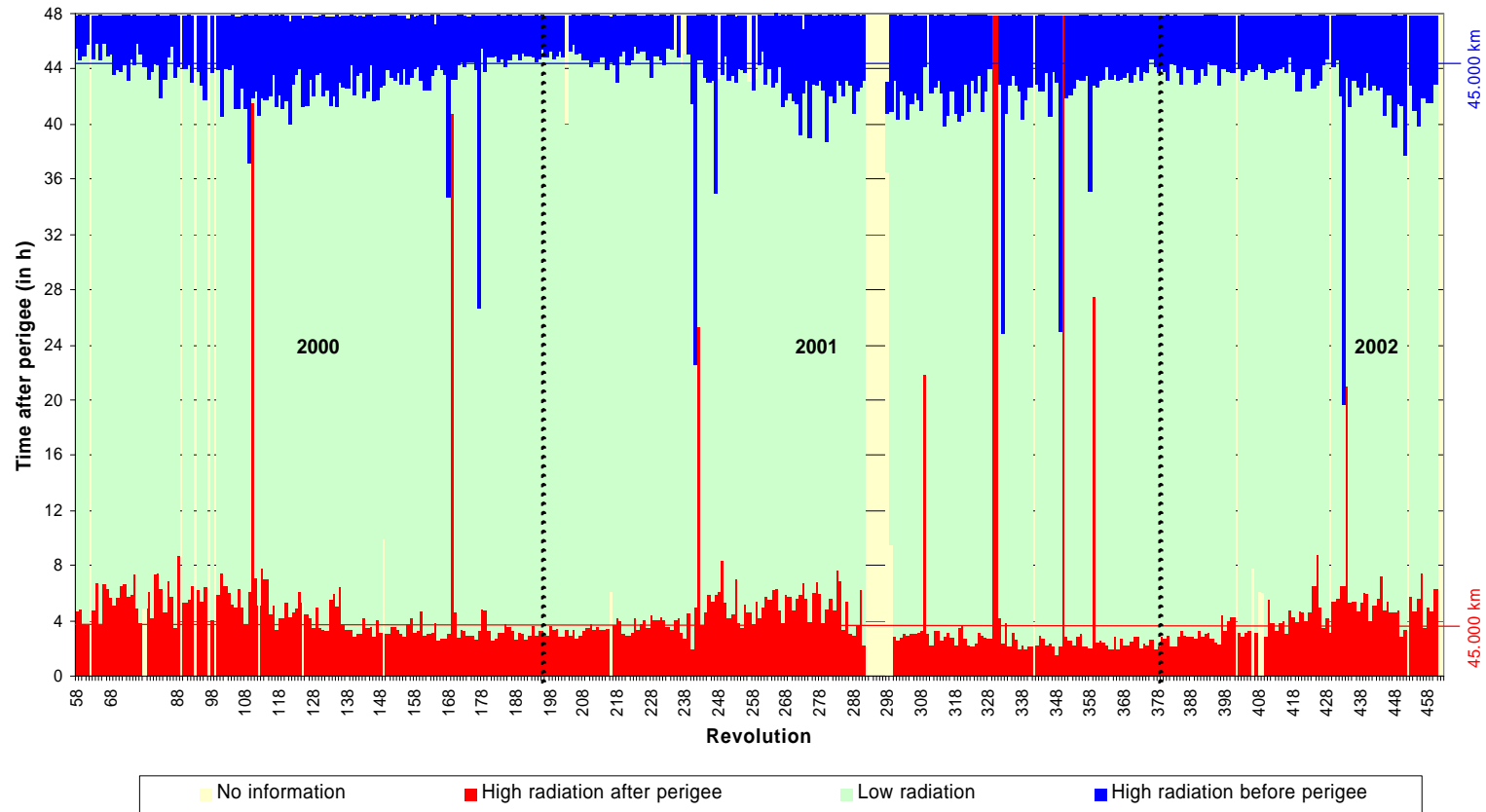


XMM-Newton

Bruno Altieri, ESA/RSSD

Radiation: another bad spring season

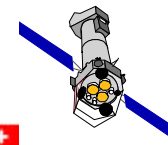
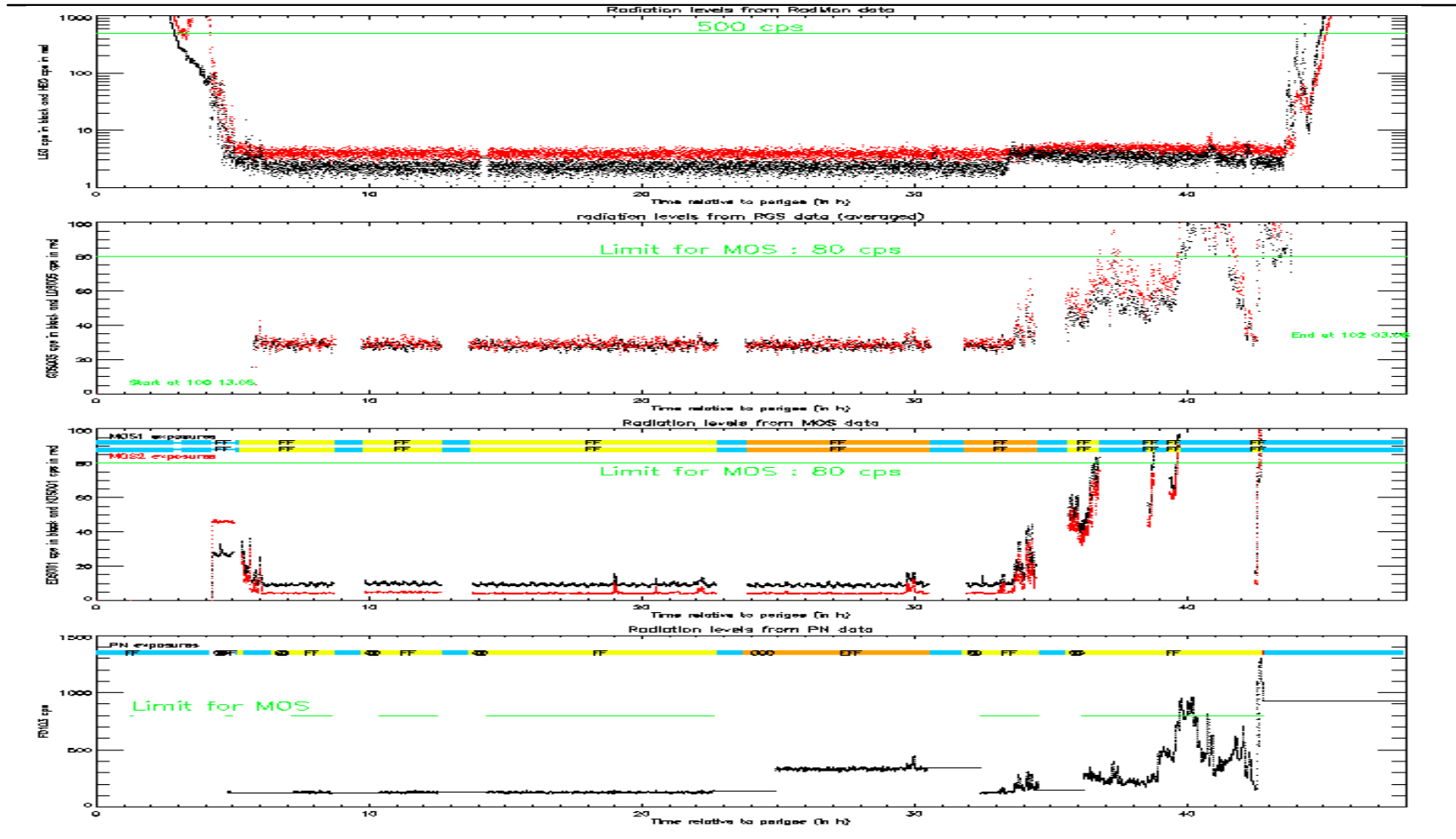
Radiation levels from RadMon data at 500 cps



XMM-Newton

Bruno Altieri, ESA/RSSD

Radiation plots available on internal web



XMM-Newton

Bruno Altieri, ESA/RSSD