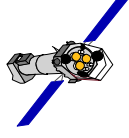


XMM-Newton TTD Meeting

6-7th of June 2001

M. Casale



XMM

Eclipse season Autumn 2001(1)

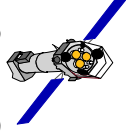
- **Eclipse period: 31 -08 (REV -317) to 14 -10 (REV -339)**
- **Max duration: 47 minutes (including penumbra)**
- **Timing: the eclipse will occur after Perigee; min 0.5h to max 5 min (at the end of the eclipse season) 6**
- **Base-line for eclipse operations being outlined with the MOC: meeting foreseen 12 -06**
- **Target: keep start of instrument observations (i.e. close call at Perigee +4.5h as per last Spring eclipse season despite additional difficulties)**
 - less time for instrument operations;
 - more complex sequence of post eclipse SVM activities
 - longer activation time for EPIC instruments (see below)



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Eclipse season Autumn 2001 (2)

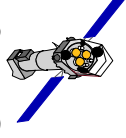
- **Principles of EPIC eclipse operations:**
 - the strategy implemented during the last eclipse season (after correction of NCR -83/PN heater anomaly) worked fine and will have to be adopted during the next eclipse season:
 - temperature boosting gate clipse end via Red. Substitution heater
 - modification to therm. control setting: min_PW=100, max_PW=220
 - Additional protection during PN switch - on to prevent hybrid configuration in case of Gloss: add TT command for transition to Safemode, if activation cannot be nominally completed
- **Major differences in switch -on/activation procedures:**
 - new EPDH code version J(time -outtask): will imply full re -upload of the code (14 additional minutes)
 - new EMDH code version J(time -outtask): same as above (20 additional minutes)
 - Split between manual/automatic operations still being defined



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SingleBore - sight implementation(1)

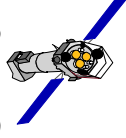
- **Status:** new SIAM matrix (version 9) delivered on 25 -05-01)
- **Implementation milestones:**
 - 1 definition/validation of OM grism modes for start of AO -2
 - 2 implementation/re-commissioning of EPIC -MOS window modes (definition of new clock sequences, implementation into ops. DB, validation/testing, final implementation into activity DB)
 - 3 re-definition of OM window position for standard "Rudi -5" exposures normal & fast (validation/testing, final implementation into activity DB)
- **deadline for milestone 1 above** : end of July for final implementation in RP S by start of AO -2 (beginning of September)
- **deadline for milestones 2 & 3** : end of March 2002, at the time the AO-2 database will start to be expanded



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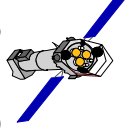
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SingleBore - sight implementation(2)

- **Implementation Plan: draft version circulated on 04 -06**
- **Future activities:**
 - OM grism mode testing in REV -283(26 -06-01); will also give the opportunity to check PN/RG Spointing with new bore -sight; data acquisition in Full Frame mode for MOS-1/2 (could help for definition of new windows)
 - Definition of MOS-1&2 clock sequences by EPIC Team for LW/SW/Timing modes: due date: TBD (is end of July acceptable?)
 - Import/implementation into Ops DB of new MOS sequences: due date: tentatively end of August 2001
 - MOS-1&2 window modes **functional test** (during close_cal/slew: no impact on science time). Tentatively September 2001
 - **Performance test** (all instruments): tentatively Nov -Dec 2001
 - Activity DB modification/Singapore -sight SIAM Operational: by end of February 2002 (**whole system in line with single bore - sight for both real -time and off -line operations**)



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