

XMM-Newton CCF Release Note

XMM-CCF-REL-66

EPIC MOS Bad Pixels

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1 CCF components

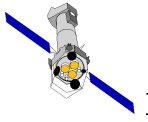
Name of CCF	VALDATE	List of Blocks changed	CAL VERSION	XSCS flag
EMOS1_BADPIX_0009	1999-12-10T06:30:00	BADPIX		NO
EMOS2_BADPIX_0009	1999-12-10T06:30:00	BADPIX		NO
EMOS1_BADPIX_0010	2000-05-12T06:30:00	BADPIX		NO
EMOS2_BADPIX_0010	2000-05-12T06:30:00	BADPIX		NO
EMOS1_BADPIX_0011	2000-07-10T21:00:00	BADPIX		NO
EMOS2_BADPIX_0011	2000-07-10T21:00:00	BADPIX		NO

2 Changes

VERSION 9 has the on-board bad pixel tables of the launch version replicating the actual database. To avoid confusion with usage of the SAS pipelines, not-uplinked locations have been removed.

Version 10 includes a similar exercise for the first update to the on-board tables which corrected some errors in the launch version

Version 11 includes new hot pixels which subsequently developed. These are mostly in MOS 2 and occurred between revolutions 107 and 108. These were not yet uploaded so are flagged as such, especially because their extent causes dead areas of 3×3 or 3×4 pixels. The user can account for these in the pipeline processing with the parameter *getotherbadpix* = Y



3 Scientific Impact of this Update

Should correctly interpret what was uplinked to on-board bad pixels list.

4 Estimated Scientific Quality

There are still about 2 pixels in MOS 1 and 10 in MOS 2 above 1% recurrence frequency. The user needs to run *withbadpixfind = Y* and *getnewbadpix = Y* in order to find these in his/her data set.

5 Expected Updates

Whenever there is a new release of badpixels for on-board the CCF file will be updated. Not-uplinked bad pixels which are found to be stable and should be placed in the file will be added as necessary