

XMM-Newton CCF Release Note

XMM-CCF-REL-32

EPIC Bad Pixels

D Lumb

October 31, 2000

1 CCF components

Name of CCF	VALDATE	List of Blocks changed	CAL VERSION	XSCS flag
EMOS1_BADPIX_0007	1999-01-01T00:00:00	BADPIX		YES
EMOS2_BADPIX_0007	1999-01-01T00:00:00	BADPIX		YES

2 Changes

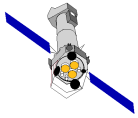
It was discovered that for early operations, an incorrect set of up-linked bad pixel tables was used on-board. This version of file was replaced so that identified bad pixels are logged as *notuplinked*, and the *correct* set are identified as *uplinked*. This set was changed in May 2000, so the next release note and file with new validity date will be used to cover this case.

3 Scientific Impact of this Update

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

4 Estimated Scientific Quality

The response generation tasks make a rudimentary correction for the consequent area losses, but secondary effects of changing pattern types can occur (for example bi-pixel events become single



pixel events). As long as a bad pixel does not occur at the peak of the PSF or extraction region, the errors in correction will not be significant.

Bad pixels can seem to come and go. Thus for any observation the user needs to check what has been produced by the standard processing in the way of identified new bad pixels.

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