XMM-Newton CCF Release Note

XMM-CCF-REL-89

EPIC PN Bad Pixels

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1 Changes

Changes with respect to previous CCFs consist of one additional line being set bad at the read-out end of all CCDs and the implementation of the July 2001 bad pixel table.
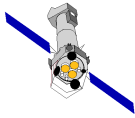
2 Scientific Impact of this Update

In order further to reduce noise, an additional 12th line has been set bad at the read-out end of all CCDs. Moreover, a new bad pixel table was implemented in the July 2001 database update. This includes additional bad pixels which constitute a further clean-up of bad pixels caused by the event in revolution 156, and those considered bad after the change of the offset map calculation to "median correction off".

The CCFs reflect these changes taking into account the oscillation between the old and new situations due to manual commanding and changes in the time-line.

3 Estimated Scientific Quality

Note that in all the EPIC cameras there are intermittent bad pixels that may arise in only one exposure. The user is recommended to run the bad pixel finding algorithm, and remove after processing.

4 CCF components

Name of CCF	VALDATE	List of Blocks changed	CAL VERSION	XSCS flag
EPN_BADPIX_0075	2001-04-20T08:00:00	BADPIX		NO
EPN_BADPIX_0076	2001-04-20T10:31:00	BADPIX		NO
EPN_BADPIX_0077	2001-04-22T07:30:00	BADPIX		NO
EPN_BADPIX_0078	2001-04-22T09:59:00	BADPIX		NO
EPN_BADPIX_0079	2001-05-14T14:30:00	BADPIX		NO
EPN_BADPIX_0080	2001-05-14T20:30:00	BADPIX		NO
EPN_BADPIX_0081	2001-05-22T05:00:00	BADPIX		NO
EPN_BADPIX_0082	2001-05-22T16:30:00	BADPIX		NO
EPN_BADPIX_0083	2001-05-23T07:15:00	BADPIX		NO
EPN_BADPIX_0084	2001-05-23T21:00:00	BADPIX		NO
EPN_BADPIX_0085	2001-05-26T08:05:00	BADPIX		NO
EPN_BADPIX_0086	2001-05-26T15:00:00	BADPIX		NO
EPN_BADPIX_0087	2001-06-03T04:30:00	BADPIX		NO
EPN_BADPIX_0088	2001-07-26T14:00:00	BADPIX		NO
EPN_BADPIX_0089	2001-07-29T04:50:00	BADPIX		NO
EPN_BADPIX_0090	2001-08-02T04:00:00	BADPIX		NO
EPN_BADPIX_0091	2001-08-12T03:50:00	BADPIX		NO
EPN_BADPIX_0092	2001-08-16T03:50:00	BADPIX		NO