XMM-Newton CCF Release Note

XMM-CCF-REL-10

RGS Background Data

C. Erd

September 8, 2000

1 CCF components

Name of CCF	VALDATE	List of Blocks changed	CAL VERSION	XSCS flag
RGS1_BACKGROUND_0001	1998-01-01T00:00:00	PARTICLE	—	NO
RGS2_BACKGROUND_0001	1998-01-01T00:00:00	PARTICLE	—	NO
RGS1_CALSOURCEDATA_0001	1998-01-01T00:00:00	CALSOURCEREGIONS	—	NO
RGS2_CALSOURCEDATA_0001	1998-01-01T00:00:00	CALSOURCEREGIONS	—	NO

2 Changes

`BACKGROUND` The background data are implemented with dummy zero values. This will be updated in the future, when a background model for becomes available.

`CALSOURCEDATA` Crude selection expressions for selection of calibration source data are provided. The `RGS_CALSOURCEDATA` are not currently used by the RGS processing by the SAS.

3 Scientific Impact of this Update

First release.

4 Estimated Scientific Quality

The accuracy of the intensity distribution of the calibration sources is about 10% for any given pixel.

Calibration sources may influence the order selected data, in particular for off-axis sources. Since the SAS does not make use of this data at this point in time, the user is advised to check the images of the RGS data in the cross-dispersion versus dispersion plane, and in the CCD PI versus dispersion plane (see output of `rgsimplot`). In particular care must be taken for sources at off-axis angles close to the edge of the FOV at the -XDSP side.

The current approach by the RGS processing is to determine the background from the actual data itself, rather than from calibration files.