

XMM-Newton CCF Release Note

XMM-CCF-REL-27

EPIC Filter Transmission

D Lumb

October 6, 2000

1 CCF components

Name of CCF	VALDATE	List of Blocks changed	CAL VERSION	XSCS flag
EMOS1_FILTRANSX_0006	2000_01_01T00:00:00	FILTER-THICK		NO
EMOS2_FILTRANSX_0006	2000_01_01T00:00:00	FILTER-THICK		NO
EPN_FILTRANSX_0008	2000_01_01T00:00:00	FILTER-THICK		NO

2 Changes

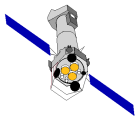
The data for the THICK filter have been changed to match the measurements made by the MPE team at BESY.

3 Scientific Impact of this Update

First release There should be better fitting of low energy spectra when the THICK filter is utilised.

4 Estimated Scientific Quality

Measurements of the same objects in different filters in Lockman Hole field suggested the transmission of THICK filter was under-estimated by about 10%. This is a little borne out by measurements of CAL83 in different filters.



Comparison between measured data from BESY and that of the old CCF file show a discrepancy of about the required magnitude. This filter only then is changed.

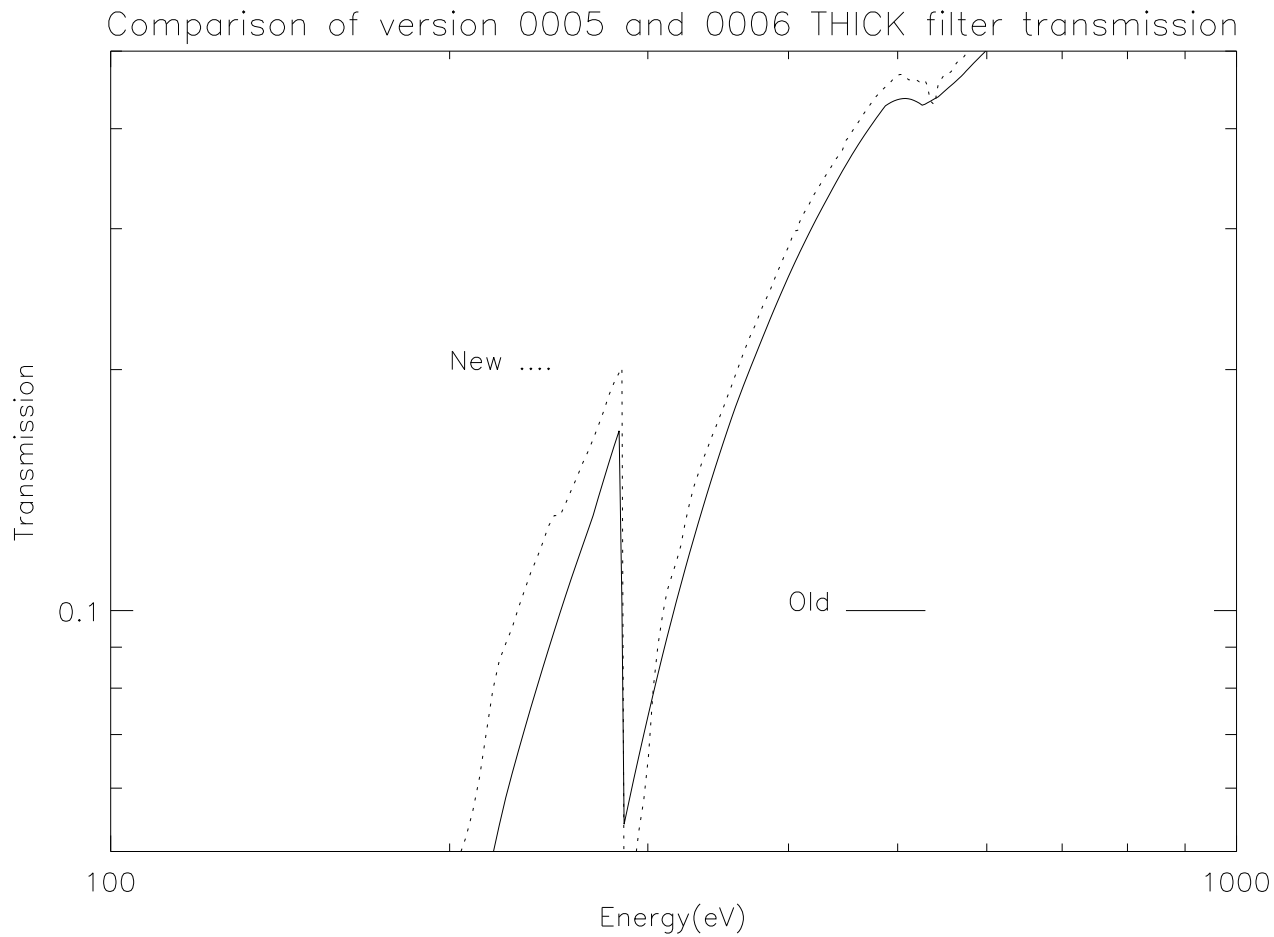


Figure 1:

5 Expected Updates

We know there are spatial variations around the C edge of THICK filter, and that not all filters are identical. These features will have to be updated.