XMM-Newton CCF Release Note

XMM-CCF-REL-39

EPIC Modes

D Lumb

November 7, 2000

1 CCF components

Name of CCF	VALDATE	List of Blocks changed	CAL VERSION	XSCS flag
EMOS1_MODEPARAM_0006	2000-01-01T00:00:00	MODEPARAM		YES
EMOS2_MODEPARAM_0006	2000-01-01T00:00:00	MODEPARAM		YES

2 Changes

Made several columns into vector columns so that we distinguish between inner and outer CCDs. Although we initially thought that the outer MOS CCDs would always be in the FULL FRAME mode, teh actual timing in most modes are synchronised to make the latter a multiple of inner CCD readout time.

Also fixed the numerical value of window size and times for mode 6 (aka RFS) which were incorrect

3 Scientific Impact of this Update

Modes should now be recognisably defined correctly for all cases and all CCDs.

Vector column usage should be backward compatible, as scalar value extraction will jus ttake the first value of the vector column.

4 Estimated Scientific Quality

Any imprecision in mode-dependent EXPOSURE corrections are expected to be small compared with the know deficiencies in effective area determination of CCDs and mirror.

5 Expected Updates

When new modes for different boresights are implemented, we expect to have small changes in mode timings