XMM-Newton CCF Release Note

XMM-CCF-REL-22

OM Lookup Tables

R. Much

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1   CCF components

Name of CCF	VALDATE	List of Blocks changed	CAL VERSION	XSCS flag
OM_DIFFUSEGALA_0001	2000-01-01T00:00:00	DGL_MAP		No
		DGL_SPEC		No
		DGL_COUNTS		No
OM_ZODIACAL_0001	2000-01-01T00:00:00	ZODICAL_MAP		No
		ZODIACAL_SPEC		No
		ZODIACAL_COUNTS		No
OM_QUICKMAG_0002	2000-01-01T00:00:00	FILTER-U		Yes
		FILTER-V		Yes
		FILTER-B		Yes
		FILTER-UVW1		Yes
		FILTER-UVW2		Yes
		FILTER-UVM2		Yes
		FILTER-WHITE		Yes
		FILTER-MAGNI		Yes
		FILTER-GRISM1		No
		FILTER-GRISM2		No
		FILTER-GRISM11		No
		FILTER-GRISM21		No

2   Changes

First release

The three files *om_diffusegala, om_zodiacal* and *om_quickmag* keep the values which are used as lookup tables for estimating photon rates by the PHS tools and by QLA. The files *om_diffusegala* and *om_zodiacal* keep an intensity map, the average spectrum and an estimate of the expected photon
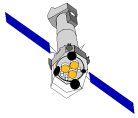
rate for the different filter elements of the diffuse galactic light and the zodiacal light respectively. The *om_quickmag* file contains estimates for the conversion factors from photon rates into magnitudes for different spectral types.

All three files contain pre-launch values.

Updates are expected once a better throughput calibration is available and also the origin of the throughput deficit is better understood.

3   Scientific Impact of this Update

First release

4   Estimated Scientific Quality

The data are currently not used within SAS and their usage is restricted to the operational system. Depending on wavelength the photon rate is overestimated between a factor 5 (UVW2) and 1.7 (V).