

# XMM-Newton CCF Release Note

XMM-CCF-REL-194

## OM PSF - A correction

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### 1 CCF components

Name of CCF	VALDATE	List of Blocks changed	CAL VERSION	XSCS flag
OM_PSF1DRB_0010		PSF-UVW1 PSF-UVM2 PSF-UVW2		No No No

### 2 Changes

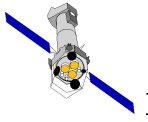
The OM PSF for the UV filters, (UVW1, UVM2, UVW2), was defined in Issue 0008 of this CCF (see XMM-CCF-REL-160). Unfortunately there was an error in the values of the central points of the PSF in all three filters. This has been corrected in this new issue.

### 3 Scientific Impact of this Update

Star count rates obtained with the current PSF CCF are slightly bigger than the ones derived by using the new issue. Differences are less than 3 % in all three filters and they are smaller for higher count rates.

### 4 Estimated Scientific Quality

The effect of this correction to the current PSF definition is almost negligible since we have other sources of error that are larger than this one. However, the defined PSF will be from now on formally



correct.

## 5 Test procedures

The standard stars normally used in the OM photometric calibration have been reprocessed with the new values of the PSF. Also another dense field repeatedly used by OM has been reprocessed.

## 6 Summary of the tests results

The ratios of old count rates and new ones are (mean values) 1.4 % for UVW1 filter, 1.5 % for UVM2 and 0.8 % for UVW2. They are less than 0.5 % at count rates higher than 10 counts/s.

## 7 Expected updates

PSF studies for the OM lenticular filters are completed. We do not expect any further update.