JX-ISAS-SUZAKU-MEMO-2006-32 Title: Description of the XRT calibration files for the v.1.2 data Category: XRT, Process Author: Y. Maeda Date: 2006-08-01

## Description of the XRT calibration files for the v.1.2 data

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# 1 Introduction

This document describes the XRT calibration files released in July 2006, which are used in the v.1.2 pipe-line processing and also in Guest Observers' analysis of the v.1.2 data.

Description of the calibration files released previously is found at http://www.astro.isas.jaxa.jp/suzaku/caldb/doc or http://suzaku.gsfc.nasa.gov/docs/heasarc/caldb/suzaku/docs

# 2 Geometry Files

### 2.1 Files

```
ae_xrt0_mirror_20060710.fits
ae_xrt1_mirror_20060710.fits
ae_xrt2_mirror_20060710.fits
ae_xrt3_mirror_20060710.fits
ae_xrt5_mirror_20060710.fits
```

### 2.2 Previous Files

```
ae_xrt0_mirror_20050505.fits
ae_xrt1_mirror_20050505.fits
ae_xrt2_mirror_20050505.fits
ae_xrt3_mirror_20050505.fits
ae_xrts_mirror_20050505.fits
ae_xrt0_pcol_20050505.fits
ae_xrt1_pcol_20050505.fits
ae_xrt2_pcol_20050505.fits
ae_xrt3_pcol_20050505.fits
```

# 2.3 Reason of Update

Format of the "mirror" files was changed such that new "Quadrant" extension is added, since now we have better calibration and can specify the mirror geometry for each quadrants individually. Also, at the same time, we to put the 'pcol' (precollimator) information in the mirror as a new extension. Consequently, "pcol" files are terminated.

Also, some CBD\* keywords were changed so that files can be easily searched for via calibration index file.

# 3 Reflectivity File

#### 3.1 File

ae\_xrta\_reflect\_20060710.fits

### 3.2 Previous File

ae\_xrta\_reflect\_20060419.fits

# 3.3 Reason of Update

Very small numbers of reflectivity ( $\sim 10^{-300}$ ) are set zero, otherwise "xissimarfgen" crashes on some architectures because of these infinitesimal numbers.

Also, some CBD\* keywords were changed so that files can be easily searched for via calibration index file.

# 4 Back Side Scattering Profile File

#### 4.1 File

ae\_xrta\_backprof\_20060719.fits

#### 4.2 Previous File

ae\_xrta\_backprof\_20060406.fits

### 4.3 Reason of Update

There was a typo in the old file that CCNM0001='BACPROF', which is fixed as 'BACKPROF'. CDES0001 value is also changed to describe the file content more precisely. Besides these keywords, content of the file is not changed.