

JX-ISAS-SUZAKU-MEMO-2008-02
Title: Update of the XRT calibration files
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Author: Y. Maeda
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Update of the XRT/XIS calibration files
Yoshitomo Maeda (ISAS), Yoshitaka Ishisaki (TMU) and the XRT team
e-mail: ymaeda@astro.isas.jaxa.jp
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1 Introduction

This document describes the XRT/XIS calibration files released in May 2008, which are used in Guest Observers' analysis. No change happens on the processed products.

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_20080303.fits
ae_xrt1_mirror_20080303.fits
ae_xrt2_mirror_20080303.fits
ae_xrt3_mirror_20080303.fits
ae_xrts_mirror_20080303.fits

2.2 Previous Files

ae_xrt0_mirror_20060710.fits
ae_xrt1_mirror_20060710.fits
ae_xrt2_mirror_20060710.fits
ae_xrt3_mirror_20060710.fits
ae_xrts_mirror_20060710.fits

2.3 Reason of Update

New calibration information was included in the updated files. The mirror description files are used to identical while those for the this version is different each other. For detail calibration information, refer to another companion memos (JX-ISAS-SUZAKU-MEMO-2008-03/04/05).

Keywords of THICKNES, MALIGN_M, MALIGN_N were newly added in FORMAT_VERSION(3)

3 Reflectivity File

3.1 File

ae_xrta_reflect_20080303.fits

3.2 Previous File

ae_xrta_reflect_20070407.fits

3.3 Reason of Update

This change was made to match to the updated xissim/xissimarfgen software. Keywords of SCATMODE,NVFSW, GAUSIGMA,NGAU,EXPSIGMA,NEXP,LORGAMMA,NLOR, SCATSW,W_NORM,W_POWER,G_NORM were newly added in FORMAT_VERSION(3) A column of SCATPROB is also added for faster calculation in SCATSW=1.

There is no change on the calibration information included in this file.

4 Telescope Definition Files

4.1 Files

```
ae_xi0_teldef_20080303.fits
ae_xi1_teldef_20080303.fits
ae_xi2_teldef_20080303.fits
ae_xi3_teldef_20080303.fits
```

4.2 Previous Files

```
ae_xi0_teldef_20060125.fits
ae_xi1_teldef_20060125.fits
ae_xi2_teldef_20060125.fits
ae_xi3_teldef_20060125.fits
```

4.3 Reason of Update

New calibration information on the optical axis (OPTAXISX/OPTAXISY) was included in the updated files. For detail calibration information, refer to another companion memos (JX-ISAS-SUZAKU-MEMO-2008-03/04/05).