OGIP Calibration Memo CAL/SAX/95-009

SAX CALIBRATION FILES IN THE HEASARC CALDB

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(by IMG)

SUMMARY

The *SAX* calibration datasets currently in the HEASARC calibration database are described.

NOTE: The datasets in this document were copied from the official SAX Science Data Center (SDC) anonymous ftp site `ftp://www.asdc.asi.it`. They are provided within the HEASARC calibration database only as a service to US users. All questions/comments regarding their creation/use should be addressed to: helpdesk@sax.sdc.asi.it

LOG OF SIGNIFICANT CHANGES TO THIS DOCUMENT

Release Date	Sections Changed	Brief Notes
1995 Jul 20	All	First Public Release
1995 Oct 10	3.2.1,3.2.2, 3.3.1,3.3.2, 3.4.1,3.4.2,	MECS files added & renamed
1995 Nov 07	2.4.2	`lecs_alpha.rmf` file added
2006 Mar 30	§§2.3.1 2.4.1 2.4.2 3.3.1 3.3.2 3.4.1 3.4.2 4.3.1 4.4.1 5.3.1 5.4.1 6.2.1 6.3.1	MFC: changed bcf/responses (which doesn't exist) to cpf/responses (which does); note that some of the ingest dates seem to be out of date with the real CALDB.
2006 May 17	all	MFC: made tth compatible with `tth`

Contents

Chapter 1

INTRODUCTION

1.1 Overview

This document is intended to provide a notes on the origin, format, limitations *etc* of all *SAX* calibration datasets within the HEASARC calibration database (caldb). By its nature, it is therefore very much a 'live' document and is expected to expand rapidly throughout the In-Orbit Check-out (IOC) and early AO phases of the mission.

In the rest of this chapter, the location and structure of the HEASARC caldb at NASA/GSFC is briefly described, along with references to other relevant documentation. All *SAX* LECS, MECS, HPGSFC, PDS & WFC datasets within the caldb at NASA/GSFC are then summarized in Chapters 2, 3, 4, 5, & 6 respectfully, with non-instrument specific datasets summarized in Chapter 7

1.1.1 Contact Person for Scientific Questions/Problems

The datasets in this document were copied from the official SAX Science Data Center (SDC) anonymous ftp site `www.asdc.asi.it`. They are provided within the HEASARC calibration database only as a service to US users.

Scientific questions, problems and comments regarding the contents of the datasets themselves should be addressed to the SAX Science Data Center (SDC) personel via `helpdesk@sax.sdc.asi.it`

1.2 The OGIP Caldb at NASA/GSFC

The location, organization and contents of the OGIP calibration database on-line at NASA/GSFC is summarized in OGIP Calibration Memo CAL/GEN/93-006.

1.2.1 Basic Structure

The contents of the `/caldb` area is sub-divided between the following sub-directory trees:

- `data` - containing the calibration dataset directory tree.
- `software` - containing the `caltools` software tasks, the `callib` subroutine library and a number of other software-related items.
- `docs` - containing related calibration documentation

Here we only consider the `data` tree. It should be noted that access to certain caldb directory trees is also available from other areas of the `legacy` anonymous ftp account via symbolic links (see CAL/GEN/93-006).

1.2.2 Calibration Data File Classes

The OGIP caldb classifies files as 'Primary Calibration Files', 'Basic Calibration Files' and 'Calibration Product Files' (PCFs, BCFs & CPFs respectively; see also CAL/GEN/91-001). PCFs are 'raw' ground and in-orbit calibration datasets not of immediate interest to most users as they are not directly required for (all but the most specialized) scientific data analysis tasks. These dataset are not considered here. BCFs contain the lowest level calibration datasets potentially required by downstrem software, and can be considered the 'atomic units' of the instrument calibration. CPFs contain 'convolutions' of the information stored within BCFs customized for a specific analysis task and/or scientific observation.

All BCF & CPF calibration files are organized using the scheme

`/caldb/data/`*mission*`/`*inst*

where *mission* & *inst* are the OGIP-standard names for the mission and instrument. For internal management purposes, a further division into *inst*`/bcf` and *inst*`/cpf` sub-directories is made in most cases. Non-instrument specific calibration datasets, including general spacecraft housekeeping information *etc*, can be found in the `/caldb/data/`*mission*`/mis` sub-directory.

1.3 Conventions used within this Document

Throughout this document, the hash (#) symbol is used as a wild-card in filenames to indicate several files are available with slightly different names. In all cases the detailed naming scheme, along with the characters which can be used to replace the # are described in the detailed description of the file set.

PLEASE NOTE: The filenames

and locations of the calibration datasets described within this document were chosen by the SAX SDC and/or hardware teams. Please dont complain to the CALDB if you consider them confusing, inappropriate *etc.*

1.4 Acknowledgments

The information within this document obviously could not have been compiled without the help of very many people within the *SAX* SDC and instrument teams, to whom we owe an enormous debt. Wherever possible we acknowledge the direct source of the information within the text, but undoubtedly this may often under-represent the collective effort involved. We apologise to anybody who has inadvertently not been credited, and will be happy to add their name in the appropriate place(s).

Chapter 2

SAX LECS CALIBRATION FILES

2.1 Summary of Available Files

The LECS calibration files available under the

`/caldb/data/sax/lecs/`*type*

directory tree are listed in Table 2.1. In many cases the actual files will be stored in sub-directories under this tree, as detailed in the corresponding detailed description.

Table 2.1: Summary of *SAX* LECS calibration files available within the OGIP Caldb

Filename	Description	Section
Basic Calibration Files (*type* = `bcf`)		
bgd_lecs_nostat_6.pha	Background spectrum	2.2.1
Calibration Product Files (*type* = `cpf`)		
lecs.arf	AO-1 ARF	2.3.1
lecs.rmf	AO-1 RMF	2.4.1
lecs_alpha.rmf	AO-1 RMF	2.4.2

2.2 BCF: LECS Background Spectra

2.2.1 bgd_lecs_nostat_6.pha

Location

caldb/data/sax/lecs/bcf/bgd

Status

CURRENT (Pre-launch)

Summary of File

LECS background spectrum in a 6 arcmin source region (which contains 80% of the power at 0.29 keV).

Delivered to CALDB by:

Copied by Ian M George (HEASARC) from SAX SDC 1995 Jul 20.

File Format

PHAVERSN = 1992a (OGIP/92-007)

Input Datasets, Assumptions, *etc*

- 0.1 – 10 keV internal background assumed to be 1.6×10^{-4} count s^{-1} $arcmin^{-2}$
- 0.1 – 10 keV cosmic background assumed to be 8.1×10^{-3} count s^{-1} $arcmin^{-2}$

Points to Note

- Pre-launch dataset for simulations only
- No statistical errors on the individual channel bins

2.3 CPF: Standard LECS Ancillary Response Files

2.3.1 lecs.arf

Location

caldb/data/sax/lecs/cpf/responses

Status

CURRENT (Pre-launch)

Summary of File

Standard (pre-launch) ARF.

Delivered to CALDB by:

Copied by Ian M George (HEASARC) from SAX SDC 1995 Jul 20.

File Format

ARFVERSN = 1992a (CAL/GEN/92-002)

Input Datasets, Assumptions, *etc*

- No additional information – assumed on-axis ARF

Points to Note

- Pre-launch dataset for simulations only

2.4 CPF: Standard LECS Detector Redistribution Matrices

2.4.1 lecs.rmf

Location

caldb/data/sax/lecs/cpf/responses

Status

CURRENT (Pre-launch) - but cannot be used on alpha/osf machines (see Points To Note below)

Summary of File

Standard (pre-launch) RMF.

Delivered to CALDB by:

Copied by Ian M George (HEASARC) from SAX SDC 1995 Jul 20.

File Format

RMFVERSN = 1992a (CAL/GEN/92-002)

Input Datasets, Assumptions, *etc*

- No additional information – assumed on-axis RMF

Points to Note

- 1995 Jul 20 (Ian M George, HEASARC)
  - Pre-launch dataset for simulations only
- 1995 Nov 07 (Ian M George, HEASARC)
  - **NOTE** This dataset cannot be used on alpha/osf machines due to data underflow problems. `lecs_alpha.rmf` (Section 2.4.2) should be used instead.

2.4.2 lecs_alpha.rmf

Location

caldb/data/sax/lecs/cpf/responses

Status

CURRENT (Pre-launch)

Summary of File

Standard (pre-launch) RMF. This file is essentially identical to `lecs.rmf` described in Section 2.4.1, but with the data underflow problems corrected.

Delivered to CALDB by:

Copied by Lorella Angelini (HEASARC) from SAX SDC 1995 Nov 07.

File Format

RMFVERSN = 1992a (CAL/GEN/92-002)

Input Datasets, Assumptions, *etc*

- No additional information – assumed on-axis RMF

Points to Note

- Pre-launch dataset for simulations only

Chapter 3

SAX MECS CALIBRATION FILES

3.1 Summary of Available Files

The MECS calibration files available under the

`/caldb/data/sax/mecs/`*type*

directory tree are listed in Table 3.1. In many cases the actual files will be stored in sub-directories under this tree, as detailed in the corresponding detailed description.

Table 3.1: Summary of *SAX* MECS calibration files available within the OGIP Caldb

Filename	Description	Section
Basic Calibration Files (*type* = `bcf`)		
bgd_mecs_nostat_25_jun1995.pha	Background spectrum	3.2.1
bgd_mecs_nostat_25.pha	Background spectrum	3.2.2
Calibration Product Files (*type* = `cpf`)		
mecs_jun1995.arf	AO-1 ARF (with error)	3.3.1
mecs.arf	AO-1 ARF	3.3.2
mecs_jun1995.rmf	AO-1 RMF (with error)	3.4.1
mecs.rmf	AO-1 RMF	3.4.2

3.2 BCF: MECS Background Spectra

3.2.1 bgd_mecs_nostat_25_jun1995.pha

Location

caldb/data/sax/mecs/bcf/bgd

Status

SUPERCEDED (See Section 3.2.2)

Summary of File

MECS background spectrum (with 140 PHA channels) in a 2.5 arcmin source region (which contains 80% of the power at 6.4 keV).

Delivered to CALDB by:

Copied by Ian M George (HEASARC) from SAX SDC 1995 Jul 20.

Between the period 1995 Jul 20 – Oct 10, this dataset was named `bgd_mecs_nostat_25.pha` within the CALDB. However, on the advice of the SAX team, it was **RENAMED** to `bgd_mecs_nostat_25_jun1995.pha` when an updated file (Section 3.2.2) of the same name was delivered. The CALDB apologises for any confusion this may bring.

File Format

PHAVERSN = 1992a (OGIP/92-007)

Input Datasets, Assumptions, *etc*

- 2 – 10 keV internal background assumed to be 2.8×10^{-3} count s^{-1} $arcmin^{-2}$
- 2 – 10 keV cosmic background assumed to be 1.6×10^{-3} count s^{-1} $arcmin^{-2}$

Points to Note

- 1995 Jul 20 (Ian M George, HEASARC)
  - Pre-launch dataset for simulations only
  - No statistical errors on the individual channel bins

- 1995 Oct 10 (Ian M George, HEASARC)
  - This dataset has been **RENAMED**
    Between the period 1995 Jul 20 – Oct 10, this dataset was named `bgd_mecs_nostat_25.pha` within the CALDB. However, on the advice of the SAX team, it was renamed to `bgd_mecs_nostat_25_jun1995.pha` when an updated file (Section 3.2.2) of the same name was delivered.

3.2.2 bgd_mecs_nostat_25.pha

Location

caldb/data/sax/mecs/bcf/bgd

Status

CURRENT (Pre-launch)

Summary of File

MECS background spectrum (with 256 PHA channels) in a 2.5 arcmin source region (which contains 80% of the power at 6.4 keV).

Delivered to CALDB by:

Lorella Angelini (HEASARC) 1995 Oct 10, following a visit to the SAX SDC.

File Format

PHAVERSN = 1992a (OGIP/92-007)

Input Datasets, Assumptions, *etc*

- 2 – 10 keV internal background assumed to be 2.8×10^{-3} count s^{-1} arcmin^{-2}
- 2 – 10 keV cosmic background assumed to be 1.6×10^{-3} count s^{-1} arcmin^{-2}

Points to Note

- 1995 Oct 10 (Ian M George, HEASARC)
  - Pre-launch dataset for simulations only

- No statistical errors on the individual channel bins
- Between the period 1995 Jul 20 – Oct 10, a dataset of this name existed in the CALDB. However this earlier dataset was **RENAMED** to `bgd_mecs_nostat_25_jun1995.pha` (Section 3.2.1) on the advice of the SAX team, when the new version of `bgd_mecs_nostat_25.pha` was delivered.

3.3 CPF: Standard MECS Ancillary Response Files

3.3.1 mecs_jun1995.arf

Location

caldb/data/sax/mecs/cpf/responses

Status

SUPERCEDED (see Section 3.3.2)

Summary of File

Standard (pre-launch) ARF.

Delivered to CALDB by:

Copied by Ian M George (HEASARC) from SAX SDC 1995 Jul 20.

Between the period 1995 Jul 20 – Oct 10, this dataset was named `mecs.arf` within the CALDB. However, on the advice of the SAX team, it was **RENAMED** to `mecs_jun1995.arf` when an updated file (Section 3.3.2) of the same name was delivered. The CALDB apologises for any confusion this may bring.

File Format

ARFVERSN = 1992a (CAL/GEN/92-002)

Input Datasets, Assumptions, *etc*

- No additional information – assumed on-axis ARF

Points to Note

- 1995 Jul 20 (Ian M George, HEASARC)
  - Pre-launch dataset for simulations only
- 1995 Oct 10 (Ian M George, HEASARC)
  - The effective area curve used to construct this curve is thought to have contained an error.

- This dataset has been **RENAMED**
  Between the period 1995 Jul 20 – Oct 10, this dataset was named `mecs.arf` within the CALDB. However, on the advice of the SAX team, it was renamed to `mecs_jun1995.arf` when an updated file (Section 3.3.2) of the same name was delivered.

3.3.2 mecs.arf

Location

caldb/data/sax/mecs/cpf/responses

Status

CURRENT (Pre-launch)

Summary of File

Standard (pre-launch) ARF.

Delivered to CALDB by:

Lorella Angelini (HEASARC) 1995 Oct 10, following a visit to the SAX SDC.

File Format

ARFVERSN = 1992a (CAL/GEN/92-002)

Input Datasets, Assumptions, *etc*

- No additional information – assumed on-axis ARF
- This dataset used a revised effective area curve, and is approximately 25% larger at 6 keV than previously).

Points to Note

- 1995 Oct 10 (Ian M George, HEASARC)
  - Pre-launch dataset for simulations only
  - This dataset was constructed from a revised effective area curve (in which the error thought to exist in the `mecs_jun1995.arf` dataset – Section 3.3.1 – has been corrected).

– Between the period 1995 Jul 20 – Oct 10, a dataset of this name existed in the CALDB. However this earlier dataset was **RENAMED** to `mecs_jun1995.arf` (Section 3.3.1) on the advice of the SAX team, when the new version of `mecs.arf` was delivered.

3.4 CPF: Standard MECS Detector Redistribution Matrices

3.4.1 mecs_jun1995.rmf

Location

caldb/data/sax/mecs/cpf/responses

Status

SUPERCEDED (see Section 3.4.2)

Summary of File

Standard (pre-launch) RMF, using 140 PHA channels.

Delivered to CALDB by:

Copied by Ian M George (HEASARC) from SAX SDC 1995 Jul 20.

Between the period 1995 Jul 20 – Oct 10, this dataset was named `mecs.rmf` within the CALDB. However, on the advice of the SAX team, it was **RENAMED** to `mecs_jun1995.rmf` when an updated file (Section 3.4.2) of the same name was delivered. The CALDB apologises for any confusion this may bring.

File Format

RMFVERSN = 1992a (CAL/GEN/92-002)

Input Datasets, Assumptions, *etc*

- No additional information – assumed on-axis RMF

Points to Note

- 1995 Jul 20 (Ian M George, HEASARC)
  - Pre-launch dataset for simulations only
- 1995 Oct 10 (Ian M George, HEASARC)
  - This matrix is thought to contain an error – specifically a discontinuity in the energy–channel relationship

  - This dataset has been **RENAMED**
    Between the period 1995 Jul 20 – Oct 10, this dataset was named `mecs.rmf` within the CALDB. However, on the advice of the SAX team, it was renamed to `mecs_jun1995.rmf` when an updated file (Section 3.4.2) of the same name was delivered.

3.4.2 mecs.rmf

Location

caldb/data/sax/mecs/cpf/responses

Status

CURRENT (Pre-launch)

Summary of File

Standard (pre-launch) RMF, with 256 PHA channels

Delivered to CALDB by:

Lorella Angelini (HEASARC) 1995 Oct 10, following a visit to the SAX SDC.

File Format

RMFVERSN = 1992a (CAL/GEN/92-002)

Input Datasets, Assumptions, *etc*

- No additional information – assumed on-axis RMF

Points to Note

- 1995 Oct 10 (Ian M George, HEASARC)
  - Pre-launch dataset for simulations only
  - Between the period 1995 Jul 20 – Oct 10, a dataset of this name existed in the CALDB. However this earlier dataset was **RENAMED** to `mecs_jun1995.rmf` (Section 3.4.1) on the advice of the SAX team, when the new version of `mecs.rmf` was delivered.

Chapter 4

SAX HPGSPC CALIBRATION FILES

4.1 Summary of Available Files

The HPGSPC calibration files available under the

`/caldb/data/sax/hpgspc/`*type*

directory tree are listed in Table 4.1. In many cases the actual files will be stored in sub-directories under this tree, as detailed in the corresponding detailed description.

Table 4.1: Summary of *SAX* HPGSPC calibration files available within the OGIP Caldb

Filename	Description	Section
Basic Calibration Files (*type* = `bcf`)		
bgd_hpgspc_nostat.pha	Background spectrum	4.2.1
bgd_hpgspc_#.pha	Background spectra	4.2.2
Calibration Product Files (*type* = `cpf`)		
hpgspc.arf	AO-1 ARF	4.3.1
hpgspc.rmf	AO-1 RMF	4.4.1
None		

4.2 BCF: HPGSPC Background Spectra

4.2.1 bgd_hpgspc_nostat.pha

Location

caldb/data/sax/hpgspc/bcf/bgd

Status

CURRENT (Pre-launch)

Summary of File

HPGSPC background spectrum.

Delivered to CALDB by:

Copied by Ian M George (HEASARC) from SAX SDC 1995 Jul 20.

File Format

PHAVERSN = 1992a (OGIP/92-007)

Input Datasets, Assumptions, *etc*

- 4 – 120 keV background is 77.2count s^{-1}

Points to Note

- Pre-launch dataset for simulations only
- No statistical errors on the individual channel bins. Similar datasets, but with statistical errors on the individual channel bins are also available (Section 4.2.2)

4.2.2 bgd_hpgspc_#.pha

Location

caldb/data/sax/hpgspc/bcf/bgd

Status

CURRENT (Pre-launch)

Summary of Files

Two HPGSPC background spectra, `bgd_hpgspc_20.pha` & `bgd_hpgspc_50.pha`, (with statistics on the individual channel bins) appropriate for a 20 ksec & 50 ksec observations respectively.

Delivered to CALDB by:

Copied by Ian M George (HEASARC) from SAX SDC 1995 Jul 20.

File Format

PHAVERSN = 1992a (OGIP/92-007)

Input Datasets, Assumptions, *etc*

- No additional information

Points to Note

- Pre-launch dataset for simulations only
- A similar dataset, but without statistical errors on the individual channel bins is also available (Section 4.2.1)

4.3 CPF: Standard HPGSPC Ancillary Response Files

4.3.1 hpgspc.arf

Location

caldb/data/sax/hpgspc/cpf/responses

Status

CURRENT (Pre-launch)

Summary of File

Standard (pre-launch) ARF.

Delivered to CALDB by:

Copied by Ian M George (HEASARC) from SAX SDC 1995 Jul 20.

File Format

ARFVERSN = 1992a (CAL/GEN/92-002)

Input Datasets, Assumptions, *etc*

- No additional information – assumed on-axis ARF

Points to Note

- Pre-launch dataset for simulations only

4.4 CPF: Standard HPGSPC Detector Redistribution Matrices

4.4.1 hpgspc.rmf

Location

caldb/data/sax/hpgspc/cpf/responses

Status

CURRENT (Pre-launch)

Summary of File

Standard (pre-launch) RMF.

Delivered to CALDB by:

Copied by Ian M George (HEASARC) from SAX SDC 1995 Jul 20.

File Format

RMFVERSN = 1992a (CAL/GEN/92-002)

Input Datasets, Assumptions, *etc*

- No additional information – assumed on-axis RMF

Points to Note

- Pre-launch dataset for simulations only

Chapter 5

SAX PDS CALIBRATION FILES

5.1 Summary of Available Files

The PDS calibration files available under the

`/caldb/data/sax/pds/`*type*

directory tree are listed in Table 5.1. In many cases the actual files will be stored in sub-directories under this tree, as detailed in the corresponding detailed description.

Table 5.1: Summary of *SAX* PDS calibration files available within the OGIP Caldb

Filename	Description	Section
Basic Calibration Files (*type* = `bcf`)		
bgd_pds_nostat.pha	Background spectrum	5.2.1
bgd_pds_#.pha	Background spectra	5.2.2
Calibration Product Files (*type* = `cpf`))		
pds.arf	AO-1 ARF	5.3.1
pds.rmf	AO-1 RMF	5.4.1
None		

5.2 BCF: PDS Background Spectra

5.2.1 bgd_pds_nostat.pha

Location

caldb/data/sax/pds/bcf/bgd

Status

CURRENT (Pre-launch)

Summary of File

PDS background spectrum.

Delivered to CALDB by:

Copied by Ian M George (HEASARC) from SAX SDC 1995 Jul 20.

File Format

PHAVERSN = 1992a (OGIP/92-007)

Input Datasets, Assumptions, *etc*

- 15 – 300 keV background is 32.8count s^{-1}

Points to Note

- Pre-launch dataset for simulations only
- No statistical errors on the individual channel bins. Similar datasets, but with statistical errors on the individual channel bins are also available (Section 5.2.2)

5.2.2 bgd_pds_#.pha

Location

caldb/data/sax/pds/bcf/bgd

Status

CURRENT (Pre-launch)

Summary of Files

Two PDS background spectra, `bgd_pds_20.pha` & `bgd_pds_50.pha`, (with statistics on the individual channel bins) appropriate for a 20 ksec & 50 ksec observations respectively.

Delivered to CALDB by:

Copied by Ian M George (HEASARC) from SAX SDC 1995 Jul 20.

File Format

PHAVERSN = 1992a (OGIP/92-007)

Input Datasets, Assumptions, *etc*

- No additional information

Points to Note

- Pre-launch dataset for simulations only
- A similar dataset, but without statistical errors on the individual channel bins is also available (Section 5.2.1)

5.3 CPF: Standard PDS Ancillary Response Files

5.3.1 pds.arf

Location

caldb/data/sax/pds/cpf/responses

Status

CURRENT (Pre-launch)

Summary of File

Standard (pre-launch) ARF.

Delivered to CALDB by:

Copied by Ian M George (HEASARC) from SAX SDC 1995 Jul 20.

File Format

ARFVERSN = 1992a (CAL/GEN/92-002)

Input Datasets, Assumptions, *etc*

- No additional information – assumed on-axis ARF

Points to Note

- Pre-launch dataset for simulations only

5.4 CPF: Standard PDS Detector Redistribution Matrices

5.4.1 pds.rmf

Location

caldb/data/sax/pds/cpf/responses

Status

CURRENT (Pre-launch)

Summary of File

Standard (pre-launch) RMF.

Delivered to CALDB by:

Copied by Ian M George (HEASARC) from SAX SDC 1995 Jul 20.

File Format

RMFVERSN = 1992a (CAL/GEN/92-002)

Input Datasets, Assumptions, *etc*

- No additional information – assumed on-axis RMF

Points to Note

- Pre-launch dataset for simulations only

Chapter 6

SAX WPC CALIBRATION FILES

6.1 Summary of Available Files

The WFC calibration files available under the

`/caldb/data/sax/wfc/`*type*

directory tree are listed in Table 6.1. In many cases the actual files will be stored in sub-directories under this tree, as detailed in the corresponding detailed description.

Table 6.1: Summary of *SAX* WFC calibration files available within the OGIP Caldb

Filename	Description	Section
Basic Calibration Files (*type* = `bcf`))		
None		
Calibration Product Files (*type* = `cpf`))		
wfc.arf	AO-1 ARF	6.2.1
wfc.rmf	AO-1 RMF	6.3.1

6.2 CPF: Standard WFC Ancillary Response Files

6.2.1 wfc.arf

Location

caldb/data/sax/wfc/cpf/responses

Status

CURRENT (Pre-launch)

Summary of File

Standard (pre-launch) ARF.

Delivered to CALDB by:

Copied by Ian M George (HEASARC) from SAX SDC 1995 Jul 20.

File Format

ARFVERSN = 1992a (CAL/GEN/92-002)

Input Datasets, Assumptions, *etc*

- No additional information – assumed on-axis ARF

Points to Note

- Pre-launch dataset for simulations only

6.3 CPF: Standard WFC Detector Redistribution Matrices

6.3.1 wfc.rmf

Location

caldb/data/sax/wfc/cpf/responses

Status

CURRENT (Pre-launch)

Summary of File

Standard (pre-launch) RMF.

Delivered to CALDB by:

Copied by Ian M George (HEASARC) from SAX SDC 1995 Jul 20.

File Format

RMFVERSN = 1992a (CAL/GEN/92-002)

Input Datasets, Assumptions, *etc*

- No additional information – assumed on-axis RMF

Points to Note

- Pre-launch dataset for simulations only

Chapter 7

SAX MISCELLANEOUS CALIBRATION FILES

7.1 Summary of Available Files

The miscellaneous non-instrument specific & s/c-related calibration files available under the

`/caldb/data/sax/mis/`*type*

directory tree are listed in Table 7.1. In many cases the actual files will be stored in sub-directories under this tree, as detailed in the corresponding detailed description.

Table 7.1: Summary of *SAX* MIS calibration files available within the OGIP Caldb

Filename	Description	Section
Basic Calibration Files (*type* = `bcf`))		
None		
Calibration Product Files (*type* = `cpf`))		
None		