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| **Customer :**  **Contract No :**  **WP No :** | **ESRIN**  **21525/08/I-OL** | | | **Document Ref :**  **Issue Date :**  **Issue :** | **16 October 2013** | | |
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| **Distribution :** | **Hard Copy File:**  **Filename:** GOMOS\_v6.01\_ADF\_3rd\_reprocessing\_\_.doc | | | | | | |
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AMENDMENT POLICY

This document shall be amended by releasing a new edition of the document in its entirety. The Amendment Record Sheet below records the history and issue status of this document.

AMENDMENT RECORD SHEET

| **ISSUE** | **DATE** | **DCI No** | **REASON** |
| --- | --- | --- | --- |
| 1 | 10 Mar 2011 | N/A | Initial Issue |
| 2 | 11 Mar 2011 | N/A | Added attitude files |
| 3 | 14 Mar 2011 | N/A | Inclusion of reflectivity LUT update and slit width variation update |
| 4 | 13 May 2011 | N/A | Inclusion of GOM\_CAL\_AX ADF set for processing data before cycle 9 (orbit 2780, before date 20020911 08:31:49) |
| 5 | 08 Sep 2011 | N/A | Latest list of GOM\_CAL\_AX validated with IECF |
| 6 | 23 Sep 2011 | N/A | Small corrections |
| 7 | 30 Sep 2011 | N/A | Inclusion of the GOM\_CAL\_AX covering period of reprocessing (01-MAY-2011 🡪 19-JUL-2011) |
| 8 | 28 May 2012 | N/A | The GOM\_CAL\_AX files with validity after cycle 9 had a wrong wavelength calibration applied. The list of section 2.1 has been updated with the list of corrected GOM\_CAL\_AX files. |
| 9 | 29 May 2012 | N/A | Section 2.1: added the last 5 GOM\_CAL\_AX files, covering year 2012 until mission interruption on 08 April 2012 |
| 10 | 16 Oct 2013 | N/A | Section 2.1: substitute the latest 18 files with the ones created on 26-JUN-2012. These files cover the validity times after 05-JUL-2011, date in which an annealing procedure was applied to GOMOS spectrometers. This procedure affected the wavelength assignment and IDEAS team received the corrected wavelength law from ACRI ESL. |

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# Introduction

## Purpose and Scope

This document reports on the Auxiliary Data Files (ADFs) that needs to be used for the third GOMOS reprocessing activity with version 6.01. The reprocessing period is:

**01-MAR-2002 🡪 08-APR-2012 (included)**

The GOM\_CAL\_AX provided cover the entire period:

2 Auxiliary Data Files for Level 1b processing

List of ADFs to be used when processing from Level 0 to Level 1b data

3 Auxiliary Data Files for the Level 2 processing

List of ADFs to be used when processing from Level 1b to Level 2 data

4 Glossary

The Glossary contains definitions of acronyms, abbreviations and terms used throughout the document.

APPENDIX A GOM\_CAL\_AX Creation

Detailed description of the steps needed to create the GOM\_CAL\_AX dataset to be used for the full mission reprocessing.

## Referenced Documents

The following is a list of documents with a direct bearing on the content of this report. Where referenced in the text, these are identified as RD.n, where 'n' is the number in the list below:

RD.1 «GOMOS Calibration ADF : iPRNU update procedure», v 1.0, 17 January 2011

## Definitions of Terms

The following terms have been used in this report with the meanings shown.

**Term Definition**

IDEAS Instrument Data quality Evaluation and Analysis Service, reporting to the ESA Data Quality and Algorithms Management Office (EOP-GQ), responsible for quality of data provided to users including the data calibration and validation, the data processing algorithms, and the routine instrument and processing chain performances.

# Auxiliary Data Files for Level 1b processing

## GOM\_CAL\_AX

The GOM\_CAL\_AX files are dynamic files used by the processing in order to generate the Level 1b products. These files have been regularly updated with a frequency that has changed over the mission depending on instrument detectors feature findings. At the beginning of the mission it was updated with a frequency of roughly one month and afterwards it started to be updated with a frequency of around 7-10 days.

Some parameters included in the GOM\_CAL\_AX files needed to be updated as part of the new configuration for the 3rd reprocessing activity with GOMOS Instrument Processor Facility (IPF) version 6.01. In order to do so, the files have been updated following GOMOS ESL recommendations:

* Files with validity start **after** **11 September 2002 08:31:49** have been updated with:
* New Pixel Response Non Uniformity/intraPixel Response Non Uniformity (PRNU/iPRNU) maps: by following the procedure described in the document RD.1
* Wavelength assignment (WA) updated: by following the procedure described in an email from Gilbert Barrot (ACRI) on 25-FEB-2011; Subject: ‘[GOMOS] GOM\_CAL\_AX update’. A FORTRAN code delivered in the same email has been slightly modified and used after compilation with F90.

**[The wavelength was afterwards updated because there was a bug in the Fortran program delivered. The new law was received via email from Gilbert Barrot (ACRI) on 04/11/2011, subject: “RE: WA correction steps (updated create\_wl\_info software)”]**

**[New wavelength assignment law for data after 05-JUL-2011: new GOM\_CAL\_AX have been built for data after 05-JUL-2011, date in which an annealing procedure was applied to GOMOS spectrometers. This annealing procedure affected the wavelength assignment but it was not corrected for in previous set of GOM\_CAL\_AX files. IDEAS team received the correction (new wavelength law), provided by ACRI ESL and generated the GOM\_CAL\_AX files.]**

**The GOM\_CAL\_AX files listed in this section are correct.**

* DC thermal sensitivity Look Up Tables (LUTs) updated: by following the procedure received via email from Gilbert Barrot (ACRI) on 08-FEB-2011; Subject: ‘[GOMOS] GOM\_CAL\_AX update (dark charge thermal sensitivity)’
* Reflectivity LUT and slit width variation updates: by following the procedure received via email from Gilbert Barrot (ACRI) on 11-MAR-2011, subject: ‘Re: GOM\_CAL\_AX for third reprocessing: verification’ @ 17:11. *Note: other emails were received during the day, but the one with correct values for slit width variation was sent @ 17:11*
* Files with validity start **before** **11 September 2002 08:31:49** have been updated with:
* New intraPixel Response Non Uniformity (PRNU/iPRNU) maps: by following the procedure described in the document RD.1. *Note: only for iPRNU (the PRNU maps have been left as they are)*
* DC thermal sensitivity Look Up Tables (LUTs) updated: by following the procedure received via email from Gilbert Barrot (ACRI) on 08-FEB-2011; Subject: ‘[GOMOS] GOM\_CAL\_AX update (dark charge thermal sensitivity)’
* Reflectivity LUT update: by following the procedure received via email from Gilbert Barrot (ACRI) on 11-MAR-2011, subject: ‘Re: GOM\_CAL\_AX for third reprocessing: verification’ @ 17:11. *Note: only for reflectivity LUT*
* Slit width variation update: updated for SPA1 and SPA2 (set to the inverse of the average over useful columns of SPA1 PRNU and SPA2 PRNU respectively). Emails exchanges between Gilbert Barrot and Lidia Saavedra, with [gomos@eo-sppa.org](mailto:gomos@eo-sppa.org) in cc.

All the files, once updated, have been validated with IECF in order to verify that the format of the files is ok. Thus, in the filename the string “**VIEC**” is present, indicated that the file is validated and disseminated (to a local fake directory) with IECF.

The details of the creation of all the GOM\_CAL\_AX needed for the reprocessing can be found on APPENDIX A

The GOM\_CAL\_AX to be used for the 3rd reprocessing activity are:

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  | | --- | | GOM\_CAL\_AXVIEC20110901\_200608\_20020301\_000000\_20020515\_205615 | | GOM\_CAL\_AXVIEC20110901\_200711\_20020408\_024022\_20020515\_205615 | | GOM\_CAL\_AXVIEC20110901\_200814\_20020421\_032416\_20020515\_205615 | | GOM\_CAL\_AXVIEC20110901\_200917\_20020429\_023232\_20020515\_205615 | | GOM\_CAL\_AXVIEC20110901\_201022\_20020505\_234131\_20020515\_205615 | | GOM\_CAL\_AXVIEC20110901\_201124\_20020515\_205615\_20020717\_193546 | | GOM\_CAL\_AXVIEC20110901\_201228\_20020527\_225953\_20020717\_193546 | | GOM\_CAL\_AXVIEC20110901\_201331\_20020606\_233546\_20020717\_193546 | | GOM\_CAL\_AXVIEC20110901\_201433\_20020619\_141351\_20020717\_193546 | | GOM\_CAL\_AXVIEC20110901\_201537\_20020630\_055510\_20020717\_193546 | | GOM\_CAL\_AXVIEC20110901\_201641\_20020705\_045741\_20020717\_193546 | | GOM\_CAL\_AXVIEC20110901\_201744\_20020708\_164737\_20020717\_193546 | | GOM\_CAL\_AXVIEC20110901\_201847\_20020712\_034716\_20020717\_193546 | | GOM\_CAL\_AXVIEC20110901\_201950\_20020717\_193546\_20020911\_083149 | | GOM\_CAL\_AXVIEC20110901\_202053\_20020724\_164445\_20020911\_083149 | | GOM\_CAL\_AXVIEC20110901\_202157\_20020802\_033712\_20020911\_083149 | | GOM\_CAL\_AXVIEC20110901\_202300\_20020809\_054759\_20020911\_083149 | | GOM\_CAL\_AXVIEC20110901\_202404\_20020818\_065532\_20020911\_083149 | | GOM\_CAL\_AXVIEC20110908\_082432\_20020828\_132333\_20020911\_083149 | | GOM\_CAL\_AXVIEC20111114\_164750\_20110607\_000000\_20500101\_000000 | |
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| GOM\_CAL\_AXVIEC20111114\_192638\_20091019\_000000\_20100101\_000000 |
| GOM\_CAL\_AXVIEC20111114\_192740\_20091027\_000000\_20100101\_000000 |
| GOM\_CAL\_AXVIEC20111114\_192844\_20091104\_000000\_20100101\_000000 |
| GOM\_CAL\_AXVIEC20111114\_192947\_20091114\_000000\_20100101\_000000 |
| GOM\_CAL\_AXVIEC20111114\_193051\_20091121\_000000\_20500101\_000000 |
| GOM\_CAL\_AXVIEC20111114\_193154\_20091128\_000000\_20500101\_000000 |
| GOM\_CAL\_AXVIEC20111114\_193257\_20091205\_000000\_20500101\_000000 |
| GOM\_CAL\_AXVIEC20111114\_193401\_20091212\_000000\_20500101\_000000 |
| GOM\_CAL\_AXVIEC20111114\_193505\_20091220\_000000\_20500101\_000000 |
| GOM\_CAL\_AXVIEC20111114\_193608\_20091227\_000000\_20500101\_000000 |
| GOM\_CAL\_AXVIEC20111114\_193712\_20100103\_000000\_20500101\_000000 |
| GOM\_CAL\_AXVIEC20111114\_193814\_20100110\_000000\_20500101\_000000 |
| GOM\_CAL\_AXVIEC20111114\_193918\_20100118\_000000\_20500101\_000000 |
| GOM\_CAL\_AXVIEC20111114\_194022\_20100125\_000000\_20500101\_000000 |
| GOM\_CAL\_AXVIEC20111114\_194125\_20100131\_000000\_20500101\_000000 |
| GOM\_CAL\_AXVIEC20111114\_194227\_20100209\_000000\_20500101\_000000 |
| GOM\_CAL\_AXVIEC20111114\_194331\_20100214\_000000\_20500101\_000000 |
| GOM\_CAL\_AXVIEC20111114\_194435\_20100221\_000000\_20500101\_000000 |
| GOM\_CAL\_AXVIEC20111114\_194538\_20100228\_000000\_20500101\_000000 |
| GOM\_CAL\_AXVIEC20111114\_194641\_20100307\_000000\_20500101\_000000 |
| GOM\_CAL\_AXVIEC20111114\_194745\_20100315\_000000\_20500101\_000000 |
| GOM\_CAL\_AXVIEC20111114\_194848\_20100322\_000000\_20500101\_000000 |
| GOM\_CAL\_AXVIEC20111114\_194951\_20100328\_000000\_20500101\_000000 |
| GOM\_CAL\_AXVIEC20111114\_195054\_20100406\_000000\_20500101\_000000 |
| GOM\_CAL\_AXVIEC20111114\_195158\_20100411\_000000\_20500101\_000000 |
| GOM\_CAL\_AXVIEC20111114\_195301\_20100420\_000000\_20500101\_000000 |
| GOM\_CAL\_AXVIEC20111114\_195404\_20100427\_000000\_20500101\_000000 |
| GOM\_CAL\_AXVIEC20111114\_195507\_20100501\_000000\_20500101\_000000 |
| GOM\_CAL\_AXVIEC20111114\_195611\_20100509\_000000\_20500101\_000000 |
| GOM\_CAL\_AXVIEC20111114\_195713\_20100516\_000000\_20500101\_000000 |
| GOM\_CAL\_AXVIEC20111114\_195817\_20100525\_000000\_20500101\_000000 |
| GOM\_CAL\_AXVIEC20111114\_195921\_20100603\_000000\_20500101\_000000 |
| GOM\_CAL\_AXVIEC20111114\_200023\_20100607\_000000\_20500101\_000000 |
| GOM\_CAL\_AXVIEC20111114\_200126\_20100613\_000000\_20500101\_000000 |
| GOM\_CAL\_AXVIEC20111114\_200230\_20100622\_000000\_20500101\_000000 |
| GOM\_CAL\_AXVIEC20111114\_200332\_20100627\_000000\_20500101\_000000 |
| GOM\_CAL\_AXVIEC20111114\_200436\_20100704\_000000\_20500101\_000000 |
| GOM\_CAL\_AXVIEC20111114\_200539\_20100712\_000000\_20500101\_000000 |
| GOM\_CAL\_AXVIEC20111114\_200642\_20100718\_000000\_20500101\_000000 |
| GOM\_CAL\_AXVIEC20111114\_200745\_20100725\_000000\_20500101\_000000 |
| GOM\_CAL\_AXVIEC20111114\_200849\_20100801\_000000\_20500101\_000000 |
| GOM\_CAL\_AXVIEC20111114\_200951\_20100808\_000000\_20500101\_000000 |
| GOM\_CAL\_AXVIEC20111114\_201055\_20100816\_000000\_20500101\_000000 |
| GOM\_CAL\_AXVIEC20111114\_201158\_20100822\_000000\_20500101\_000000 |
| GOM\_CAL\_AXVIEC20111114\_201302\_20100904\_000000\_20500101\_000000 |
| GOM\_CAL\_AXVIEC20111114\_201405\_20100916\_000000\_20500101\_000000 |
| GOM\_CAL\_AXVIEC20111114\_201508\_20100922\_000000\_20500101\_000000 |
| GOM\_CAL\_AXVIEC20111114\_201612\_20101002\_000000\_20500101\_000000 |
| GOM\_CAL\_AXVIEC20111114\_201714\_20101009\_000000\_20500101\_000000 |
| GOM\_CAL\_AXVIEC20111114\_201818\_20101018\_000000\_20500101\_000000 |
| GOM\_CAL\_AXVIEC20111114\_201921\_20101129\_000000\_20500101\_000000 |
| GOM\_CAL\_AXVIEC20111114\_202025\_20101212\_000000\_20500101\_000000 |
| GOM\_CAL\_AXVIEC20111114\_202128\_20101226\_000000\_20500101\_000000 |
| GOM\_CAL\_AXVIEC20111114\_202231\_20110102\_000000\_20500101\_000000 |
| GOM\_CAL\_AXVIEC20111114\_202335\_20110110\_000000\_20500101\_000000 |
| GOM\_CAL\_AXVIEC20111114\_202438\_20110117\_000000\_20500101\_000000 |
| GOM\_CAL\_AXVIEC20111114\_202541\_20110123\_000000\_20500101\_000000 |
| GOM\_CAL\_AXVIEC20111114\_202645\_20110206\_000000\_20500101\_000000 |
| GOM\_CAL\_AXVIEC20111114\_202747\_20110214\_000000\_20500101\_000000 |
| GOM\_CAL\_AXVIEC20111114\_202851\_20110221\_000000\_20500101\_000000 |
| GOM\_CAL\_AXVIEC20111114\_202955\_20110228\_000000\_20500101\_000000 |
| GOM\_CAL\_AXVIEC20111114\_203058\_20050726\_000000\_20100101\_000000 |
| GOM\_CAL\_AXVIEC20111114\_203202\_20050805\_000000\_20100101\_000000 |
| GOM\_CAL\_AXVIEC20111114\_203305\_20050815\_000000\_20100101\_000000 |
| GOM\_CAL\_AXVIEC20111114\_203408\_20050901\_000000\_20100101\_000000 |
| GOM\_CAL\_AXVIEC20111114\_203511\_20050913\_000000\_20100101\_000000 |
| GOM\_CAL\_AXVIEC20111114\_203614\_20050923\_000000\_20100101\_000000 |
| GOM\_CAL\_AXVIEC20111114\_203717\_20051003\_000000\_20100101\_000000 |
| GOM\_CAL\_AXVIEC20111114\_203821\_20051013\_000000\_20100101\_000000 |
| GOM\_CAL\_AXVIEC20111114\_203923\_20051023\_000000\_20100101\_000000 |
| GOM\_CAL\_AXVIEC20111114\_204027\_20051108\_000000\_20100101\_000000 |
| GOM\_CAL\_AXVIEC20111114\_204131\_20051201\_000000\_20100101\_000000 |
| GOM\_CAL\_AXVIEC20111114\_204238\_20051218\_000000\_20100101\_000000 |
| GOM\_CAL\_AXVIEC20111114\_204342\_20060101\_000000\_20100101\_000000 |
| GOM\_CAL\_AXVIEC20111114\_204445\_20060120\_000000\_20100101\_000000 |
| GOM\_CAL\_AXVIEC20111114\_204548\_20060227\_000000\_20100101\_000000 |
| GOM\_CAL\_AXVIEC20111114\_204652\_20060314\_000000\_20100101\_000000 |
| GOM\_CAL\_AXVIEC20111114\_204755\_20060401\_000000\_20100101\_000000 |
| GOM\_CAL\_AXVIEC20111114\_204859\_20060501\_000000\_20100101\_000000 |
| GOM\_CAL\_AXVIEC20111114\_205002\_20060524\_000000\_20100101\_000000 |
| GOM\_CAL\_AXVIEC20111114\_205105\_20060620\_000000\_20100101\_000000 |
| GOM\_CAL\_AXVIEC20111114\_205208\_20060705\_000000\_20100101\_000000 |
| GOM\_CAL\_AXVIEC20111114\_205311\_20060729\_000000\_20100101\_000000 |
| GOM\_CAL\_AXVIEC20111114\_211553\_20110307\_000000\_20500101\_000000 |
| GOM\_CAL\_AXVIEC20111114\_215258\_20110314\_000000\_20500101\_000000 |
| GOM\_CAL\_AXVIEC20111114\_215357\_20110320\_000000\_20500101\_000000 |
| GOM\_CAL\_AXVIEC20111114\_215413\_20110328\_000000\_20500101\_000000 |
| GOM\_CAL\_AXVIEC20111114\_215452\_20110406\_000000\_20500101\_000000 |
| GOM\_CAL\_AXVIEC20111114\_215507\_20110411\_000000\_20500101\_000000 |
| GOM\_CAL\_AXVIEC20111114\_215531\_20110414\_000000\_20500101\_000000 |
| GOM\_CAL\_AXVIEC20111114\_215537\_20110419\_000000\_20500101\_000000 |
| GOM\_CAL\_AXVIEC20111114\_215544\_20110427\_000000\_20500101\_000000 |
| GOM\_CAL\_AXVIEC20120626\_120046\_20110709\_000000\_20500101\_000000 |
| GOM\_CAL\_AXVIEC20120626\_090748\_20110717\_000000\_20500101\_000000 |
| GOM\_CAL\_AXVIEC20120626\_092143\_20110725\_000000\_20500101\_000000 |
| GOM\_CAL\_AXVIEC20120626\_092306\_20110801\_000000\_20500101\_000000 |
| GOM\_CAL\_AXVIEC20120626\_092459\_20110808\_000000\_20500101\_000000 |
| GOM\_CAL\_AXVIEC20120626\_092633\_20110816\_000000\_20500101\_000000 |
| GOM\_CAL\_AXVIEC20120626\_093317\_20110822\_000000\_20500101\_000000 |
| GOM\_CAL\_AXVIEC20120626\_093456\_20110829\_000000\_20500101\_000000 |
| GOM\_CAL\_AXVIEC20120626\_093707\_20110907\_000000\_20500101\_000000 |
| GOM\_CAL\_AXVIEC20120626\_102622\_20110914\_000000\_20500101\_000000 |
| GOM\_CAL\_AXVIEC20120626\_102933\_20110920\_000000\_20500101\_000000 |
| GOM\_CAL\_AXVIEC20120626\_103240\_20111003\_000000\_20500101\_000000 |
| GOM\_CAL\_AXVIEC20120626\_103627\_20111020\_000000\_20500101\_000000 |
| GOM\_CAL\_AXVIEC20120626\_103906\_20120102\_000000\_20500101\_000000 |
| GOM\_CAL\_AXVIEC20120626\_104141\_20120125\_000000\_20500101\_000000 |
| GOM\_CAL\_AXVIEC20120626\_104349\_20120305\_000000\_20500101\_000000 |
| GOM\_CAL\_AXVIEC20120626\_104646\_20120315\_000000\_20500101\_000000 |
| GOM\_CAL\_AXVIEC20120626\_121123\_20120406\_000000\_20500101\_000000 |

## GOM\_PR1\_AX

Some parameters in the GOM\_PR1\_AX files needed to be updated as part of the new configuration for the 3rd reprocessing activity with GOMOS IPF 6.01. This update has been performed by following the procedure received via email from Gilbert Barrot (ACRI) on 08-FEB-2011, subject: ‘[GOMOS] GOM\_PR1\_AX update’.

Once the file has been updated it has been validated and disseminated with IECF.

The file to be used is:

GOM\_PR1\_AXVIEC20110513\_081743\_20020301\_000000\_20500101\_000000

## GOM\_INS\_AX

The files to be used are:

GOM\_INS\_AXNIEC20050627\_150440\_20020301\_000000\_20100101\_000000

GOM\_INS\_AXVIEC20091111\_143220\_20030716\_120000\_20500101\_000000

## GOM\_STS\_AX

The file to be used is:

GOM\_STS\_AXVIEC20091111\_151504\_20020101\_160000\_20500101\_000000

## GOM\_CAT\_AX

The file to be used is:

GOM\_CAT\_AXVIEC20020121\_161009\_20020101\_000000\_20200101\_000000

## Orbit files

For reprocessing activities the DOR\_VOR files need to be used. These files are not provided by the IDEAS team.

## Attitude files

The files to be used are:

AUX\_ATT\_AXVIEC20020924\_131534\_20020703\_120000\_20781231\_235959

AUX\_ATT\_AXNIEC20101018\_132319\_20101024\_070525\_20781231\_235959

## ECMWF files

For reprocessing activities the AUX\_ECA files need to be used. These files are not provided by the IDEAS team.

# Auxiliary Data Files for the Level 2 processing

## GOM\_INS\_AX

Same as section 2.3

## GOM\_PR2\_AX

The file to be used is:

GOM\_PR2\_AXVIEC20091111\_152718\_20020301\_000000\_20500101\_000000

## GOM\_CRS\_AX

The file to be used is:

GOM\_CRS\_AXVIEC20091111\_154832\_20020301\_000000\_20500101\_000000

# Glossary

The following acronyms and abbreviations have been used in this report.

ADF Auxiliary Data File

DC Dark Charge

D-PAC Deutschland Processing and Archiving Center

ECMWF European Center for Medium Weather Forecast

ESL Expert Support Laboratory

GOMOS Global Ozone Monitoring by Occultation of Stars

IPF Instrument Processor Facility

LUT Look Up Table

MIPAS Michelson Interferometer for Passive Atmosphere Sounding

PRNU/iPRNU Pixel Response Non Uniformity/intraPixel Response Non Uniformity

RD Reference Document

WA Wavelength Assignment

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1. GOM\_CAL\_AX Creation

Some parameters in the GOM\_CAL\_AX files needed to be modified as part of the new configuration for the 3rd reprocessing activity with GOMOS IPF 6.01 (see section 2.1)

Before applying those changes, the input GOM\_CAL\_AX files should exist for the whole mission. Many files already existed, other existing files have been slightly modified for consistency and others were re-built (the existing ones were not suitable).

SERCO software developed for updating GOM\_CAL\_AX

All software is on NISIDA machine located in ESRIN.

/home/saavedra/update\_gom\_cal\_for\_3\_reprocessing.sh

/home/saavedra/update\_gom\_cal\_for\_3\_reprocessing\_many.sh

/home/saavedra/db\_for\_3\_repro.sh

/home/saavedra/db\_for\_3\_repro\_many.sh

/home/saavedra/update\_nb\_lines\_dc\_map.sh

/home/saavedra/update\_reflectivity\_and\_slit.sh

/home/saavedra/update\_reflectivity\_and\_slit\_many.sh

/home/saavedra/utc\_to\_orbit\_for\_adf.sh

/home/saavedra/gomos/idl/utc\_to\_orbit\_for\_adf.pro

This one was built (on 08/11/2011) for correcting the wavelength that was wrong in the initial specification by ACRI:

/home/saavedra/update\_wavelength.sh

ACRI software used for updating GOM\_CAL\_AX

All software is on NISIDA machine located in ESRIN.

GOMOS products toolbox (except modify\_pr) located on /iat1/gopr\_bin.6.0c\_6.0f/gopr\_60c\_60f/resources/binaries/

/iat2/gomos\_calex/CALEX\_V4\_1\_BIN/calex.4.1/bin/modify\_pr

/nas2/GOMOS\_ADF\_for\_3\_reprocessing/wa/create\_wl\_info.f

/nas2/GOMOS\_ADF\_for\_3\_reprocessing/wa/create\_wl\_info\_li.f (slightly modified version of create\_wl\_info.f by Lidia Saavedra). The executable is create\_wl\_info\_li.out

The following one from ACRI was sent on 04/11/2011 (for correcting a bug in the wavelength law previously sent):

/nas2/GOMOS\_ADF\_for\_3\_reprocessing/wa\_20111108/create\_wl\_info.f

/nas2/GOMOS\_ADF\_for\_3\_reprocessing/wa\_20111108/create\_wl\_info\_li\_20111108.f (slightly modified version of create\_wl\_info.f by Lidia Saavedra). The executable is create\_wl\_info\_li\_20111108.out

GOM\_CAL\_AX creation steps (for files with validity start after 20020911\_083149)

The activities described in the following subsections represent the operational steps performed for having the final GOM\_CAL\_AX dataset period after **20021109\_083149**. The steps are useful only if the GOM\_CAL\_AX creation needs to be re-done for any reason.

Initial GOM\_CAL\_AX files

Identify/build the initial GOM\_CAL\_AX files that will be afterwards modified with the three changes identified (PRNU/iPRNU maps update, new wavelength assignment law and DC thermal sensitivity LUTs update).

1. GOM\_CAL\_AX covering validity **SEP-2002 🡪 2004**: GOM\_CAL\_AX used for second reprocessing activity (built by ACRI and validated with IECF, in 2005):

GOM\_CAL\_AXNIEC20050701\_134336\_20020911\_083149\_20100101\_000000

GOM\_CAL\_AXNIEC20050701\_134818\_20021015\_031120\_20100101\_000000

GOM\_CAL\_AXNIEC20050701\_135918\_20021114\_013755\_20100101\_000000

GOM\_CAL\_AXNIEC20050701\_140505\_20021209\_210911\_20100101\_000000

GOM\_CAL\_AXNIEC20050701\_141223\_20030122\_085156\_20100101\_000000

GOM\_CAL\_AXNIEC20050701\_141524\_20030214\_210326\_20100101\_000000

GOM\_CAL\_AXNIEC20050701\_142208\_20030317\_062355\_20100101\_000000

GOM\_CAL\_AXNIEC20050701\_142729\_20030418\_230409\_20100101\_000000

GOM\_CAL\_AXNIEC20050701\_143742\_20030515\_194423\_20100101\_000000

GOM\_CAL\_AXNIEC20050701\_143928\_20030613\_120012\_20100101\_000000

GOM\_CAL\_AXNIEC20050701\_144123\_20030707\_051329\_20100101\_000000

GOM\_CAL\_AXNIEC20050701\_144424\_20030814\_102100\_20100101\_000000 (#)

GOM\_CAL\_AXNIEC20050701\_144557\_20030911\_053900\_20100101\_000000 (#)

GOM\_CAL\_AXNIEC20050701\_150005\_20031011\_214200\_20100101\_000000 (#)

GOM\_CAL\_AXNIEC20050704\_102300\_20031106\_144200\_20100101\_000000 (#)

GOM\_CAL\_AXNIEC20050704\_102556\_20031026\_061527\_20100101\_000000

GOM\_CAL\_AXNIEC20050704\_102806\_20031205\_074800\_20100101\_000000 (#)

GOM\_CAL\_AXNIEC20050704\_103017\_20031231\_173500\_20100101\_000000 (#)

GOM\_CAL\_AXNIEC20050704\_103308\_20040128\_161400\_20100101\_000000 (#)

GOM\_CAL\_AXNIEC20050704\_103546\_20040203\_180600\_20100101\_000000

GOM\_CAL\_AXNIEC20050704\_103756\_20040226\_092000\_20100101\_000000 (#)

GOM\_CAL\_AXNIEC20050704\_103958\_20040324\_133300\_20100101\_000000 (#)

GOM\_CAL\_AXNIEC20050704\_104406\_20040421\_135300\_20100101\_000000 (#)

GOM\_CAL\_AXNIEC20050704\_105050\_20040519\_105200\_20100101\_000000 (#)

GOM\_CAL\_AXNIEC20050704\_105319\_20040616\_093200\_20100101\_000000 (#)

GOM\_CAL\_AXNIEC20050704\_105519\_20040714\_081100\_20100101\_000000 (#)

GOM\_CAL\_AXNIEC20050704\_105705\_20040813\_223300\_20100101\_000000 (#)

GOM\_CAL\_AXNIEC20050704\_105855\_20040908\_053000\_20100101\_000000 (#)

GOM\_CAL\_AXNIEC20050704\_110051\_20041006\_123300\_20100101\_000000 (#)

GOM\_CAL\_AXNIEC20050704\_110236\_20041103\_175500\_20100101\_000000 (#)

GOM\_CAL\_AXNIEC20050704\_110437\_20041201\_012900\_20100101\_000000 (#)

GOM\_CAL\_AXNIEC20050704\_110632\_20041229\_000800\_20100101\_000000 (#)

GOM\_CAL\_AXNIEC20050704\_110915\_20050125\_224800\_20100101\_000000 (#)

Some files (marked with (#)) had the parameter “Spectrometers dark charge maps width (in number of lines)” set to 55, but the DC maps have 33 lines so in order to be consistent the parameter has been changed from 55 to 33 (update\_nb\_lines\_dc\_maps.sh, modify\_pr). The updated files are listed below, and have been used instead of the ones marked with (#):

GOM\_CAL\_AXNSER20050701\_144424\_20030814\_102100\_20100101\_000000

GOM\_CAL\_AXNSER20050701\_144557\_20030911\_053900\_20100101\_000000

GOM\_CAL\_AXNSER20050701\_150005\_20031011\_214200\_20100101\_000000

GOM\_CAL\_AXNSER20050704\_102300\_20031106\_144200\_20100101\_000000

GOM\_CAL\_AXNSER20050704\_102806\_20031205\_074800\_20100101\_000000

GOM\_CAL\_AXNSER20050704\_103017\_20031231\_173500\_20100101\_000000

GOM\_CAL\_AXNSER20050704\_103308\_20040128\_161400\_20100101\_000000

GOM\_CAL\_AXNSER20050704\_103756\_20040226\_092000\_20100101\_000000

GOM\_CAL\_AXNSER20050704\_103958\_20040324\_133300\_20100101\_000000

GOM\_CAL\_AXNSER20050704\_104406\_20040421\_135300\_20100101\_000000

GOM\_CAL\_AXNSER20050704\_105050\_20040519\_105200\_20100101\_000000

GOM\_CAL\_AXNSER20050704\_105319\_20040616\_093200\_20100101\_000000

GOM\_CAL\_AXNSER20050704\_105519\_20040714\_081100\_20100101\_000000

GOM\_CAL\_AXNSER20050704\_105705\_20040813\_223300\_20100101\_000000

GOM\_CAL\_AXNSER20050704\_105855\_20040908\_053000\_20100101\_000000

GOM\_CAL\_AXNSER20050704\_110051\_20041006\_123300\_20100101\_000000

GOM\_CAL\_AXNSER20050704\_110236\_20041103\_175500\_20100101\_000000

GOM\_CAL\_AXNSER20050704\_110437\_20041201\_012900\_20100101\_000000

GOM\_CAL\_AXNSER20050704\_110632\_20041229\_000800\_20100101\_000000

GOM\_CAL\_AXNSER20050704\_110915\_20050125\_224800\_20100101\_000000

1. GOM\_CAL\_AX covering validity **2005 🡪 mid-2006**: re-built for 3rd reprocessing purpose because the operational ones had an old format not suitable for version GOMOS/5.00 and higher.

The Level 0 files used for building the GOM\_CAL\_AX are:

GOM\_NL\_\_0PNPDK20050731\_165123\_000056512039\_00284\_17873\_0100.N1

GOM\_NL\_\_0PNPDK20050810\_164905\_000038362039\_00427\_18016\_0205.N1

GOM\_NL\_\_0PNPDK20050820\_094800\_000058752040\_00065\_18155\_0345.N1

GOM\_NL\_\_0PNPDK20050908\_081034\_000058882040\_00336\_18426\_0520.N1

GOM\_NL\_\_0PNPDK20050918\_093820\_000058152040\_00480\_18570\_0626.N1

GOM\_NL\_\_0PNPDK20050928\_092424\_000055542041\_00122\_18713\_0721.N1

GOM\_NL\_\_0PNPDK20051008\_073329\_000050662041\_00264\_18855\_0822.N1

GOM\_NL\_\_0PNPDK20051018\_085933\_000051042041\_00408\_18999\_0908.N1

GOM\_NL\_\_0PNPDK20051028\_101654\_000053792042\_00051\_19143\_1009.N1

GOM\_NL\_\_0PNPDK20051113\_102429\_000050032042\_00280\_19372\_1173.N1

GOM\_NL\_\_0PNPDK20051206\_095130\_000048062043\_00108\_19701\_1378.N1

GOM\_NL\_\_0PNPDK20051223\_091825\_000060482043\_00351\_19944\_1527.N1

GOM\_NL\_\_0PNPDK20060107\_080656\_000058722044\_00064\_20158\_1699.N1

GOM\_NL\_\_0PNPDK20060125\_102641\_000056132044\_00323\_20417\_0160.N1

GOM\_NL\_\_0PNPDK20060303\_091822\_000055092045\_00351\_20946\_0493.N1

GOM\_NL\_\_0PNPDK20060319\_092336\_000052922046\_00079\_21175\_0098.N1

GOM\_NL\_\_0PNPDK20060405\_102335\_000057862046\_00323\_21419\_0241.N1

GOM\_NL\_\_0PNPDK20060505\_111833\_000058752047\_00252\_21849\_0513.N1

GOM\_NL\_\_0PNPDK20060529\_084515\_000059422048\_00093\_22191\_0703.N1

GOM\_NL\_\_0PNPDK20060625\_075900\_000055592048\_00479\_22577\_0947.N1

GOM\_NL\_\_0PNPDK20060710\_082228\_000060662049\_00193\_22792\_0113.N1

GOM\_NL\_\_0PNPDK20060803\_091502\_000051392050\_00036\_23136\_0329.N1

The GOM\_CAL\_AX files built from the above Level 0 files are:

GOM\_CAL\_AXVSER20110308\_152024\_20050726\_000000\_20100101\_000000

GOM\_CAL\_AXVSER20110308\_152047\_20050805\_000000\_20100101\_000000

GOM\_CAL\_AXVSER20110308\_152110\_20050815\_000000\_20100101\_000000

GOM\_CAL\_AXVSER20110308\_152133\_20050901\_000000\_20100101\_000000

GOM\_CAL\_AXVSER20110308\_152157\_20050913\_000000\_20100101\_000000

GOM\_CAL\_AXVSER20110308\_152221\_20050923\_000000\_20100101\_000000

GOM\_CAL\_AXVSER20110308\_152243\_20051003\_000000\_20100101\_000000

GOM\_CAL\_AXVSER20110308\_152305\_20051013\_000000\_20100101\_000000

GOM\_CAL\_AXVSER20110308\_152326\_20051023\_000000\_20100101\_000000

GOM\_CAL\_AXVSER20110308\_152349\_20051108\_000000\_20100101\_000000

GOM\_CAL\_AXVSER20110308\_152412\_20051201\_000000\_20100101\_000000

GOM\_CAL\_AXVSER20110308\_152436\_20051218\_000000\_20100101\_000000

GOM\_CAL\_AXVSER20110308\_152501\_20060101\_000000\_20100101\_000000

GOM\_CAL\_AXVSER20110308\_152526\_20060120\_000000\_20100101\_000000

GOM\_CAL\_AXVSER20110308\_152550\_20060227\_000000\_20100101\_000000

GOM\_CAL\_AXVSER20110308\_152615\_20060314\_000000\_20100101\_000000

GOM\_CAL\_AXVSER20110308\_152640\_20060401\_000000\_20100101\_000000

GOM\_CAL\_AXVSER20110308\_152705\_20060501\_000000\_20100101\_000000

GOM\_CAL\_AXVSER20110308\_152730\_20060524\_000000\_20100101\_000000

GOM\_CAL\_AXVSER20110308\_152754\_20060620\_000000\_20100101\_000000

GOM\_CAL\_AXVSER20110308\_152818\_20060705\_000000\_20100101\_000000

GOM\_CAL\_AXVSER20110308\_152842\_20060729\_000000\_20100101\_000000

1. GOM\_CAL\_AX covering validity **second-half-2006 🡪 01-MAY-2011**: the operational ones, weekly updated with new DC maps and wavelength assignment (weekly WA calibration performed since 14-DEC-2007).

The GOM\_CAL\_AX files are:

GOM\_CAL\_AXVIEC20060811\_091938\_20060810\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20060817\_094138\_20060816\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20060825\_091604\_20060823\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20060904\_154109\_20060902\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20060918\_152556\_20060916\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20060927\_124349\_20060925\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20061002\_131438\_20060930\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20061011\_074727\_20061009\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20061020\_081026\_20061018\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20061027\_141550\_20061025\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20061103\_143650\_20061101\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20061109\_084512\_20061107\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20061116\_095034\_20061114\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20061124\_151026\_20061122\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20061207\_154140\_20061207\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20061218\_092922\_20061217\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20070105\_103648\_20070104\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20070117\_105731\_20070116\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20070129\_101958\_20070128\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20070209\_111315\_20070208\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20070221\_092417\_20070220\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20070307\_090230\_20070305\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20070322\_111040\_20070321\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20070403\_103751\_20070402\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20070420\_153235\_20070419\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20070503\_074756\_20070502\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20070525\_094239\_20070524\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20070605\_142211\_20070604\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20070618\_075311\_20070617\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20070702\_090425\_20070701\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20070713\_071616\_20070710\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20070726\_133456\_20070725\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20070803\_145735\_20070802\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20070814\_104912\_20070813\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20070822\_085350\_20070820\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20070905\_122547\_20070904\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20070928\_104909\_20070927\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20071009\_085337\_20071008\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20071019\_103017\_20071018\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20071029\_132344\_20071028\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20071114\_162731\_20071113\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20071123\_091259\_20071121\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20071130\_110642\_20071128\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20071207\_090506\_20071205\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20071214\_094104\_20071212\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20071220\_110231\_20071218\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20080102\_115237\_20071231\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20080109\_125406\_20080107\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20080118\_162059\_20080116\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20080128\_161239\_20080126\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20080208\_145616\_20080206\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20080215\_083106\_20080213\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20080222\_094723\_20080220\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20080320\_095048\_20080317\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20080401\_074641\_20080330\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20080408\_074258\_20080406\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20080416\_080520\_20080414\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20080424\_075418\_20080422\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20080502\_144908\_20080430\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20080514\_112535\_20080512\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20080523\_131121\_20080521\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20080530\_132758\_20080528\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20080609\_083139\_20080607\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20080620\_084614\_20080617\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20080630\_090115\_20080628\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20080707\_131940\_20080705\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20080711\_132227\_20080708\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20080801\_080250\_20080730\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20080811\_100211\_20080809\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20080818\_072609\_20080816\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20080827\_075127\_20080825\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20080904\_073713\_20080902\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20080912\_090950\_20080910\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20080922\_092941\_20080919\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20080929\_142519\_20080927\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20081008\_081911\_20081006\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20081016\_095516\_20081014\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20081107\_163108\_20081101\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20081117\_091129\_20081115\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20081125\_092015\_20081123\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20081202\_144804\_20081130\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20081210\_110157\_20081208\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20081218\_160215\_20081215\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20081229\_162214\_20081227\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20090113\_094413\_20090111\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20090123\_085712\_20090120\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20090305\_080709\_20090302\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20090313\_081258\_20090311\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20090323\_082818\_20090321\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20090414\_083029\_20090412\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20090422\_132334\_20090420\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20090430\_144945\_20090428\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20090511\_131319\_20090509\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20090519\_115952\_20090517\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20090608\_084241\_20090606\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20090615\_121800\_20090613\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20090623\_092031\_20090621\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20090701\_074759\_20090629\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20090708\_092624\_20090706\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20090714\_102335\_20090712\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20090724\_083809\_20090721\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20090730\_093840\_20090728\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20090806\_083422\_20090804\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20090811\_154222\_20090809\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20090818\_144743\_20090816\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20090831\_103835\_20090829\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20090907\_104444\_20090905\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20090915\_081651\_20090913\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20090922\_092505\_20090920\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20090930\_074316\_20090929\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20091007\_100119\_20091005\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20091013\_072825\_20091011\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20091021\_155237\_20091019\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20091029\_082046\_20091027\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20091106\_091155\_20091104\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20091116\_112409\_20091114\_000000\_20100101\_000000

GOM\_CAL\_AXVIEC20091123\_100129\_20091121\_000000\_20500101\_000000

GOM\_CAL\_AXVIEC20091130\_103004\_20091128\_000000\_20500101\_000000

GOM\_CAL\_AXVIEC20091207\_160509\_20091205\_000000\_20500101\_000000

GOM\_CAL\_AXVIEC20091214\_085046\_20091212\_000000\_20500101\_000000

GOM\_CAL\_AXVIEC20091222\_083206\_20091220\_000000\_20500101\_000000

GOM\_CAL\_AXVIEC20091229\_111816\_20091227\_000000\_20500101\_000000

GOM\_CAL\_AXVIEC20100105\_102808\_20100103\_000000\_20500101\_000000

GOM\_CAL\_AXVIEC20100112\_145459\_20100110\_000000\_20500101\_000000

GOM\_CAL\_AXVIEC20100120\_153031\_20100118\_000000\_20500101\_000000

GOM\_CAL\_AXVIEC20100127\_093029\_20100125\_000000\_20500101\_000000

GOM\_CAL\_AXVIEC20100202\_143945\_20100131\_000000\_20500101\_000000

GOM\_CAL\_AXVIEC20100210\_103840\_20100209\_000000\_20500101\_000000

GOM\_CAL\_AXVIEC20100216\_142029\_20100214\_000000\_20500101\_000000

GOM\_CAL\_AXVIEC20100223\_152102\_20100221\_000000\_20500101\_000000

GOM\_CAL\_AXVIEC20100302\_095607\_20100228\_000000\_20500101\_000000

GOM\_CAL\_AXVIEC20100309\_114519\_20100307\_000000\_20500101\_000000

GOM\_CAL\_AXVIEC20100317\_084501\_20100315\_000000\_20500101\_000000

GOM\_CAL\_AXVIEC20100324\_131115\_20100322\_000000\_20500101\_000000

GOM\_CAL\_AXVIEC20100330\_083348\_20100328\_000000\_20500101\_000000

GOM\_CAL\_AXVIEC20100407\_100257\_20100406\_000000\_20500101\_000000

GOM\_CAL\_AXVIEC20100413\_150709\_20100411\_000000\_20500101\_000000

GOM\_CAL\_AXVIEC20100421\_081220\_20100420\_000000\_20500101\_000000

GOM\_CAL\_AXVIEC20100428\_080918\_20100427\_000000\_20500101\_000000

GOM\_CAL\_AXVIEC20100504\_084318\_20100501\_000000\_20500101\_000000

GOM\_CAL\_AXVIEC20100511\_095212\_20100509\_000000\_20500101\_000000

GOM\_CAL\_AXVIEC20100518\_092709\_20100516\_000000\_20500101\_000000

GOM\_CAL\_AXVIEC20100526\_084407\_20100525\_000000\_20500101\_000000

GOM\_CAL\_AXVIEC20100604\_095219\_20100603\_000000\_20500101\_000000

GOM\_CAL\_AXVIEC20100609\_081029\_20100607\_000000\_20500101\_000000

GOM\_CAL\_AXVIEC20100615\_083814\_20100613\_000000\_20500101\_000000

GOM\_CAL\_AXVIEC20100624\_124126\_20100622\_000000\_20500101\_000000

GOM\_CAL\_AXVIEC20100629\_101415\_20100627\_000000\_20500101\_000000

GOM\_CAL\_AXVIEC20100706\_092041\_20100704\_000000\_20500101\_000000

GOM\_CAL\_AXVIEC20100714\_082217\_20100712\_000000\_20500101\_000000

GOM\_CAL\_AXVIEC20100720\_095840\_20100718\_000000\_20500101\_000000

GOM\_CAL\_AXVIEC20100727\_083506\_20100725\_000000\_20500101\_000000

GOM\_CAL\_AXVIEC20100803\_130100\_20100801\_000000\_20500101\_000000

GOM\_CAL\_AXVIEC20100810\_092831\_20100808\_000000\_20500101\_000000

GOM\_CAL\_AXVIEC20100818\_095357\_20100816\_000000\_20500101\_000000

GOM\_CAL\_AXVIEC20100824\_082223\_20100822\_000000\_20500101\_000000

GOM\_CAL\_AXVIEC20100906\_073314\_20100904\_000000\_20500101\_000000

GOM\_CAL\_AXVIEC20100917\_112037\_20100916\_000000\_20500101\_000000

GOM\_CAL\_AXVIEC20100923\_133008\_20100922\_000000\_20500101\_000000

GOM\_CAL\_AXVIEC20101004\_093812\_20101002\_000000\_20500101\_000000

GOM\_CAL\_AXVIEC20101011\_092457\_20101009\_000000\_20500101\_000000

GOM\_CAL\_AXVIEC20101020\_091716\_20101018\_000000\_20500101\_000000

GOM\_CAL\_AXVIEC20101201\_093519\_20101129\_000000\_20500101\_000000

GOM\_CAL\_AXVIEC20101214\_130634\_20101212\_000000\_20500101\_000000

GOM\_CAL\_AXVIEC20101227\_083101\_20101226\_000000\_20500101\_000000

GOM\_CAL\_AXVIEC20110103\_133543\_20110102\_000000\_20500101\_000000

GOM\_CAL\_AXVIEC20110111\_101345\_20110110\_000000\_20500101\_000000

GOM\_CAL\_AXVIEC20110118\_083541\_20110117\_000000\_20500101\_000000

GOM\_CAL\_AXVIEC20110125\_110046\_20110123\_000000\_20500101\_000000

GOM\_CAL\_AXVIEC20110208\_091853\_20110206\_000000\_20500101\_000000

GOM\_CAL\_AXVIEC20110215\_120628\_20110214\_000000\_20500101\_000000

GOM\_CAL\_AXVIEC20110222\_092203\_20110221\_000000\_20500101\_000000

GOM\_CAL\_AXVIEC20110302\_121714\_20110228\_000000\_20500101\_000000

GOM\_CAL\_AXVIEC20110308\_085553\_20110307\_000000\_20500101\_000000

GOM\_CAL\_AXVIEC20110315\_090015\_20110314\_000000\_20500101\_000000

GOM\_CAL\_AXVIEC20110322\_084127\_20110320\_000000\_20500101\_000000

GOM\_CAL\_AXVIEC20110329\_092027\_20110328\_000000\_20500101\_000000

GOM\_CAL\_AXVIEC20110407\_084842\_20110406\_000000\_20500101\_000000

GOM\_CAL\_AXVIEC20110415\_083326\_20110414\_000000\_20500101\_000000

GOM\_CAL\_AXVIEC20110429\_092904\_20110427\_000000\_20500101\_000000

Build updated GOM\_CAL\_AX

Modify the GOM\_CAL\_AX files specified on steps of 1, 2 and 3 of A.3.1 by updating: PRNU/iPRNU maps, wavelength assignment, DC Thermal Sensitivity LUTs, reflectivity LUTs and slit width variation. All the changes have been identified/defined by the GOMOS ESL and sent by ACRI to the IDEAS team:

* **PRNU/iPRNU maps update**: the procedure described on the document “*GOMOS calibration ADF: iPRNU update procedure, v 1.0, 17 January 20011”* has been followed. The numbers of section 3. of the document refers to updating files containing **73 records**, but we have files containing **33 records** so the numbers of section 3. have been corrected before proceeding with the procedure. We transcribe here (in blue) part of section 3. of the document but with the numbers we have used (in red) for the PRNU/iPRNU maps update:

“...

3. Update of the Calibration ADF

Here are the sequence to be applied to each calibration ADF to be updated.

1. We start from an initial calibration ADF (named ADF.prd) containing the current iPRNU map (i.e. the one with 33 records).
2. Create a dummy file (dummy.prd) of 673878 bytes. This can be done by applying the binextract tool to the input ADF. The content of the file is not meaningful. It will be overwritten later.

binxtract ADF.prd dummy.prd 0 673878

1. Insert the dummy file inside the ADF, at the correct location (i.e. at the end of the current CAL SP PRNU). The offset is given by the offset of the data set just following the CAL SP PRNU, i.e. the Sun Straylight ADS = 1777993. This can be done by using the bininsert tool.

bininsert ADF.prd dummy.prd ADF\_new.prd 1846475 1777993 673878

1. Update the following fields in the MPH and SPH of the new ADF, using a text editor of a shell command (e.g. sed):
   * + PRODUCT field [MPH]
     + TOT\_SIZE [MPH]
     + DS\_SIZE and NUM\_DSR [CAL\_SP\_PRNU DSD]
     + DS\_OFFSET [CAL\_SUN\_STRAYLIGHT]
     + DS\_OFFSET [CAL\_EARTH\_STRAYLIGHT]
     + PROC\_TIME (this was missing in the document but needs to be updated also)
2. …

…”

* **Wavelength assignment update**: the procedure received via email from Gilbert Barrot (ACRI) on 25-FEB-2011, subject: ‘[GOMOS] GOM\_CAL\_AX update’, has been followed. The FORTRAN code sent by G. Barrot has been slightly modified (/nas2/GOMOS\_ADF\_for\_3\_reprocessing/wa/create\_wl\_info\_li.f), compiled with F90 and used. ***[This procedure contained a wrong wavelength calibration law, this was known later]***
* **DC Thermal Sensitivity LUTs update**: the procedure received via email from Gilbert Barrot (ACRI) on 08-FEB-2011, subject: ‘[GOMOS] GOM\_CAL\_AX update (dark charge thermal sensitivity)’, has been followed.
* **Reflectivity LUTs and slit width variation**: the procedure received via email from Gilbert Barrot (ACRI) on 11-MAR-2011, subject: ‘Re: GOM\_CAL\_AX for third reprocessing: verification’ @ 17:11, has been followed. ***Note: there were other emails during the day, the right one was sent @ 17:11***

The changes were applied in two steps:

1. For the first three changes (PRNU/iPRNU map, WA, DC thermal LUTs) a script was applied: update\_gom\_cal\_for\_3\_reprocessing\_many.sh (if there is the need of re-apply the script, please edit it first and comment/un-comment following your needs)
2. For the last two changes (reflectivity LUT and slit width), another script was applied to the files obtained in previous step: update\_reflectivity\_and\_slit\_many.sh (if there is the need of re-apply the script, please edit it first and comment/un-comment following your needs)

Updated files are in:

/nas2/GOMOS\_ADF\_for\_3\_reprocessing/GOM\_CAL\_AX\_output/

List of files (these are with **wrong** wavelength law):

GOM\_CAL\_AXVESR20110314\_090205\_20020911\_083149\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090207\_20021015\_031120\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090210\_20021114\_013755\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090212\_20021209\_210911\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090214\_20030122\_085156\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090216\_20030214\_210326\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090219\_20030317\_062355\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090221\_20030418\_230409\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090223\_20030515\_194423\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090226\_20030613\_120012\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090228\_20030707\_051329\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090230\_20031026\_061527\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090233\_20040203\_180600\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090235\_20030814\_102100\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090237\_20030911\_053900\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090239\_20031011\_214200\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090242\_20031106\_144200\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090244\_20031205\_074800\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090246\_20031231\_173500\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090248\_20040128\_161400\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090251\_20040226\_092000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090253\_20040324\_133300\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090255\_20040421\_135300\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090257\_20040519\_105200\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090300\_20040616\_093200\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090302\_20040714\_081100\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090304\_20040813\_223300\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090306\_20040908\_053000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090309\_20041006\_123300\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090311\_20041103\_175500\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090313\_20041201\_012900\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090316\_20041229\_000800\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090318\_20050125\_224800\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090320\_20060810\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090322\_20060816\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090325\_20060823\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090327\_20060902\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090329\_20060916\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090331\_20060925\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090334\_20060930\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090336\_20061009\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090338\_20061018\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090340\_20061025\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090343\_20061101\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090345\_20061107\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090347\_20061114\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090349\_20061122\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090352\_20061207\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090354\_20061217\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090356\_20070104\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090359\_20070116\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090401\_20070128\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090404\_20070208\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090406\_20070220\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090408\_20070305\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090410\_20070321\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090413\_20070402\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090415\_20070419\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090417\_20070502\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090419\_20070524\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090421\_20070604\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090424\_20070617\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090426\_20070701\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090428\_20070710\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090430\_20070725\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090433\_20070802\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090435\_20070813\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090437\_20070820\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090440\_20070904\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090442\_20070927\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090444\_20071008\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090446\_20071018\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090449\_20071028\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090451\_20071113\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090453\_20071121\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090455\_20071128\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090458\_20071205\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090500\_20071212\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090502\_20071218\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090504\_20071231\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090507\_20080107\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090509\_20080116\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090511\_20080126\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090514\_20080206\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090516\_20080213\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090518\_20080220\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090520\_20080317\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090523\_20080330\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090525\_20080406\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090527\_20080414\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090529\_20080422\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090532\_20080430\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090534\_20080512\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090536\_20080521\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090539\_20080528\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090541\_20080607\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090543\_20080617\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090545\_20080628\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090547\_20080705\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090550\_20080708\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090552\_20080730\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090554\_20080809\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090557\_20080816\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090559\_20080825\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090602\_20080902\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090604\_20080910\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090606\_20080919\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090608\_20080927\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090611\_20081006\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090613\_20081014\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090615\_20081101\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090618\_20081115\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090620\_20081123\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090622\_20081130\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090624\_20081208\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090627\_20081215\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090629\_20081227\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090631\_20090111\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090633\_20090120\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090636\_20090302\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090638\_20090311\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090640\_20090321\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090642\_20090412\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090645\_20090420\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090647\_20090428\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090649\_20090509\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090651\_20090517\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090654\_20090606\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090656\_20090613\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090658\_20090621\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090700\_20090629\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090703\_20090706\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090705\_20090712\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090707\_20090721\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090709\_20090728\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090712\_20090804\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090714\_20090809\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090716\_20090816\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090718\_20090829\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090721\_20090905\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090723\_20090913\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090725\_20090920\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090728\_20090929\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090730\_20091005\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090732\_20091011\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090734\_20091019\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090737\_20091027\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090739\_20091104\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090741\_20091114\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090744\_20091121\_000000\_20500101\_000000

GOM\_CAL\_AXVESR20110314\_090746\_20091128\_000000\_20500101\_000000

GOM\_CAL\_AXVESR20110314\_090748\_20091205\_000000\_20500101\_000000

GOM\_CAL\_AXVESR20110314\_090751\_20091212\_000000\_20500101\_000000

GOM\_CAL\_AXVESR20110314\_090753\_20091220\_000000\_20500101\_000000

GOM\_CAL\_AXVESR20110314\_090755\_20091227\_000000\_20500101\_000000

GOM\_CAL\_AXVESR20110314\_090757\_20100103\_000000\_20500101\_000000

GOM\_CAL\_AXVESR20110314\_090800\_20100110\_000000\_20500101\_000000

GOM\_CAL\_AXVESR20110314\_090802\_20100118\_000000\_20500101\_000000

GOM\_CAL\_AXVESR20110314\_090804\_20100125\_000000\_20500101\_000000

GOM\_CAL\_AXVESR20110314\_090806\_20100131\_000000\_20500101\_000000

GOM\_CAL\_AXVESR20110314\_090808\_20100209\_000000\_20500101\_000000

GOM\_CAL\_AXVESR20110314\_090810\_20100214\_000000\_20500101\_000000

GOM\_CAL\_AXVESR20110314\_090812\_20100221\_000000\_20500101\_000000

GOM\_CAL\_AXVESR20110314\_090814\_20100228\_000000\_20500101\_000000

GOM\_CAL\_AXVESR20110314\_090816\_20100307\_000000\_20500101\_000000

GOM\_CAL\_AXVESR20110314\_090818\_20100315\_000000\_20500101\_000000

GOM\_CAL\_AXVESR20110314\_090820\_20100322\_000000\_20500101\_000000

GOM\_CAL\_AXVESR20110314\_090822\_20100328\_000000\_20500101\_000000

GOM\_CAL\_AXVESR20110314\_090825\_20100406\_000000\_20500101\_000000

GOM\_CAL\_AXVESR20110314\_090827\_20100411\_000000\_20500101\_000000

GOM\_CAL\_AXVESR20110314\_090829\_20100420\_000000\_20500101\_000000

GOM\_CAL\_AXVESR20110314\_090831\_20100427\_000000\_20500101\_000000

GOM\_CAL\_AXVESR20110314\_090833\_20100501\_000000\_20500101\_000000

GOM\_CAL\_AXVESR20110314\_090835\_20100509\_000000\_20500101\_000000

GOM\_CAL\_AXVESR20110314\_090837\_20100516\_000000\_20500101\_000000

GOM\_CAL\_AXVESR20110314\_090839\_20100525\_000000\_20500101\_000000

GOM\_CAL\_AXVESR20110314\_090841\_20100603\_000000\_20500101\_000000

GOM\_CAL\_AXVESR20110314\_090843\_20100607\_000000\_20500101\_000000

GOM\_CAL\_AXVESR20110314\_090846\_20100613\_000000\_20500101\_000000

GOM\_CAL\_AXVESR20110314\_090848\_20100622\_000000\_20500101\_000000

GOM\_CAL\_AXVESR20110314\_090850\_20100627\_000000\_20500101\_000000

GOM\_CAL\_AXVESR20110314\_090852\_20100704\_000000\_20500101\_000000

GOM\_CAL\_AXVESR20110314\_090854\_20100712\_000000\_20500101\_000000

GOM\_CAL\_AXVESR20110314\_090856\_20100718\_000000\_20500101\_000000

GOM\_CAL\_AXVESR20110314\_090859\_20100725\_000000\_20500101\_000000

GOM\_CAL\_AXVESR20110314\_090901\_20100801\_000000\_20500101\_000000

GOM\_CAL\_AXVESR20110314\_090903\_20100808\_000000\_20500101\_000000

GOM\_CAL\_AXVESR20110314\_090905\_20100816\_000000\_20500101\_000000

GOM\_CAL\_AXVESR20110314\_090908\_20100822\_000000\_20500101\_000000

GOM\_CAL\_AXVESR20110314\_090910\_20100904\_000000\_20500101\_000000

GOM\_CAL\_AXVESR20110314\_090912\_20100916\_000000\_20500101\_000000

GOM\_CAL\_AXVESR20110314\_090914\_20100922\_000000\_20500101\_000000

GOM\_CAL\_AXVESR20110314\_090916\_20101002\_000000\_20500101\_000000

GOM\_CAL\_AXVESR20110314\_090919\_20101009\_000000\_20500101\_000000

GOM\_CAL\_AXVESR20110314\_090921\_20101018\_000000\_20500101\_000000

GOM\_CAL\_AXVESR20110314\_090924\_20101129\_000000\_20500101\_000000

GOM\_CAL\_AXVESR20110314\_090926\_20101212\_000000\_20500101\_000000

GOM\_CAL\_AXVESR20110314\_090928\_20101226\_000000\_20500101\_000000

GOM\_CAL\_AXVESR20110314\_090930\_20110102\_000000\_20500101\_000000

GOM\_CAL\_AXVESR20110314\_090933\_20110110\_000000\_20500101\_000000

GOM\_CAL\_AXVESR20110314\_090935\_20110117\_000000\_20500101\_000000

GOM\_CAL\_AXVESR20110314\_090938\_20110123\_000000\_20500101\_000000

GOM\_CAL\_AXVESR20110314\_090940\_20110206\_000000\_20500101\_000000

GOM\_CAL\_AXVESR20110314\_090942\_20110214\_000000\_20500101\_000000

GOM\_CAL\_AXVESR20110314\_090945\_20110221\_000000\_20500101\_000000

GOM\_CAL\_AXVESR20110314\_090947\_20110228\_000000\_20500101\_000000

GOM\_CAL\_AXVESR20110314\_090949\_20050726\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090952\_20050805\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090954\_20050815\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090956\_20050901\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_090959\_20050913\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_091001\_20050923\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_091004\_20051003\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_091006\_20051013\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_091008\_20051023\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_091011\_20051108\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_091013\_20051201\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_091015\_20051218\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_091018\_20060101\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_091020\_20060120\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_091022\_20060227\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_091025\_20060314\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_091027\_20060401\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_091029\_20060501\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_091031\_20060524\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_091034\_20060620\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_091036\_20060705\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110314\_091038\_20060729\_000000\_20100101\_000000

GOM\_CAL\_AXVESR20110512\_132722\_20110307\_000000\_20500101\_000000

GOM\_CAL\_AXVESR20110512\_133810\_20110314\_000000\_20500101\_000000

GOM\_CAL\_AXVESR20110512\_134151\_20110320\_000000\_20500101\_000000

GOM\_CAL\_AXVESR20110512\_134633\_20110328\_000000\_20500101\_000000

GOM\_CAL\_AXVESR20110512\_134813\_20110406\_000000\_20500101\_000000

GOM\_CAL\_AXVESR20110512\_134940\_20110411\_000000\_20500101\_000000

GOM\_CAL\_AXVESR20110512\_135147\_20110414\_000000\_20500101\_000000

GOM\_CAL\_AXVESR20110512\_135554\_20110419\_000000\_20500101\_000000

GOM\_CAL\_AXVESR20110512\_135754\_20110427\_000000\_20500101\_000000

The following files were created at a later stage (this files are with **wrong** wavelength law), and cover the period (01-MAY-2011 🡪19-JUL-2011). These files are validated with IECF:

GOM\_CAL\_AXNIEC20110606\_150230\_20110607\_000000\_20500101\_000000

GOM\_CAL\_AXNIEC20110930\_095539\_20110518\_000000\_20500101\_000000

GOM\_CAL\_AXNIEC20110930\_100116\_20110525\_000000\_20500101\_000000

GOM\_CAL\_AXNIEC20110930\_100443\_20110531\_000000\_20500101\_000000

GOM\_CAL\_AXNIEC20110930\_100653\_20110614\_000000\_20500101\_000000

GOM\_CAL\_AXNIEC20110930\_100902\_20110621\_000000\_20500101\_000000

GOM\_CAL\_AXNIEC20110930\_101104\_20110627\_000000\_20500101\_000000

GOM\_CAL\_AXNIEC20110930\_123041\_20110504\_000000\_20500101\_000000

GOM\_CAL\_AXNIEC20110930\_123345\_20110511\_000000\_20500101\_000000

GOM\_CAL\_AXVIEC20110711\_093848\_20110709\_000000\_20500101\_000000

GOM\_CAL\_AXVIEC20110718\_093638\_20110717\_000000\_20500101\_000000

**The wavelength was afterwards updated because there was a bug in the previous Fortran program. The new law was received via email from Gilbert Barrot (ACRI) on 04/11/2011, subject: “RE: WA correction steps (updated create\_wl\_info software)”.** The FORTRAN code sent by G. Barrot has been slightly modified (/nas2/GOMOS\_ADF\_for\_3\_reprocessing/wa\_20111108/create\_wl\_info\_li\_20111108.f), compiled with F90 and used.

The previous file lists (wrong wavelength calibration applied) were corrected using the new wavelength law received on 04-NOV-2011.

The files covering from 19-JUL-2011 🡪 08-APR-2012 have the new/correct wavelength law applied (received on 04-NOV-2011).

A further correction of the wavelength law was sent by ACRI in order to take into account the effect that the annealing procedure caused on the wavelength assignment. New GOM\_CAL\_AX files were produced on 26-JUN-2012, **covering validity times 09-JUL-2011 🡪 08-APR-2012**

**All the files have been validated with IECF. The final list of files, using the latest and correct wavelength calibration law, to be used during the 3rd reprocessing campaign is in section 2.1**

GOM\_CAL\_AX creation steps (for files with validity start before 20020911\_083149)

The activities described in the subsections represent the operational steps performed for having the final GOM\_CAL\_AX dataset for the 3rd reprocessing period before **20021109\_083149**. They are useful only if the GOM\_CAL\_AX creation needs to be re-done for any reason.

Initial GOM\_CAL\_AX files

The starting list of files is:

GOM\_CAL\_AXNIEC20061129\_152107\_20020301\_000000\_20020515\_205615

GOM\_CAL\_AXNIEC20061129\_152651\_20020408\_024022\_20020515\_205615

GOM\_CAL\_AXNIEC20061129\_153104\_20020421\_032416\_20020515\_205615

GOM\_CAL\_AXNIEC20061129\_153506\_20020429\_023232\_20020515\_205615

GOM\_CAL\_AXNIEC20061129\_153843\_20020505\_234131\_20020515\_205615

GOM\_CAL\_AXNIEC20061129\_154400\_20020515\_205615\_20020717\_193546

GOM\_CAL\_AXNIEC20061129\_154730\_20020527\_225953\_20020717\_193546

GOM\_CAL\_AXNIEC20061129\_154951\_20020606\_233546\_20020717\_193546

GOM\_CAL\_AXNIEC20061129\_155238\_20020619\_141351\_20020717\_193546

GOM\_CAL\_AXNIEC20061129\_155503\_20020630\_055510\_20020717\_193546

GOM\_CAL\_AXNIEC20061129\_155753\_20020705\_045741\_20020717\_193546

GOM\_CAL\_AXNIEC20061129\_160003\_20020708\_164737\_20020717\_193546

GOM\_CAL\_AXNIEC20061129\_160214\_20020712\_034716\_20020717\_193546

GOM\_CAL\_AXNIEC20061129\_160543\_20020717\_193546\_20020911\_083149

GOM\_CAL\_AXNIEC20061129\_161242\_20020724\_164445\_20020911\_083149

GOM\_CAL\_AXNIEC20061129\_161555\_20020802\_033712\_20020911\_083149

GOM\_CAL\_AXNIEC20061129\_162028\_20020809\_054759\_20020911\_083149

GOM\_CAL\_AXNIEC20061129\_162530\_20020818\_065532\_20020911\_083149

GOM\_CAL\_AXNIEC20061129\_162922\_20020828\_132333\_20020911\_083149

Those files needed to be updated in a slightly different way than the files described in A.3. The updates applied are described in section 2.1, and were agreed with the GOMOS ESL and a series of emails were exchanged with [gomos@eo-sppa.org](mailto:gomos@eo-sppa.org) in cc.

Build updated GOM\_CAL\_AX

The changes were applied in two steps:

1. For the changes in iPRNU map and DC thermal LUTs a script was applied: update\_gom\_cal\_for\_3\_reprocessing.sh, commenting and un-commenting some parts of the script.
2. For changes in reflectivity LUT and slit width, another script was applied to the files obtained in previous step: update\_reflectivity\_and\_slit.sh, commenting and un-commenting some parts of the script.

Updated files are in:

/nas2/GOMOS\_ADF\_for\_3\_reprocessing/GOM\_CAL\_AX\_output/

List of files:

GOM\_CAL\_AXVESR20110429\_080926\_20020301\_000000\_20020515\_205615

GOM\_CAL\_AXVESR20110429\_080955\_20020408\_024022\_20020515\_205615

GOM\_CAL\_AXVESR20110429\_081024\_20020421\_032416\_20020515\_205615

GOM\_CAL\_AXVESR20110429\_081054\_20020429\_023232\_20020515\_205615

GOM\_CAL\_AXVESR20110429\_081124\_20020505\_234131\_20020515\_205615

GOM\_CAL\_AXVESR20110429\_081153\_20020515\_205615\_20020717\_193546

GOM\_CAL\_AXVESR20110429\_081223\_20020527\_225953\_20020717\_193546

GOM\_CAL\_AXVESR20110429\_081253\_20020606\_233546\_20020717\_193546

GOM\_CAL\_AXVESR20110429\_081322\_20020619\_141351\_20020717\_193546

GOM\_CAL\_AXVESR20110429\_081351\_20020630\_055510\_20020717\_193546

GOM\_CAL\_AXVESR20110429\_081421\_20020705\_045741\_20020717\_193546

GOM\_CAL\_AXVESR20110429\_081451\_20020708\_164737\_20020717\_193546

GOM\_CAL\_AXVESR20110429\_081520\_20020712\_034716\_20020717\_193546

GOM\_CAL\_AXVESR20110429\_081550\_20020717\_193546\_20020911\_083149

GOM\_CAL\_AXVESR20110429\_081619\_20020724\_164445\_20020911\_083149

GOM\_CAL\_AXVESR20110429\_081648\_20020802\_033712\_20020911\_083149

GOM\_CAL\_AXVESR20110429\_081718\_20020809\_054759\_20020911\_083149

GOM\_CAL\_AXVESR20110429\_081747\_20020818\_065532\_20020911\_083149

GOM\_CAL\_AXVESR20110429\_081817\_20020828\_132333\_20020911\_083149

The files above have been passed through IECF. **The final list of files to be used during the 3rd reprocessing campaign is in section 2.1.**

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