

EARTH OBSERVATION MISSION CFI SOFTWARE

Release Notes – Version 4.31

1 INTRODUCTION

This note describes the changes introduced in the new release of the Earth Observation CFI software libraries.

2 NEW RELEASE DESCRIPTION

2.1 CFI Software and Documentation Delivery

The new versions of the CFI software libraries are the following:

- EO_FILE_HANDLING -- Version 4.31
- EO_DATA_HANDLING -- Version 4. 31
- EO_LIB -- Version 4. 31
- EO_ORBIT -- Version 4. 31
- EO_POINTING -- Version 4. 31
- EO_VISIBILITY -- Version 4. 31

The following Software User Manuals have been updated accordingly:

- EO_FILE_HANDLING issue 4. 31
- EO_DATA_HANDLING issue 4. 31
- EO_LIB issue 4. 31
- EO_ORBIT issue 4. 31
- EO_POINTING issue 4. 31
- EO_VISIBILITY issue 4. 31
- GENERAL issue 4. 31

2.2 Compilation software and platform

This release of the CFI libraries are provided for LINUX, MACOS and WINDOWS platforms.

- LINUX 64-bits:

- Linux 4.10 (Ubuntu 17.04) Operating System
- gcc compiler version 6.3.0 (for linking the software to a C application)
- glibc 2.24
- LINUX 64-bits (Legacy):
 - Linux 2.6.35 (Ubuntu 10.10) Operating System
 - gcc compiler version 4.5.4 (for linking the software to a C application)
 - glibc 2.12
- PC WINDOWS 64-bits:
 - Microsoft Windows 10 Professional Operating System
 - Microsoft Visual Studio 2022 (for linking the software to a C application)
- MACOSX on Intel (64-bits):
 - Mac OS X version 10.12 (the libraries and executables have been compiled with compatibility with version 10.9 onwards).
 - gcc provided with Xcode 9.2 (for linking the software to a C application)
- MACOSX Apple M2 Max on Arm (64-bits):
 - MACOS 13.5.2 (the libraries and executables have been compiled with compatibility with version 13.5.2 onwards).
 - gcc provided with Xcode 14.3 (for linking the software to a C application)

Note that the distributed binaries have been generated with no debug.

2.3 Installation packages

The following installation packages are provided:

- EOCFI-4.31-CLIB-LINUX64_LEGACY.zip
- EOCFI-4.31-CLIB-LINUX64.zip
- EOCFI-4.31-CLIB-MACIN64.zip
- EOCFI-4.31-CLIB-MACARM64.zip
- EOCFI-4.31-CLIB-WINDOWS64-V10.zip

3 CLOSED SPRS

Anomaly number	Description ANR
1066	Segmentation fault in xp_target_list_inter with atmos_id initialised with XP_STD_INIT_N

1069	Segmentation fault in xp_target_list_inter with atmos_id initialised
1071	xd_read_oem sometimes fails to read records with scientific notation
1084	xv_gen_scf fails with XV_SAT_GENERIC

4 NEW REQUIREMENTS

The following new features/requirements have been implemented.

Anomaly number	Description ANR
1089	Implement the ability to handle a different reference for ocean pixels in GDEM tiles

5 KNOWN PROBLEMS

There are no known problems.