

Report Production Date

IDEAS+ Daily Report for NRT data:

<u>21/12/2014</u>

Nominal

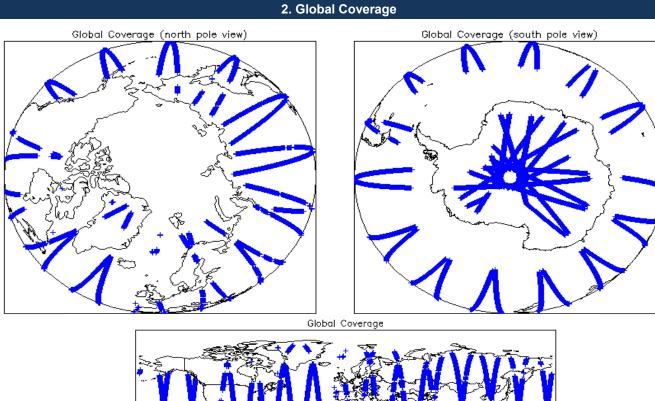
See Sections 5.5, 6.5, 6.6 and 6.8

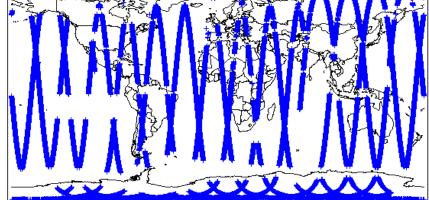
| 1. Overview | | |
|--|---|--|
| 00 1 0045 | Check | Status |
| te: 02-Jan-2015 | Server check: science-pds.cryosat.esa.int | Nominal |
| L1 and L2 Fast Delivery Marine Mode (FDM), and CAL Data | Server check: calval-pds.cryosat.esa.int | Nominal |
| | Product Software Check | Nominal |
| | Product Format Check | Nominal |
| | Product Header Analysis | Nominal |
| | Auxiliary Data File Usage | Nominal |
| | | 02-Jan-2015 L1 and L2 Fast Delivery Marine Mode (FDM), and CAL Data Check Server check: science-pds.cryosat.esa.int Server check: calval-pds.cryosat.esa.int Product Software Check Product Format Check Product Header Analysis |

Correction Error Flags

Measurement Confidence Flags

| Mission / Instrument News | | | |
|---------------------------|-----------------|--|--|
| 20-Dec-2014 | None | | |
| 21-Dec-2014 | None | | |
| 22-Dec-2014 | Nothing planned | | |





3. Instrument Configuration

The SIRAL instrument configuration for the day of acquisition is provided below.

| SIRAL instrument(s) in use: | SIRAL - A |
|-----------------------------|----------------|
| Star Tracker(s) in use: | Star Tracker 1 |

4. Level 1B Calibration Data Quality Check

4.1 L1 CAL Product Format Check

Each product, retrieved and unpacked from the science server, is checked to ensure it consists of both an XML header file (.HDR) and a binary product file (.DBL).

Number of products with errors:

4.2 L1 CAL Product Header Analysis

For all products, a series of pre-defined checks are carried out on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the processing chain.

0

| ne validity of Auxiliary Data Files is correct. record. The bit value of this flag indicates any problems when set. Quality Check |
|---|
| record. The bit value of this flag indicates any problems when set. |
| |
| |
| Quality Check |
| |
| |
| ML header file (.HDR) and a binary product file (.DBL). |
| |
| |
| inconsistencies and/or errors raised by the ground-segment processing chain. |
| |
| ne validity of Auxiliary Data Files is correct. |
| |
| |
| ssing or containing errors. |
| |
| |
| e bit value of this flag indicates any problems when set. |
| , or value of this hay indicates any problems when set. |
| Description |
| ng The attitude has not been corrected |
| ng The attitude has not been corrected |
| ng The attitude has not been corrected |
| Quality Check |
| |
| ML header file (.HDR) and a binary product file (.DBL) |
| |
| |
| inconsistencies and/or errors raised by the processing chain. |
| and L2_Proc_Flag). These flags are set within L2 Header files (MPH field #19 and SPH field soor when an error is detected during the L2 processing and also when the percentage of sor (currently set to 5%). |
| |
| |
| |
| ne validity of Auxiliary Data Files is correct. |
| |
| |
| ssing or containing errors. |
| |
| |
| is flag is an assessment of the measurement quality by the processing chain. |
| |
| |
| Description |
| ng The attitude has not been corrected |
| |
| |

6.6 L2 FDM Range Measurement Flags

Each product is checked to detect range measurements flagged by the processing chain as missing or containing errors.

5

Number of products with errors:

| Product | Test Failed | Description |
|---|---------------------------|--|
| CS_OFFL_SIR_FDM_220141221T034331_20141221T034429_B001 | | The master fail flag is set by the OCOG call, for one or more records, indicating the values stored in fields #18, #19, #20 and #21 should be ignored for these records. |
| CS_OFFL_SIR_FDM_220141221T052338_20141221T052356_B001 | OCOG Retracked Range Flag | The master fail flag is set by the OCOG call, for one or more records, indicating the values stored in fields #18, #19, #20 and #21 should be ignored for these records. |
| CS_OFFL_SIR_FDM_220141221T173011_20141221T173504_B001 | | The master fail flag is set by the OCOG call, for one or more records, indicating the values stored in fields #18, #19, #20 and #21 should be ignored for these records. |
| CS_OFFL_SIR_FDM_220141221T184222_20141221T185223_B001 | OCOG Retracked Range Flag | The master fail flag is set by the OCOG call, for one or more records, indicating the values stored in fields #18, #19, #20 and #21 should be ignored for these records. |
| CS_OFFL_SIR_FDM_220141221T203607_20141221T203621_B001 | | The master fail flag is set by the OCOG call, for one or more records, indicating the values stored in fields #18, #19, #20 and #21 should be ignored for these records. |

6.7 L2 FDM SWH and Backscatter Measurement Flags

Each product is checked to detect parameters related to SWH and sigma0 that are flagged by the processing chain as missing or containing errors. Number of products with errors: 0

6.8 L2 FDM Geophysical Measurement Flags

Each product is checked to detect geophysical measurements flagged by the processing chain as missing or containing errors.
Number of products with errors:
6

0

All

| Product | Test Failed | Description |
|--|-------------------------------|---|
| CS_OFFL_SIR_FDM_220141221T034331_20141221T034429_B001 | | The Ocean Retracking Quality Flag is set indicating the CFI Ocean Retracker was not successfully executed for one or more records. |
| CS_OFFL_SIR_FDM_220141221T052338_20141221T052356_B001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag is set indicating the CFI Ocean Retracker was not successfully executed for one or more records. |
| CS_OFFL_SIR_FDM_220141221T125241_20141221T131947_B001 | | The Ocean Retracking Quality Flag is set indicating the CFI Ocean Retracker was not successfully executed for one or more records. |
| CS_OFFL_SIR_FDM_2_20141221T173011_20141221T173504_B001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag is set indicating the CFI Ocean Retracker was not successfully executed for one or more records. |
| CS_OFFL_SIR_FDM_2_20141221T184222_20141221T185223_B001 | | The Ocean Retracking Quality Flag is set indicating the CFI Ocean Retracker was not successfully executed for one or more records. |
| CS_OFFL_SIR_FDM_220141221T203607_20141221T203621_B001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag is set indicating the CFI Ocean Retracker was not successfully executed for one or more records. |

7. QCC Check

The QCC is a CryoSat facility that performs a primary survey of data products immediately after production by the PDS and LTA processing facilities. A list of the tests which raised errors or warnings is provided below.

| Product type | Nb. Products | Nb. QCC Reports | Nb. Valid | Nb. Warnings | Nb. Errors |
|--------------|--------------|-----------------|-----------|--------------|------------|
| SIR_FDM_1B | 187 | 0 | 0 | 0 | 0 |
| SIR_FDM_2 | 183 | 0 | 0 | 0 | 0 |

7.1 QCC Errors

Number of QCC reports with errors:

7.2 Missing QCC Reports

Number of products with missing QCC reports: