

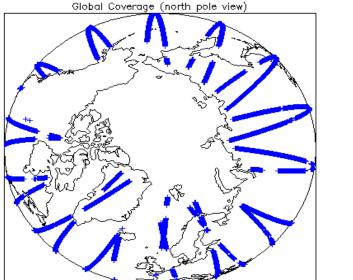
IDEAS+ Daily Report for NRT data:

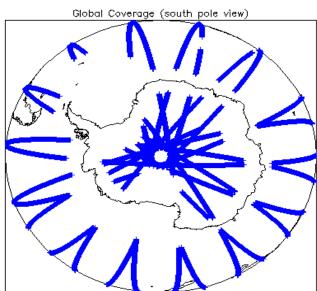
<u>05/01/2015</u>

| Report Production Date: | 07-Jan-2015 | Check | Status | |
|-------------------------|-------------------------------------|---|------------------------------------|--|
| | | Server check: science-pds.cryosat.esa.int | Nominal | |
| Data Used: | L1 and L2 Fast Delivery Marine Mode | Server check: calval-pds.cryosat.esa.int | Nominal | |
| | (FDM), and CAL Data | Product Software Check | Nominal | |
| | | Product Format Check | Nominal | |
| | | Product Header Analysis | Nominal | |
| | | Auxiliary Data File Usage | Nominal | |
| | | Correction Error Flags | Nominal | |
| | | Measurement Confidence Flags | See Sections 5.5, 6.5, 6.6 and 6.8 | |

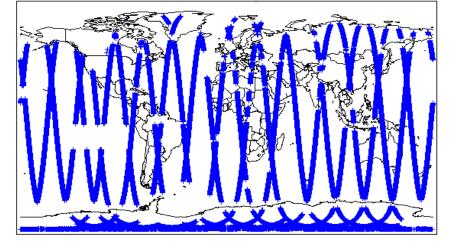
| 04-Jan-2015 | None |
|-------------|-----------------|
| 05-Jan-2015 | None |
| 06-Jan-2015 | Nothing planned |

2. Global Coverage





Global Coverage



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

| 4.3 L1 CAL Auxiliary Data File Usage Check | | |
|--|--|---|
| Each product is checked for missing Data Set Descriptors wrt a pre-det | ermined baseline and also to check the validity | of Auxiliary Data Files is correct. |
| Number of products with errors: 0 | | |
| 4.4 L1 CAL Measurement Confidence Flags | | |
| CryoSat Cal1 and Cal2 data includes a measurement confidence flag w | ord (field 11) for each measurement record. Th | e bit value of this flag indicates any problems when set |
| Number of products with errors: 0 | | |
| 5 | . Level 1B FDM Data Qualit | ty Check |
| 5.1 L1B FDM Product Format Check | | |
| | und to another it consists of both on VMI, boods | a file (LIDD) and a biser construct file (DDI) |
| Each product, retrieved and unpacked from the science server, is check Number of products with errors: 0 | ted to ensure it consists of both an XML heade | nile (.HDR) and a binary product file (.DBL). |
| 5.2 L1B FDM Product Header Analysis | | |
| · · · · · · · · · · · · · · · · · · · | IDU and CDU in order to identify any inconsist | nsion and/or amore raised by the ground compart processing chain |
| For all products, a series of pre-defined checks are carried out on the M Number of products with errors: 0 | | ncies anotor errors raised by the ground-segment processing chain. |
| 5.3 L1B FDM Auxilary Data File Usage Check | | |
| Each product is checked for missing Data Set Descriptors wrt a pre-det | ermined baseline and also to check the validity | of Auxiliary Data Files is correct. |
| Number of products with errors: 0 | · · · · · · · · · · · · · · · · · · · | |
| 5.4 L1B Correction Error Flags | | |
| Each product is checked to detect auxiliary corrections flagged by the gi | round-station processing chain as missing or c | |
| Number of products with errors: 0 | | |
| 5.5 L1B FDM Measurement Confidence Flags | | |
| | | |
| CryoSat L1B data includes a measurement confidence flag word (field 1 Number of products with errors: 7 | 4) for each measurement record. The bit value | e of this flag indicates any problems when set. |
| Product | Test Failed | Description |
| CS_OFFL_SIR_FDM_1B_20150105T121156_20150105T121729_B007 | 1 Attitude correction missing | The attitude has not been corrected |
| CS_OFFL_SIR_FDM_1B_20150105T135356_20150105T135458_B007 | 1 Attitude correction missing | The attitude has not been corrected |
| CS_OFFL_SIR_FDM_1B_20150105T153301_20150105T153427_B001 | 1 Attitude correction missing | The attitude has not been corrected |
| CS_OFFL_SIR_FDM_1B_20150105T171404_20150105T171613_B00 | 1 Attitude correction missing | The attitude has not been corrected |
| CS_OFFL_SIR_FDM_1B_20150105T171613_20150105T171701_B00 | 1 Attitude correction missing | The attitude has not been corrected |
| CS_OFFL_SIR_FDM_1B_20150105T173037_20150105T173130_B00 | 1 Attitude correction missing | The attitude has not been corrected |
| CS_OFFL_SIR_FDM_1B_20150105T173455_20150105T180654_B00 | 1 Attitude correction missing | The attitude has not been corrected |
| | 6. Level 2 FDM Data Quality | y Check |
| 6.1 L2 FDM Product Format Check | | |
| Each product, retrieved and unpacked from the science server, is check | ked to ensure it consists of both an XML heade | er file (.HDR) and a binary product file (.DBL) |
| Number of products with errors: 0 | | |
| 6.2 L2 FDM Product Header Analysis | | |
| For all products, a series of pre-defined checks are carried out on the M | IPH and SPH in order to identify any inconsiste | ncies and/or errors raised by the processing chain. |
| | #33). They are set by the FDM processor when | roc_Flag). These flags are set within L2 Header files (MPH field #19 and SPH field an error is detected during the L2 processing and also when the percentage of ntly set to 5%). |
| This issue is under investigation. | | |
| Number of products with errors: 0 | | |
| 6.3 L2 FDM Auxiliary Data File Usage Check | | |
| Each product is checked for missing Data Set Descriptors wrt a pre-det | ermined baseline and also to check the validity | of Auxiliary Data Files is correct. |
| Number of products with errors: 0 | | |
| 6.4 L2 FDM Correction Error Flags | | |
| 5 | | |

Each product is checked to detect auxiliary corrections flagged by the ground-station processing chain as missing or containing errors.

0

Number of products with errors:

6.5 L2 FDM Measurement Confidence Flags

CryoSat L2 data includes a quality flag word (field 8) for each 20-Hz measurement record. The bit value of this flag is an assessment of the measurement quality by the processing chain.

| Number of products with errors: 7 | | |
|---|-----------------------------|-------------------------------------|
| Product | Test Failed | Description |
| CS_OFFL_SIR_FDM_220150105T121156_20150105T121729_B001 | Attitude correction missing | The attitude has not been corrected |
| CS_OFFL_SIR_FDM_220150105T135356_20150105T135458_B001 | Attitude correction missing | The attitude has not been corrected |
| CS_OFFL_SIR_FDM_220150105T153301_20150105T153427_B001 | Attitude correction missing | The attitude has not been corrected |
| CS_OFFL_SIR_FDM_220150105T171404_20150105T171613_B001 | Attitude correction missing | The attitude has not been corrected |
| CS_OFFL_SIR_FDM_220150105T171613_20150105T171701_B001 | Attitude correction missing | The attitude has not been corrected |
| CS_OFFL_SIR_FDM_220150105T173037_20150105T173130_B001 | Attitude correction missing | The attitude has not been corrected |
| CS_OFFL_SIR_FDM_220150105T173455_20150105T180654_B001 | Attitude correction missing | 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.

3

Number of products with errors:

| Product | Test Failed | Description |
|---|---------------------------|--|
| CS_OFFL_SIR_FDM_220150105T035236_20150105T040221_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_220150105T075908_20150105T081010_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_220150105T092738_20150105T095139_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. |

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 | | |
|---|-------------------------------|--|
| Product | Test Failed | Description |
| CS_OFFL_SIR_FDM_220150105T035236_20150105T040221_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_220150105T075908_20150105T081010_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_220150105T092738_20150105T095139_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_220150105T193016_20150105T194551_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_220150105T215549_20150105T220527_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_220150105T230118_20150105T230443_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 | 180 | 0 | 0 | 0 | 0 |
| SIR_FDM_2 | 178 | 0 | 0 | 0 | 0 |
| | | | | | |
| 7.1 QCC Errors | | | | | |
| Number of QCC reports with errors: | | 0 | | | |
| | | | | | |
| 7.2 Missing QCC Reports | | | | | |
| Number of products with missing QC | CC reports: A | JI | | | |