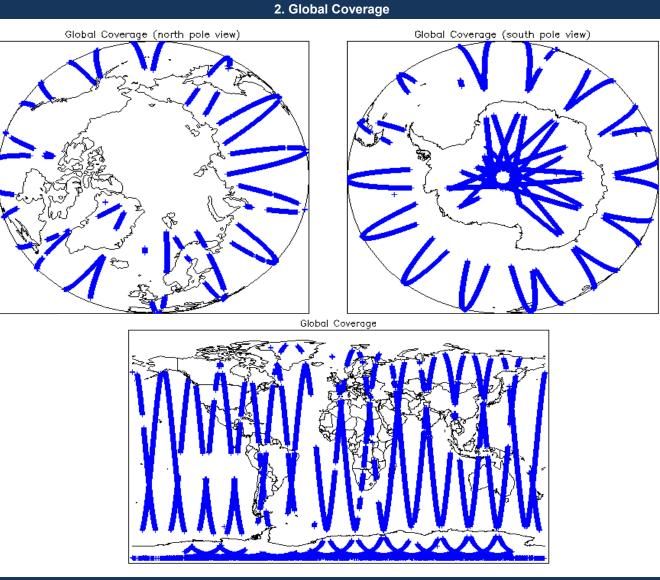


IDEAS+ Daily Report for NRT data:

<u>14/04/2015</u>

| Report Production Date: | 15-Apr-2015 | Check | Status | |
|-------------------------|--|---|--------------------------|--|
| | | Server check: science-pds.cryosat.esa.int | Nominal | |
| Data Used: | 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 | |
| | | Correction Error Flags | Nominal | |
| | | Measurement Confidence Flags | See Sections 6.6 and 6.8 | |

| 13-Apr-2015 | None |
|-------------|-----------------|
| 14-Apr-2015 | None |
| 15-Apr-2015 | Nothing planned |



3. Instrument Configuration

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

SIRAL instrument(s) in use: SIRAL - A

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.

naistencies and/or errors raised by th

| 4.3 L1 CAL Auxiliary Data File Usage Check | | |
|---|--|--|
| Each product is checked for missing Data Set Descriptors wrt a pre-determined ba Number of products with errors: 0 | aseline and also to check the validity of a | Auxiliary Data Files is correct. |
| 4.4 L1 CAL Measurement Confidence Flags | | |
| CryoSat Cal1 and Cal2 data includes a measurement confidence flag word (field 1 | 1) for each measurement record. The b | it value of this flag indicates any problems when set. |
| Number of products with errors: 0 | | |
| 5. Leve | I 1B FDM Data Quality | Check |
| 5.1 L1B FDM Product Format Check | | |
| Each product, retrieved and unpacked from the science server, is checked to ensi | ure it consists of both an XML beader fil | e (HDR) and a binary product file (DRI) |
| Number of products with errors: 0 | | |
| 5.2 L1B FDM Product Header Analysis | | |
| For all products, a series of pre-defined checks are carried out on the MPH and S Number of products with errors: 0 | PH in order to identify any inconsistencie | es and/or 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-determined ba | aseline and also to check the validity of | Auxiliary Data Files is correct. |
| Number of products with errors: 0 | | , |
| 5.4 L1B FDM Correction Error Flags | | |
| Each product is checked to detect auxiliary corrections flagged by the ground-stat Number of products with errors: 0 | ion processing chain as missing or conta | aining errors. |
| 5.5 L1B FDM Measurement Confidence Flags | | |
| CryoSat L1B data includes a measurement confidence flag word (field 18) for eacl | h measurement record. The bit value of | this flag indicates any problems when set. |
| Number of products with errors: 0 | | |
| 6. Lev | el 2 FDM Data Quality C | Check |
| 6.1 L2 FDM Product Format Check | | |
| Each product, retrieved and unpacked from the science server, is checked to ensu Number of products with errors: 0 | ure it consists of both an XML header file | e (.HDR) and a binary product file (.DBL) |
| · | | |
| 6.2 L2 FDM Product Header Analysis | | |
| For all products, a series of pre-defined checks are carried out on the MPH and S Number of products with errors: 0 | PH in order to identify any inconsistencie | es and/or errors raised by the processing chain. |
| 6.3 L2 FDM Auxiliary Data File Usage Check | | |
| Each product is checked for missing Data Set Descriptors wrt a pre-determined be Number of products with errors: 0 | aseline and also to check the validity of <i>i</i> | Auxiliary Data Files is correct. |
| 6.4 L2 FDM Correction Error Flags | | |
| Each product is checked to detect auxiliary corrections flagged by the ground-stat | ion processing chain as missing or conta | aining errors. |
| Number of products with errors: 0 | | |
| 6.5 L2 FDM Measurement Confidence Flags | | |
| CryoSat L2 data includes a quality flag word (field 8) for each 20-Hz measurement | t record. The bit value of this flag is an a | ssessment of the measurement quality by the processing chain. |
| Number of products with errors: 0 | | |
| 6.6 L2 FDM Range Measurement Flags | | |
| Each product is checked to detect range measurements flagged by the processing | g chain as missing or containing errors. | |
| Number of products with errors: 4 | | |
| Product | Test Failed | Description |
| CS_OFFL_SIR_FDM_220150414T012659_20150414T014538_C001 | 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. The master fail flag is set by the OCOG call, for one or more records, |
| CS_OFFL_SIR_FDM_220150414T014617_20150414T015928_C001 | OCOG Retracked Range Flag | indicating the values stored in fields #18, #19, #20 and #21 should be ignored for these records. |
| CS_OFFL_SIR_FDM_220150414T170847_20150414T172045_C001 | 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_220150414T225357_20150414T225728_C001 | 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.

0

Number of products with errors:

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.

6

Number of products with errors:

| Product | Test Failed | Description |
|---|-------------------------------|---|
| CS_OFFL_SIR_FDM_220150414T012659_20150414T014538_C001 | 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_220150414T014617_20150414T015928_C001 | 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_220150414T021701_20150414T023235_C001 | 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_220150414T031059_20150414T032316_C001 | 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_220150414T170847_20150414T172045_C001 | 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_220150414T225357_20150414T225728_C001 | 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 | 163 | 0 | 0 | 0 | 0 |
| SIR_FDM_2 | 162 | 0 | 0 | 0 | 0 |
| 7.1 QCC Errors Number of QCC reports with er | rors: | 0 | | | |
| 7.2 Missing QCC Reports | | | | | |
| lumber of products with missi | ng QCC reports: A | II | | | |