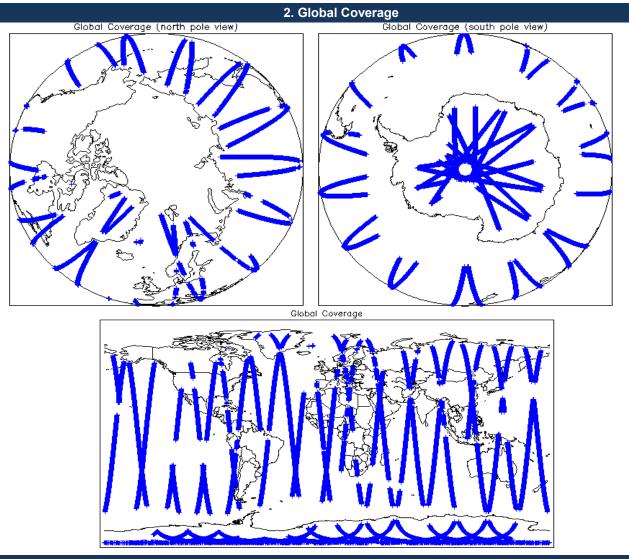


| 12-Nov-2013 | None | |
|-------------|-----------------|--|
| 13-Nov-2013 | Nothing planned | |



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 & 2 | |

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:
0

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. Number of products with errors:
0

| 4.3 L1 CAL Auxiliary Data File Usage Check | | |
|---|---|---|
| Each product is checked for missing Data Set Descriptors wrt a pre-determined baselin | e and also to check the validity of Auxi | liary 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 word (field 11) for | r each measurement record. The bit va | alue of this flag indicates any problems when set. |
| Number of products with errors: 0 | | |
| 5. Level 1B | FDM Data Quality Che | ck |
| 5.1 L1B FDM Product Format Check | - | |
| Each product, retrieved and unpacked from the science server, is checked to ensure it of | consists of both an XML beader file (F | IDP) and a binany product file (DRI) |
| Number of products with errors: 0 | | |
| 5.2.1.1P. EDM Broduct Hooder Applysic | | |
| 5.2 L1B FDM 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 a | nd/or errors raised by the ground-segment processing chain. |
| Number of products with errors: 0 | | |
| 5.3 L1B FDM Auxilary Data File Usage Check | | |
| Each product is checked for missing Data Set Descriptors wrt a pre-determined baselin | e and also to check the validity of Auxi | liary 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 ground-station pr Number of products with errors: 0 | ocessing chain as missing or containir | ig errors. |
| 5.5 L1B FDM Measurement Confidence Flags | | |
| CryoSat L1B data includes a measurement confidence flag word (field 14) for each mea | asurement record. The bit value of this | flag indicates any problems when set. |
| Number of products with errors: 5 | | |
| Product | Test Failed | Description |
| CS_OFFL_SIR_FDM_1B_20131112T081840_20131112T082531_B001 | Attitude correction missing | The attitude has not been corrected |
| CS_OFFL_SIR_FDM_1B_20131112T095953_20131112T100217_B001 | Attitude correction missing | The attitude has not been corrected |
| CS_OFFL_SIR_FDM_1B_20131112T114030_20131112T114055_B001 | Attitude correction missing | The attitude has not been corrected |
| CS_OFFL_SIR_FDM_1B_20131112T150430_20131112T150514_B001 CS_OFFL_SIR_FDM_1B_20131112T184619_20131112T184712_B001 | Attitude correction missing Echo error | The attitude has not been corrected The Echo Rx1 Error flag is set, indicating a degraded raw echo |
| | | |
| 6. Level 2 F | DM Data Quality Cheo | ck |
| 6.1 L2 FDM Product Format Check | | |
| Each product, retrieved and unpacked from the science server, is checked to ensure it of | consists of both an XML header file (.H | IDR) 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 MPH and SPH in | | |
| Currently there is a high number of processing error flags set within the Level 2 FDM pr field #29) and also within the L2 Product files (MPH field #35 and SPH field #33). They percentage of Data Set Records free of processing errors is below the minimum accept | are set by the FDM processor when an | n error is detected during the L2 processing and also when the |
| 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-determined baselin | e and also to check the validity of Auxi | liary Data Files is correct. |
| Number of products with errors: 0 | | |
| 6.4 L2 FDM Correction Error Flags | | |
| - | | |

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:

| Product | Test Failed | Description |
|---|-----------------------------|--|
| CS_OFFL_SIR_FDM_220131112T081840_20131112T082531_B001 | Attitude correction missing | The attitude has not been corrected |
| CS_OFFL_SIR_FDM_220131112T095953_20131112T100217_B001 | Attitude correction missing | The attitude has not been corrected |
| CS_OFFL_SIR_FDM_220131112T114030_20131112T114055_B001 | Attitude correction missing | The attitude has not been corrected |
| CS_OFFL_SIR_FDM_220131112T150430_20131112T150514_B001 | Attitude correction missing | The attitude has not been corrected |
| CS_OFFL_SIR_FDM_220131112T184619_20131112T184712_B001 | Echo error | The Echo Rx1 Error flag is set, indicating a degraded raw echo |

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

5

Number of products with errors:

| Product | Test Failed | Description |
|---|---------------------------|--|
| CS_OFFL_SIR_FDM_220131112T054406_20131112T055725_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_220131112T093149_20131112T093550_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_220131112T184754_20131112T190926_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. 8

0

All

Number of products with errors:

| Test Failed | Description |
|-------------------------------|--|
| 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. |
| 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. |
| 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. |
| 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. |
| 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. |
| 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. |
| 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. |
| 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. |
| | Ocean Retracking Quality Flag Ocean Retracking Quality Flag |

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 | 158 | 0 | 0 | 0 | 0 |
| SIR_FDM_2 | 152 | 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: