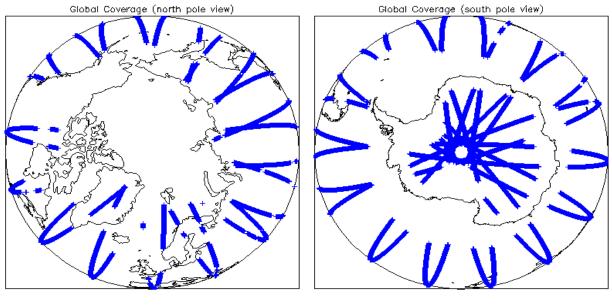
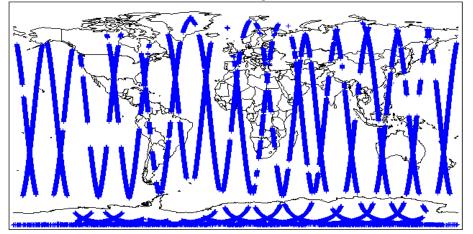


| | None |
|-------------|-----------------|
| 12-May-2014 | None |
| 13-May-2014 | Nothing planned |
| | |

2. 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. 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 baseline and also to check the validity of Auxiliary Data Files is correct.

Number of products with errors:

4.4 L1 CAL Measurement Confidence Flags

CryoSat Cal1 and Cal2 data includes a measurement confidence flag word (field 11) for each measurement record. The bit value of this flag indicates any problems when set.

Number of products with errors:

5. Level 1B FDM Data Quality Check

5.1 L1B FDM 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:

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 and/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 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 ground-station processing chain as missing or containing errors.

5

Number of products with errors:

5.5 L1B FDM Measurement Confidence Flags

CryoSat L1B data includes a measurement confidence flag word (field 14) for each measurement record. The bit value of this flag indicates any problems when set.

Number of products with errors:

| Product | Test Failed | Description |
|---------------------------------------------------------|-----------------------------|----------------------------------------------------------------|
| CS_OFFL_SIR_FDM_1B_20140512T003450_20140512T003451_B001 | Attitude correction missing | The attitude has not been corrected |
| CS_OFFL_SIR_FDM_1B_20140512T021123_20140512T021253_B001 | Attitude correction missing | The attitude has not been corrected |
| CS_OFFL_SIR_FDM_1B_20140512T052803_20140512T053529_B001 | Attitude correction missing | The attitude has not been corrected |
| CS_OFFL_SIR_FDM_1B_20140512T084238_20140512T084951_B001 | Echo error | The Echo Rx1 Error flag is set, indicating a degraded raw echo |
| CS_OFFL_SIR_FDM_1B_20140512T234200_20140512T234515_B001 | Attitude correction missing | The attitude has not been corrected |

6. Level 2 FDM Data Quality Check

6.1 L2 FDM 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:

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 order to identify any inconsistencies and/or errors raised by the processing chain.

Currently there is a high number of processing error flags set within the Level 2 FDM products (Product_Err and L2_Proc_Flag). These flags are set within L2 Header files (MPH field #19 and SPH field #29) and also within the L2 Product files (MPH field #35 and SPH field #33). They are set by the FDM processor when an error is detected during the L2 processing and also when the percentage of Data Set Records free of processing errors is below the minimum acceptable threshold set within the processor (currently set to 5%).

This issue is under investigation.

Number of products with errors:

6.3 L2 FDM Auxiliary Data File Usage Check

Each product is checked for missing Data Set Descriptors wrt a pre-determined baseline and also to check the validity of Auxiliary Data Files is correct.

Number of products with errors:

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.

5

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_220140512T003450_20140512T003451_B001 | Attitude correction missing | The attitude has not been corrected |
| CS_OFFL_SIR_FDM_220140512T021123_20140512T021253_B001 | Attitude correction missing | The attitude has not been corrected |
| CS_OFFL_SIR_FDM_220140512T052803_20140512T053529_B001 | Attitude correction missing | The attitude has not been corrected |
| CS_OFFL_SIR_FDM_220140512T084238_20140512T084951_B001 | Echo error | The Echo Rx1 Error flag is set, indicating a degraded raw echo |
| CS_OFFL_SIR_FDM_220140512T234200_20140512T234515_B001 | Attitude correction missing | The attitude has not been corrected |

| 6.6 L2 FDM Range Measure | ement Flags | | | | | | |
|--------------------------------------------------------------------------|-----------------------------------------------------|------------------------------|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|-----------------|--|
| Each product is checked to detect range | e measurements flagged by the | e processing chain as missir | ng or containing errors. | | | | |
| Number of products with errors: | 1 | | | | | | |
| Product | | Test | Failed | Description | | | |
| CS_OFFL_SIR_FDM_220140512T11 | 11734_20140512T112151_B00 | 01 000 | G Retracked Range Flag | The master fail flag is set by the OCOG call, for one o records, indicating the values stored in fields #18, #19 #21 should be ignored for these records. | | | |
| 6.7 L2 FDM SWH and Back | scatter Measuremen | nt Flags | | | | | |
| Each product is checked to detect parar | meters related to SWH and sig | ma0 that are flagged by the | processing chain as missing of | or containing errors. | | | |
| Number of products with errors: | 0 | | | · | | | |
| 6.8 L2 FDM Geophysical M | leasurement Flags | | | | | | |
| Each product is checked to detect geop | hysical measurements flagged | by the processing chain as | missing or containing errors. | | | | |
| Number of products with errors: | 7 | | | | | | |
| Product | | Test | Failed | Description | | | |
| CS_OFFL_SIR_FDM_220140512T07 | 73655_20140512T074607_B00 | 01 Ocea | n 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_220140512T08 | 81853_20140512T082118_B00 | 01 Ocea | n 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_220140512T08 | 83652_20140512T084213_B00 | 01 Ocea | n Retracking Quality Flag | | The Ocean Retracking Quality Flag is set indicating the CFI Ocean Retracker was not successfully executed for one or | | |
| CS_OFFL_SIR_FDM_220140512T084238_20140512T084951_B001 | | 01 Ocea | n 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_220140512T11 | 11734_20140512T112151_B00 | 01 Ocea | n Retracking Quality Flag | | The Ocean Retracking Quality Flag is set indicating the CFI Ocean Retracker was not successfully executed for one or | | |
| CS_OFFL_SIR_FDM_220140512T13 | 31557_20140512T134953_B00 | 01 Ocea | n Retracking Quality Flag | The Ocean Retracking Quality Flag is set indicating the CFI | | | |
| CS_OFFL_SIR_FDM_220140512T16 | _OFFL_SIR_FDM_220140512T164014_20140512T165956_B001 | | n 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 perfor warnings is provided below. | rms a primary survey of data p | | | processing facilities. A I | ist of the tests which ra | aised errors or | |
| Product type | Nb. Products | Nb. QCC Reports | Nb. Valid | | Nb. Warnings | Nb. Errors | |
| SIR_FDM_1B SIR_FDM_2 | 147 147 | 0 | 0 | | 0 | 0 | |
| SIK_FDM_2 | 147 | U | 0 | | U | U | |

7.1 QCC Errors

Number of QCC reports with errors:

7.2 Missing QCC Reports

Number of products with missing QCC reports: All

0