



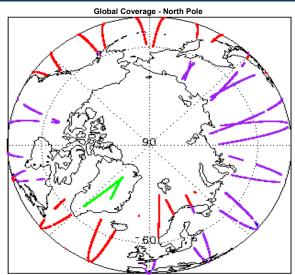
## 1. Overview

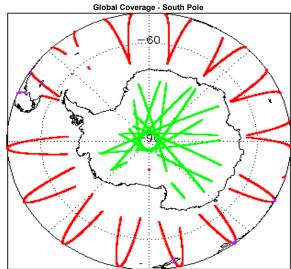
| Report Production Date: | 05-Mar-2018                          |  |
|-------------------------|--------------------------------------|--|
| Processor Used:         | CryoSat Ice Processor                |  |
| Data Used:              | L1 and L2 Fast Delivery Marine (FDM) |  |

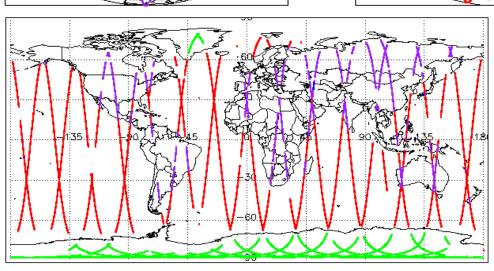
| Check                                     | Status                                 |
|---|--|
| Server check: science-pds.cryosat.esa.int | Nominal                                |
| Server check: calval-pds.cryosat.esa.int  | Nominal                                |
| Product Software Check                    | Nominal                                |
| Product Format Check                      | Nominal                                |
| Product Header Analysis                   | See Section 4.2                        |
| Star Tracker Usage Check                  | See Section 5.3                        |
| Calibration Usage Check                   | Nominal                                |
| Auxiliary Data File Usage Check           | Nominal                                |
| Auxiliary Correction Error Check          | See Section 6.4                        |
| Measurement Confidence Data Check         | See Section 5.7, 6.5, 6.6, 6.7 and 6.8 |

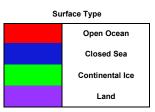
| Mission / Instr | Mission / Instrument News |  |
|-----------------|---------------------------|--|
| 01-Mar-2018     | None                      |  |
| 02-Mar-2018     | None                      |  |
| 03-Mar-2018     | Nothing planned           |  |

# 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 0 Data Quality Check

### 4.1 L0 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).

#### 4.2 L0 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:

| Product  | Test Failed   |
|--|---|
| CS_OPER_SIR1SAR_020180302T152213_20180302T152954_0001.HDR  | Percentage of processing errors detected greater than minimum acceptable threshold. |
| CS_OPER_SIR1SAR_0_20180302T234218_20180302T234526_0001.HDR | Percentage of processing errors detected greater than minimum acceptable threshold. |
| CS_OPER_SIR1SAR_0_20180302T202918_20180302T203146_0001.HDR | Percentage of processing errors detected greater than minimum acceptable threshold. |
| CS_OPER_SIR1SAR_0_20180302T102210_20180302T102517_0001.HDR | Percentage of processing errors detected greater than minimum acceptable threshold. |
| CS_OPER_SIR1SAR_020180302T034824_20180302T035813_0001.HDR  | Percentage of processing errors detected greater than minimum acceptable threshold. |
| CS_OPER_SIR1SAR_020180302T202113_20180302T202603_0001.HDR  | Percentage of processing errors detected greater than minimum acceptable threshold. |
| CS_OPER_SIR1SAR_020180302T021135_20180302T021606_0001.HDR  | Percentage of processing errors detected greater than minimum acceptable threshold. |
| CS_OPER_SIR1SIN_020180302T211516_20180302T211811_0001.HDR  | Percentage of processing errors detected greater than minimum acceptable threshold. |
| CS_OPER_SIR1SIN_020180302T172010_20180302T172215_0001.HDR  | Percentage of processing errors detected greater than minimum acceptable threshold. |
| CS_OPER_SIR2SIN_020180302T021103_20180302T021135_0001.HDR  | Percentage of processing errors detected greater than minimum acceptable threshold. |
| CS_OPER_SIR2SIN_020180302T144116_20180302T144232_0001.HDR  | Percentage of processing errors detected greater than minimum acceptable threshold. |
| CS_OPER_SIR2SIN_020180302T064804_20180302T065117_0001.HDR  | Percentage of processing errors detected greater than minimum acceptable threshold. |

## 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:

#### 5.3 L1B FDM Star Tracker Usage Check

Each product is checked in order to ensure a valid star tracker file has been used in processing.

Number of products with errors:

| Product   | Test Failed   |
|---|---|
| CS_OFFL_SIR_FDM_1B_20180302T020553_20180302T020643_C001 | No Star Tracker file used in the processing of this product |
| CS_OFFL_SIR_FDM_1B_20180302T051943_20180302T052109_C001 | No Star Tracker file used in the processing of this product |

#### 5.4 L1B FDM Calibration Usage Check

Each product is checked in order to ensure the necessary calibration files have been used in processing

Number of products with errors:

### 5.5 L1B FDM Auxilary Data File Usage Check

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

Number of products with errors:

#### 5.6 L1B FDM Auxiliary Correction Error Check

CryoSat L1B data includes a correction error flag (field 54) for each measurement record. The bit value of this flag indicates any problems when set.

Number of products with errors:

### 5.7 L1B FDM Measurement Confidence Data Check

CryoSat L1B data includes a measurement confidence flag (field 18) 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_20180302T020553_20180302T020643_C001 | Attitude correction missing | The attitude has not been corrected  |
| CS_OFFL_SIR_FDM_1B_20180302T051943_20180302T052109_C001 |                             | The attitude has not been corrected  |
| CS_OFFL_SIR_FDM_1B_20180302T171939_20180302T172010_C001 |                             | The tracking echo has returned an error and the Rx1 Echo Error flag is set, indicating a degraded echo |

## 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 ground-segment processing chain.

Number of products with errors:

#### 6.3 L2 FDM Auxiliary Data File Usage Check

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

### 6.4 L2 FDM Auxiliary Correction Error Check

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

Number of products with errors:

|  | и |  |
|--|---|--|

| Desident   | Took Foiled  | Description  |
|--|--|--|
| Product  | Test Failed Sea State Bias Correction, Altimetric                            | Description There is an error with the Altimetric Wind Speed and Sea State Bias  |
| CS_OFFL_SIR_FDM_220180302T004532_20180302T011816_C001  | Wind Speed   | Correction for one or more records   |
| CS_OFFL_SIR_FDM_220180302T013121_20180302T015715_C001  | Sea State Bias Correction, Altimetric Wind Speed                             | There is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more records                                     |
| CS_OFFL_SIR_FDM_220180302T022924_20180302T023114_C001  | Sea State Bias Correction, Altimetric<br>Wind Speed                          | There is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more records                                     |
| CS_OFFL_SIR_FDM_220180302T023117_20180302T023953_C001  | Sea State Bias Correction, Altimetric<br>Wind Speed                          | There is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more records                                     |
| CS_OFFL_SIR_FDM_2_20180302T031004_20180302T033929_C001 | Sea State Bias Correction, Mean Sea<br>Surface height, Altimetric Wind Speed | There is an error with the Altimetric Wind Speed, the Sea State Bias Correction and the Mean Sea Surface Height for one or more records    |
| CS_OFFL_SIR_FDM_220180302T040257_20180302T043604_C001  | Sea State Bias Correction, Altimetric Wind Speed                             | There is an error with the Altimetric Wind Speed and Sea State Bias<br>Correction for one or more records                                  |
| CS_OFFL_SIR_FDM_220180302T044902_20180302T045524_C001  | Sea State Bias Correction, Mean Sea<br>Surface height, Altimetric Wind Speed | There is an error with the Altimetric Wind Speed, the Sea State Bias<br>Correction and the Mean Sea Surface Height for one or more records |
| CS_OFFL_SIR_FDM_2_20180302T054126_20180302T061549_C001 | Sea State Bias Correction  | There is an error with the Sea State Bias Correction for one or more records   |
| CS_OFFL_SIR_FDM_220180302T062801_20180302T064804_C001  | Sea State Bias Correction, Altimetric<br>Wind Speed                          | There is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more records                                     |
| CS_OFFL_SIR_FDM_220180302T070600_20180302T070603_C001  | Sea State Bias Correction, Altimetric Wind Speed                             | There is an error with the Altimetric Wind Speed and Sea State Bias<br>Correction for one or more records                                  |
| CS_OFFL_SIR_FDM_220180302T071948_20180302T075335_C001  | Sea State Bias Correction, Mean Sea<br>Surface height                        | There is an error with the Sea State Bias Correction and the Mean Sea Surface Height for one or more records                               |
| CS_OFFL_SIR_FDM_220180302T080718_20180302T083607_C001  | Sea State Bias Correction, Altimetric Wind Speed                             | There is an error with the Altimetric Wind Speed and Sea State Bias<br>Correction for one or more records                                  |
| CS_OFFL_SIR_FDM_220180302T090203_20180302T091044_C001  | Sea State Bias Correction, Altimetric<br>Wind Speed                          | There is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more records                                     |
| CS_OFFL_SIR_FDM_220180302T091706_20180302T093306_C001  | Sea State Bias Correction, Altimetric  | There is an error with the Altimetric Wind Speed and Sea State Bias  |
| CS_OFFL_SIR_FDM_2_20180302T104516_20180302T105446_C001 | Wind Speed Sea State Bias Correction, Altimetric                             | Correction for one or more records There is an error with the Altimetric Wind Speed and Sea State Bias                                     |
| CS_OFFL_SIR_FDM_220180302T105647_20180302T105658_C001  | Wind Speed Sea State Bias Correction, Altimetric                             | Correction for one or more records There is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more records  |
| CS OFFL SIR FDM 2 20180302T105722 20180302T111218 C001 | Wind Speed Sea State Bias Correction, Altimetric                             | Correction for one or more records  There is an error with the Altimetric Wind Speed and Sea State Bias                                    |
|  | Wind Speed Sea State Bias Correction, Altimetric                             | Correction for one or more records There is an error with the Altimetric Wind Speed and Sea State Bias                                     |
| CS_OFFL_SIR_FDM_2_20180302T115501_20180302T115807_C001 | Wind Speed Sea State Bias Correction   | Correction for one or more records  There is an error with the Sea State Bias Correction for one or more                                   |
| CS OFFL SIR FDM 2 20180302T123430 20180302T125131 C001 | Sea State Bias Correction, Altimetric  | records There is an error with the Altimetric Wind Speed and Sea State Bias  |
| CS_OFFL_SIR_FDM_2_20180302T140447_20180302T143109_C001 | Wind Speed Sea State Bias Correction   | Correction for one or more records  There is an error with the Sea State Bias Correction for one or more                                   |
| CS_OFFL_SIR_FDM_220180302T154220_20180302T161038_C001  | Sea State Bias Correction, Altimetric  | records There is an error with the Altimetric Wind Speed and Sea State Bias  |
| CS_OFFL_SIR_FDM_220180302T162252_20180302T165803_C001  | Wind Speed Sea State Bias Correction, Altimetric                             | Correction for one or more records There is an error with the Altimetric Wind Speed and Sea State Bias                                     |
| CS_OFFL_SIR_FDM_2_20180302T171118_20180302T171301_C001 | Wind Speed Sea State Bias Correction   | Correction for one or more records There is an error with the Sea State Bias Correction for one or more                                    |
| CS_OFFL_SIR_FDM_2_20180302T173929_20180302T174034_C001 | Sea State Bias Correction, Altimetric  | There is an error with the Altimetric Wind Speed and Sea State Bias  |
| CS OFFL SIR FDM 2 20180302T175150 20180302T175711 C001 | Wind Speed Sea State Bias Correction, Altimetric                             | Correction for one or more records There is an error with the Altimetric Wind Speed and Sea State Bias                                     |
| CS OFFL SIR FDM 2 20180302T180241 20180302T182522 C001 | Wind Speed Sea State Bias Correction   | Correction for one or more records There is an error with the Sea State Bias Correction for one or more                                    |
| CS OFFL SIR FDM 2 20180302T182808 20180302T183721 C001 | Sea State Bias Correction, Altimetric  | records There is an error with the Altimetric Wind Speed and Sea State Bias  |
|  | Wind Speed   | Correction for one or more records There is an error with the Sea State Bias Correction for one or more                                    |
| CS_OFFL_SIR_FDM_220180302T184945_20180302T185338_C001  | Sea State Bias Correction  | records There is an error with the Sea State Bias Correction for one or more   |
| CS_OFFL_SIR_FDM_220180302T190051_20180302T190601_C001  | Sea State Bias Correction Sea State Bias Correction, Altimetric              | records There is an error with the Altimetric Wind Speed and Sea State Bias  |
| CS_OFFL_SIR_FDM_220180302T191602_20180302T192917_C001  | Wind Speed Sea State Bias Correction, Altimetric                             | Correction for one or more records  There is an error with the Altimetric Wind Speed and Sea State Bias                                    |
| CS_OFFL_SIR_FDM_220180302T194200_20180302T194812_C001  | Wind Speed Sea State Bias Correction, Altimetric                             | Correction for one or more records  There is an error with the Altimetric Wind Speed and Sea State Bias                                    |
| CS_OFFL_SIR_FDM_220180302T194822_20180302T201420_C001  | Wind Speed Sea State Bias Correction, Altimetric                             | Correction for one or more records  There is an error with the Altimetric Wind Speed and Sea State Bias                                    |
| CS_OFFL_SIR_FDM_220180302T203243_20180302T210349_C001  | Wind Speed   | Correction for one or more records   |
| CS_OFFL_SIR_FDM_220180302T212149_20180302T213825_C001  | Sea State Bias Correction, Altimetric<br>Wind Speed                          | There is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more records                                     |
| CS_OFFL_SIR_FDM_220180302T214420_20180302T215120_C001  | Sea State Bias Correction  | There is an error with the Sea State Bias Correction for one or more records   |
| CS_OFFL_SIR_FDM_220180302T221641_20180302T222823_C001  | Sea State Bias Correction, Altimetric<br>Wind Speed                          | There is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more records                                     |
| CS_OFFL_SIR_FDM_220180302T223441_20180302T224617_C001  | Sea State Bias Correction, Altimetric<br>Wind Speed                          | There is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more records                                     |
| CS_OFFL_SIR_FDM_220180302T230103_20180302T231607_C001  | Sea State Bias Correction, Altimetric<br>Wind Speed                          | There is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more records                                     |
| CS_OFFL_SIR_FDM_220180302T231747_20180302T233158_C001  | Sea State Bias Correction, Altimetric Wind Speed                             | There is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more records                                     |
| CS_OFFL_SIR_FDM_220180302T235441_20180303T000150_C001  | Sea State Bias Correction, Altimetric Wind Speed                             | There is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more records                                     |

## 6.5 L2 FDM Measurement Confidence Data Check

CryoSat L2 data includes a measurement confidence flag (field 8) for each 20-Hz 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_220180302T020553_20180302T020643_C001 | Attitude correction missing | The attitude has not been corrected                            |
| CS_OFFL_SIR_FDM_220180302T051943_20180302T052109_C001 | Attitude correction missing | The attitude has not been corrected                            |
| CS_OFFL_SIR_FDM_220180302T171939_20180302T172010_C001 | Echo error                  | The Echo Rx1 Error flag is set, indicating a degraded raw echo |

### 6.6 L2 FDM Range Measurement Check

CryoSat L2 data includes a CFI (field 17) and OCOG (field 22) Range Averaging Status flag for each measurement record. The bit value of this flag indicates any problems when set.

Number of products with errors:

| 2 | 0 |
|---|---|

| Product  | Test Failed              | Description   |
|--|--------------------------|---|
| CS_OFFL_SIR_FDM_2_20180302T004532_20180302T011816_C001 | CFI Retracked Range Flag | The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #13, #14, #15 and #16 should be ignored for these records. |
| CS_OFFL_SIR_FDM_220180302T013121_20180302T015715_C001  | CFI Retracked Range Flag | The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #13, #14, #15 and #16 should be ignored for these records. |
| CS_OFFL_SIR_FDM_220180302T022924_20180302T023114_C001  | CFI Retracked Range Flag | The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #13, #14, #15 and #16 should be ignored for these records. |
| CS_OFFL_SIR_FDM_220180302T023117_20180302T023953_C001  | CFI Retracked Range Flag | The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #13, #14, #15 and #16 should be ignored for these records. |
| CS_OFFL_SIR_FDM_220180302T031004_20180302T033929_C001  | CFI Retracked Range Flag | The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #13, #14, #15 and #16 should be ignored for these records. |
| CS_OFFL_SIR_FDM_220180302T040257_20180302T043604_C001  | CFI Retracked Range Flag | The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #13, #14, #15 and #16 should be ignored for these records. |
| CS_OFFL_SIR_FDM_220180302T080718_20180302T083607_C001  | CFI Retracked Range Flag | The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #13, #14, #15 and #16 should be ignored for these records. |
| CS_OFFL_SIR_FDM_220180302T104516_20180302T105446_C001  | CFI Retracked Range Flag | The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #13, #14, #15 and #16 should be ignored for these records. |
| CS_OFFL_SIR_FDM_220180302T105647_20180302T105658_C001  | CFI Retracked Range Flag | The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #13, #14, #15 and #16 should be ignored for these records. |
| CS_OFFL_SIR_FDM_220180302T105722_20180302T111218_C001  | CFI Retracked Range Flag | The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #13, #14, #15 and #16 should be ignored for these records. |
| CS_OFFL_SIR_FDM_220180302T115054_20180302T115445_C001  | CFI Retracked Range Flag | The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #13, #14, #15 and #16 should be ignored for these records. |
| CS_OFFL_SIR_FDM_220180302T154220_20180302T161038_C001  | CFI Retracked Range Flag | The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #13, #14, #15 and #16 should be ignored for these records. |
| CS_OFFL_SIR_FDM_2_20180302T162252_20180302T165803_C001 | CFI Retracked Range Flag | The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #13, #14, #15 and #16 should be ignored for these records. |
| CS_OFFL_SIR_FDM_220180302T173929_20180302T174034_C001  | CFI Retracked Range Flag | The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #13, #14, #15 and #16 should be ignored for these records. |
| CS_OFFL_SIR_FDM_220180302T175150_20180302T175711_C001  | CFI Retracked Range Flag | The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #13, #14, #15 and #16 should be ignored for these records. |
| CS_OFFL_SIR_FDM_220180302T182808_20180302T183721_C001  | CFI Retracked Range Flag | The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #13, #14, #15 and #16 should be ignored for these records. |
| CS_OFFL_SIR_FDM_2_20180302T191602_20180302T192917_C001 | CFI Retracked Range Flag | The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #13, #14, #15 and #16 should be ignored for these records. |
| CS_OFFL_SIR_FDM_220180302T194200_20180302T194812_C001  | CFI Retracked Range Flag | The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #13, #14, #15 and #16 should be ignored for these records. |
| CS_OFFL_SIR_FDM_220180302T194822_20180302T201420_C001  | CFI Retracked Range Flag | The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #13, #14, #15 and #16 should be ignored for these records. |
| CS_OFFL_SIR_FDM_220180302T203243_20180302T210349_C001  | CFI Retracked Range Flag | The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #13, #14, #15 and #16 should be ignored for these records. |
| CS_OFFL_SIR_FDM_220180302T212149_20180302T213825_C001  | CFI Retracked Range Flag | The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #13, #14, #15 and #16 should be ignored for these records. |
| CS_OFFL_SIR_FDM_220180302T221641_20180302T222823_C001  | CFI Retracked Range Flag | The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #13, #14, #15 and #16 should be ignored for these records. |
| CS_OFFL_SIR_FDM_2_20180302T223441_20180302T224617_C001 | CFI Retracked Range Flag | The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #13, #14, #15 and #16 should be ignored for these records. |
| CS_OFFL_SIR_FDM_220180302T230103_20180302T231607_C001  | CFI Retracked Range Flag | The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #13, #14, #15 and #16 should be ignored for these records. |
| CS_OFFL_SIR_FDM_220180302T231747_20180302T233158_C001  | CFI Retracked Range Flag | The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #13, #14, #15 and #16 should be ignored for these records. |
| CS_OFFL_SIR_FDM_220180302T235441_20180303T000150_C001  | CFI Retracked Range Flag | The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #13, #14, #15 and #16 should be ignored for these records. |

### 6.7 L2 FDM SWH and Backscatter Measurement Check

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CryoSat L2 data includes a SWH-Squared Averaging Status flag (field 39) and an CFI (field 45) and OCOG (field 51) Backscatter Averaging Status flag 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_220180302T004532_20180302T011816_C001 | CFI Backscatter Status Flag, SWH<br>Squared Averaging Status Flag | The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #41, #42, #43 and #44 should be ignored for these records. |
| CS_OFFL_SIR_FDM_220180302T013121_20180302T015715_C001 | CFI Backscatter Status Flag, SWH<br>Squared Averaging Status Flag | The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #41, #42, #43 and #44 should be ignored for these records. |
| CS_OFFL_SIR_FDM_220180302T022924_20180302T023114_C001 | CFI Backscatter Status Flag, SWH<br>Squared Averaging Status Flag | The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #41, #42, #43 and #44 should be ignored for these records. |
| CS_OFFL_SIR_FDM_220180302T023117_20180302T023953_C001 | CFI Backscatter Status Flag, SWH<br>Squared Averaging Status Flag | The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #41, #42, #43 and #44 should be ignored for these records. |

| CS_OFFL_SIR_FDM_220180302T031004_20180302T033929_C001  | CFI Backscatter Status Flag, SWH<br>Squared Averaging Status Flag | The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #41, #42, #43 and #44 should be ignored for these records. |
|--|---|---|
| CS_OFFL_SIR_FDM_220180302T040257_20180302T043604_C001  | CFI Backscatter Status Flag, SWH<br>Squared Averaging Status Flag | The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #41, #42, #43 and #44 should be ignored for these records. |
| CS_OFFL_SIR_FDM_220180302T080718_20180302T083607_C001  | CFI Backscatter Status Flag, SWH<br>Squared Averaging Status Flag | The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #41, #42, #43 and #44 should be ignored for these records. |
| CS_OFFL_SIR_FDM_220180302T104516_20180302T105446_C001  | CFI Backscatter Status Flag, SWH<br>Squared Averaging Status Flag | The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #41, #42, #43 and #44 should be ignored for these records. |
| CS_OFFL_SIR_FDM_2_20180302T105647_20180302T105658_C001 | CFI Backscatter Status Flag, SWH<br>Squared Averaging Status Flag | The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #41, #42, #43 and #44 should be ignored for these records. |
| CS_OFFL_SIR_FDM_2_20180302T105722_20180302T111218_C001 | CFI Backscatter Status Flag, SWH<br>Squared Averaging Status Flag | The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #41, #42, #43 and #44 should be ignored for these records. |
| CS_OFFL_SIR_FDM_2_20180302T115054_20180302T115445_C001 | CFI Backscatter Status Flag, SWH<br>Squared Averaging Status Flag | The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #41, #42, #43 and #44 should be ignored for these records. |
| CS_OFFL_SIR_FDM_2_20180302T154220_20180302T161038_C001 | CFI Backscatter Status Flag, SWH<br>Squared Averaging Status Flag | The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #41, #42, #43 and #44 should be ignored for these records. |
| CS_OFFL_SIR_FDM_2_20180302T162252_20180302T165803_C001 | CFI Backscatter Status Flag, SWH<br>Squared Averaging Status Flag | The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #41, #42, #43 and #44 should be ignored for these records. |
| CS_OFFL_SIR_FDM_2_20180302T173929_20180302T174034_C001 | CFI Backscatter Status Flag, SWH<br>Squared Averaging Status Flag | The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #41, #42, #43 and #44 should be ignored for these records. |
| CS_OFFL_SIR_FDM_2_20180302T175150_20180302T175711_C001 | CFI Backscatter Status Flag, SWH<br>Squared Averaging Status Flag | The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #41, #42, #43 and #44 should be ignored for these records. |
| CS_OFFL_SIR_FDM_2_20180302T182808_20180302T183721_C001 | CFI Backscatter Status Flag, SWH<br>Squared Averaging Status Flag | The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #41, #42, #43 and #44 should be ignored for these records. |
| CS_OFFL_SIR_FDM_2_20180302T191602_20180302T192917_C001 | CFI Backscatter Status Flag, SWH<br>Squared Averaging Status Flag | The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #41, #42, #43 and #44 should be ignored for these records. |
| CS_OFFL_SIR_FDM_2_20180302T194200_20180302T194812_C001 | CFI Backscatter Status Flag, SWH<br>Squared Averaging Status Flag | The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #41, #42, #43 and #44 should be ignored for these records. |
| CS_OFFL_SIR_FDM_2_20180302T194822_20180302T201420_C001 | CFI Backscatter Status Flag, SWH<br>Squared Averaging Status Flag | The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #41, #42, #43 and #44 should be ignored for these records. |
| CS_OFFL_SIR_FDM_2_20180302T203243_20180302T210349_C001 | CFI Backscatter Status Flag, SWH<br>Squared Averaging Status Flag | The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #41, #42, #43 and #44 should be ignored for these records. |
| CS_OFFL_SIR_FDM_2_20180302T212149_20180302T213825_C001 | CFI Backscatter Status Flag, SWH<br>Squared Averaging Status Flag | The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #41, #42, #43 and #44 should be ignored for these records. |
| CS_OFFL_SIR_FDM_2_20180302T221641_20180302T222823_C001 | CFI Backscatter Status Flag, SWH<br>Squared Averaging Status Flag | The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #41, #42, #43 and #44 should be ignored for these records. |
| CS_OFFL_SIR_FDM_2_20180302T223441_20180302T224617_C001 | CFI Backscatter Status Flag, SWH<br>Squared Averaging Status Flag | The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #41, #42, #43 and #44 should be ignored for these records. |
| CS_OFFL_SIR_FDM_2_20180302T230103_20180302T231607_C001 | CFI Backscatter Status Flag, SWH<br>Squared Averaging Status Flag | The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #41, #42, #43 and #44 should be ignored for these records. |
| CS_OFFL_SIR_FDM_220180302T231747_20180302T233158_C001  | CFI Backscatter Status Flag, SWH<br>Squared Averaging Status Flag | The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #41, #42, #43 and #44 should be ignored for these records. |
| CS_OFFL_SIR_FDM_2_20180302T235441_20180303T000150_C001 | CFI Backscatter Status Flag, SWH<br>Squared Averaging Status Flag | The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #41, #42, #43 and #44 should be ignored for these records. |
| 6.9.1.2 EDM Ocean Betweeking Quality Check             |   |   |

# 6.8 L2 FDM Ocean Retracking Quality Check

CryoSat L2 data includes an ocean retracking quality flag (field 66) for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.

Number of products with errors:

45

| Product   | Test Failed                   | Description  |
|---|-------------------------------|--|
| CS_OFFL_SIR_FDM_220180302T004532_20180302T011816_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_220180302T013121_20180302T015715_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_220180302T022924_20180302T023114_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_220180302T023117_20180302T023953_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_220180302T031004_20180302T033929_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_220180302T040257_20180302T043604_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_220180302T054126_20180302T061549_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_220180302T071948_20180302T075335_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_220180302T080718_20180302T083607_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_220180302T091524_20180302T091703_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_220180302T091706_20180302T093306_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_220180302T095109_20180302T100340_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_220180302T100554_20180302T101743_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_220180302T104516_20180302T105446_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_220180302T105647_20180302T105658_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_220180302T105722_20180302T111218_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_220180302T114721_20180302T114931_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_220180302T115054_20180302T115445_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_220180302T115501_20180302T115807_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_220180302T123430_20180302T125131_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_220180302T130426_20180302T133022_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_220180302T140447_20180302T143109_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_220180302T150121_20180302T151625_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_220180302T154220_20180302T161038_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_220180302T162252_20180302T165803_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_220180302T171118_20180302T171301_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_220180302T173929_20180302T174034_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_220180302T175150_20180302T175711_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_220180302T180241_20180302T182522_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_220180302T182808_20180302T183721_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_220180302T184945_20180302T185338_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_220180302T190051_20180302T190601_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_220180302T191602_20180302T192917_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_220180302T194200_20180302T194812_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_220180302T194822_20180302T201420_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_220180302T203243_20180302T210349_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_220180302T212149_20180302T213825_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_220180302T213828_20180302T213939_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_220180302T214420_20180302T215120_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_220180302T221254_20180302T221552_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_220180302T221641_20180302T222823_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_220180302T223441_20180302T224617_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_220180302T230103_20180302T231607_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_220180302T231747_20180302T233158_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 Report Analysis

The Quality Control for CryoSat (QCC) facility 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 | No. Products | No. QCC Reports | No. Valid | No. Warnings | No. Errors |
|--------------|--------------|-----------------|-----------|--------------|------------|
| SIR1LRM_0_   | 166          | 166             | 166       | 0            | 0          |
| SIR1SAR_0_   | 129          | 129             | 129       | 0            | 0          |
| SIR1SIN_0_   | 112          | 112             | 112       | 0            | 0          |
| SIR2SIN_0_   | 118          | 118             | 118       | 0            | 0          |
| SIR_FDM_1B   | 166          | 166             | 166       | 0            | 0          |
| SIR FDM 2    | 166          | 166             | 166       | 0            | 0          |

## 7.1 QCC Errors

Number of QCC reports with errors:

# 7.2 QCC Warnings

Number of QCC reports with warnings

0

0

# 7.3 Missing QCC Reports

Number of products with missing QCC reports:

0