| Report Production Date: | 14-Jun-2018 |
| :---: | :---: |
| Processor Used: | CryoSat Ice Processor |
| Data Used: | L1 and L2 Fast Delivery Marine (FDM) <br> Mode and LO Data |

## 1. Overview

| 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 / Instrument News |  |
| :---: | :--- |
| 12-Jun-2018 | None |
| 13-Jun-2018 | None |
| 14-Jun-2018 | 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 |

## 4. Level 0 Data Quality Check

### 4.1 LO 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 LO 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
CS_OPER_SIR1SAR_0_20180613T073206_20180613T073728_0001.HDR
CS_OPER_SIR1SAR_0_20180613T002045_20180613T002334_0001.HDR
CS_OPER_SIR1SIN_0_20180613T100641_20180613T100806_0001.HDR

Test Failed
Percentage of processing errors detected greater than minimum acceptable threshold Percentage of processing errors detected greater than minimum acceptable threshold. 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: 4

| Product | Te |
| :--- | :--- |
| CS_OFFL_SIR_FDM_1B_20180613T041011_20180613T041112_C001 | No |
| CS_OFFL_SIR_FDM_1B_20180613T204130_20180613T204158_C001 | No |
| CS_OFFL_SIR_FDM_1B_20180613T221549_20180613T221804_C001 | No |
| CS_OFFL_SIR_FDM_1B_20180613T235424_20180613T235555__C001 | No |

## Test Failed

No Star Tracker file used in the processing of this product
No Star Tracker file used in the processing of this product
No Star Tracker file used in the processing of this product
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:

4

| Product | Test Failed | Description |
| :--- | :--- | :--- |
| CS_OFFL_SIR_FDM_1B_20180613T041011_20180613T041112_C001 | Attitude correction missing | The attitude has not been corrected |
| CS_OFFL_SIR_FDM_1B_20180613T204130_20180613T204158_C001 | Attitude correction missing | The attitude has not been corrected |
| CS_OFFL_SIR_FDM_1B_20180613T221549_20180613T221804_C001 | Attitude correction missing | The attitude has not been corrected |
| CS_OFFL_SIR_FDM_1B_20180613T235424_20180613T235550_C001 | 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 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.
Number of products with errors:

### 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:
35

| Product | Test Failed | Description |
| :--- | :--- | :--- |
| CS_OFFL_SIR_FDM_2_20180613T004506_20180613T004541_C001 | Sea State Bias Correction, Altimetric <br> Wind Speed <br> Sea State Bias Correction, Altimetric <br> Wind Speed <br> Sea State Bias Correction, Altimetric <br> Wind Speed | There is an error with the Altimetric Wind Speed and Sea State Bias <br> Correction for one or more records <br> There is an error with the Altimetric Wind Speed and Sea State Bias <br> Correction for one or more records <br> There is an error with the Altimetric Wind Speed and Sea State Bias <br> Correction for one or more records |
| CS_OFFL_SIR_FDM_2_20180613T010620_20180613T011532_C001 |  |  |

CS_OFFL_SIR_FDM_2__20180613T023126_20180613T023134_C001 CS_OFFL_SIR_FDM_2__20180613T024307_20180613T031826_C001 CS_OFFL_SIR_FDM_2__20180613T033728_20180613T040841_C001 CS_OFFL_SIR_FDM_2__20180613T042136_20180613T042852_C001 CS_OFFL_SIR_FDM_2__20180613T042855_20180613T043612_C001 CS_OFFL_SIR_FDM_2__20180613T044158_20180613T045801_C001 CS_OFFL_SIR_FDM_2_20180613T051524_20180613T052909_C001 CS_OFFL_SIR_FDM_2__20180613T053122_20180613T054423_C001 CS_OFFL_SIR_FDM_2__20180613T061053_20180613T062112_C001 CS OFFL SIR FDM 2 20180613T065711 20180613 T070653 C001 CS_OFFL_SIR_FDM_2__20180613T070957_20180613T071501_C001 CS_OFFL_SIR_FDM_2__20180613T072747_20180613T072751_C001 CS_OFFL_SIR_FDM_2__20180613T075350_20180613T081525_C001 CS_OFFL_SIR_FDM_2__20180613T083049_20180613T085805_C001 CS_OFFL_SIR_FDM_2_20180613T092002_20180613T092040_C001 CS_OFFL_SIR_FDM_2__20180613T093030_20180613T095519_C001 CS_OFFL_SIR_FDM_2__20180613T111215_20180613T111602_C001 CS_OFFL_SIR_FDM_2__20180613T112944_20180613T113432_C001 CS_OFFL_SIR_FDM_2__20180613T115016_20180613T122315_C001 CS_OFFL_SIR_FDM_2__20180613T124202_20180613T124350_C001 CS_OFFL_SIR_FDM_2__20180613T125842_20180613T131312_C001 CS_OFFL_SIR_FDM_2__20180613T143329_20180613T145202_C001 CS_OFFL_SIR_FDM_2__20180613T150858_20180613T154512_C001 CS_OFFL_SIR_FDM_2__20180613T164801_20180613T170308_C001 CS_OFFL_SIR_FDM_2_20180613T170511_20180613T171455_C001 CS_OFFL_SIR_FDM_2__20180613T173712_20180613T175351_C001 CS_OFFL_SIR_FDM_2__20180613T200711_20180613T203140_C001 CS_OFFL_SIR_FDM_2__20180613T204158_20180613T204206_C001 CS_OFFL_SIR_FDM_2__20180613T210314_20180613T211640_C001 CS_OFFL_SIR_FDM_2__20180613T214607_20180613T221239_C001 CS_OFFL_SIR_FDM_2__20180613T223818_20180613T225345_C001 CS_OFFL_SIR_FDM_2__20180613T233518_20180613T233932_C001

Sea State Bias Correction, Altimetric Wind Speed
Sea State Bias Correction, Altimetric Wind Speed
Sea State Bias Correction, Altimetric Wind Speed
Sea State Bias Correction, Altimetric Wind Speed
Sea State Bias Correction
Sea State Bias Correction, Altimetric Wind Speed
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Sea State Bias Correction
Sea State Bias Correction, Altimetric Wind Speed
Sea State Bias Correction, Altimetric Wind Speed
Sea State Bias Correction

There is an error with the Altimetric Wind Speed and Sea State Bias 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
There is an error with the Altimetric Wind Speed and Sea State Bias 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
There is an error with the Sea State Bias 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
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There is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more records
There is an error with the Sea State Bias 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
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There is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more records
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There is an error with the Sea State Bias 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
There is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more records
There is an error with the 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 $20-\mathrm{Hz}$ measurement record. The bit value of this flag indicates any problems when set. Number of products with errors:

## Product

CS_OFFL_SIR_FDM_2_20180613T041011_20180613T041112_C001 CS_OFFL_SIR_FDM_2__20180613T204130_20180613T204158_C001 CS_OFFL_SIR_FDM_2_20180613T221549_20180613T221804_C001 CS_OFFL_SIR_FDM_2__20180613T235424_20180613T235550_C001

Test Failed
Attitude correction missing Attitude correction missing Attitude correction missing Attitude correction missing

Description
The attitude has not been corrected
The attitude has not been corrected
The attitude has not been corrected
The attitude has not been corrected

### 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:
23
$\left.\begin{array}{l|l|l}\text { Product } & \text { Test Failed } & \text { Description } \\ \hline \text { CS_OFFL_SIR_FDM_2_20180613T004506_20180613T004541_C001 } & \text { CFI Retracked Range Flag } & \begin{array}{l}\text { The master fail flag is set by the CFI call, for one or more records, } \\ \text { indicating the values stored in fields \#13, \#14, \#15 and \#16 should be } \\ \text { ignored for these records. }\end{array} \\ \hline \text { CS_OFFL_SIR_FDM_2_20180613T010620_20180613T011532_C001 } & \text { CFI Retracked Range Flag } & \begin{array}{l}\text { The master fail flag is set by the CFI call, for one or more records, } \\ \text { indicating the values stored in fields \#13, \#14, \#15 and \#16 should be } \\ \text { ignored for these records. }\end{array} \\ \text { The master fail flag is set by the CFI call, for one or more records, } \\ \text { indicating the values stored in fields \#13, \#14, \#15 and \#16 should be } \\ \text { ignored for these records. }\end{array}\right]$

| CS_OFFL_SIR_FDM_2_20180613T051524_20180613T052909_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_20180613T053122_20180613T054423_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_20180613T065711_20180613T070653_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_20180613T070957_20180613T071501_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_20180613T075350_20180613T081525_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_20180613T092002_20180613T092040_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_20180613T111215_20180613T111602_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_20180613T115016_20180613T122315_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_20180613T124202_20180613T124350_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_20180613T125842_20180613T131312_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_20180613T150858_20180613T154512_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_20180613T164801_20180613T170308_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_20180613T170511_20180613T171455_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_20180613T173712_20180613T175351_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_20180613T200711_20180613T203140_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_20180613T204158_20180613T204206_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_20180613T214607_20180613T221239_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

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: 23

Product
CS_OFFL_SIR_FDM_2_20180613T004506_20180613T004541_C001

CS_OFFL_SIR_FDM_2_20180613T010620_20180613T011532_C001

CS_OFFL_SIR_FDM_2_20180613T024307_20180613T031826_C001

CS_OFFL_SIR_FDM_2_20180613T033728_20180613T040841_C001

CS_OFFL_SIR_FDM_2_20180613T042136_20180613T042852_C001

CS_OFFL_SIR_FDM_2_20180613T044158_20180613T045801_C001

CS_OFFL_SIR_FDM_2_20180613T051524_20180613T052909_C001

CS_OFFL_SIR_FDM_2_20180613T053122_20180613T054423_C001

CS_OFFL_SIR_FDM_2_20180613T065711_20180613T070653_C001

CS_OFFL_SIR_FDM_2_20180613T070957_20180613T071501_C001

CS_OFFL_SIR_FDM_2_20180613T075350_20180613T081525_C001

CS_OFFL_SIR_FDM_2_20180613T092002_20180613T092040_C001

CS_OFFL_SIR_FDM_2_20180613T111215_20180613T111602_C001

CS_OFFL_SIR_FDM_2_20180613T115016_20180613T122315_C001

CS_OFFL_SIR_FDM_2_20180613T124202_20180613T124350_C001

## Test Failed

CFI Backscatter Status Flag, SWH Squared Averaging Status Flag

CFI Backscatter Status Flag, SWH Squared Averaging Status Flag

CFI Backscatter Status Flag, SWH Squared Averaging Status Flag

CFI Backscatter Status Flag, SWH Squared Averaging Status Flag

CFI Backscatter Status Flag, SWH Squared Averaging Status Flag

CFI Backscatter Status Flag, SWH Squared Averaging Status Flag

CFI Backscatter Status Flag, SWH Squared Averaging Status Flag

CFI Backscatter Status Flag, SWH Squared Averaging Status Flag

CFI Backscatter Status Flag, SWH Squared Averaging Status Flag

CFI Backscatter Status Flag, SWH Squared Averaging Status Flag

CFI Backscatter Status Flag, SWH Squared Averaging Status Flag

CFI Backscatter Status Flag, SWH Squared Averaging Status Flag
CFI Backscatter Status Flag, SWH Squared Averaging Status Flag

CFI Backscatter Status Flag, SWH Squared Averaging Status Flag

CFI Backscatter Status Flag, SWH Squared Averaging Status Flag

## Description

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.
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.
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.
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.
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.
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.
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.
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.
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.
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.
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.
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.
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.
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.
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_20180613T125842_20180613T131312_C001

CS_OFFL_SIR_FDM_2_20180613T150858_20180613T154512_C001

CS_OFFL_SIR_FDM_2_20180613T164801_20180613T170308_C001

CS_OFFL_SIR_FDM_2_20180613T170511_20180613T171455_C001

CS_OFFL_SIR_FDM_2_20180613T173712_20180613T175351_C001

CS_OFFL_SIR_FDM_2_20180613T200711_20180613T203140_C001

CS_OFFL_SIR_FDM_2_20180613T204158_20180613T204206_C001

CS_OFFL_SIR_FDM_2_20180613T214607_20180613T221239_C001

CFI Backscatter Status Flag, SWH Squared Averaging Status Flag

CFI Backscatter Status Flag, SWH Squared Averaging Status Flag

CFI Backscatter Status Flag, SWH Squared Averaging Status Flag

CFI Backscatter Status Flag, SWH Squared Averaging Status Flag

CFI Backscatter Status Flag, SWH Squared Averaging Status Flag

CFI Backscatter Status Flag, SWH Squared Averaging Status Flag

CFI Backscatter Status Flag, SWH Squared Averaging Status Flag

CFI Backscatter Status Flag, SWH 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.
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.
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### 6.8 L2 FDM Ocean Retracking Quality Check

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

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 | Nb. Products | Nb. QCC Reports | Nb. Valid | Nb. Warnings |
| :---: | :---: | :---: | :---: | :---: | :---: |
| SIR_FDM_1B | 153 | 153 | 153 | 0 |
| SIR_FDM_2 | 150 | 150 | 150 | 0 |

### 7.1 QCC Errors

Number of QCC reports with errors: $\qquad$

### 7.2 QCC Warnings

Number of QCC reports with warnings 0

### 7.3 Missing QCC Reports

Number of products with missing QCC reports:

