

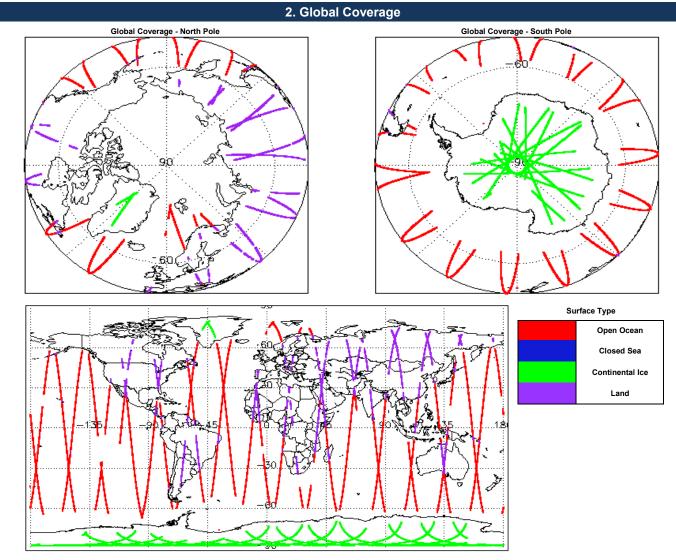
# **IDEAS+ Daily Report for FDM data:**

# 22/12/2016



Report Production Date:	10-Jan-2017	Check	Status	
Report Production Date.	10-Jan-2017	Server check: science-pds.cryosat.esa.int	Nominal	
Processor Used:	CryoSat Ice Processor	Server check: calval-pds.cryosat.esa.int	Nominal	
Processor Useu.		Product Software Check	Nominal	
Data Used:	L1 and L2 Fast Delivery Marine (FDM)	Product Format Check	Nominal	
Data Oseu.	Mode and L0 Data	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	

21-Dec-2016         None           22-Dec-2016         None           23-Dec-2016         None	Mission / Instru	Mission / Instrument News		
	21-Dec-2016	None		
22 Dec 2016 Nething alarmed	22-Dec-2016	None		
23-Dec-2016 Nothing planned	23-Dec-2016	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 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).

Number of products with errors:

### 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:

12

0

Product	Test Failed
CS_OPER_SIR1LRM_020161222T061841_20161222T065002_0001.DBL	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR1SAR_020161222T010206_20161222T010532_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR1SIN_020161222T084941_20161222T085207_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR1SIN_0_20161222T083234_20161222T083449_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR1SIN_0_20161222T042416_20161222T042736_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR1SIN_0_20161222T233136_20161222T233617_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR1SIN_0_20161222T010730_20161222T010933_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR1SIN_0_20161222T092732_20161222T093425_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR2SIN_020161222T042513_20161222T042736_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR2SIN_0_20161222T002311_20161222T003425_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR2SIN_0_20161222T160347_20161222T160649_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR2SIN_0_20161222T085013_20161222T085207_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: 0

### 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	Test Failed
CS_OFFL_SIR_FDM_1B_20161222T000540_20161222T001217_C001	No Star Tracker file used in the processing of this product
CS_OFFL_SIR_FDM_1B_20161222T014755_20161222T014908_C001	No Star Tracker file used in the processing of this product
CS_OFFL_SIR_FDM_1B_20161222T032730_20161222T032752_C001	No Star Tracker file used in the processing of this product
CS_OFFL_SIR_FDM_1B_20161222T065123_20161222T065223_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

0

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. 4

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_FDM_1B_20161222T000540_20161222T001217_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20161222T014755_20161222T014908_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20161222T032730_20161222T032752_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20161222T065123_20161222T065223_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: 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 order to identify any inconsistencies and/or errors raised by the ground-segment processing chain. Number of products with errors: 0

### 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.

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Number of products with errors:

Product
CS_OFFL_SIR_FDM_220161222T003641_20161222T004636_C001
CS_OFFL_SIR_FDM_220161222T011753_20161222T014559_C001
CS_OFFL_SIR_FDM_220161222T015326_20161222T015531_C001
CS_OFFL_SIR_FDM_220161222T025748_20161222T030158_C001
CS_OFFL_SIR_FDM_220161222T032619_20161222T032652_C001
CS_OFFL_SIR_FDM_220161222T033208_20161222T033551_C001
CS_OFFL_SIR_FDM_220161222T035931_20161222T042122_C001
CS_OFFL_SIR_FDM_220161222T052636_20161222T055957_C001
CS_OFFL_SIR_FDM_220161222T061841_20161222T065002_C001
CS_OFFL_SIR_FDM_220161222T070846_20161222T071725_C001
CS_OFFL_SIR_FDM_220161222T072325_20161222T073934_C001
CS_OFFL_SIR_FDM_220161222T081234_20161222T082609_C001
CS_OFFL_SIR_FDM_220161222T085207_20161222T090225_C001
CS_OFFL_SIR_FDM_220161222T093819_20161222T094810_C001
CS_OFFL_SIR_FDM_220161222T095105_20161222T095613_C001
CS_OFFL_SIR_FDM_220161222T103330_20161222T105729_C001
CS_OFFL_SIR_FDM_220161222T121142_20161222T123642_C001
CS_OFFL_SIR_FDM_220161222T125159_20161222T130222_C001
CS_OFFL_SIR_FDM_220161222T134740_20161222T140605_C001
CS_OFFL_SIR_FDM_220161222T143129_20161222T150410_C001
CS_OFFL_SIR_FDM_220161222T161013_20161222T163200_C001
CS_OFFL_SIR_FDM_220161222T163445_20161222T164419_C001
CS_OFFL_SIR_FDM_220161222T170821_20161222T173313_C001
CS_OFFL_SIR_FDM_220161222T174949_20161222T182246_C001
CS_OFFL_SIR_FDM_220161222T183842_20161222T185745_C001
CS_OFFL_SIR_FDM_220161222T185803_20161222T191051_C001
CS_OFFL_SIR_FDM_220161222T192858_20161222T194420_C001
CS_OFFL_SIR_FDM_220161222T194623_20161222T195603_C001
CS_OFFL_SIR_FDM_220161222T202138_20161222T203504_C001
CS_OFFL_SIR_FDM_220161222T220954_20161222T223330_C001
CS_OFFL_SIR_FDM_220161222T224737_20161222T231252_C001

Test Failed	Description
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
Sea State Bias Correction, Altimetric	There is an error with the Altimetric Wind Speed and Sea State Bias
Wind Speed	Correction for one or more records
Sea State Bias Correction, Altimetric	There is an error with the Altimetric Wind Speed and Sea State Bias
Wind Speed	Correction for one or more records
Sea State Bias Correction, Altimetric	There is an error with the Altimetric Wind Speed and Sea State Bias
Wind Speed	Correction for one or more records
Sea State Bias Correction	There is an error with the Sea State Bias Correction for one or more
Sea State Bias Correction, Altimetric	records
Wind Speed	There is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more records
Sea State Bias Correction, Altimetric	There is an error with the Altimetric Wind Speed and Sea State Bias
Wind Speed	Correction for one or more records
Sea State Bias Correction, Altimetric	There is an error with the Altimetric Wind Speed and Sea State Bias
Wind Speed	Correction for one or more records
Sea State Bias Correction, Altimetric	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
Wind Speed	Correction for one or more records
Sea State Bias Correction, Altimetric	There is an error with the Altimetric Wind Speed and Sea State Bias
Wind Speed	Correction for one or more records
Sea State Bias Correction, Altimetric	There is an error with the Altimetric Wind Speed and Sea State Bias
Wind Speed	Correction for one or more records
Sea State Bias Correction, Altimetric	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
Wind Speed	Correction for one or more records
Sea State Bias Correction, Altimetric	There is an error with the Altimetric Wind Speed and Sea State Bias
Wind Speed	Correction for one or more records
Sea State Bias Correction, Altimetric	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
Wind Speed	Correction for one or more records
Sea State Bias Correction, Altimetric	There is an error with the Altimetric Wind Speed and Sea State Bias
Wind Speed	Correction for one or more records
Sea State Bias Correction, Altimetric	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
Wind Speed	Correction for one or more records
	There is an error with the Sea State Bias Correction for one or more
Sea State Bias Correction	records
Sea State Bias Correction, Altimetric	There is an error with the Altimetric Wind Speed and Sea State Bias
Wind Speed	Correction for one or more records
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
Sea State Bias Correction, Altimetric	There is an error with the Altimetric Wind Speed and Sea State Bias
Wind Speed	Correction for one or more records
Sea State Bias Correction, Altimetric	There is an error with the Altimetric Wind Speed and Sea State Bias
Wind Speed	Correction for one or more records
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
Sea State Bias Correction, Altimetric	There is an error with the Altimetric Wind Speed and Sea State Bias
Wind Speed	Correction for one or more records
Sea State Bias Correction	There is an error with the Sea State Bias Correction for one or more
	records
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
Sea State Bias Correction, Altimetric	There is an error with the Altimetric Wind Speed and Sea State Bias
Wind Speed	Correction for one or more records
Sea State Bias Correction, Altimetric	There is an error with the Altimetric Wind Speed and Sea State Bias
Wind Speed	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: 4

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220161222T000540_20161222T001217_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220161222T014755_20161222T014908_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220161222T032730_20161222T032752_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220161222T065123_20161222T065223_C001	Attitude correction missing	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: 20

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220161222T011753_20161222T014559_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_220161222T015326_20161222T015531_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_220161222T025748_20161222T030158_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_220161222T061841_20161222T065002_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_220161222T070846_20161222T071725_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_220161222T072325_20161222T073934_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_220161222T081234_20161222T082609_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_220161222T093819_20161222T094810_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_220161222T095105_20161222T095613_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_220161222T103330_20161222T105729_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_220161222T125159_20161222T130222_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_220161222T134740_20161222T140605_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_220161222T170821_20161222T173313_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_220161222T174949_20161222T182246_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_220161222T183842_20161222T185745_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_220161222T185803_20161222T191051_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_220161222T192858_20161222T194420_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_20161222T202138_20161222T203504_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_220161222T220954_20161222T223330_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_220161222T224737_20161222T231252_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_220161222T011753_20161222T014559_C001	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.
CS_OFFL_SIR_FDM_2_20161222T015326_20161222T015531_C001	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.
CS_OFFL_SIR_FDM_2_20161222T025748_20161222T030158_C001	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.
CS_OFFL_SIR_FDM_2_20161222T061841_20161222T065002_C001	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.
CS_OFFL_SIR_FDM_2_20161222T070846_20161222T071725_C001	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.
CS_OFFL_SIR_FDM_2_20161222T072325_20161222T073934_C001	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.
CS_OFFL_SIR_FDM_2_20161222T081234_20161222T082609_C001	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.
CS_OFFL_SIR_FDM_2_20161222T093819_20161222T094810_C001	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.
CS_OFFL_SIR_FDM_2_20161222T095105_20161222T095613_C001	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.
CS_OFFL_SIR_FDM_2_20161222T103330_20161222T105729_C001	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.
CS_OFFL_SIR_FDM_220161222T125159_20161222T130222_C001	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.
CS_OFFL_SIR_FDM_220161222T134740_20161222T140605_C001	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.
CS_OFFL_SIR_FDM_2_20161222T170821_20161222T173313_C001	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.
CS_OFFL_SIR_FDM_220161222T174949_20161222T182246_C001	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.
CS_OFFL_SIR_FDM_220161222T183842_20161222T185745_C001	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.
CS_OFFL_SIR_FDM_2_20161222T185803_20161222T191051_C001	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.
CS_OFFL_SIR_FDM_2_20161222T192858_20161222T194420_C001	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.
CS_OFFL_SIR_FDM_220161222T183842_20161222T185745_C001 CS_OFFL_SIR_FDM_220161222T185803_20161222T191051_C001	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	indicating the values stored in fields #41, #42, #43 and #44 should 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 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 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 ignored for these records.

CS_OFFL_SIR_FDM_220161222T202138_20161222T203504_C001	CFI Backscatter Status Flag, SWH	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_20161222T220954_20161222T223330_C001	CFI Backscatter Status Flag, SWH	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_220161222T224737_20161222T231252_C001	CFI Backscatter Status Flag, SWH	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.

## 6.8 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:
 41

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220161221T233837_20161222T000341_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_220161222T011753_20161222T014559_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_220161222T015326_20161222T015531_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_220161222T020831_20161222T024140_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_220161222T025748_20161222T030158_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_220161222T030447_20161222T030818_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_220161222T032619_20161222T032652_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_220161222T035931_20161222T042122_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_220161222T044948_20161222T050222_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_220161222T052636_20161222T055957_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_220161222T061841_20161222T065002_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_0FFL_SIR_FDM_220161222T070846_20161222T071725_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_2_20161222T072206_20161222T072322_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag is set indicating the CFI Ocean
CS_OFFL_SIR_FDM_220161222T072325_20161222T073934_C001	Ocean Retracking Quality Flag	Retracker was not successfully executed for one or more records. The Ocean Retracking Quality Flag is set indicating the CFI Ocean Retracking Retracking Retraction for the CFI Ocean
CS_OFFL_SIR_FDM_220161222T075636_20161222T081021_C001	Ocean Retracking Quality Flag	Retracker was not successfully executed for one or more records. The Ocean Retracking Quality Flag is set indicating the CFI Ocean
CS_OFFL_SIR_FDM_220161222T081234_20161222T082609_C001	Ocean Retracking Quality Flag	Retracker was not successfully executed for one or more records. The Ocean Retracking Quality Flag is set indicating the CFI Ocean
CS_OFFE_SIR_FDM_2201612221081204_201012221082005_0001	Ocean Retracking Quality Flag	Retracker was not successfully executed for one or more records. The Ocean Retracking Quality Flag is set indicating the CFI Ocean
	Ocean Retracking Quality Flag	Retracker was not successfully executed for one or more records. The Ocean Retracking Quality Flag is set indicating the CFI Ocean
CS_OFFL_SIR_FDM_220161222T093425_20161222T093556_C001		Retracker was not successfully executed for one or more records. The Ocean Retracking Quality Flag is set indicating the CFI Ocean
CS_OFFL_SIR_FDM_220161222T093819_20161222T094810_C001	Ocean Retracking Quality Flag	Retracker was not successfully executed for one or more records. The Ocean Retracking Quality Flag is set indicating the CFI Ocean
CS_OFFL_SIR_FDM_220161222T095105_20161222T095613_C001	Ocean Retracking Quality Flag	Retracker was not successfully executed for one or more records. The Ocean Retracking Quality Flag is set indicating the CFI Ocean
CS_OFFL_SIR_FDM_220161222T103330_20161222T105729_C001	Ocean Retracking Quality Flag	Retracker was not successfully executed for one or more records. The Ocean Retracking Quality Flag is set indicating the CFI Ocean
CS_OFFL_SIR_FDM_220161222T111147_20161222T114008_C001	Ocean Retracking Quality Flag	Retracker was not successfully executed for one or more records. The Ocean Retracking Quality Flag is set indicating the CFI Ocean
CS_OFFL_SIR_FDM_220161222T120131_20161222T120153_C001	Ocean Retracking Quality Flag	Retracker was not successfully executed for one or more records. The Ocean Retracking Quality Flag is set indicating the CFI Ocean
CS_OFFL_SIR_FDM_220161222T121142_20161222T123642_C001	Ocean Retracking Quality Flag	Retracker was not successfully executed for one or more records.
CS_OFFL_SIR_FDM_220161222T125159_20161222T130222_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. The Ocean Retracking Quality Flag is set indicating the CFI Ocean
CS_OFFL_SIR_FDM_220161222T134740_20161222T140605_C001	Ocean Retracking Quality Flag	Retracker was not successfully executed for one or more records.
CS_OFFL_SIR_FDM_220161222T143129_20161222T150410_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_220161222T153957_20161222T155350_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_220161222T155835_20161222T160346_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_220161222T161013_20161222T163200_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_220161222T170536_20161222T170706_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_220161222T170821_20161222T173313_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_220161222T174949_20161222T182246_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_220161222T183842_20161222T185745_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_220161222T185803_20161222T191051_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_220161222T192858_20161222T194420_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_220161222T194623_20161222T195603_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_220161222T202138_20161222T203504_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_220161222T220954_20161222T223330_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_220161222T224737_20161222T231252_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.
	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	Nb. Products	Nb. QCC Reports	Nb. Valid	Nb. Warnings	Nb. Errors
SIR1LRM_0_	171	171	171	0	0
SIR1SAR_0_	120	120	120	0	0
SIR1SIN_0_	108	108	108	0	0
SIR2SIN_0_	114	114	114	0	0
SIR_FDM_1B	171	171	171	0	0
SIR_FDM_2	167	167	167	0	0

# 7.1 QCC Errors

1.1 QUU EII013		
Number of QCC reports with errors:	0	
7.2 QCC Warnings		
Number of QCC reports with warnings	0	
7.3 Missing QCC Reports		
Number of products with missing QCC reports:	0	