



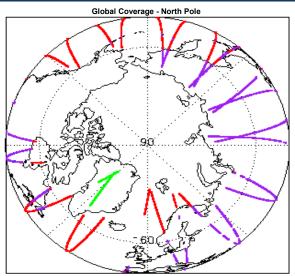
### 1. Overview

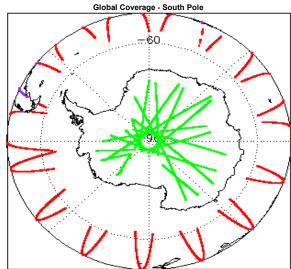
Report Production Date:	28-Nov-2016	
Processor Used:	CryoSat Ice Processor	
Data Used:	L1 and L2 Fast Delivery Marine (FDM)  Mode and L0 Data	

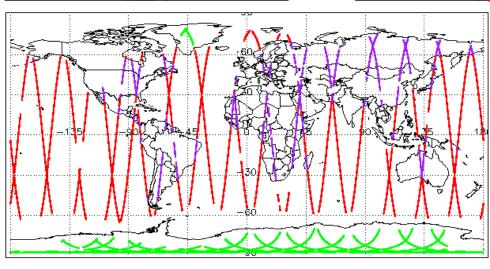
Check	Status
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	See Section 4.2
Star Tracker Usage Check	See Section 5.3
Calibration Usage Check	Nominal
Auxiliary Data File 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

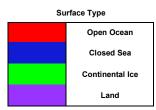
Mission / Instrument News		
26-Nov-2016	None	
27-Nov-2016	None	
28-Nov-2016	Nothing planned	

# 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).

Number of products with errors:

0

### 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.

Product	Test Failed
CS_OPER_SIR1SAR_0_20161127T020650_20161127T021229_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR1SAR_020161127T062237_20161127T062916_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR1SAR_020161127T210435_20161127T210636_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR1SAR_020161127T181822_20161127T182548_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR1SAR_020161127T062916_20161127T063111_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR1SAR_020161127T045551_20161127T050434_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR1SIN_020161127T215519_20161127T215959_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS OPER SIR2SIN 0 20161127T041418 20161127T041537 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_20161127T012546_20161127T013221_C001	No Star Tracker file used in the processing of this product
CS_OFFL_SIR_FDM_1B_20161127T030813_20161127T030918_C001	No Star Tracker file used in the processing of this product
CS_OFFL_SIR_FDM_1B_20161127T044750_20161127T044809_C001	No Star Tracker file used in the processing of this product
CS_OFFL_SIR_FDM_1B_20161127T081128_20161127T081302_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: 0

#### 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: 0

### 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.

umber 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_20161127T001013_20161127T001544_C001		The tracking echo has returned an error and the Rx1 Echo Error flag is set, indicating a degraded echo
CS_OFFL_SIR_FDM_1B_20161127T012546_20161127T013221_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20161127T030813_20161127T030918_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20161127T044750_20161127T044809_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20161127T081128_20161127T081302_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:

44

Product	Test Failed	Description
CS_OFFL_SIR_FDM_2_20161127T001013_20161127T001544_C001	Sea State Bias Correction, Altimetric	There is an error with the Altimetric Wind Speed and Sea State Bias
CS_OFFL_SIR_FDM_2_20161127T001803_20161127T004349_C001	Wind Speed Sea State Bias Correction, Altimetric Wind Speed	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_220161127T015654_20161127T020650_C001	Sea State Bias Correction	There is an error with the Sea State Bias Correction for one or more records
CS_OFFL_SIR_FDM_220161127T023903_20161127T030601_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_220161127T031303_20161127T031549_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_220161127T041926_20161127T041956_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_220161127T042053_20161127T042214_C001	Mean Sea Surface height	There is an error with the Mean Sea Surface Height for one or more records
CS_OFFL_SIR_FDM_220161127T045203_20161127T045551_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_220161127T050750_20161127T051658_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_220161127T051944_20161127T054113_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_220161127T061004_20161127T062236_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_220161127T064443_20161127T071953_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_220161127T073857_20161127T081016_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_220161127T082430_20161127T083739_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_220161127T084031_20161127T084335_C001	Sea State Bias Correction	There is an error with the Sea State Bias Correction for one or more records
CS_OFFL_SIR_FDM_220161127T084338_20161127T085937_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_220161127T091641_20161127T092631_C001	Sea State Bias Correction	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
CS_OFFL_SIR_FDM_220161127T093249_20161127T094844_C001	Sea State Bias Correction, Altimetric Wind Speed	Correction for one or more records
CS_OFFL_SIR_FDM_220161127T105802_20161127T110922_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_220161127T111020_20161127T111341_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_220161127T111345_20161127T111626_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_220161127T111910_20161127T112700_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_220161127T115337_20161127T121638_C001	Sea State Bias Correction, Altimetric Wind Speed Sea State Bias Correction, Altimetric	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
CS_OFFL_SIR_FDM_220161127T132150_20161127T132206_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_220161127T133141_20161127T135603_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_220161127T142816_20161127T144510_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_220161127T150805_20161127T151455_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_220161127T151458_20161127T152600_C001	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_220161127T155250_20161127T162448_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_220161127T163748_20161127T163853_C001	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_220161127T164952_20161127T165431_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_220161127T173054_20161127T180514_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_220161127T181614_20161127T181821_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_220161127T182836_20161127T185314_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_220161127T191036_20161127T194416_C001	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_220161127T195850_20161127T201744_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_220161127T201818_20161127T203125_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_220161127T204938_20161127T210434_C001	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_220161127T210636_20161127T211557_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_220161127T213816_20161127T215518_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_220161127T222911_20161127T2224303_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_220161127T231842_20161127T232010_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_220161127T232134_20161127T232723_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_220161127T233008_20161127T235314_C001	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:

5

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220161127T001013_20161127T001544_C001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo
CS_OFFL_SIR_FDM_220161127T012546_20161127T013221_C001	Attitude correction missing	The attitude has not been corrected

CS_OFFL_SIR_FDM_220161127T030813_20161127T030918_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220161127T044750_20161127T044809_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220161127T081128_20161127T081302_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:

28

Number of products with errors: 28		
Product	Test Failed	Description  The master fail flag is set by the CFI call, for one or more records,
CS_OFFL_SIR_FDM_2_20161127T001013_20161127T001544_C001	CFI Retracked Range Flag	indicating the values stored in fields #13, #14, #15 and #16 should be ignored for these records.
CS_OFFL_SIR_FDM_220161127T001803_20161127T004349_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_220161127T023903_20161127T030601_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_220161127T031303_20161127T031549_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_220161127T050750_20161127T051658_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_220161127T051944_20161127T054113_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_20161127T064443_20161127T071953_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_220161127T073857_20161127T081016_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_220161127T082430_20161127T083739_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_220161127T084338_20161127T085937_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_220161127T093249_20161127T094844_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_220161127T105802_20161127T110922_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_220161127T111020_20161127T111341_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_220161127T111345_20161127T111626_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_220161127T111910_20161127T112700_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_220161127T115337_20161127T121638_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_220161127T132150_20161127T132206_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_220161127T133141_20161127T135603_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_220161127T142816_20161127T144510_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_220161127T150805_20161127T151455_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_220161127T151458_20161127T152600_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_220161127T173054_20161127T180514_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_220161127T191036_20161127T194416_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_220161127T201818_20161127T203125_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_220161127T204938_20161127T210434_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_220161127T213816_20161127T215518_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_220161127T232134_20161127T232723_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_220161127T233008_20161127T235314_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

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220161127T001013_20161127T001544_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_220161127T001803_20161127T004349_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_20161127T023903_20161127T030601_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_20161127T031303_20161127T031549_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_220161127T050750_20161127T051658_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_220161127T051944_20161127T054113_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_220161127T064443_20161127T071953_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_220161127T073857_20161127T081016_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_220161127T082430_20161127T083739_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_220161127T084338_20161127T085937_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_20161127T093249_20161127T094844_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_220161127T105802_20161127T110922_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_20161127T111020_20161127T111341_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_220161127T111345_20161127T111626_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_220161127T111910_20161127T112700_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_20161127T115337_20161127T121638_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_20161127T132150_20161127T132206_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_20161127T133141_20161127T135603_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_20161127T142816_20161127T144510_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_220161127T150805_20161127T151455_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_20161127T151458_20161127T152600_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_20161127T173054_20161127T180514_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_220161127T191036_20161127T194416_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_220161127T201818_20161127T203125_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_220161127T204938_20161127T210434_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_220161127T213816_20161127T215518_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_20161127T232134_20161127T232723_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_220161127T233008_20161127T235314_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.

# 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: 46

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220161127T001013_20161127T001544_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_220161127T001803_20161127T004349_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_220161127T005959_20161127T012352_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_220161127T021229_20161127T022146_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_220161127T023903_20161127T030601_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_220161127T031303_20161127T031549_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_220161127T032833_20161127T040126_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\_\_20161127T042459\_20161127T042850\_C001 Ocean Retracking Quality Flag CS OFFL SIR FDM 2 20161127T045203 20161127T045551 C001 Ocean Retracking Quality Flag CS\_OFFL\_SIR\_FDM\_2\_\_20161127T050750\_20161127T051658\_C001 Ocean Retracking Quality Flag CS\_OFFL\_SIR\_FDM\_2\_\_20161127T051944\_20161127T054113\_C001 Ocean Retracking Quality Flag CS OFFL SIR FDM 2 20161127T055849 20161127T060816 C001 Ocean Retracking Quality Flag CS\_OFFL\_SIR\_FDM\_2\_\_20161127T061004\_20161127T062236\_C001 Ocean Retracking Quality Flag CS\_OFFL\_SIR\_FDM\_2\_\_20161127T064443\_20161127T071953\_C001 Ocean Retracking Quality Flag CS OFFL SIR FDM 2 20161127T073857 20161127T081016 C001 Ocean Retracking Quality Flag CS\_OFFL\_SIR\_FDM\_2\_\_20161127T082430\_20161127T083739\_C001 Ocean Retracking Quality Flag CS\_OFFL\_SIR\_FDM\_2\_\_20161127T084031\_20161127T084335\_C001 Ocean Retracking Quality Flag CS OFFL SIR FDM 2 20161127T084338 20161127T085937 C001 Ocean Retracking Quality Flag CS\_OFFL\_SIR\_FDM\_2\_\_20161127T091641\_20161127T092631\_C001 Ocean Retracking Quality Flag CS OFFL SIR FDM 2 20161127T093249 20161127T094844 C001 Ocean Retracking Quality Flag CS\_OFFL\_SIR\_FDM\_2\_\_20161127T101149\_20161127T102239\_C001 Ocean Retracking Quality Flag CS\_OFFL\_SIR\_FDM\_2\_\_20161127T105802\_20161127T110922\_C001 Ocean Retracking Quality Flag CS OFFL SIR FDM 2 20161127T111020 20161127T111341 C001 Ocean Retracking Quality Flag CS\_OFFL\_SIR\_FDM\_2\_\_20161127T111345\_20161127T111626\_C001 Ocean Retracking Quality Flag CS\_OFFL\_SIR\_FDM\_2\_\_20161127T111910\_20161127T112700\_C001 Ocean Retracking Quality Flag Ocean Retracking Quality Flag CS\_OFFL\_SIR\_FDM\_2\_\_20161127T123237\_20161127T125919\_C001 Ocean Retracking Quality Flag CS\_OFFL\_SIR\_FDM\_2\_\_20161127T132150\_20161127T132206\_C001 Ocean Retracking Quality Flag CS\_OFFL\_SIR\_FDM\_2\_\_20161127T133141\_20161127T135603\_C001 Ocean Retracking Quality Flag CS OFFL SIR FDM 2 20161127T141225 20161127T142238 C001 Ocean Retracking Quality Flag CS OFFL SIR FDM 2 20161127T142816 20161127T144510 C001 Ocean Retracking Quality Flag CS OFFL SIR FDM 2 20161127T150805 20161127T151455 C001 Ocean Retracking Quality Flag CS\_OFFL\_SIR\_FDM\_2\_\_20161127T151458\_20161127T152600\_C001 Ocean Retracking Quality Flag CS\_OFFL\_SIR\_FDM\_2\_\_20161127T155250\_20161127T162448\_C001 Ocean Retracking Quality Flag CS\_OFFL\_SIR\_FDM\_2\_\_20161127T164952\_20161127T165431\_C001 Ocean Retracking Quality Flag CS\_OFFL\_SIR\_FDM\_2\_\_20161127T165553\_20161127T171318\_C001 Ocean Retracking Quality Flag CS\_OFFL\_SIR\_FDM\_2\_\_20161127T173054\_20161127T180514\_C001 Ocean Retracking Quality Flag CS\_OFFL\_SIR\_FDM\_2\_\_20161127T182836\_20161127T185314\_C001 Ocean Retracking Quality Flag CS\_OFFL\_SIR\_FDM\_2\_\_20161127T191036\_20161127T194416\_C001 Ocean Retracking Quality Flag CS\_OFFL\_SIR\_FDM\_2\_20161127T195850\_20161127T201744\_C001 Ocean Retracking Quality Flag CS\_OFFL\_SIR\_FDM\_2\_\_20161127T201818\_20161127T203125\_C001 Ocean Retracking Quality Flag CS\_OFFL\_SIR\_FDM\_2\_\_20161127T204938\_20161127T210434\_C001 Ocean Retracking Quality Flag CS OFFL SIR FDM 2 20161127T210636 20161127T211557 C001 Ocean Retracking Quality Flag CS\_OFFL\_SIR\_FDM\_2\_\_20161127T213816\_20161127T215518\_C001 Ocean Retracking Quality Flag CS\_OFFL\_SIR\_FDM\_2\_\_20161127T232134\_20161127T232723\_C001 Ocean Retracking Quality Flag CS OFFL SIR FDM 2 20161127T233008 20161127T235314 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 Retracker was not successfully executed for one or more records 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 Retracker was not successfully executed for one or more records. 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 Retracker was not successfully executed for one or more records. 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 Retracker was not successfully executed for one or more records. 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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 Retracker was not successfully executed for one or more records. 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

#### 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
SIR_FDM_1B	0	159	159	0	0
SIR FDM 2	0	158	158	0	0

#### 7.1 QCC Errors

Number of QCC reports with errors:

### 7.2 QCC Warnings

Number of QCC reports with warnings

#### 7.3 Missing QCC Reports