

01-Mar-2018 Nothing planned

# IDEAS+ Daily Report for FDM data:

# <u>28/02/2018</u>

		1. Overview	
		Check	Status
Report Production Date: 02-Mar-2018	Server check: science-pds.cryosat.esa.int	Nominal	
Processor Used: CryoSat Ice Processor	Server check: calval-pds.cryosat.esa.int	Nominal	
	Product Software Check	Nominal	
Data Used: L1 and L2 Fast Delivery Marine (FDM) Mode and L0 Data	Product Format Check	Nominal	
	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
Mission / Instrument News			
27-Feb-2018 None			
28-Feb-2018 None			

# 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).

0

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:
 8

Product	Test Failed
CS_OPER_SIR1SAR_020180228T134749_20180228T135619_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR1SAR_020180228T171034_20180228T171347_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR1SAR_020180228T234451_20180228T234752_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR1SAR_0_20180228T100607_20180228T100810_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR1SIN_0_20180228T130249_20180228T130604_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR2SIN_020180228T235547_20180228T235708_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR2SIN_0_20180228T130249_20180228T130604_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR2SIN_020180228T172236_20180228T172443_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_20180228T020856_20180228T020917_C001	No Star Tracker file used in the processing of this product		
CS_OFFL_SIR_FDM_1B_20180228T034532_20180228T034535_C001	No Star Tracker file used in the processing of this product		
CS_OFFL_SIR_FDM_1B_20180228T052206_20180228T052336_C001	No Star Tracker file used in the processing of this product		
CS_OFFL_SIR_FDM_1B_20180228T083846_20180228T084614_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

0

6

#### 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. 0

Number of products with errors:

### 5.6 L1B FDM Auxiliary Correction Error Check

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

Number of products with errors:

### 5.7 L1B FDM Measurement Confidence Data Check

CryoSat L1B data includes a measurement confidence flag (field 18) for each measurement record. The bit value of this flag indicates any problems when set.

### Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_FDM_1B_20180228T013342_20180228T015953_C001	Echo error, TRK echo error	The tracking echo has returned an error and the Rx1 Echo Error flag is set, indicating a degraded echo
CS_OFFL_SIR_FDM_1B_20180228T020856_20180228T020917_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20180228T034532_20180228T034535_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20180228T052206_20180228T052336_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20180228T083846_20180228T084614_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20180228T135917_20180228T140332_C001	Echo error, TRK echo error	The tracking echo has returned an error and the Rx1 Echo Error flag is set, indicating a degraded echo

# 6. Level 2 FDM Data Quality Check

#### 6.1 L2 FDM Product Format Check

Each product, retrieved and unpacked from the science server, is checked to ensure it consists of both an XML header file (.HDR) and a binary product file (.DBL). Number of products with errors:

### 6.2 L2 FDM Product Header Analysis

For all products, a series of pre-defined checks are carried out on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain. Number of products with errors:

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

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

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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Product
CS_OFFL_SIR_FDM_220180227T235426_20180228T000958_C001
CS_OFFL_SIR_FDM_220180228T004758_20180228T012043_C001
CS_OFFL_SIR_FDM_220180228T023158_20180228T024219_C001
CS_OFFL_SIR_FDM_220180228T024753_20180228T025927_C001
CS_OFFL_SIR_FDM_220180228T031229_20180228T034238_C001
CS_OFFL_SIR_FDM_220180228T040532_20180228T042132_C001
CS_OFFL_SIR_FDM_220180228T042318_20180228T043833_C001
CS_OFFL_SIR_FDM_220180228T052911_20180228T053025_C001
CS_OFFL_SIR_FDM_220180228T054346_20180228T061814_C001
CS_OFFL_SIR_FDM_220180228T072218_20180228T075606_C001
CS_OFFL_SIR_FDM_220180228T080947_20180228T083822_C001
CS_OFFL_SIR_FDM_220180228T083846_20180228T084614_C001
CS_OFFL_SIR_FDM_220180228T090405_20180228T091311_C001
CS_OFFL_SIR_FDM_220180228T102247_20180228T102444_C001
CS_OFFL_SIR_FDM_220180228T104742_20180228T105711_C001
CS_OFFL_SIR_FDM_220180228T105913_20180228T111441_C001
CS_OFFL_SIR_FDM_220180228T112934_20180228T113157_C001
CS_OFFL_SIR_FDM_220180228T114735_20180228T115246_C001
CS_OFFL_SIR_FDM_220180228T123714_20180228T125356_C001
CS_OFFL_SIR_FDM_220180228T130650_20180228T134154_C001
CS_OFFL_SIR_FDM_220180228T140659_20180228T143337_C001
CS_OFFL_SIR_FDM_220180228T144601_20180228T145813_C001
CS_OFFL_SIR_FDM_220180228T151420_20180228T151841_C001
CS_OFFL_SIR_FDM_220180228T154454_20180228T155049_C001
CS_OFFL_SIR_FDM_220180228T155052_20180228T161303_C001
CS_OFFL_SIR_FDM_220180228T162520_20180228T170035_C001
CS_OFFL_SIR_FDM_220180228T171347_20180228T171527_C001
CS_OFFL_SIR_FDM_220180228T175417_20180228T175938_C001
CS_OFFL_SIR_FDM_220180228T183034_20180228T183943_C001
CS_OFFL_SIR_FDM_220180228T191154_20180228T191641_C001
CS_OFFL_SIR_FDM_220180228T194424_20180228T195046_C001
CS_OFFL_SIR_FDM_220180228T195055_20180228T201655_C001
CS_OFFL_SIR_FDM_220180228T210937_20180228T210951_C001
CS_OFFL_SIR_FDM_220180228T212417_20180228T214051_C001
CS_OFFL_SIR_FDM_220180228T214647_20180228T215353_C001
CS_OFFL_SIR_FDM_220180228T221900_20180228T223049_C001
CS_OFFL_SIR_FDM_220180228T223708_20180228T224808_C001
CS_OFFL_SIR_FDM_220180228T224820_20180228T224841_C001
CS_OFFL_SIR_FDM_220180228T230331_20180228T231834_C001
CS_OFFL_SIR_FDM_220180228T232039_20180228T233438_C001

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

# 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: 6

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220180228T013342_20180228T015953_C001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo
CS_OFFL_SIR_FDM_220180228T020856_20180228T020917_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220180228T034532_20180228T034535_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220180228T052206_20180228T052336_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220180228T083846_20180228T084614_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220180228T135917_20180228T140332_C001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo

# 6.6 L2 FDM Range Measurement Check

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220180228T004758_20180228T012043_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_220180228T023158_20180228T024219_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_220180228T031229_20180228T034238_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_220180228T042318_20180228T043833_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_220180228T054346_20180228T061814_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_220180228T072218_20180228T075606_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_220180228T104742_20180228T105711_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_220180228T105913_20180228T111441_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_220180228T112934_20180228T113157_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_220180228T114735_20180228T115246_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_220180228T140659_20180228T143337_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_220180228T154454_20180228T155049_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_220180228T155052_20180228T161303_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_220180228T162520_20180228T170035_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_220180228T171347_20180228T171527_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_220180228T195055_20180228T201655_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_220180228T212417_20180228T214051_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_220180228T221900_20180228T223049_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_220180228T223708_20180228T224808_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_220180228T232039_20180228T233438_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: 20		
Product	Test Failed	Description
CS_OFFL_SIR_FDM_220180228T004758_20180228T012043_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_220180228T023158_20180228T024219_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_220180228T031229_20180228T034238_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_220180228T042318_20180228T043833_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_220180228T054346_20180228T061814_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_220180228T072218_20180228T075606_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_220180228T104742_20180228T105711_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_220180228T105913_20180228T111441_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_220180228T112934_20180228T113157_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_220180228T114735_20180228T115246_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_220180228T140659_20180228T143337_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_220180228T154454_20180228T155049_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.

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CFI call, for one or more records, elds #41, #42, #43 and #44 should be
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CFI call, for one or more records, elds #41, #42, #43 and #44 should be
CFI call, for one or more records, elds #41, #42, #43 and #44 should be

#### 6.8 L2 FDM Ocean Retracking Quality Check

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

Number of products with errors: 45 Pro Description The Ocean Retracking Quality Flag is set indicating the CFI Ocean CS\_OFFL\_SIR\_FDM\_2\_\_20180227T235426\_20180228T000958\_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\_2\_\_20180228T004758\_20180228T012043\_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 2 20180228T013342 20180228T015953 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\_2\_\_20180228T020917\_20180228T020955\_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 Ocean Retracking Quality Flag CS\_OFFL\_SIR\_FDM\_2\_\_20180228T023158\_20180228T024219\_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 2 20180228T024753 20180228T025927 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\_2\_\_20180228T031229\_20180228T034238\_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\_2\_\_20180228T040532\_20180228T042132\_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 2 20180228T042318 20180228T043833 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\_2\_\_20180228T054346\_20180228T061814\_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\_2\_\_20180228T063028\_20180228T065026\_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 2 20180228T072218 20180228T075606 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\_2\_\_20180228T080947\_20180228T083822\_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 2 20180228T090405 20180228T091311 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\_2\_\_20180228T091751\_20180228T091945\_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\_2\_\_20180228T091956\_20180228T093535\_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 2 20180228T095345 20180228T100607 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\_2\_\_20180228T100811\_20180228T102009\_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\_2\_\_20180228T104742\_20180228T105711\_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\_2\_\_20180228T105913\_20180228T111441\_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\_2\_\_20180228T112934\_20180228T113157\_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\_2\_\_20180228T114735\_20180228T115246\_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\_2\_\_20180228T115320\_20180228T120034\_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 2 20180228T123714 20180228T125356 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 2 20180228T130650 20180228T134154 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 2 20180228T140659 20180228T143337 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 2 20180228T154454 20180228T155049 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 2 20180228T155052 20180228T161303 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\_2\_\_20180228T162520\_20180228T170035\_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\_2\_\_20180228T171347\_20180228T171527\_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\_2\_\_20180228T175417\_20180228T175938\_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\_2\_\_20180228T180510\_20180228T182748\_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\_2\_\_20180228T183034\_20180228T183943\_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\_2\_\_20180228T191154\_20180228T191641\_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\_2\_\_20180228T191829\_20180228T193141\_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\_2\_\_20180228T194424\_20180228T195046\_C001 Ocean Retracking Quality Flag Retracker was not successfully executed for one or more records.

CS_OFFL_SIR_FDM_220180228T195055_20180228T201655_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_220180228T203616_20180228T210616_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_220180228T212417_20180228T214051_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_220180228T214054_20180228T214206_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_220180228T214647_20180228T215353_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_220180228T221900_20180228T223049_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_220180228T223708_20180228T224808_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_220180228T230331_20180228T231834_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_220180228T232039_20180228T233438_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag is set indicating the CFI Ocean Retracker was not successfully executed for one or more records.

# 7. QCC Report Analysis

The Quality Control for CryoSat (QCC) facility performs a primary survey of data products immediately after production by the PDS and LTA processing facilities. A list of the tests which raised errors or warnings is provided below.

Product type	No. Products	No. QCC Reports	No. Valid	No. Warnings	No. Errors
SIR1LRM_0_	171	171	171	0	0
SIR1SAR_0_	136	136	136	0	0
SIR1SIN_0_	109	109	109	0	0
SIR2SIN_0_	116	116	116	0	0
SIR_FDM_1B	171	171	171	0	0
SIR_FDM_2	169	169	169	0	0

7.1 QCC Errors				
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			