

. 16-Sep-2017 None

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

# 16/09/2017

Report Production Date:	18-Sep-2017	Check	Status
		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
Data Used:		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

17-Sep-2017 Nothing planned	
2. G	Blobal Coverage
Global Coverage - North Pole	Global Coverage - South Pole
	Surface Type Open Ocean Closed Sea Continental Ice Land

# 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 & 2	

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: 10

Product	Test Failed
CS_OPER_SIR1SAR_020170916T020845_20170916T021306_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR1SAR_020170916T000157_20170916T000249_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR1SAR_020170916T052628_20170916T053329_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR1SAR_020170916T124814_20170916T124922_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR1SAR_020170916T202142_20170916T202312_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR1SIN_020170916T012034_20170916T012209_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR1SIN_020170916T094717_20170916T095204_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR1SIN_020170916T013616_20170916T013738_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR2SIN_020170916T193303_20170916T193600_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR2SIN_020170916T211612_20170916T211726_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: 0

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.

# 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

Number of products with errors.

Product	Test Failed
CS_OFFL_SIR_FDM_1B_20170916T093838_20170916T094014_C001	No Star Tracker file used in the processing of this product
CS_OFFL_SIR_FDM_1B_20170916T111254_20170916T111559_C001	No Star Tracker file used in the processing of this product
CS_OFFL_SIR_FDM_1B_20170916T125218_20170916T125316_C001	No Star Tracker file used in the processing of this product
CS_OFFL_SIR_FDM_1B_20170916T143227_20170916T143229_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

9

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: 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.
Number of products with errors:
0

#### 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_20170916T015346_20170916T015833_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_20170916T081717_20170916T082426_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_20170916T093838_20170916T094014_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20170916T095427_20170916T102806_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_20170916T111254_20170916T111559_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20170916T125218_20170916T125316_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20170916T143227_20170916T143229_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20170916T180723_20170916T181335_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_20170916T212445_20170916T213220_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: 0 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.

0

41

Number of products with errors:

Product
CS_OFFL_SIR_FDM_2_20170916T000452_20170916T003054_C001 CS_OFFL_SIR_FDM_2_20170916T004819_20170916T012034_C001
CS_OFFL_SIR_FDM_220170916T013451_20170916T013545_C001
CS_OFFL_SIR_FDM_220170916T040613_20170916T041046_C001
CS_OFFL_SIR_FDM_220170916T041056_20170916T044209_C001
CS_OFFL_SIR_FDM_220170916T050232_20170916T052628_C001
CS_OFFL_SIR_FDM_220170916T054541_20170916T060220_C001
CS_OFFL_SIR_FDM_220170916T060542_20170916T061352_C001
CS_OFFL_SIR_FDM_220170916T063521_20170916T065100_C001
CS_OFFL_SIR_FDM_220170916T065720_20170916T070806_C001
CS_OFFL_SIR_FDM_220170916T072458_20170916T073848_C001
CS_OFFL_SIR_FDM_220170916T074028_20170916T075549_C001
CS_OFFL_SIR_FDM_220170916T081717_20170916T082426_C001
CS_OFFL_SIR_FDM_220170916T082549_20170916T083037_C001
CS_OFFL_SIR_FDM_220170916T094014_20170916T094109_C001
CS_OFFL_SIR_FDM_220170916T095427_20170916T102806_C001
CS_0FFL_SIR_FDM_220170916T104421_20170916T110848_C001
CS OFFL SIR FDM 2 20170916T111559 20170916T111928 C001
CS_OFFL_SIR_FDM_2_20170916T112002_20170916T112138_C001
CS_OFFL_SIR_FDM_220170916T113722_20170916T115055_C001
CS OFFL SIR FDM 2 20170916T115632 20170916T120610 C001
CS OFFL SIR FDM 2 20170916T122316 20170916T124219 C001
CS_OFFL_SIR_FDM_220170916T124244_20170916T124653_C001
CS OFFL SIR FDM 2 20170916T125848 20170916T130034 C001
CS OFFL SIR FDM 2 20170916T130050 20170916T130059 C001
CS_OFFL_SIR_FDM_2_20170916T131212_20170916T134532_C001
CS_OFFL_SIR_FDM_220170916T150349_20170916T152505_C001
CS_OFFL_SIR_FDM_220170916T160210_20170916T160645_C001
CS_OFFL_SIR_FDM_220170916T162855_20170916T170331_C001
CS_OFFL_SIR_FDM_220170916T172303_20170916T173533_C001
CS_OFFL_SIR_FDM_220170916T180723_20170916T181335_C001
CS_OFFL_SIR_FDM_220170916T181406_20170916T182620_C001
CS_OFFL_SIR_FDM_220170916T182825_20170916T184306_C001
CS_OFFL_SIR_FDM_220170916T190028_20170916T191039_C001
CS_OFFL_SIR_FDM_220170916T191658_20170916T193303_C001
CS_OFFL_SIR_FDM_220170916T200401_20170916T200541_C001
CS_OFFL_SIR_FDM_220170916T203809_20170916T211333_C001
CS_OFFL_SIR_FDM_220170916T213821_20170916T220015_C001
CS_OFFL_SIR_FDM_220170916T221652_20170916T224449_C001
CS_OFFL_SIR_FDM_220170916T230243_20170916T230542_C001
CS_OFFL_SIR_FDM_220170916T230700_20170916T234003_C001

Test Failed		
Sea State Bias Wind Speed	Correction,	Altimetric
Sea State Bias Wind Speed	Correction,	Altimetric
Sea State Bias Wind Speed	Correction,	Altimetric
Sea State Bias	Correction,	Altimetric
Wind Speed Sea State Bias	Correction,	Altimetric
Wind Speed Sea State Bias	Correction,	Altimetric
Wind Speed Sea State Bias	Correction,	Altimetric
Wind Speed Sea State Bias	Correction.	Altimetric
Wind Speed Sea State Bias		
Wind Speed		
Sea State Bias Wind Speed		
Sea State Bias Wind Speed	Correction,	Altimetric
Sea State Bias Wind Speed	Correction,	Altimetric
Sea State Bias Wind Speed	Correction,	Altimetric
Sea State Bias Wind Speed	Correction,	Altimetric
Sea State Bias Wind Speed	Correction,	Altimetric
Sea State Bias	Correction,	Altimetric
Wind Speed Sea State Bias	Correction,	Altimetric
Wind Speed Sea State Bias	Correction,	Altimetric
Wind Speed Sea State Bias	Correction,	Altimetric
Wind Speed Sea State Bias	Correction,	Altimetric
Wind Speed Sea State Bias	Correction.	Altimetric
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Sea State Bias Wind Speed		
Sea State Bias Wind Speed	Correction,	Altimetric
Sea State Bias	Correction	
Sea State Bias Wind Speed	Correction,	Altimetric
Sea State Bias	Correction,	Altimetric
Wind Speed Sea State Bias	Correction,	Altimetric
Wind Speed Sea State Bias	Correction,	Altimetric
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Sea State Bias Wind Speed		
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Sea State Bias Wind Speed	Correction,	Altimetric
Sea State Bias Wind Speed	Correction,	Altimetric
Sea State Bias Wind Speed	Correction,	Altimetric
Sea State Bias	Correction,	Altimetric

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

	Description			
ic	There is an error with the Altimetric Wind Sp Correction for one or more records	beed and \$	Sea State	Bias
ic	There is an error with the Altimetric Wind Sp	eed and	Sea State	Bias
ic	Correction for one or more records There is an error with the Altimetric Wind Sp	eed and	Sea State	Bias
ic	Correction for one or more records There is an error with the Altimetric Wind Sp	eed and	Sea State	Bias
ic	Correction for one or more records There is an error with the Altimetric Wind Sp	eed and	Sea State	Bias
ic	Correction for one or more records There is an error with the Altimetric Wind Sp	eed and	Sea State	Bias
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ic	Correction for one or more records There is an error with the Altimetric Wind Sp	eed and	Sea State	Bias
ic	Correction for one or more records There is an error with the Altimetric Wind Sp	eed and	Sea State	Bias
ic	Correction for one or more records There is an error with the Altimetric Wind Sp	eed and s	Sea State	Bias
	Correction for one or more records			
ic	There is an error with the Altimetric Wind Sp Correction for one or more records	eed and a	Sea State	BIas
ic	There is an error with the Altimetric Wind Sp Correction for one or more records	eed and	Sea State	Bias
ic	There is an error with the Altimetric Wind Sp Correction for one or more records	eed and	Sea State	Bias
ic	There is an error with the Altimetric Wind Sp Correction for one or more records	eed and \$	Sea State	Bias
ic	There is an error with the Altimetric Wind Sp Correction for one or more records	eed and	Sea State	Bias
ic	There is an error with the Altimetric Wind Sp Correction for one or more records	eed and \$	Sea State	Bias
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ic	There is an error with the Altimetric Wind Sp Correction for one or more records	eed and	Sea State	Bias
ic	There is an error with the Altimetric Wind Sp Correction for one or more records	eed and	Sea State	Bias
ic	There is an error with the Altimetric Wind Sp Correction for one or more records	eed and	Sea State	Bias
ic	There is an error with the Altimetric Wind Sp Correction for one or more records	eed and	Sea State	Bias
ic	There is an error with the Altimetric Wind Sp Correction for one or more records	eed and \$	Sea State	Bias
	There is an error with the Sea State Bias Co records	prrection f	or one or n	nore
ic	There is an error with the Altimetric Wind Sp Correction for one or more records	eed and	Sea State	Bias
ic	There is an error with the Altimetric Wind Sp Correction for one or more records	eed and	Sea State	Bias
	There is an error with the Sea State Bias Co records	prrection f	or one or n	nore
ic	There is an error with the Altimetric Wind Sp Correction for one or more records	eed and	Sea State	Bias
ic	There is an error with the Altimetric Wind Sp Correction for one or more records	eed and	Sea State	Bias
ic	There is an error with the Altimetric Wind Sp Correction for one or more records	eed and	Sea State	Bias
ic	There is an error with the Altimetric Wind Sp Correction for one or more records	eed and	Sea State	Bias
ic	There is an error with the Altimetric Wind Sp Correction for one or more records	eed and	Sea State	Bias
	There is an error with the Sea State Bias Co records	prrection f	or one or n	nore
ic	There is an error with the Altimetric Wind Sp Correction for one or more records	eed and	Sea State	Bias
	There is an error with the Sea State Bias Co records	prrection f	or one or n	nore
ic	There is an error with the Altimetric Wind Sp Correction for one or more records	eed and	Sea State	Bias
ic	There is an error with the Altimetric Wind Sp	eed and	Sea State	Bias
ic	Correction for one or more records There is an error with the Altimetric Wind Sp Correction for one or more records	eed and	Sea State	Bias
ic	There is an error with the Altimetric Wind Sp	eed and	Sea State	Bias
io	Correction for one or more records	and and	Soo Stata	Dicc

#### Correction for one or more records There is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more records

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

### 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:
9

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220170916T015346_20170916T015833_C001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo
CS_OFFL_SIR_FDM_220170916T081717_20170916T082426_C001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo

CS_OFFL_SIR_FDM_220170916T093838_20170916T094014_C001
CS_OFFL_SIR_FDM_220170916T095427_20170916T102806_C001
CS_OFFL_SIR_FDM_220170916T111254_20170916T111559_C001
CS_OFFL_SIR_FDM_220170916T125218_20170916T125316_C001
CS_OFFL_SIR_FDM_220170916T143227_20170916T143229_C001
CS_OFFL_SIR_FDM_220170916T180723_20170916T181335_C001
CS_OFFL_SIR_FDM_220170916T212445_20170916T213220_C001

Attitude correction missing	The attitude has not been corrected
Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo
Attitude correction missing	The attitude has not been corrected
Attitude correction missing	The attitude has not been corrected
Attitude correction missing	The attitude has not been corrected
Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo
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: 31

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220170916T000452_20170916T003054_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_220170916T004819_20170916T012034_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_220170916T013451_20170916T013545_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_220170916T040613_20170916T041046_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_220170916T041056_20170916T044209_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_220170916T054541_20170916T060220_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_220170916T060542_20170916T061352_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_220170916T063521_20170916T065100_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_220170916T065720_20170916T070806_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_220170916T072458_20170916T073848_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_220170916T074028_20170916T075549_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_220170916T081717_20170916T082426_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_220170916T082549_20170916T083037_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_220170916T094014_20170916T094109_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_220170916T095427_20170916T102806_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_220170916T104421_20170916T110848_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_220170916T111559_20170916T111928_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_220170916T113722_20170916T115055_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_220170916T122316_20170916T124219_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_220170916T125848_20170916T130034_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_220170916T150349_20170916T152505_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. The master fail flag is set by the CFI call, for one or more records,
CS_OFFL_SIR_FDM_220170916T160210_20170916T160645_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_220170916T162855_20170916T170331_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_220170916T172303_20170916T173533_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_220170916T180723_20170916T181335_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_220170916T182825_20170916T184306_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_220170916T191658_20170916T193303_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_220170916T203809_20170916T211333_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_220170916T213821_20170916T220015_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\_\_20170916T230243\_20170916T230542\_C001

CFI Retracked Range Flag

### 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:         31		
Product	Test Failed	Description
CS_OFFL_SIR_FDM_220170916T000452_20170916T003054_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_220170916T004819_20170916T012034_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_220170916T013451_20170916T013545_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_220170916T040613_20170916T041046_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_220170916T041056_20170916T044209_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_220170916T054541_20170916T060220_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_220170916T060542_20170916T061352_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_220170916T063521_20170916T065100_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_220170916T065720_20170916T070806_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_220170916T072458_20170916T073848_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. The master fail flag is set by the CFI call, for one or more records,
CS_OFFL_SIR_FDM_220170916T074028_20170916T075549_C001	CFI Backscatter Status Flag, SWH Squared Averaging Status Flag	indicating the values stored in fields #41, #42, #43 and #44 should be ignored for these records. The master fail flag is set by the CFI call, for one or more records,
CS_OFFL_SIR_FDM_220170916T081717_20170916T082426_C001	CFI Backscatter Status Flag, SWH Squared Averaging Status Flag	indicating the values stored in fields #41, #42, #43 and #44 should be ignored for these records. The master fail flag is set by the CFI call, for one or more records,
CS_OFFL_SIR_FDM_220170916T082549_20170916T083037_C001	CFI Backscatter Status Flag, SWH Squared Averaging Status Flag	indicating the values stored in fields #41, #42, #43 and #44 should be ignored for these records. The master fail flag is set by the CFI call, for one or more records,
CS_OFFL_SIR_FDM_220170916T094014_20170916T094109_C001	CFI Backscatter Status Flag, SWH Squared Averaging Status Flag	indicating the values stored in fields #41, #42, #43 and #44 should be ignored for these records. The master fail flag is set by the CFI call, for one or more records,
CS_OFFL_SIR_FDM_220170916T095427_20170916T102806_C001	CFI Backscatter Status Flag, SWH Squared Averaging Status Flag	indicating the values stored in fields #41, #42, #43 and #44 should be ignored for these records. The master fail flag is set by the CFI call, for one or more records,
CS_OFFL_SIR_FDM_220170916T104421_20170916T110848_C001	CFI Backscatter Status Flag, SWH Squared Averaging Status Flag	indicating the values stored in fields #41, #42, #43 and #44 should be ignored for these records. The master fail flag is set by the CFI call, for one or more records,
CS_OFFL_SIR_FDM_220170916T111559_20170916T111928_C001	CFI Backscatter Status Flag, SWH Squared Averaging Status Flag	indicating the values stored in fields #41, #42, #43 and #44 should be ignored for these records. The master fail flag is set by the CFI call, for one or more records,
CS_OFFL_SIR_FDM_220170916T113722_20170916T115055_C001	CFI Backscatter Status Flag, SWH Squared Averaging Status Flag	indicating the values stored in fields #41, #42, #43 and #44 should be ignored for these records. The master fail flag is set by the CFI call, for one or more records,
CS_OFFL_SIR_FDM_220170916T122316_20170916T124219_C001	CFI Backscatter Status Flag, SWH Squared Averaging Status Flag	indicating the values stored in fields #41, #42, #43 and #44 should be ignored for these records. The master fail flag is set by the CFI call, for one or more records,
CS_OFFL_SIR_FDM_220170916T125848_20170916T130034_C001	CFI Backscatter Status Flag, SWH Squared Averaging Status Flag	indicating the values stored in fields #41, #42, #43 and #44 should be ignored for these records. The master fail flag is set by the CFI call, for one or more records,
CS_OFFL_SIR_FDM_220170916T150349_20170916T152505_C001	CFI Backscatter Status Flag, SWH Squared Averaging Status Flag	indicating the values stored in fields #41, #42, #43 and #44 should be ignored for these records. The master fail flag is set by the CFI call, for one or more records,
CS_OFFL_SIR_FDM_220170916T160210_20170916T160645_C001	CFI Backscatter Status Flag, SWH Squared Averaging Status Flag	indicating the values stored in fields #41, #42, #43 and #44 should be ignored for these records. The master fail flag is set by the CFI call, for one or more records,
CS_OFFL_SIR_FDM_220170916T162855_20170916T170331_C001	CFI Backscatter Status Flag, SWH Squared Averaging Status Flag	indicating the values stored in fields #41, #42, #43 and #44 should be ignored for these records. The master fail flag is set by the CFI call, for one or more records,
CS_OFFL_SIR_FDM_220170916T172303_20170916T173533_C001	CFI Backscatter Status Flag, SWH Squared Averaging Status Flag	indicating the values stored in fields #41, #42, #43 and #44 should be ignored for these records. The master fail flag is set by the CFI call, for one or more records,
CS_OFFL_SIR_FDM_220170916T180723_20170916T181335_C001	CFI Backscatter Status Flag, SWH Squared Averaging Status Flag	indicating the values stored in fields #41, #42, #43 and #44 should be ignored for these records. The master fail flag is set by the CFI call, for one or more records,
CS_OFFL_SIR_FDM_220170916T182825_20170916T184306_C001	CFI Backscatter Status Flag, SWH Squared Averaging Status Flag	indicating the values stored in fields #41, #42, #43 and #44 should be ignored for these records. The master fail flag is set by the CFI call, for one or more records,
CS_OFFL_SIR_FDM_220170916T191658_20170916T193303_C001	CFI Backscatter Status Flag, SWH Squared Averaging Status Flag	indicating the values stored in fields #41, #42, #43 and #44 should be ignored for these records. The master fail flag is set by the CFI call, for one or more records,
CS_OFFL_SIR_FDM_220170916T203809_20170916T211333_C001	CFI Backscatter Status Flag, SWH Squared Averaging Status Flag	indicating the values stored in fields #41, #42, #43 and #44 should be ignored for these records. The master fail flag is set by the CFI call, for one or more records,
CS_OFFL_SIR_FDM_220170916T213821_20170916T220015_C001	CFI Backscatter Status Flag, SWH Squared Averaging Status Flag	indicating the values stored in fields #41, #42, #43 and #44 should be ignored for these records. The master fail flag is set by the CFI call, for one or more records,
CS_OFFL_SIR_FDM_220170916T221652_20170916T224449_C001	CFI Backscatter Status Flag, SWH Squared Averaging Status Flag	indicating the values stored in fields #41, #42, #43 and #44 should be ignored for these records.

Description

### 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.

Product			Test Failed
CS_OFFL_SIR_FDM_2_	_20170916T000452_	20170916T003054_C001	Ocean Retracking Quality Flag
CS_OFFL_SIR_FDM_2_	_20170916T004819_	20170916T012034_C001	Ocean Retracking Quality Flag
CS_OFFL_SIR_FDM_2_	20170916T013451	20170916T013545_C001	Ocean Retracking Quality Flag
CS OFFL SIR FDM 2	20170916T022705	20170916T024801_C001	Ocean Retracking Quality Flag
CS OFFL SIR FDM 2	20170916T025047	20170916T030210_C001	Ocean Retracking Quality Flag
		20170916T034835 C001	Ocean Retracking Quality Flag
		20170916T041046 C001	
	-	_	Ocean Retracking Quality Flag
		20170916T044209_C001	Ocean Retracking Quality Flag
CS_OFFL_SIR_FDM_2_	_20170916T054541_	20170916T060220_C001	Ocean Retracking Quality Flag
CS_OFFL_SIR_FDM_2_	_20170916T060542_	20170916T061352_C001	Ocean Retracking Quality Flag
CS_OFFL_SIR_FDM_2_	_20170916T063521_	20170916T065100_C001	Ocean Retracking Quality Flag
CS_OFFL_SIR_FDM_2_	_20170916T065720_	20170916T070806_C001	Ocean Retracking Quality Flag
CS_OFFL_SIR_FDM_2_	_20170916T072458_	20170916T073848_C001	Ocean Retracking Quality Flag
CS_OFFL_SIR_FDM_2_	_20170916T074028_	20170916T075549_C001	Ocean Retracking Quality Flag
CS_OFFL_SIR_FDM_2_	_20170916T081355_	20170916T081554_C001	Ocean Retracking Quality Flag
CS_OFFL_SIR_FDM_2_	_20170916T081717_	20170916T082426_C001	Ocean Retracking Quality Flag
CS_OFFL_SIR_FDM_2_	_20170916T082549_	_20170916T083037_C001	Ocean Retracking Quality Flag
CS_OFFL_SIR_FDM_2_	_20170916T094014_	20170916T094109_C001	Ocean Retracking Quality Flag
CS OFFL SIR FDM 2	20170916T095427	20170916T102806_C001	Ocean Retracking Quality Flag
CS OFFL SIR FDM 2	20170916T104421	20170916T110848 C001	Ocean Retracking Quality Flag
		20170916T111928_C001	Ocean Retracking Quality Flag
		20170916T115055_C001	Ocean Retracking Quality Flag
		20170916T124219_C001	Ocean Retracking Quality Flag
		20170916T124653_C001	Ocean Retracking Quality Flag
		20170916T130034_C001	Ocean Retracking Quality Flag
CS_OFFL_SIR_FDM_2_	_20170916T131212_	20170916T134532_C001	Ocean Retracking Quality Flag
CS_OFFL_SIR_FDM_2_	_20170916T144818_	20170916T150103_C001	Ocean Retracking Quality Flag
CS_OFFL_SIR_FDM_2_	_20170916T150349_	20170916T152505_C001	Ocean Retracking Quality Flag
CS_OFFL_SIR_FDM_2_	_20170916T160210_	20170916T160645_C001	Ocean Retracking Quality Flag
CS_OFFL_SIR_FDM_2_	_20170916T161553_	20170916T161644_C001	Ocean Retracking Quality Flag
CS_OFFL_SIR_FDM_2_	_20170916T162855_	20170916T170331_C001	Ocean Retracking Quality Flag
CS_OFFL_SIR_FDM_2_	_20170916T172303_	20170916T173533_C001	Ocean Retracking Quality Flag
CS_OFFL_SIR_FDM_2_	_20170916T173536_	20170916T175311_C001	Ocean Retracking Quality Flag
CS_OFFL_SIR_FDM_2_	_20170916T180723_	20170916T181335_C001	Ocean Retracking Quality Flag
CS_OFFL_SIR_FDM_2_	_20170916T181406_	20170916T182620_C001	Ocean Retracking Quality Flag
CS OFFL SIR FDM 2	20170916T182825	20170916T184306 C001	Ocean Retracking Quality Flag
CS OFFL SIR FDM 2		20170916T193303 C001	Ocean Retracking Quality Flag
	-		Ocean Retracking Quality Flag
		20170916T211333_C001	
			Ocean Retracking Quality Flag
		20170916T220015_C001	Ocean Retracking Quality Flag
	-	20170916T224449_C001	Ocean Retracking Quality Flag
CS_OFFL_SIR_FDM_2_	_20170916T230243_	20170916T230542_C001	Ocean Retracking Quality Flag
CS_OFFL_SIR_FDM_2_	_20170916T230700_	20170916T234003_C001	Ocean Retracking Quality Flag
CS_OFFL_SIR_FDM_2_	_20170916T235627_	20170917T000649_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 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 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 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 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. 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.

# 7. QCC Report Analysis

warnings is provided below.

Product type	Nb. Products	Nb. QCC Reports	Nb. Valid	Nb. Warnings	Nb. Errors
SIR1LRM_0_	142	142	142	0	0
SIR1SAR_0_	104	104	104	0	0
SIR1SIN_0_	109	109	109	0	0
SIR2SIN_0_	114	114	114	0	0
SIR_FDM_1B	142	142	142	0	0
SIR_FDM_2	142	142	142	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	