

# IDEAS+ Daily Report for FDM data:

## <u>11/08/2015</u>

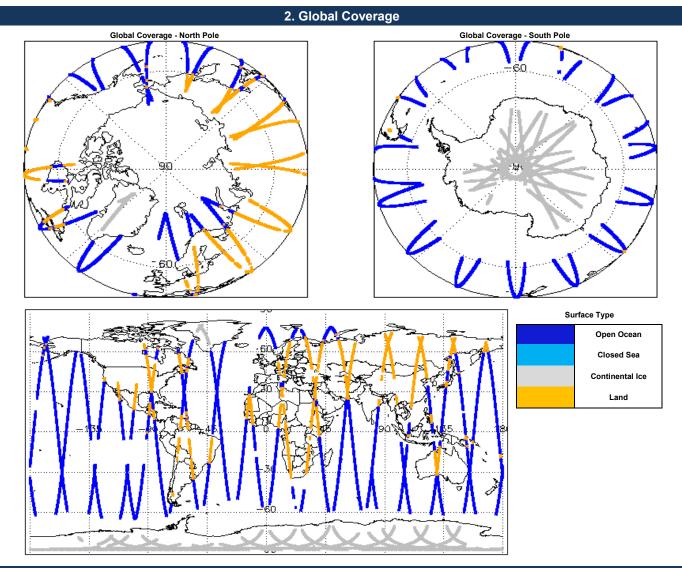


## 1. Overview

Report Production Date:         12-Aug-2015	10 Aug 2015	Check	Status	
	12-Aug-2015	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)	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	See Section 5.5 and 6.3	
		Auxiliary Correction Error Check	See Section 5.6 and 6.4	
		Measurement Confidence Data Check	See Section 5.6, 6.6, 6.7 and 6.8	

11-Aug-2015	None

12-Aug-2015 Nothing planned



## 3. Instrument Configuration

The SIRAL instrument configuration for the day of acquisition is provided below.

SIRAL instrument(s) in use:	SIRAL - A
Star Tracker(s) in use:	Star Tracker 1

4. Level 0 Data Quality Check

## 4.1 L0 Product Format Check

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

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 an	d SPH in order to identify any inconsistencie	s and/or errors raised by the processing chain.	
Number of products with errors: 3			
Product	Test Failed		
CS_OPER_SIR1SAR_020150811T174929_20150811T175651_0001		ors detected greater than minimum acceptable threshold.	
CS_OPER_SIR1SIN_020150811T223559_20150811T223958_0001	Percentage of processing error	ors detected greater than minimum acceptable threshold.	
CS_OPER_SIR2SIN_020150811T021837_20150811T022004_0001	Percentage of processing error	ors detected greater than minimum acceptable threshold.	
5. Le	vel 1B FDM Data Quality	Check	
5.1 L1B FDM Product Format Check			
Each product, retrieved and unpacked from the science server, is checked to e	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 an	d SPH in order to identify any inconsistencie	s 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 us	sed in processing.		
Number of products with errors: 4			
Product	Test Failed		
CS_OFFL_SIR_FDM_1B_20150811T011146_20150811T011458_C001	No Star Tracker file used in th	e processing of this product	
CS_OFFL_SIR_FDM_1B_20150811T025116_20150811T025209_C001	No Star Tracker file used in th	e processing of this product	
CS_OFFL_SIR_FDM_1B_20150811T043024_20150811T043117_C001	No Star Tracker file used in th	No Star Tracker file used in the processing of this product	
CS_OFFL_SIR_FDM_1B_20150811T075355_20150811T075717_C001	No Star Tracker file used in th	e processing of this product	
5.4 L1B FDM Calibration Usage Check			
Each product is checked in order to ensure the necessary calibration files have	e 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	e-determined baseline and also to check the	validity of Auxiliary Data Files is correct.	
Number of products with errors: 30			
Product	AUX File	Comment	
All FDM_1B products from 20150811T175907 onwards (30 products)	CS_OPER_AUXISURFPS_20150812 0150812T000000_0001	1000000_2 Missing Forecast Auxiliary File: CS_OPER_AUXISURFPS	
5.6 L1B FDM Auxiliary Correction Error Check			
CryoSat L1B data includes a correction error flag (field 54) for each measurem	ent record. The bit value of this flag indicates	s any problems when set.	
Number of products with errors: 30			
Product	Test Failed	Description	
All FDM_1B products from 20150811T175907 onwards (30 products)	Dry Tropospheric Correction, Wet Tropospheric Correction, Inverse Barometric Correction	Due to a missing Forecast Auxiliary Files there is an error with the Dry Tropospheric, Wet Tropospheric and Inverse Barometric Corrections	
5.7 L1B FDM Measurement Confidence Data Check			
	manurament record. The bit of the state	a indiantee any problems when not	
CryoSat L1B data includes a measurement confidence flag (field 18) for each i Number of products with errors: 6	neasurement record. The bit value of this ha	g indicates any problems when set.	
Product	Test Failed	Description	
CS_OFFL_SIR_FDM_1B_20150811T011146_20150811T011458_C001	Attitude correction missing	The attitude has not been corrected	
CS_OFFL_SIR_FDM_1B_20150811T025116_20150811T025209_C001	Attitude correction missing	The attitude has not been corrected	
CS_OFFL_SIR_FDM_1B_20150811T043024_20150811T043117_C001	Attitude correction missing	The attitude has not been corrected	
CS_OFFL_SIR_FDM_1B_20150811T075355_20150811T075717_C001	Attitude correction missing	The attitude has not been corrected	
CS_OFFL_SIR_FDM_1B_20150811T091548_20150811T093148_C001	Echo error, TRK echo error	The tracking echo has returned an error and the Rx1 Echo Error flag is se indicating a degraded echo	
CS_OFFL_SIR_FDM_1B_20150811T103700_20150811T111138_C001	Echo error, TRK echo error	The tracking echo has returned an error and the Rx1 Echo Error flag is se indicating a degraded echo	
616	evel 2 FDM Data Quality C	heck	
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## 6.1 L2 FDM Product Format Check

Each product, retrieved and unpacked from the science server, is checked to ensure it consists of both an XML header file (.HDR) and a binary product file (.DBL). Number of products with errors: 0

## 6.2 L2 FDM Product Header Analysis

For all products, a series of pre-defined checks are carried out on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain. Number of products with errors: 0

#### 6.3 L2 FDM Auxiliary Data File Usage Check Each product is checked for missing Data Set Descriptors with respect to a pre-determined baseline and also to check the validity of Auxiliary Data Files is correct. Number of products with errors: 30 Product AUX File Comment CS\_OPER\_AUXISURFPS\_20150812T000000\_2 0150812T000000\_0001 All FDM\_2 products from 20150811T175907 onwards (30 products) Missing Forecast Auxiliary File: CS\_OPER\_AUXISURFPS 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: 62 Product Test Failed

All FDM_2 products from 20150811T175907 onwards (30 products)
CS_OFFL_SIR_FDM_220150811T000202_20150811T001029_C001
CS_OFFL_SIR_FDM_220150811T004300_20150811T010637_C001
CS_OFFL_SIR_FDM_220150811T011458_20150811T011815_C001
CS_OFFL_SIR_FDM_220150811T011902_20150811T012026_C001
CS_OFFL_SIR_FDM_220150811T013725_20150811T014942_C001
CS_OFFL_SIR_FDM_220150811T015512_20150811T020506_C001
CS_OFFL_SIR_FDM_220150811T024247_20150811T024523_C001
CS_OFFL_SIR_FDM_220150811T031110_20150811T034428_C001
CS_OFFL_SIR_FDM_220150811T042443_20150811T042722_C001
CS_OFFL_SIR_FDM_220150811T044859_20150811T045953_C001
CS_OFFL_SIR_FDM_220150811T050239_20150811T052348_C001
CS_OFFL_SIR_FDM_220150811T054118_20150811T055114_C001
CS_OFFL_SIR_FDM_220150811T062739_20150811T070236_C001
CS_OFFL_SIR_FDM_220150811T072151_20150811T075216_C001
CS_OFFL_SIR_FDM_220150811T080558_20150811T081119_C001
CS_OFFL_SIR_FDM_220150811T081121_20150811T082509_C001
CS_OFFL_SIR_FDM_220150811T082713_20150811T084207_C001
CS_OFFL_SIR_FDM_220150811T091548_20150811T093148_C001
CS_OFFL_SIR_FDM_220150811T094453_20150811T095937_C001
CS_OFFL_SIR_FDM_220150811T100251_20150811T100534_C001
CS_OFFL_SIR_FDM_220150811T100713_20150811T102039_C001
CS_OFFL_SIR_FDM_220150811T103700_20150811T111138_C001
CS_OFFL_SIR_FDM_220150811T111140_20150811T111225_C001
CS_OFFL_SIR_FDM_220150811T113837_20150811T115914_C001
CS_OFFL_SIR_FDM_220150811T121530_20150811T122633_C001
CS_OFFL_SIR_FDM_220150811T123203_20150811T124339_C001
CS_OFFL_SIR_FDM_220150811T131335_20150811T133900_C001
CS_OFFL_SIR_FDM_220150811T144034_20150811T144746_C001
CS_OFFL_SIR_FDM_220150811T151413_20150811T151825_C001
CS_OFFL_SIR_FDM_220150811T153541_20150811T160804_C001
CS_OFFL_SIR_FDM_220150811T162013_20150811T162202_C001
CS_OFFL_SIR_FDM_220150811T171358_20150811T174929_C001
CS_OFFL_SIR_FDM_220150811T181132_20150811T183423_C001
CS_OFFL_SIR_FDM_220150811T185344_20150811T191404_C001
CS_OFFL_SIR_FDM_220150811T191500_20150811T192934_C001
CS_OFFL_SIR_FDM_220150811T194119_20150811T200005_C001
CS_OFFL_SIR_FDM_220150811T202621_20150811T203009_C001
CS_OFFL_SIR_FDM_220150811T203237_20150811T204730_C001
CS_OFFL_SIR_FDM_220150811T204931_20150811T205855_C001
CS_OFFL_SIR_FDM_220150811T210054_20150811T210909_C001
CS_OFFL_SIR_FDM_220150811T212018_20150811T213812_C001
CS_OFFL_SIR_FDM_220150811T221212_20150811T222635_C001

Test Failed	Description
Dry Tropospheric Correction, Wet	Due to a missing Forecast Auxiliary Files there is an error with the Dry
Tropospheric Correction, Inverse Barometric Correction, U-wind and V-	Tropospheric, Wet Tropospheric and Inverse Barometric Corrections and
wind Component Errors	the U-Wind and V-Wind components of the ECMWF Wind Model vectors.
	There is an error with the Sea State Bias Correction for one or more
Sea State Bias Correction	records
Sea State Bias Correction, Altimetric	There is an error with the Altimetric Wind Speed and Sea State Bias
Wind Speed	Correction for one or more records
Sea State Bias Correction, Altimetric	There is an error with the Altimetric Wind Speed and Sea State Bias
Wind Speed	Correction for one or more records
Sea State Bias Correction	There is an error with the Sea State Bias Correction for one or more
	records
Sea State Bias Correction, Altimetric Wind Speed	There is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more records
Sea State Bias Correction, Altimetric	There is an error with the Altimetric Wind Speed and Sea State Bias
Wind Speed	Correction for one or more records
Sea State Bias Correction, Altimetric	There is an error with the Altimetric Wind Speed and Sea State Bias
Wind Speed	Correction for one or more records
Sea State Bias Correction, Altimetric	There is an error with the Altimetric Wind Speed and Sea State Bias
Wind Speed	Correction for one or more records
Sea State Bias Correction, Altimetric	There is an error with the Altimetric Wind Speed and Sea State Bias
Wind Speed Sea State Bias Correction, Altimetric	Correction for one or more records There is an error with the Altimetric Wind Speed and Sea State Bias
Wind Speed	Correction for one or more records
Sea State Bias Correction, Altimetric	There is an error with the Altimetric Wind Speed and Sea State Bias
Wind Speed	Correction for one or more records
Sea State Bias Correction	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	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	Correction for one or more records
Sea State Bias Correction, Altimetric	There is an error with the Altimetric Wind Speed and Sea State Bias
Wind Speed	Correction for one or more records
Sea State Bias Correction, Altimetric	There is an error with the Altimetric Wind Speed and Sea State Bias
Wind Speed	Correction for one or more records
Sea State Bias Correction, Altimetric Wind Speed	There is an error with the Altimetric Wind Speed and Sea State Bias
Sea State Bias Correction, Altimetric	Correction for one or more records There is an error with the Altimetric Wind Speed and Sea State Bias
Wind Speed	Correction for one or more records
Sea State Bias Correction, Altimetric	There is an error with the Altimetric Wind Speed and Sea State Bias
Wind Speed	Correction for one or more records
Sea State Bias Correction, Altimetric	There is an error with the Altimetric Wind Speed and Sea State Bias
Wind Speed	Correction for one or more records
Sea State Bias Correction, Altimetric	There is an error with the Altimetric Wind Speed and Sea State Bias
Wind Speed	Correction for one or more records
Sea State Bias Correction, Altimetric Wind Speed	There is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more records
Sea State Bias Correction, Altimetric	There is an error with the Altimetric Wind Speed and Sea State Bias
Wind Speed	Correction for one or more records
Sea State Bias Correction, Altimetric	There is an error with the Altimetric Wind Speed and Sea State Bias
Wind Speed	Correction for one or more records
Sea State Bias Correction, Altimetric	There is an error with the Altimetric Wind Speed and Sea State Bias
Wind Speed	Correction for one or more records
Sea State Bias Correction, Altimetric Wind Speed	There is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more records
Sea State Bias Correction, Altimetric	There is an error with the Altimetric Wind Speed and Sea State Bias
Wind Speed	Correction for one or more records
Sea State Bias Correction, Altimetric	There is an error with the Altimetric Wind Speed and Sea State Bias
Wind Speed	Correction for one or more records
Sea State Bias Correction, Altimetric	There is an error with the Altimetric Wind Speed and Sea State Bias
Wind Speed Sea State Bias Correction, Altimetric	Correction for one or more records There is an error with the Altimetric Wind Speed and Sea State Bias
Wind Speed	Correction for one or more records
Sea State Bias Correction, Altimetric	There is an error with the Altimetric Wind Speed and Sea State Bias
Wind Speed	Correction for one or more records
Sea State Bias Correction, Altimetric	There is an error with the Altimetric Wind Speed and Sea State Bias
Wind Speed	Correction for one or more records
Sea State Bias Correction, Altimetric	There is an error with the Altimetric Wind Speed and Sea State Bias
Wind Speed Sea State Bias Correction, Altimetric	Correction for one or more records There is an error with the Altimetric Wind Speed and Sea State Bias
Wind Speed	Correction for one or more records
Sea State Bias Correction, Altimetric	There is an error with the Altimetric Wind Speed and Sea State Bias
Wind Speed	Correction for one or more records
Sea State Bias Correction, Altimetric	There is an error with the Altimetric Wind Speed and Sea State Bias
Wind Speed	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
a service serv	There is an error with the Altimetric Wind Speed and Sea State Bias
Sea State Bias Correction, Altimetric	
Wind Speed	Correction for one or more records
Wind Speed 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 Wind Speed	There is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more records
Wind Speed Sea State Bias Correction, Altimetric	There is an error with the Altimetric Wind Speed and Sea State Bias

CS\_OFFL\_SIR\_FDM\_2\_\_20150811T230057\_20150811T230310\_C001

CS\_OFFL\_SIR\_FDM\_2\_\_20150811T231353\_20150811T231938\_C001

CS\_OFFL\_SIR\_FDM\_2\_\_20150811T232508\_20150811T233608\_C001

Sea State Bias Correction, Altimetric Wind Speed Sea State Bias Correction, Altimetric Wind Speed 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 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:
 0

#### 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: 29

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220150811T004300_20150811T010637_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_220150811T011458_20150811T011815_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_220150811T013725_20150811T014942_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_220150811T024247_20150811T024523_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_220150811T031110_20150811T034428_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_220150811T042443_20150811T042722_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_220150811T050239_20150811T052348_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_220150811T062739_20150811T070236_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_220150811T080558_20150811T081119_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_220150811T081121_20150811T082509_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_220150811T091548_20150811T093148_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_220150811T094453_20150811T095937_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_220150811T100251_20150811T100534_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_220150811T103700_20150811T111138_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_220150811T111140_20150811T111225_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_220150811T121530_20150811T122633_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_220150811T123203_20150811T124339_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_220150811T144034_20150811T144746_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_220150811T153541_20150811T160804_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_220150811T162013_20150811T162202_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_220150811T171358_20150811T174929_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_220150811T181132_20150811T183423_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_220150811T185344_20150811T191404_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_220150811T194119_20150811T200005_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_220150811T203237_20150811T204730_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_220150811T204931_20150811T205855_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_220150811T212018_20150811T213812_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_220150811T230057_20150811T230310_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_220150811T231353_20150811T231938_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

indicating the values stored in fields #13, #14, #15 and #16 should b ignored for these records.

## 6.7 L2 FDM SWH and Backscatter Measurement Check

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CryoSat L2 data includes a SWH-Squared Averaging Status flag (field 39) and an CFI (field 45) and OCOG (field 51) Backscatter Averaging Status flag for each measurement record. The bit value of this flag indicates any problems when set.

### Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220150811T004300_20150811T010637_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_220150811T011458_20150811T011815_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.
	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_20150811T024247_20150811T024523_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.
	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_220150811T042443_20150811T042722_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_220150811T050239_20150811T052348_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_220150811T062739_20150811T070236_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_220150811T080558_20150811T081119_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_220150811T081121_20150811T082509_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_220150811T091548_20150811T093148_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_220150811T094453_20150811T095937_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_220150811T100251_20150811T100534_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_220150811T103700_20150811T111138_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.
	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_220150811T121530_20150811T122633_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_220150811T123203_20150811T124339_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_220150811T144034_20150811T144746_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.
	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_220150811T162013_20150811T162202_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.
	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_220150811T181132_20150811T183423_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.
	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_220150811T194119_20150811T200005_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.
	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_220150811T204931_20150811T205855_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.
	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_220150811T230057_20150811T230310_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_220150811T231353_20150811T231938_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:
 48

 Product
 Test Failed
 Description

 CS\_OFFL\_SIR\_FDM\_2\_20150811T000202\_20150811T001029\_C001
 Ocean Retracking Quality Flag
 The Ocean Retracking Quality Flag is set indicating the CFI Ocean Retracking Quality Flag

CS\_OFFL\_SIR\_FDM\_2\_\_20150811T004300\_20150811T010637\_C001 CS OFFL SIR FDM 2 20150811T011458 20150811T011815 C001 CS\_OFFL\_SIR\_FDM\_2\_\_20150811T011902\_20150811T012026\_C001 CS\_OFFL\_SIR\_FDM\_2\_\_20150811T013725\_20150811T014942\_C001 CS OFFL SIR FDM 2 20150811T022151 20150811T024242 C001 CS\_OFFL\_SIR\_FDM\_2\_\_20150811T024247\_20150811T024523\_C001 CS\_OFFL\_SIR\_FDM\_2\_\_20150811T025737\_20150811T025913\_C001 CS OFFL SIR FDM 2 20150811T031110 20150811T034428 C001 CS\_OFFL\_SIR\_FDM\_2\_\_20150811T042443\_20150811T042722\_C001 CS\_OFFL\_SIR\_FDM\_2\_\_20150811T042926\_20150811T042928\_C001 CS OFFL SIR FDM 2 20150811T043441 20150811T043854 C001 CS\_OFFL\_SIR\_FDM\_2\_\_20150811T044859\_20150811T045953\_C001 CS OFFL SIR FDM 2 20150811T050239 20150811T052348 C001 CS\_OFFL\_SIR\_FDM\_2\_\_20150811T054118\_20150811T055114\_C001 CS\_OFFL\_SIR\_FDM\_2\_\_20150811T055302\_20150811T060536\_C001 CS OFFL SIR FDM 2 20150811T062739 20150811T070236 C001 CS\_OFFL\_SIR\_FDM\_2\_\_20150811T072151\_20150811T075216\_C001 CS\_OFFL\_SIR\_FDM\_2\_\_20150811T080558\_20150811T081119\_C001 CS OFFL SIR FDM 2 20150811T081121 20150811T082509 C001 CS\_OFFL\_SIR\_FDM\_2\_\_20150811T082713\_20150811T084207\_C001 CS\_OFFL\_SIR\_FDM\_2\_\_20150811T085914\_20150811T090928\_C001 CS\_OFFL\_SIR\_FDM\_2\_\_20150811T091548\_20150811T093148\_C001 CS OFFL SIR FDM 2 20150811T094453 20150811T095937 C001 CS OFFL SIR FDM 2 20150811T100251 20150811T100534 C001 CS OFFL SIR FDM 2 20150811T103700 20150811T111138 C001 CS\_OFFL\_SIR\_FDM\_2\_\_20150811T111140\_20150811T111225\_C001 CS\_OFFL\_SIR\_FDM\_2\_\_20150811T113837\_20150811T115914\_C001 CS\_OFFL\_SIR\_FDM\_2\_\_20150811T121530\_20150811T122633\_C001 CS\_OFFL\_SIR\_FDM\_2\_\_20150811T123203\_20150811T124339\_C001 CS\_OFFL\_SIR\_FDM\_2\_\_20150811T141117\_20150811T142840\_C001 CS\_OFFL\_SIR\_FDM\_2\_\_20150811T144034\_20150811T144746\_C001 CS\_OFFL\_SIR\_FDM\_2\_\_20150811T153541\_20150811T160804\_C001 CS\_OFFL\_SIR\_FDM\_2\_\_20150811T161001\_20150811T161121\_C001 CS\_OFFL\_SIR\_FDM\_2\_\_20150811T162013\_20150811T162202\_C001 CS\_OFFL\_SIR\_FDM\_2\_\_20150811T163130\_20150811T163402\_C001 CS OFFL SIR FDM 2 20150811T171358 20150811T174929 C001 CS\_OFFL\_SIR\_FDM\_2\_\_20150811T181132\_20150811T183423\_C001 CS\_OFFL\_SIR\_FDM\_2\_\_20150811T185344\_20150811T191404\_C001 CS OFFL SIR FDM 2 20150811T191500 20150811T192934 C001 CS\_OFFL\_SIR\_FDM\_2\_\_20150811T194119\_20150811T200005\_C001 CS\_OFFL\_SIR\_FDM\_2\_\_20150811T200113\_20150811T201454\_C001 CS OFFL SIR FDM 2 20150811T203237 20150811T204730 C001 CS\_OFFL\_SIR\_FDM\_2\_\_20150811T204931\_20150811T205855\_C001 CS OFFL SIR FDM 2 20150811T212018 20150811T213812 C001 CS\_OFFL\_SIR\_FDM\_2\_\_20150811T230057\_20150811T230310\_C001 CS\_OFFL\_SIR\_FDM\_2\_\_20150811T230434\_20150811T231351\_C001 CS OFFL SIR FDM 2 20150811T231353 20150811T231938 C001 Ocean Retracking Quality Flag 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. 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. 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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.