

# IDEAS+ Daily Report for FDM data:

## <u>17/08/2017</u>

1. Overview				
Report Production Date:	18-Aug-2017	Check	Status	
Report Froduction Date.	107/10g 2017	Server check: science-pds.cryosat.esa.int	Nominal	
Processor Used:	CryoSat Ice Processor	Server check: calval-pds.cryosat.esa.int	Nominal	
Flocessor Useu.	Cryosal ice Processor	Product Software Check	Nominal	
Data Used:	L1 and L2 Fast Delivery Marine (FDM)	Product Format Check	Nominal	
Data Oseu.	Mode and L0 Data	Product Header Analysis	See Section 4.2	
		Star Tracker Usage Check	See Section 5.3	
		Calibration Usage Check	Nominal	
		Auxiliary Data File Usage Check	Nominal	
		Auxiliary Correction Error Check	See Section 6.4	
		Measurement Confidence Data Check	See Section 5.7, 6.5, 6.6, 6.7 and 6.8	
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Mission / Instrument News				
16-Aug-2017 None				
17-Aug-2017 None				
18-Aug-2017 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 & 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).

Number of products with errors:

0

4.2 L0 Product Header Analysis			
For all products, a series of pre-defined checks are carried out on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the processing chain.          Number of products with errors:       1			
Product	Test Failed		
CS_OPER_SIR1SAR_020170817T002321_20170817T003316_0001.HDR	Percentage of processing	errors detected greater than minimum acceptable threshold.	
5. Le	vel 1B FDM Data Quality	y Check	
5.1 L1B FDM Product Format Check			
Each product, retrieved and unpacked from the science server, is checked to a	ansure it consists of both an XML beader	file ( HDR) and a binary product file ( DRI )	
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 Number of products with errors: 0	d SPH in order to identify any inconsisten	ncies 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 us	sed in processing.		
Number of products with errors: 3			
Product	Test Failed		
CS_OFFL_SIR_FDM_1B_20170817T115341_20170817T115427_C001	No Star Tracker file used i	in the processing of this product	
S_OFFL_SIR_FDM_1B_20170817T150734_20170817T150859_C001 No Star Tracker file used in the processing of this product			
CS_OFFL_SIR_FDM_1B_20170817T182421_20170817T183157_C001	No Star Tracker file used i	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 Number of products with errors: 0	e been used in processing.		
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: 0			
5.6 L1B FDM Auxiliary Correction Error Check			
CryoSat L1B data includes a correction error flag (field 54) for each measurem	ent record. The hit value of this flag indic	ates 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 i	measurement record. The bit value of this	s flag indicates any problems when set.	
Number of products with errors: 6			
Product	Test Failed	Description	
CS_OFFL_SIR_FDM_1B_20170817T035640_20170817T035645_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_20170817T072959_20170817T074339_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_20170817T115341_20170817T115427_C001	Attitude correction missing	The attitude has not been corrected	
CS_OFFL_SIR_FDM_1B_20170817T121023_20170817T121329_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_20170817T150734_20170817T150859_C001	Attitude correction missing	The attitude has not been corrected	
CS_OFFL_SIR_FDM_1B_20170817T182421_20170817T183157_C001	Attitude correction missing	The attitude has not been corrected	
6.14	evel 2 FDM Data Quality	Check	
6.1 L2 FDM Product Format Check	,		
Each product, retrieved and unpacked from the science server, is checked to a Number of products with errors: 0	ensure it consists of both an XML header	file (.HDR) and a binary product file (.DBL).	
6.2 L2 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 inconsisten	ncies 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 pro- Number of products with errors: 0	e-determined baseline and also to check to	the validity of Auxiliary Data Files is correct.	
6.4 L2 FDM Auxiliary Correction Error Check			
Each product is checked to detect auxiliary corrections flagged by the ground-t	station processing chain as missing or co	ntaining errors.	
Number of products with errors: 33			

Product	Test Failed	Description
CS OFFL SIR FDM 2 _20170816T234415 20170817T001223 C001	Sea State Bias Correction, Altimetric	There is an error with the Altimetric Wind Speed and Sea State Bias
CS_OFFL_SIR_FDM_220170817T004221_20170817T010745_C001	Wind Speed Sea State Bias Correction	Correction for one or more records There is an error with the Sea State Bias Correction for one or more records
CS_OFFL_SIR_FDM_220170817T014000_20170817T015725_C001	Sea State Bias Correction	There is an error with the Sea State Bias Correction for one or more records
CS_OFFL_SIR_FDM_220170817T020920_20170817T021631_C001	Sea State Bias Correction, Altimetric Wind Speed	There is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more records
CS_OFFL_SIR_FDM_220170817T024258_20170817T024710_C001	Sea State Bias Correction, Altimetric Wind Speed	There is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more records
CS_OFFL_SIR_FDM_220170817T030426_20170817T033649_C001	Sea State Bias Correction, Altimetric Wind Speed	There is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more records
CS_OFFL_SIR_FDM_220170817T044243_20170817T051814_C001	Sea State Bias Correction, Altimetric Wind Speed	There is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more records
CS_OFFL_SIR_FDM_220170817T054533_20170817T060308_C001	Sea State Bias Correction, Altimetric Wind Speed	There is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more records
CS_OFFL_SIR_FDM_220170817T062228_20170817T064247_C001	Sea State Bias Correction	There is an error with the Sea State Bias Correction for one or more records
CS_OFFL_SIR_FDM_220170817T064345_20170817T065819_C001	Sea State Bias Correction	There is an error with the Sea State Bias Correction for one or more records
CS_OFFL_SIR_FDM_220170817T071005_20170817T072850_C001	Sea State Bias Correction	There is an error with the Sea State Bias Correction for one or more records
CS_OFFL_SIR_FDM_220170817T080122_20170817T081614_C001	Sea State Bias Correction, Altimetric Wind Speed	There is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more records
CS_OFFL_SIR_FDM_220170817T081816_20170817T082739_C001	Sea State Bias Correction, Altimetric Wind Speed Sea State Bias Correction, Altimetric	There is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more records There is an error with the Altimetric Wind Speed and Sea State Bias
CS_OFFL_SIR_FDM_220170817T084903_20170817T090658_C001	Wind Speed Sea State Bias Correction, Altimetric	Correction for one or more records There is an error with the Altimetric Wind Speed and Sea State Bias
CS_OFFL_SIR_FDM_220170817T102943_20170817T103155_C001	Wind Speed Sea State Bias Correction, Altimetric	Correction for one or more records There is an error with the Altimetric Wind Speed and Sea State Bias
CS_OFFL_SIR_FDM_220170817T103319_20170817T110453_C001	Wind Speed	Correction for one or more records
CS_OFFL_SIR_FDM_220170817T121653_20170817T121842_C001	Sea State Bias Correction, Altimetric Wind Speed	There is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more records
CS_OFFL_SIR_FDM_220170817T123314_20170817T124349_C001	Sea State Bias Correction	There is an error with the Sea State Bias Correction for one or more records
CS_OFFL_SIR_FDM_220170817T125958_20170817T132503_C001	Sea State Bias Correction, Altimetric Wind Speed	There is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more records
CS_OFFL_SIR_FDM_220170817T135035_20170817T142124_C001	Sea State Bias Correction, Altimetric Wind Speed	There is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more records
CS_OFFL_SIR_FDM_220170817T152913_20170817T160147_C001	Sea State Bias Correction, Altimetric Wind Speed	There is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more records
CS_OFFL_SIR_FDM_220170817T170532_20170817T174034_C001	Sea State Bias Correction, Altimetric Wind Speed	There is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more records
CS_OFFL_SIR_FDM_220170817T175813_20170817T182405_C001	Sea State Bias Correction, Altimetric Wind Speed	There is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more records
CS_OFFL_SIR_FDM_220170817T182421_20170817T183157_C001	Sea State Bias Correction, Altimetric Wind Speed	There is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more records
CS_OFFL_SIR_FDM_220170817T184358_20170817T185829_C001	Sea State Bias Correction, Altimetric Wind Speed Sea State Bias Correction, Altimetric	There is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more records There is an error with the Altimetric Wind Speed and Sea State Bias
CS_OFFL_SIR_FDM_220170817T190310_20170817T192004_C001	Wind Speed	Correction for one or more records
CS_OFFL_SIR_FDM_220170817T195343_20170817T201230_C001	Sea State Bias Correction, Altimetric Wind Speed	There is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more records
CS_OFFL_SIR_FDM_220170817T203302_20170817T204211_C001	Sea State Bias Correction, Altimetric Wind Speed Sea State Bias Correction, Altimetric	There is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more records There is an error with the Altimetric Wind Speed and Sea State Bias
CS_OFFL_SIR_FDM_220170817T204214_20170817T204232_C001	Wind Speed	Correction for one or more records
CS_OFFL_SIR_FDM_220170817T213442_20170817T213720_C001	Sea State Bias Correction, Altimetric Wind Speed Sea State Bias Correction, Altimetric	There is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more records There is an error with the Altimetric Wind Speed and Sea State Bias
CS_OFFL_SIR_FDM_220170817T213843_20170817T214555_C001	Sea State Blas Correction, Altimetric Wind Speed Sea State Blas Correction, Altimetric	Correction for one or more records There is an error with the Altimetric Wind Speed and Sea State Bias
CS_OFFL_SIR_FDM_220170817T214718_20170817T214933_C001	Wind Speed	Correction for one or more records
CS_OFFL_SIR_FDM_220170817T235246_20170818T001654_C001	Sea State Bias Correction, Altimetric Wind Speed	There is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more records

### 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_220170817T035640_20170817T035645_C001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo
CS_OFFL_SIR_FDM_220170817T072959_20170817T074339_C001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo
CS_OFFL_SIR_FDM_220170817T115341_20170817T115427_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220170817T121023_20170817T121329_C001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo
CS_OFFL_SIR_FDM_220170817T150734_20170817T150859_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220170817T182421_20170817T183157_C001	Attitude correction missing	The attitude has not been corrected

### 6.6 L2 FDM Range Measurement Check

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

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220170816T234415_20170817T001223_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_20170817T020920_20170817T021631_C001	5 5	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_220170817T030426_20170817T033649_C001		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_220170817T044243_20170817T051814_C001		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_220170817T080122_20170817T081614_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_220170817T081816_20170817T082739_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_220170817T084903_20170817T090658_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_220170817T102943_20170817T103155_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_220170817T103319_20170817T110453_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_220170817T121653_20170817T121842_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_220170817T125958_20170817T132503_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_220170817T135035_20170817T142124_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_220170817T152913_20170817T160147_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_220170817T170532_20170817T174034_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_220170817T184358_20170817T185829_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_220170817T190310_20170817T192004_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_220170817T195343_20170817T201230_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_220170817T203302_20170817T204211_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_220170817T204214_20170817T204232_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_220170817T213843_20170817T214555_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_220170817T214718_20170817T214933_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_220170817T235246_20170818T001654_C001	CFI Retracked Range Flag	The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #13, #14, #15 and #16 should be ignored for these records.

#### 6.7 L2 FDM SWH and Backscatter Measurement Check

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220170816T234415_20170817T001223_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_220170817T020920_20170817T021631_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_220170817T030426_20170817T033649_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_220170817T044243_20170817T051814_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_220170817T080122_20170817T081614_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_220170817T081816_20170817T082739_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_220170817T084903_20170817T090658_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_220170817T102943_20170817T103155_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_220170817T103319_20170817T110453_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_220170817T121653_20170817T121842_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_220170817T125958_20170817T132503_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_220170817T135035_20170817T142124_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_220170817T152913_20170817T160147_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_220170817T170532_20170817T174034_C001	CFI Backscatter Status Flag, SWH Squared Averaging Status Flag	The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #41, #42, #43 and #44 should be ignored for these records.

CS_OFFL_SIR_FDM_2_20170817T184358_20170817T185829_C001CFI Backscatter Status Flag, SWH Squared Averaging Status FlagThe 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_20170817T190310_20170817T192004_C001CFI Backscatter Status Flag, SWH Squared Averaging Status FlagThe 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_20170817T195343_20170817T201230_C001CFI Backscatter Status Flag, SWH Squared Averaging Status FlagThe 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_20170817T203302_20170817T204211_C001CFI Backscatter Status Flag, SWH Squared Averaging Status FlagThe 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_20170817T204214_20170817T204232_C001CFI Backscatter Status Flag, SWH Squared Averaging Status FlagThe 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_20170817T204214_20170817T204232_C001CFI Backscatter Status Flag, SWH Squared Averaging Status FlagThe 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_20170817T213843_20170817T2		
CS_OFFL_SIR_FDM_2_20170817T190310_20170817T192004_C001CFI Backscatter Status Flag, SWH Squared Averaging Status Flagindicating the values stored in fields #41, #42, #43 and #44 should be ignored for these records.CS_OFFL_SIR_FDM_2_20170817T195343_20170817T201230_C001CFI Backscatter Status Flag, SWH Squared Averaging Status FlagThe 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_20170817T203302_20170817T204211_C001CFI Backscatter Status Flag, SWH Squared Averaging Status FlagThe 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_20170817T204214_20170817T204232_C001CFI Backscatter Status Flag, SWH Squared Averaging Status FlagThe 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_20170817T204214_20170817T204232_C001CFI Backscatter Status Flag, SWH Squared Averaging Status FlagThe 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_20170817T213843_20170817T214555_C001CFI Backscatter Status Flag, SWH Squared Averaging Status FlagThe 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_20170817T214555_C001CFI Backscatter Status FlagThe master fail flag is set by the		indicating the values stored in fields #41, #42, #43 and #44 should be
CS_OFFL_SIR_FDM_2_20170817T195343_20170817T201230_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.         CS_OFFL_SIR_FDM_2_20170817T203302_20170817T204211_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.         CS_OFFL_SIR_FDM_2_20170817T204214_20170817T204232_C001       CFI Backscatter Status Flag, SWH Squared Averaging Status Flag       The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #41, #42, #43 and #44 should be ignored for these records.         CS_OFFL_SIR_FDM_2_20170817T204214_20170817T204232_C001       CFI Backscatter Status Flag, SWH Squared Averaging Status Flag       The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #41, #42, #43 and #44 should be ignored for these records.         CS_OFFL_SIR_FDM_2_20170817T213843_20170817T214555_C001       CFI Backscatter Status Flag, SWH Squared Averaging Status Flag       The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #41, #42, #43 and #44 should be ignored for these records.         CS_OFFL_SIR_FDM_2_20170817T214718_20170817T214933_C001       CFI Backscatter Status Flag, SWH Squared Averaging Status Flag       The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #41, #42, #43 and #44 should be ignored for these records.         CS_OFFL_SIR_FDM_2_20170817T214718_20170817T214933_C001<		indicating the values stored in fields #41, #42, #43 and #44 should be
CS_OFFL_SIR_FDM_2_20170817T203302_20170817T204211_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.         CS_OFFL_SIR_FDM_2_20170817T204214_20170817T204232_C001       CFI Backscatter Status Flag, SWH Squared Averaging Status Flag       The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #41, #42, #43 and #44 should be ignored for these records.         CS_OFFL_SIR_FDM_2_20170817T213843_20170817T214555_C001       CFI Backscatter Status Flag, SWH Squared Averaging Status Flag       The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #41, #42, #43 and #44 should be ignored for these records.         CS_OFFL_SIR_FDM_2_20170817T213843_20170817T214555_C001       CFI Backscatter Status Flag, SWH Squared Averaging Status Flag       The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #41, #42, #43 and #44 should be ignored for these records.         CS_OFFL_SIR_FDM_2_20170817T214718_20170817T214933_C001       CFI Backscatter Status Flag, SWH Squared Averaging Status Flag       The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #41, #42, #43 and #44 should be ignored for these records.         CS_OFFL_SIR_FDM_2_20170817T214718_20170817T214933_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. </td <td></td> <td>indicating the values stored in fields #41, #42, #43 and #44 should be</td>		indicating the values stored in fields #41, #42, #43 and #44 should be
CS_OFFL_SIR_FDM_2_20170817T204214_20170817T204232_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.         CS_OFFL_SIR_FDM_2_20170817T213843_20170817T214555_C001       CFI Backscatter Status Flag, SWH Squared Averaging Status Flag       The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #41, #42, #43 and #44 should be ignored for these records.         CS_OFFL_SIR_FDM_2_20170817T214718_20170817T214933_C001       CFI Backscatter Status Flag, SWH Squared Averaging Status Flag.       The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #41, #42, #43 and #44 should be ignored for these records.         CS_OFFL_SIR_FDM_2_20170817T214718_20170817T214933_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.		indicating the values stored in fields #41, #42, #43 and #44 should be
CS_OFFL_SIR_FDM_2_20170817T213843_20170817T214555_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.         CS_OFFL_SIR_FDM_2_20170817T214718_20170817T214933_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.		indicating the values stored in fields #41, #42, #43 and #44 should be
CS_OFFL_SIR_FDM_2_20170817T214718_20170817T214933_C001 CFI Backscatter Status Flag, SWH Squared Averaging Status Flag, SWH Squared Averaging Status Flag. SWH Squared Averaging Status Flag indicating the values stored in fields #41, #42, #43 and #44 should be ignored for these records.		indicating the values stored in fields #41, #42, #43 and #44 should be
CEL Backscatter Status Elag SWH The master fail flag is set by the CFI call, for one or more records,		indicating the values stored in fields #41, #42, #43 and #44 should be
CS_OFFL_SIR_FDM_2_20170817T235246_20170818T001654_C001 Squared Averaging Status Flag, SWIT 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	indicating the values stored in fields #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: 41 Product Test Failed Description The Ocean Retracking Quality Flag is set indicating the CFI Ocean CS\_OFFL\_SIR\_FDM\_2\_\_20170816T234415\_20170817T001223\_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\_\_20170817T004221\_20170817T010745\_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 20170817T014000 20170817T015725 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\_\_20170817T020920\_20170817T021631\_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\_\_20170817T021948\_20170817T023005\_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 20170817T024258 20170817T024710 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\_\_20170817T030426\_20170817T033649\_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\_\_20170817T040917\_20170817T042504\_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 20170817T044243 20170817T051814 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\_\_20170817T052753\_20170817T053003\_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\_\_20170817T054017\_20170817T054438\_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 20170817T054533 20170817T060308 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\_\_20170817T062228\_20170817T064247\_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\_\_20170817T064345\_20170817T065819\_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\_\_20170817T071005\_20170817T072850\_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\_\_20170817T080122\_20170817T081614\_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 20170817T081816 20170817T082739 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\_\_20170817T084903\_20170817T090658\_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\_\_20170817T094057\_20170817T095520\_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\_\_20170817T102943\_20170817T103155\_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\_\_20170817T103319\_20170817T110453\_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\_\_20170817T121653\_20170817T121842\_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\_\_20170817T123314\_20170817T124349\_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 20170817T125958 20170817T132503 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 20170817T133054 20170817T133750 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\_\_20170817T135035\_20170817T142124\_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 20170817T152913 20170817T160147 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\_\_20170817T161941\_20170817T163551\_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\_\_20170817T165347\_20170817T165453\_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\_\_20170817T170532\_20170817T174034\_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\_\_20170817T175813\_20170817T182405\_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\_\_20170817T184358\_20170817T185829\_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\_\_20170817T190310\_20170817T192004\_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\_\_20170817T195343 20170817T201230 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\_\_20170817T203302\_20170817T204211\_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\_\_20170817T204214\_20170817T204232\_C001 Ocean Retracking Quality Flag Retracker was not successfully executed for one or more records.

CS_OFFL_SIR_FDM_220170817T204508_20170817T205901_C001		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_220170817T213442_20170817T213720_C001		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_220170817T213843_20170817T214555_C001		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_220170817T214718_20170817T214933_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_220170817T235246_20170818T001654_C001		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.

SIR1LRM_0_         145         145         145           SIR1SAR_0_         97         97         97           SIR1SIN_0_         110         110         110           SIR2SIN_0_         92         92         92           SIR FDM 1B         145         145         145	0	0 0
SIR1SIN_0_         110         110         110           SIR2SIN_0_         92         92         92	0	0
SIR2SIN_0_ 92 92 92	0	
	U	0
SIR FDM 1B 145 145 145	0	0
	0	0
SIR FDM 2 143 143 143	0	0
SIK_FDIM_Z 143 143 143	0	0

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