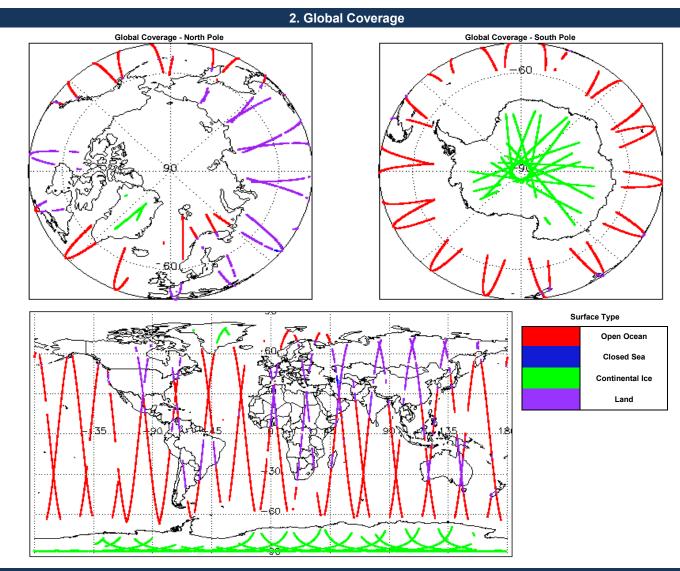


# IDEAS+ Daily Report for FDM data:

# <u>27/12/2016</u>



Report Production Date:		06-Jan-2017		Check	Status
Report Production	Date.	00-3411-2017		Server check: science-pds.cryosat.esa.int	Nominal
Processor Used:		Cruce Cat los Drassassar		Server check: calval-pds.cryosat.esa.int	Nominal
Processor use	a.	CryoSat Ice Processor		Product Software Check	Nominal
Data Used:		L1 and L2 Fast Delivery Marine (FDM)		Product Format Check	Nominal
Data Useu.		Mode and L0 Data		Product Header Analysis	See Section 4.2
		Star Tracker Usage Check	See Section 5.3		
				Calibration Usage Check	Nominal
				Auxiliary Data File Usage Check	Nominal
			Auxiliary Correction Error Check	See Section 6.4	
				Measurement Confidence Data Check	See Section 5.7, 6.5, 6.6, 6.7 and 6.8
Mission / Instrument N	lews				
26-Dec-2016 None					
27-Dec-2016 None					
28-Dec-2016 Nothing	g 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 and SPH ir	order to identify any inconsistencies ar	nd/or errors raised by the processing chain.
Number of products with errors: 4		
Product	Test Failed	
CS_OPER_SIR1LRM_020161227T034152_20161227T040733_0001.DBL	Percentage of processing errors	detected greater than minimum acceptable threshold.
CS_OPER_SIR1SAR_020161227T041704_20161227T041941_0001.HDR		detected greater than minimum acceptable threshold.
CS_OPER_SIR1SIN_0_20161227T231845_20161227T232005_0001.HDR		detected greater than minimum acceptable threshold.
CS_OPER_SIR2SIN_0_20161227T093548_20161227T093704_0001.HDR	Percentage of processing errors	detected greater than minimum acceptable threshold.
5. Level 1	B FDM Data Quality Ch	eck
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 (.H	DR) 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 ar	nd/or errors raised by the ground-segment processing chain
Number of products with errors: 0		
5.3 L1B FDM Star Tracker Usage Check		
Each product is checked in order to ensure a valid star tracker file has been used in pro	ocessing.	
Number of products with errors: 3		
Product	Test Failed	
CS_OFFL_SIR_FDM_1B_20161227T005359_20161227T005411_C001	No Star Tracker file used in the p	
CS_0FFL_SIR_FDM_1B_20161227T023134_20161227T023206_C001	No Star Tracker file used in the p	
CS_OFFL_SIR_FDM_1B_20161227T052102_20161227T055426_C001	No Star Tracker file used in the p	rocessing of this product
5.4 L1B FDM Calibration Usage Check		
Each product is checked in order to ensure the necessary calibration files have been u	sed 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-determ	ined baseline and also to check the vali	dity of Auxiliary Data Files is correct.
Number of products with errors: 0		
5.6 L1B FDM Auxiliary Correction Error Check		
·	rd. The bit value of this flag indicates or	
CryoSat L1B data includes a correction error flag (field 54) for each measurement reconverted by the converted by the second sec	ro. The bit value of this hag indicates an	ly problems when set.
5.7 L1B FDM Measurement Confidence Data Check		
CryoSat L1B data includes a measurement confidence flag (field 18) for each measure	ment record. The bit value of this flag in	dicates any problems when set.
Number of products with errors: 3	Ũ	
Product	est Failed	Description
	titude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20161227T023134_20161227T023206_C001 AI	titude correction missing	The attitude has not been corrected
	titude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20161227T052102_20161227T055426_C001	titude conection missing	
6. Level 2	P FDM Data Quality Che	eck
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 (.H	DR) 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 ar	nd/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-determ	ined baseline and also to check the vali	dity of Auxiliary Data Files is correct.
Number of products with errors: 0		
6.4 L2 FDM Auxiliary Correction Error Check		
Each product is checked to detect auxiliary corrections flagged by the ground-station p	rocessing chain as missing or containing	g errors.
Number of products with errors:         41		-

Product	Test Failed	Description
CS_OFEL_SIR_EDM_2 201612261235621 201612271000651 C001		There is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more records

CS\_OFFL\_SIR\_FDM\_2\_\_20161227T002200\_20161227T004912\_C001 CS\_OFFL\_SIR\_FDM\_2\_\_20161227T020140\_20161227T020623\_C001 CS OFFL SIR FDM 2 20161227T023745 20161227T023853 C001 CS\_OFFL\_SIR\_FDM\_2\_\_20161227T025204\_20161227T032532\_C001 CS\_OFFL\_SIR\_FDM\_2\_\_20161227T040850\_20161227T040912\_C001 CS\_OFFL\_SIR\_FDM\_2\_\_20161227T043029\_20161227T043317\_C001 CS\_OFFL\_SIR\_FDM\_2\_\_20161227T052102\_20161227T055426\_C001 CS\_OFFL\_SIR\_FDM\_2\_\_20161227T061140\_20161227T062141\_C001 CS\_OFFL\_SIR\_FDM\_2\_\_20161227T062818\_20161227T062850\_C001 CS\_OFFL\_SIR\_FDM\_2\_\_20161227T062853\_20161227T064340\_C001 CS\_OFFL\_SIR\_FDM\_2\_\_20161227T070213\_20161227T071436\_C001 CS\_OFFL\_SIR\_FDM\_2\_\_20161227T071623\_20161227T073339\_C001 CS\_OFFL\_SIR\_FDM\_2\_\_20161227T075611\_20161227T080529\_C001 CS\_OFFL\_SIR\_FDM\_2\_\_20161227T080533\_20161227T080539\_C001 CS\_OFFL\_SIR\_FDM\_2\_\_20161227T080742\_20161227T082235\_C001 CS\_OFFL\_SIR\_FDM\_2\_\_20161227T083807\_20161227T084130\_C001 CS\_OFFL\_SIR\_FDM\_2\_\_20161227T085604\_20161227T090902\_C001 CS OFFL SIR FDM 2 20161227T101600 20161227T104251 C001 CS\_OFFL\_SIR\_FDM\_2\_\_20161227T111537\_20161227T114107\_C001 CS\_OFFL\_SIR\_FDM\_2\_\_20161227T121217\_20161227T122212\_C001 CS OFFL SIR FDM 2 20161227T122522 20161227T122652 C001 CS\_OFFL\_SIR\_FDM\_2\_\_20161227T125334\_20161227T131957\_C001 CS\_OFFL\_SIR\_FDM\_2\_\_20161227T133611\_20161227T140909\_C001 CS\_OFFL\_SIR\_FDM\_2\_\_20161227T143356\_20161227T143512\_C001 CS\_OFFL\_SIR\_FDM\_2\_\_20161227T145338\_20161227T145555\_C001 CS\_OFFL\_SIR\_FDM\_2\_\_20161227T160027\_20161227T160417\_C001 CS\_OFFL\_SIR\_FDM\_2\_\_20161227T161140\_20161227T162510\_C001 CS\_OFFL\_SIR\_FDM\_2\_\_20161227T162658\_20161227T163723\_C001 CS\_OFFL\_SIR\_FDM\_2\_\_20161227T165936\_20161227T172653\_C001 CS\_OFFL\_SIR\_FDM\_2\_\_20161227T183312\_20161227T184105\_C001 CS OFFL SIR FDM 2 20161227T184108 20161227T184921 C001 CS\_OFFL\_SIR\_FDM\_2\_\_20161227T185517\_20161227T190245\_C001 CS\_OFFL\_SIR\_FDM\_2\_\_20161227T192351\_20161227T193919\_C001 CS\_OFFL\_SIR\_FDM\_2\_\_20161227T201233\_20161227T202703\_C001 CS\_OFFL\_SIR\_FDM\_2\_\_20161227T210639\_20161227T211247\_C001 CS\_OFFL\_SIR\_FDM\_2\_\_20161227T211410\_20161227T211641\_C001 CS\_OFFL\_SIR\_FDM\_2\_\_20161227T212253\_20161227T213746\_C001 CS\_OFFL\_SIR\_FDM\_2\_\_20161227T215200\_20161227T221613\_C001 CS OFFL SIR FDM 2 20161227T225016 20161227T231638 C001 CS\_OFFL\_SIR\_FDM\_2\_\_20161227T233343\_20161227T235649\_C001 Sea State Bias Correction, Altimetr Wind Speed Sea State Bias Correction. Altimetr Wind Speed Sea State Bias Correction, Altimetri Wind Speed Sea State Bias Correction, Altimetr Wind Speed Sea State Bias Correction, Altimetr Wind Speed Sea State Bias Correction, Altimetri Wind Speed Sea State Bias Correction, Altimetr Wind Speed Sea State Bias Correction Sea State Bias Correction, Altimetri Wind Speed Sea State Bias Correction, Altimetr Wind Speed Sea State Bias Correction, Altimetri Wind Speed Sea State Bias Correction, Altimetr Wind Speed Sea State Bias Correction. Altimetr Wind Speed Sea State Bias Correction, Altimetr Wind Speed Sea State Bias Correction Sea State Bias Correction, Altimetri Wind Speed Sea State Bias Correction, Altimetri Wind Speed Sea State Bias Correction, Altimetr Wind Speed Sea State Bias Correction, Altimetr Wind Speed Sea State Bias Correction, Altimetr Wind Speed Sea State Bias Correction. Altimetr Wind Speed Sea State Bias Correction

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	There is an error with the 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: 3

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220161227T005359_20161227T005411_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220161227T023134_20161227T023206_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220161227T052102_20161227T055426_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: 27

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220161227T002200_20161227T004912_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_220161227T023745_20161227T023853_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_220161227T025204_20161227T032532_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_220161227T040850_20161227T040912_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_220161227T043029_20161227T043317_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_220161227T062818_20161227T062850_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_220161227T062853_20161227T064340_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_220161227T070213_20161227T071436_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_220161227T075611_20161227T080529_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_220161227T080742_20161227T082235_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_220161227T085604_20161227T090902_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_220161227T101600_20161227T104251_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_220161227T111537_20161227T114107_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_220161227T121217_20161227T122212_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_220161227T125334_20161227T131957_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_220161227T133611_20161227T140909_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_220161227T143356_20161227T143512_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_220161227T161140_20161227T162510_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_220161227T165936_20161227T172653_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_220161227T183312_20161227T184105_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_220161227T184108_20161227T184921_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_220161227T185517_20161227T190245_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_220161227T201233_20161227T202703_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_220161227T210639_20161227T211247_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_220161227T211410_20161227T211641_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_220161227T215200_20161227T221613_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_220161227T225016_20161227T231638_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_220161227T002200_20161227T004912_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_220161227T023745_20161227T023853_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_220161227T025204_20161227T032532_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_220161227T040850_20161227T040912_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_220161227T043029_20161227T043317_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_220161227T062818_20161227T062850_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_220161227T062853_20161227T064340_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_220161227T070213_20161227T071436_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_220161227T075611_20161227T080529_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_220161227T080742_20161227T082235_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_220161227T085604_20161227T090902_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_220161227T101600_20161227T104251_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_220161227T111537_20161227T114107_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_220161227T121217_20161227T122212_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_220161227T125334_20161227T131957_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_220161227T133611_20161227T140909_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_220161227T143356_20161227T143512_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_220161227T161140_20161227T162510_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_220161227T165936_20161227T172653_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_220161227T183312_20161227T184105_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_220161227T184108_20161227T184921_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_220161227T185517_20161227T190245_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_220161227T201233_20161227T202703_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_220161227T210639_20161227T211247_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_220161227T211410_20161227T211641_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_220161227T215200_20161227T221613_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_220161227T225016_20161227T231638_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:
 49

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220161227T002200_20161227T004912_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_220161227T011415_20161227T013002_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_220161227T023745_20161227T023853_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_220161227T025204_20161227T032532_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_220161227T034152_20161227T040733_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_220161227T040850_20161227T040912_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_220161227T043029_20161227T043317_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_220161227T045930_20161227T050423_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_220161227T052102_20161227T055426_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_220161227T062620_20161227T062815_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_220161227T062818_20161227T062850_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_220161227T062853_20161227T064340_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_220161227T070213_20161227T071436_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_220161227T071623_20161227T073339_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_220161227T075611_20161227T080529_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_220161227T080742_20161227T082235_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_220161227T083807_20161227T084130_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_220161227T085604_20161227T090902_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_220161227T094611_20161227T100157_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_220161227T101600_20161227T104251_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_220161227T110443_20161227T110740_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_220161227T111537_20161227T114107_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_220161227T115538_20161227T120643_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_220161227T121217_20161227T122212_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_220161227T122522_20161227T122652_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_220161227T125334_20161227T131957_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_220161227T133611_20161227T140909_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_220161227T142149_20161227T142357_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_220161227T143356_20161227T143512_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_220161227T151443_20161227T153616_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_220161227T153902_20161227T154838_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_220161227T161140_20161227T162510_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_220161227T165936_20161227T172653_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_220161227T174656_20161227T181446_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_220161227T183312_20161227T184105_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_220161227T184108_20161227T184921_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_220161227T184925_20161227T185035_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_220161227T185517_20161227T190245_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_220161227T192351_20161227T193919_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_220161227T194133_20161227T195629_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_220161227T201233_20161227T202703_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_220161227T202843_20161227T203042_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_220161227T203045_20161227T204339_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_220161227T210639_20161227T211247_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_220161227T211410_20161227T211641_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_220161227T212253_20161227T213746_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_220161227T215200_20161227T221613_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_220161227T225016_20161227T231638_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_220161227T233343_20161227T235649_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag is set indicating the CFI Ocean Retracker was not successfully executed for one or more records.

# 7. QCC Report Analysis

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

Product type	Nb. Products	Nb. QCC Reports	Nb. Valid	Nb. Warnings	Nb. Errors
SIR1LRM_0_	166	166	166	0	0
SIR1SAR_0_	120	120	120	0	0
SIR1SIN_0_	104	104	104	0	0
SIR2SIN_0_	109	109	109	0	0
SIR_FDM_1B	166	166	166	0	0
SIR_FDM_2	166	166	166	0	0

### 7.1 QCC Errors

Number of QCC reports with errors:

7.2 QCC Warnings						
Number of QCC reports with warnings	0					
7.3 Missing QCC Reports						
Number of products with missing QCC reports:	0					

0

Number of products with missing QCC reports: