

# IDEAS+ Daily Report for FDM data:

## <u>18/10/2017</u>

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1. Overview				
		·		
Report Production Dat	e: 27-Oct-2017	Check	Status	
Report Froduction But	21-0012011	Server check: science-pds.cryosat.esa.int	Nominal	
Processor Used:	CryoSat Ice Processor	Server check: calval-pds.cryosat.esa.int	Nominal	
FIOCESSOI USEU.	Cryosal ice Frocessoi	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	
lission / Instrument News				
17-Oct-2017 None				
18-Oct-2017 None				
19-Oct-2017 Nothing plan	ned			

2 Glob	oal Coverage
Global Coverage - North Pole	Global Coverage - South Pole
	Surface Type Open Ocean Closed Sea Continental Ice Land

## 3. Instrument Configuration

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

SIRAL instrument(s) in use:	SIRAL - A	
Star Tracker(s) in use:	Star Tracker 1 & 2	
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 SP	'H in order to identify any inconsiste	ncies and/or errors raised by the processing chain.
Number of products with errors: 10		
Product	Test Failed	
CS_OPER_SIR1SAR_020171018T204413_20171018T204657_0001.HDR		g errors detected greater than minimum acceptable threshold.
CS_OPER_SIR1SAR_020171018T023458_20171018T024515_0001.HDR		g errors detected greater than minimum acceptable threshold.
CS_OPER_SIR1SAR_020171018T070014_20171018T070828_0001.HDR	Percentage of processing	g errors detected greater than minimum acceptable threshold.
CS_OPER_SIR1SAR_020171018T235416_20171019T000046_0001.HDR	Percentage of processing	g errors detected greater than minimum acceptable threshold.
CS_OPER_SIR1SAR_020171018T185933_20171018T190648_0001.HDR	Percentage of processing	g errors detected greater than minimum acceptable threshold.
CS_OPER_SIR1SIN_0_20171018T005252_20171018T005347_0001.HDR	Percentage of processing	g errors detected greater than minimum acceptable threshold.
CS_OPER_SIR1SIN_0_20171018T134041_20171018T134405_0001.HDR	Percentage of processing	g errors detected greater than minimum acceptable threshold.
CS_OPER_SIR2SIN_020171018T072851_20171018T073446_0001.HDR	Percentage of processing	g errors detected greater than minimum acceptable threshold.
CS_OPER_SIR2SIN_020171018T063233_20171018T063451_0001.HDR	Percentage of processing	g errors detected greater than minimum acceptable threshold.
5. Level	1B FDM Data Qualit	y Check
5.1 L1B FDM Product Format Check		
Each product, retrieved and unpacked from the science server, is checked to ensur	re it consists of both an XML heade	r file (.HDR) and a binary product file (.DBL).
Number of products with errors: 0		
5.2 L1B FDM Product Header Analysis		
For all products, a series of pre-defined checks are carried out on the MPH and SP	PH in order to identify any inconsiste	ncies and/or errors raised by the ground-segment processing chain.
Number of products with errors: 0		
5.3 L1B FDM Star Tracker Usage Check		
Each product is checked in order to ensure a valid star tracker file has been used ir	n processing.	
Number of products with errors: 1		
Product	Test Failed	
CS_OFFL_SIR_FDM_1B_20171018T121315_20171018T121351_C001	No Star Tracker file used	in the processing of this product
5.4 L1B FDM Calibration Usage Check		
Each product is checked in order to ensure the necessary calibration files have bee	en used in processing	
Number of products with errors: 0	an dood in proceeding.	
5.5 L1B FDM Auxilary Data File Usage Check		
Each product is checked for missing Data Set Descriptors with respect to a pre-det	ermined baseline and also to check	the validity of Auxiliary Data Files is correct.
Number of products with errors: 0		·····
FALAD FRM Availing Ocean sting Free Obsets		
5.6 L1B FDM Auxiliary Correction Error Check		
CryoSat L1B data includes a correction error flag (field 54) for each measurement r	ecord. The bit value of this flag indi	cates 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 meas	surement record. The bit value of the	is flag indicates any problems when set.
Number of products with errors: 1		
Product	Test Failed	Description
CS_OFFL_SIR_FDM_1B_20171018T121315_20171018T121351_C001	Attitude correction missing	The attitude has not been corrected
6. Leve	el 2 FDM Data Quality	/ Check
6.1 L2 FDM Product Format Check		
Each product, retrieved and unpacked from the science server, is checked to ensur	re it consists of both an XML heade	r 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 SP	PH in order to identify any inconsiste	ncies and/or errors raised by the ground-segment processing chain.

# 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:
 0

#### 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.

38

Number of products with errors:

Product CS OFFL SIR FDM 2 20171018T000917 20171018T004342 C001 CS\_OFFL\_SIR\_FDM\_2\_\_20171018T005347\_20171018T005554\_C001 CS\_OFFL\_SIR\_FDM\_2\_\_20171018T014734\_20171018T022325\_C001 CS\_OFFL\_SIR\_FDM\_2\_\_20171018T024515\_20171018T024944\_C001 CS\_OFFL\_SIR\_FDM\_2\_\_20171018T025032\_20171018T030810\_C001 CS OFFL SIR FDM 2 20171018T032719 20171018T034358 C001 CS\_OFFL\_SIR\_FDM\_2\_\_20171018T034839\_20171018T040130\_C001 CS\_OFFL\_SIR\_FDM\_2\_\_20171018T041523\_20171018T043325\_C001 CS\_OFFL\_SIR\_FDM\_2\_\_20171018T043458\_20171018T044900\_C001 CS\_OFFL\_SIR\_FDM\_2\_\_20171018T050621\_20171018T052106\_C001 CS\_OFFL\_SIR\_FDM\_2\_\_20171018T052308\_20171018T053231\_C001 CS\_OFFL\_SIR\_FDM\_2\_\_20171018T055309\_20171018T061137\_C001 CS\_OFFL\_SIR\_FDM\_2\_\_20171018T061828\_20171018T062215\_C001 CS OFFL SIR FDM 2 20171018T062732 20171018T062957 C001 CS\_OFFL\_SIR\_FDM\_2\_\_20171018T073446\_20171018T080954\_C001 CS OFFL SIR FDM 2 20171018T082616 20171018T084922 C001 CS\_OFFL\_SIR\_FDM\_2\_\_20171018T092112\_20171018T093238\_C001 CS\_OFFL\_SIR\_FDM\_2\_\_20171018T100508\_20171018T103145\_C001 CS\_OFFL\_SIR\_FDM\_2\_\_20171018T105511\_20171018T112635\_C001 CS\_OFFL\_SIR\_FDM\_2\_\_20171018T123357\_20171018T130652\_C001 CS OFFL SIR FDM 2 20171018T132429 20171018T134041 C001 CS\_OFFL\_SIR\_FDM\_2\_\_20171018T141013\_20171018T144536\_C001 CS\_OFFL\_SIR\_FDM\_2\_\_20171018T150324\_20171018T153645\_C001 CS\_OFFL\_SIR\_FDM\_2\_\_20171018T160809\_20171018T160931\_C001 CS\_OFFL\_SIR\_FDM\_2\_\_20171018T160933\_20171018T162454\_C001 CS\_OFFL\_SIR\_FDM\_2\_\_20171018T165837\_20171018T171703\_C001 CS\_OFFL\_SIR\_FDM\_2\_\_20171018T173802\_20171018T174828\_C001 CS\_OFFL\_SIR\_FDM\_2\_\_20171018T175007\_20171018T180340\_C001 CS\_OFFL\_SIR\_FDM\_2\_\_20171018T182832\_20171018T183228\_C001 CS\_OFFL\_SIR\_FDM\_2\_\_20171018T183915\_20171018T184214\_C001 CS\_OFFL\_SIR\_FDM\_2\_\_20171018T184337\_20171018T185048\_C001 CS\_OFFL\_SIR\_FDM\_2\_\_20171018T192229\_20171018T194228\_C001 CS\_OFFL\_SIR\_FDM\_2\_\_20171018T204657\_20171018T204754\_C001 CS\_OFFL\_SIR\_FDM\_2\_\_20171018T205806\_20171018T212139\_C001 CS\_OFFL\_SIR\_FDM\_2\_\_20171018T222348\_20171018T222415\_C001 CS\_OFFL\_SIR\_FDM\_2\_\_20171018T222536\_20171018T222554\_C001 CS\_OFFL\_SIR\_FDM\_2\_\_20171018T225652\_20171018T230059\_C001 CS\_OFFL\_SIR\_FDM\_2\_\_20171018T231841\_20171018T235023\_C001

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

#### 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: 1

Product

CS\_OFFL\_SIR\_FDM\_2\_\_20171018T121315\_20171018T121351\_C001

Attitude correction missing

Test Failed

The attitude has not been corrected

Description

### 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: 24

Number of products with errors: 24		
Product	Test Failed	Description
CS_OFFL_SIR_FDM_220171018T000917_20171018T004342_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_220171018T005347_20171018T005554_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_220171018T014734_20171018T022325_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_220171018T024515_20171018T024944_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_220171018T032719_20171018T034358_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_220171018T034839_20171018T040130_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_220171018T050621_20171018T052106_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_220171018T052308_20171018T053231_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_220171018T055309_20171018T061137_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_220171018T073446_20171018T080954_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_220171018T082616_20171018T084922_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_220171018T092112_20171018T093238_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_220171018T100508_20171018T103145_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_220171018T123357_20171018T130652_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_220171018T141013_20171018T144536_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_220171018T160809_20171018T160931_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_220171018T160933_20171018T162454_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_220171018T165837_20171018T171703_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_220171018T173802_20171018T174828_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_220171018T183915_20171018T184214_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_220171018T184337_20171018T185048_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_220171018T192229_20171018T194228_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_220171018T204657_20171018T204754_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_220171018T231841_20171018T235023_C001	CFI Retracked Range Flag	The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #13, #14, #15 and #16 should be ignored for these records.

## 6.7 L2 FDM SWH and Backscatter Measurement Check

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

Number of products with errors:	24

Product	Test Failed	Description
		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	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	The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #41, #42, #43 and #44 should be ignored for these records.
		The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #41, #42, #43 and #44 should be ignored for these records.
	CFI Backscatter Status Flag, 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 ignored for these records.

CS_OFFL_SIR_FDM_2_20171018T034839_20171018T040130_C001 CFI Backscatter Status Flag, SWH Squared Averaging Status Flag	
ignored for these records.	uld be
CS_OFFL_SIR_FDM_2_20171018T050621_20171018T052106_C001 CFI Backscatter Status Flag, SWH Squared Averaging Status Flag Status F	
CS_OFFL_SIR_FDM_2_20171018T052308_20171018T053231_C001 CFI Backscatter Status Flag, SWH Squared Averaging Status Flag Status Flag Squared Averaging Status Flag Squared Averaging Status Flag Squared Averaging Status Flag Squared for these records.	
CS_OFFL_SIR_FDM_2_20171018T055309_20171018T061137_C001 CFI Backscatter Status Flag, SWH Squared Averaging Status Flag Status F	
CS_OFFL_SIR_FDM_2_20171018T073446_20171018T080954_C001 CFI Backscatter Status Flag, SWH Squared Averaging Status Flag Status F	
CS_OFFL_SIR_FDM_2_20171018T082616_20171018T084922_C001 CFI Backscatter Status Flag, SWH Squared Averaging Status Flag Status F	
CS_OFFL_SIR_FDM_2_20171018T092112_20171018T093238_C001 CFI Backscatter Status Flag, SWH Squared Averaging Status Flag Status F	
CS_OFFL_SIR_FDM_2_20171018T100508_20171018T103145_C001 CFI Backscatter Status Flag, SWH Squared Averaging Status Flag Status F	
CS_OFFL_SIR_FDM_2_20171018T123357_20171018T130652_C001 CFI Backscatter Status Flag, SWH Squared Averaging Status Flag Status F	
CS_OFFL_SIR_FDM_2_20171018T141013_20171018T144536_C001 CFI Backscatter Status Flag, SWH Squared Averaging Status Flag Status F	
CS_OFFL_SIR_FDM_2_20171018T160809_20171018T160931_C001 CFI Backscatter Status Flag, SWH Squared Averaging Status Flag Status Flag Status Flag Status Flag SWH indicating the values stored in fields #41, #42, #43 and #44 sho ignored for these records.	
CS_OFFL_SIR_FDM_2_20171018T160933_20171018T162454_C001 CFI Backscatter Status Flag, SWH Squared Averaging Status Flag Status F	
CS_OFFL_SIR_FDM_2_20171018T165837_20171018T171703_C001 CFI Backscatter Status Flag, SWH Squared Averaging Status Flag Status Flag Status Flag Status Flag SWH indicating the values stored in fields #41, #42, #43 and #44 sho ignored for these records.	
CS_OFFL_SIR_FDM_2_20171018T173802_20171018T174828_C001 CFI Backscatter Status Flag, SWH Squared Averaging Status Flag Status F	
CS_OFFL_SIR_FDM_2_20171018T183915_20171018T184214_C001 CFI Backscatter Status Flag, SWH Squared Averaging Status Flag Status Flag Status Flag Status Flag SWH indicating the values stored in fields #41, #42, #43 and #44 sho ignored for these records.	
CS_OFFL_SIR_FDM_2_20171018T184337_20171018T185048_C001 CFI Backscatter Status Flag, SWH Squared Averaging Status Flag Status F	
CS_OFFL_SIR_FDM_2_20171018T192229_20171018T194228_C001 CFI Backscatter Status Flag, SWH Squared Averaging Status Flag Status Flag Status Flag Status Flag SWH indicating the values stored in fields #41, #42, #43 and #44 sho ignored for these records.	
CS_OFFL_SIR_FDM_2_20171018T204657_20171018T204754_C001 CFI Backscatter Status Flag, SWH Squared Averaging Status Flag Status Flag Status Flag Status Flag SWH indicating the values stored in fields #41, #42, #43 and #44 sho ignored for these records.	
CS_OFFL_SIR_FDM_2_20171018T231841_20171018T235023_C001 CFI Backscatter Status Flag, SWH Squared Averaging Status Flag Status Flag fields #41, #42, #43 and #44 sho 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.

43

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220171018T000917_20171018T004342_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_220171018T005347_20171018T005554_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_220171018T014734_20171018T022325_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_220171018T024515_20171018T024944_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_220171018T025032_20171018T030810_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_220171018T032719_20171018T034358_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_220171018T034839_20171018T040130_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_220171018T043458_20171018T044900_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_220171018T050621_20171018T052106_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_220171018T052308_20171018T053231_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_220171018T055309_20171018T061137_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_220171018T061828_20171018T062215_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_220171018T073446_20171018T080954_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_220171018T082616_20171018T084922_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_220171018T090243_20171018T090245_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_220171018T092112_20171018T093238_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_220171018T100508_20171018T103145_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_220171018T103942_20171018T104223_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_220171018T105511_20171018T112635_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_220171018T121909_20171018T122155_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_220171018T123357_20171018T130652_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_220171018T132429_20171018T134041_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_220171018T141013_20171018T144536_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_220171018T150324_20171018T153645_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_220171018T154855_20171018T160327_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_220171018T160809_20171018T160931_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_220171018T160933_20171018T162454_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_220171018T164323_20171018T165623_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_220171018T165837_20171018T171703_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_220171018T173802_20171018T174828_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_220171018T175007_20171018T180340_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_220171018T182832_20171018T183228_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_220171018T183915_20171018T184214_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_220171018T184337_20171018T185048_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_220171018T185210_20171018T185420_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_220171018T192229_20171018T194228_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_220171018T204657_20171018T204754_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_220171018T205806_20171018T212139_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_220171018T213749_20171018T214827_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_220171018T222536_20171018T222554_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_220171018T223349_20171018T225440_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_220171018T225652_20171018T230059_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_220171018T231841_20171018T235023_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_	138	138	138	0	0
SIR1SAR_0_	92	92	92	0	0
SIR1SIN_0_	99	99	99	0	0
SIR2SIN_0_	102	102	102	0	0
SIR_FDM_1B	138	138	138	0	0
SIR_FDM_2	137	137	137	0	0

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