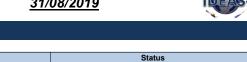


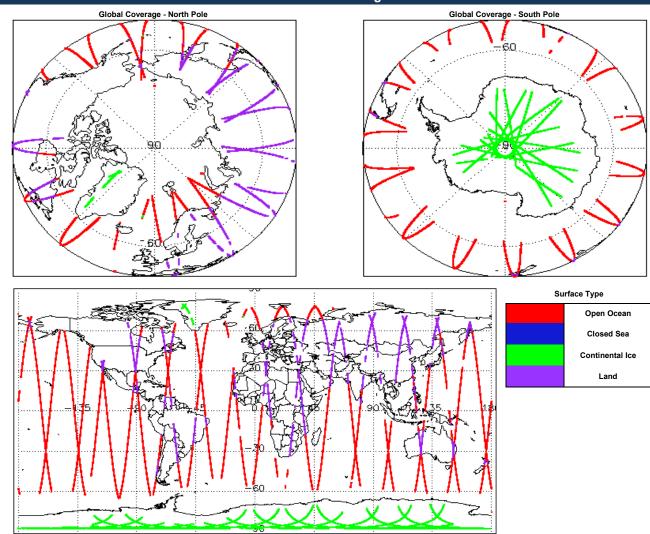
# IDEAS+ Daily Report for FDM data:

## <u>31/08/2019</u>



Report Production Date:         02-Sep-2019		Check	Status	
		Server check: science-pds.cryosat.esa.int	Nominal	
Processor Used: CrvoSat Ice Processor		Server check: calval-pds.cryosat.esa.int	Nominal	
Processor Used.	CryoSat Ice Processor	Product Software Check	Nominal	
Data Used:	L1 and L2 Fast Delivery Marine (FDM)	Product Format Check	Nominal	
Data Osec.	Mode and L0 Data	Product Header Analysis	See Section 4.2, 5.2 and 6.2	
		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 News				
30-Aug-2019 None				
31-Aug-2019 None				
01-Sep-2019 Nothing planned	t			
		2. Global Coverage		

1. Overview



# 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 in order to identify any inconsistencies and/or errors raised by the processing chain.

6

15

Number of products with erro	~ .	

Product	Test Failed
CS_OPER_SIR1SAR_020190831T025604_20190831T030219_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR1SAR_020190831T064719_20190831T065249_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR2SIN_020190831T122930_20190831T123058_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR2SIN_020190831T082038_20190831T082337_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR2SIN_020190831T015823_20190831T015942_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR2SIN_020190831T190839_20190831T191134_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.

## 5. Level 1B FDM Data Quality Check

#### 5.1 L1B FDM Product Format Check

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

## 5.2 L1B FDM Product Header Analysis

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

Number of products with errors:

Product	Test Failed
CS_OFFL_SIR_FDM_1B_20190831T050139_20190831T050231_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_1B_20190831T105310_20190831T105642_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_1B_20190831T013929_20190831T014030_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_1B_20190831T113044_20190831T113044_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_1B_20190831T050019_20190831T050139_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_1B_20190831T105705_20190831T110032_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_1B_20190831T104659_20190831T104759_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_1B_20190831T105650_20190831T105659_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_1B_20190831T230801_20190831T231337_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_1B_20190831T102533_20190831T104611_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_1B_20190831T110356_20190831T113041_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_1B_20190831T000304_20190831T000902_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_1B_20190831T113047_20190831T113149_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_1B_20190831T014030_20190831T014052_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_1B_20190831T113154_20190831T113213_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).

#### 5.3 L1B FDM Star Tracker Usage Check

Each product is checked in order to ensure a valid star tracker file has been used in processing.

3

Number of products with errors:

Product	Test Failed
CS_OFFL_SIR_FDM_1B_20190830T235527_20190831T000304_C001	No Star Tracker file used in the processing of this product
CS_OFFL_SIR_FDM_1B_20190831T013929_20190831T014030_C001	No Star Tracker file used in the processing of this product
CS_OFFL_SIR_FDM_1B_20190831T050019_20190831T050139_C001	No Star Tracker file used in the processing of this product

#### 5.4 L1B FDM Calibration Usage Check

Each product is checked in order to ensure the necessary calibration files have been used in processing.

 Number of products with errors:
 0

#### 5.5 L1B FDM Auxilary Data File Usage Check

Each product is checked for missing Data Set Descriptors with respect to a pre-determined baseline and also to check the validity of Auxiliary Data Files is correct.

 Number of products with errors:
 0

# 5.6 L1B FDM Auxiliary Correction Error Check

Number of products with errors:

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CryoSat L1B data includes a correction error flag (field 54) for each measurement record. The bit value of this flag indicates any problems when set.			
Number of products with errors:	0		

4

#### 5.7 L1B FDM Measurement Confidence Data Check

CryoSat L1B data includes a measurement confidence flag (field 18) for each measurement record. The bit value of this flag indicates any problems when set.

Product	Test Failed	Description
CS_OFFL_SIR_FDM_1B_20190830T235527_20190831T000304_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20190831T013929_20190831T014030_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20190831T050019_20190831T050139_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20190831T095108_20190831T095837_C001	Block degraded, Echo error, TRK echo error	Data block degraded and not processed

## 6. Level 2 FDM Data Quality Check

### 6.1 L2 FDM Product Format Check

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

## 6.2 L2 FDM Product Header Analysis

For all products, a series of pre-defined checks are carried out on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain. Number of products with errors: 15

Test Failed
FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).

## 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.

40

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220190831T000304_20190831T000902_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_220190831T011023_20190831T013502_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_220190831T030413_20190831T030637_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_220190831T032252_20190831T032709_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_220190831T035111_20190831T041212_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_220190831T042027_20190831T042436_C001	Sea State Bias Correction	There is an error with the Sea State Bias Correction for one or more records
CS_OFFL_SIR_FDM_220190831T042941_20190831T043945_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_220190831T044131_20190831T044850_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_220190831T044945_20190831T045352_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_220190831T050139_20190831T050231_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_220190831T051615_20190831T051857_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_220190831T051916_20190831T052353_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_220190831T052532_20190831T055117_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_220190831T062323_20190831T064041_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_220190831T070403_20190831T071344_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_220190831T071547_20190831T073024_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_220190831T080418_20190831T082038_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_220190831T092521_20190831T094730_C001	Sea State Bias Correction	There is an error with the Sea State Bias Correction for one or more records
CS_OFFL_SIR_FDM_220190831T094756_20190831T095102_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_220190831T110356_20190831T113041_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_220190831T120404_20190831T122738_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_220190831T124351_20190831T131737_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_220190831T132900_20190831T133618_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_220190831T134212_20190831T134349_C001	Sea State Bias Correction	There is an error with the Sea State Bias Correction for one or more records
CS_OFFL_SIR_FDM_220190831T140607_20190831T140627_C001	Sea State Bias Correction	There is an error with the Sea State Bias Correction for one or more records
CS_OFFL_SIR_FDM_220190831T142347_20190831T145913_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_220190831T160226_20190831T163755_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_220190831T170017_20190831T170445_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_220190831T170519_20190831T172258_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_220190831T174213_20190831T175450_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_220190831T180331_20190831T181759_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_220190831T183024_20190831T184800_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_220190831T192109_20190831T193451_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_220190831T193758_20190831T194721_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_220190831T200934_20190831T202644_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_220190831T203223_20190831T204025_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_220190831T210051_20190831T211530_C001	Sea State Bias Correction	There is an error with the Sea State Bias Correction for one or more records
CS_OFFL_SIR_FDM_220190831T214932_20190831T222445_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_220190831T224108_20190831T230413_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_220190831T233722_20190901T000327_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:
 4

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220190830T235527_20190831T000304_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220190831T013929_20190831T014030_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220190831T050019_20190831T050139_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220190831T095108_20190831T095837_C001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo

## 6.6 L2 FDM Range Measurement Check

CryoSat L2 data includes a CFI (field 17) and OCOG (field 22) Range Averaging Status flag for each measurement record. The bit value of this flag indicates any problems when set. Number of products with errors: 29

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220190831T000304_20190831T000902_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_220190831T011023_20190831T013502_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_220190831T030413_20190831T030637_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_220190831T035111_20190831T041212_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_220190831T044131_20190831T044850_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_220190831T044945_20190831T045352_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_220190831T051615_20190831T051857_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_220190831T052532_20190831T055117_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_220190831T062323_20190831T064041_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_220190831T070403_20190831T071344_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_220190831T071547_20190831T073024_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_220190831T080418_20190831T082038_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_220190831T094756_20190831T095102_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_220190831T110356_20190831T113041_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_220190831T120404_20190831T122738_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_220190831T124351_20190831T131737_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_220190831T132900_20190831T133618_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_220190831T142347_20190831T145913_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	S_OFFL_SIR_FDM_220190831T160226_20190831T163755_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	S_OFFL_SIR_FDM_220190831T174213_20190831T175450_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	S_OFFL_SIR_FDM_220190831T180331_20190831T181759_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	S_OFFL_SIR_FDM_220190831T183024_20190831T184800_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	S_OFFL_SIR_FDM_220190831T192109_20190831T193451_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	S_OFFL_SIR_FDM_220190831T193758_20190831T194721_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	S_OFFL_SIR_FDM_220190831T200934_20190831T202644_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	S_OFFL_SIR_FDM_220190831T203223_20190831T204025_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	S_OFFL_SIR_FDM_220190831T214932_20190831T222445_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	S_OFFL_SIR_FDM_220190831T224108_20190831T230413_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	S_OFFL_SIR_FDM_220190831T233722_20190901T000327_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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Number of products with errors:

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.

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220190831T000304_20190831T000902_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_220190831T011023_20190831T013502_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_220190831T030413_20190831T030637_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_220190831T035111_20190831T041212_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_220190831T044131_20190831T044850_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_220190831T044945_20190831T045352_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_220190831T051615_20190831T051857_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_220190831T052532_20190831T055117_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_220190831T062323_20190831T064041_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_220190831T070403_20190831T071344_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_220190831T071547_20190831T073024_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_220190831T080418_20190831T082038_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_220190831T094756_20190831T095102_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_220190831T110356_20190831T113041_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_220190831T120404_20190831T122738_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_220190831T124351_20190831T131737_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_220190831T132900_20190831T133618_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_220190831T142347_20190831T145913_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_220190831T160226_20190831T163755_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_220190831T174213_20190831T175450_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_220190831T180331_20190831T181759_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_20190831T192109_20190831T193451_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_20190831T193758_20190831T194721_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_20190831T200934_20190831T202644_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_20190831T202934_20190831T204025_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_20190831T204025_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_20190831T204025_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_20190831T224108_20190831T230413_C001CFI Backscatt	CS_OFFL_SIR_FDM_220190831T183024_20190831T184800_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_20190831T193758_20190831T194721_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_20190831T200934_20190831T202644_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_20190831T203223_20190831T204025_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_20190831T204025_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_20190831T214932_20190831T22445_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_20190831T224108_20190831T230413_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	CS_OFFL_SIR_FDM_220190831T192109_20190831T193451_C001		indicating the values stored in fields #41, #42, #43 and #44 should be
CS_OFFL_SIR_FDM_2_20190831T200934_20190831T202644_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_20190831T203223_20190831T204025_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_20190831T214932_20190831T22445_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_20190831T224108_20190831T230413_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_20190831T224108_20190831T230413_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_20190831T233722_20190901T000327_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>CS_OFFL_SIR_FDM_220190831T193758_20190831T194721_C001</td> <td></td> <td>indicating the values stored in fields #41, #42, #43 and #44 should be</td>	CS_OFFL_SIR_FDM_220190831T193758_20190831T194721_C001		indicating the values stored in fields #41, #42, #43 and #44 should be
CS_OFFL_SIR_FDM_2_20190831T203223_20190831T204025_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_20190831T214932_20190831T22445_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_20190831T224108_20190831T230413_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_20190831T224108_20190831T230413_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_20190831T233722_20190901T000327_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_220190831T200934_20190831T202644_C001		indicating the values stored in fields #41, #42, #43 and #44 should be
CS_OFFL_SIR_FDM_2_20190831T214932_20190831T222445_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_20190831T224108_20190831T230413_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_20190831T230413_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_20190831T233722_20190901T000327_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_220190831T203223_20190831T204025_C001		indicating the values stored in fields #41, #42, #43 and #44 should be
CS_OFFL_SIR_FDM_2_20190831T224108_20190831T230413_C001       CFI Backscatter Status Flag, SWH       indicating the values stored in fields #41, #42, #43 and #44 should be ignored for these records.         CS_OFFL_SIR_FDM_2_20190831T233722_20190901T000327_C001       CFI Backscatter Status Flag, SWH       indicating the values stored in fields #41, #42, #43 and #44 should be ignored for these records.         CS_OFFL_SIR_FDM_2_20190831T233722_20190901T000327_C001       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	CS_OFFL_SIR_FDM_220190831T214932_20190831T222445_C001		indicating the values stored in fields #41, #42, #43 and #44 should be
CS_OFFL_SIR_FDM_220190831T233722_20190901T000327_C001 CI-I BackScatter Status Flag, SWH Single Averaging Status Flag, SWH indicating the values stored in fields #41, #42, #43 and #44 should be	CS_OFFL_SIR_FDM_220190831T224108_20190831T230413_C001		indicating the values stored in fields #41, #42, #43 and #44 should be
globa lot theory boolds.	CS_OFFL_SIR_FDM_220190831T233722_20190901T000327_C001		

## 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: 44

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220190831T000304_20190831T000902_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_220190831T002332_20190831T005324_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_220190831T011023_20190831T013502_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_220190831T014612_20190831T014749_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_220190831T015942_20190831T023301_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_220190831T030413_20190831T030637_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_220190831T033554_20190831T034825_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_220190831T035111_20190831T041212_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_220190831T044131_20190831T044850_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_220190831T044945_20190831T045352_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_220190831T051615_20190831T051857_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_220190831T051916_20190831T052353_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_220190831T052532_20190831T055117_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_220190831T062323_20190831T064041_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_220190831T070403_20190831T071344_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_220190831T071547_20190831T073024_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_220190831T074746_20190831T075911_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_220190831T080418_20190831T082038_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_220190831T085511_20190831T090903_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_220190831T092521_20190831T094730_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_220190831T094756_20190831T095102_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_220190831T102533_20190831T104611_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_220190831T110356_20190831T113041_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_220190831T120404_20190831T122738_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_220190831T124351_20190831T131737_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_220190831T132900_20190831T133618_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_220190831T134212_20190831T134349_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_220190831T140607_20190831T140627_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_220190831T142347_20190831T145913_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_220190831T160226_20190831T163755_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_220190831T170017_20190831T170445_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_220190831T170519_20190831T172258_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_220190831T174213_20190831T175450_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_220190831T175613_20190831T175850_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_220190831T180331_20190831T181759_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_220190831T183024_20190831T184800_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_2_20190831T184944_20190831T190357_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag is set indicating the CFI Ocean Retracker was not successfully executed for one or more records.CS_OFFL_SIR_FDM_2_20190831T192109_20190831T193451_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag is set indicating the CFI Ocean Retracking Quality FlagCS_OFFL_SIR_FDM_2_20190831T193758_20190831T194721_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag is set indicating the CFI Ocean Retracker was not successfully executed for one or more records.CS_OFFL_SIR_FDM_2_20190831T200934_20190831T202644_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag is set indicating the CFI Ocean Retracking Quality FlagCS_OFFL_SIR_FDM_2_20190831T203223_20190831T204025_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag is set indicating the CFI Ocean Retracking Quality Flag is set indicating the CFI Ocean Retracking Quality Flag is set indicating the CFI Ocean Retracker was not successfully executed for one or more records.CS_OFFL_SIR_FDM_2_20190831T203223_20190831T204025_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag is set indicating the CFI Ocean Retracking Quality Flag is set indicating the CFI Ocean Retracking Quality Flag is set indicating the CFI Ocean Retracking Quality Flag is set indicating the CFI Ocean Retracking Quality FlagCS_OFFL_SIR_FDM_2_20190831T204025_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag is set indicating the CFI Ocean Retracking Quality Flag is set indicating the CFI Ocean Retracker was not successfully executed for one or more records.CS_OFFL_SIR_FDM_2_20190831T20403_C001Ocean Retracking Quality FlagThe Oc			
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CS_OFFL_SIR_FDM_2_20190831T193758_20190831T194721_C001       Ocean Retracking Quality Flag       Retracker was not successfully executed for one or more records.         CS_OFFL_SIR_FDM_2_20190831T200934_20190831T202644_C001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag is set indicating the CFI Ocean Retracking Quality Flag         CS_OFFL_SIR_FDM_2_20190831T203223_20190831T204025_C001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag is set indicating the CFI Ocean Retracking Quality Flag is set indicating the CFI Ocean Retracking Quality Flag is set indicating the CFI Ocean Retracking Quality Flag is set indicating the CFI Ocean Retracking Quality Flag is set indicating the CFI Ocean Retracking Quality Flag is set indicating the CFI Ocean Retracking Quality Flag is set indicating the CFI Ocean Retracking Quality Flag is set indicating the CFI Ocean Retracker was not successfully executed for one or more records.         CS_OFFL_SIR_FDM_2_20190831T22445_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_2_20190831T224108_20190831T20413_C001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag is set indicating the CFI Ocean Retracking Quality Flag is set indicating the CFI Ocean Retracking Quality Flag         CS_OFFL_SIR_FDM_2_20190831T224108_20190831T20413_C001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag is set indicating the CFI Ocean Retracking Quality Flag is set indicating the CFI Ocean Retracking Quality Flag is set indicating the CFI Ocean Retracking Quality Flag is set indicating	CS_OFFL_SIR_FDM_220190831T192109_20190831T193451_C001	Ocean Retracking Quality Flag	
CS_OFFL_SIR_FDM_2_201908311200934_201908311202644_C001       Ocean Retracking Quality Flag       Retracker was not successfully executed for one or more records.         CS_OFFL_SIR_FDM_2_201908311203223_201908311204025_C001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag is set indicating the CFI Ocean Retracking Quality Flag         CS_OFFL_SIR_FDM_2_201908311204025_C001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag is set indicating the CFI Ocean Retracking Quality Flag         CS_OFFL_SIR_FDM_2_20190831122445_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_2_201908311224108_201908311220413_C001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag is set indicating the CFI Ocean Retracking Quality Flag         CS_OFFL_SIR_FDM_2_201908311224108_201908311230413_C001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag is set indicating the CFI Ocean Retracking Quality Flag         CS_OFFL_SIR_FDM_2_201908311233722_201909011000327_C001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag is set indicating the CFI Ocean	CS_OFFL_SIR_FDM_220190831T193758_20190831T194721_C001	Ocean Retracking Quality Flag	
CS_OFFL_SIR_FDM_2_201908311203223_201908311204025_C001       Ocean Retracking Quality Flag       Retracker was not successfully executed for one or more records.         CS_OFFL_SIR_FDM_2_20190831T214932_20190831T222445_C001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag is set indicating the CFI Ocean Retracking Quality Flag         CS_OFFL_SIR_FDM_2_20190831T224108_20190831T222445_C001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag is set indicating the CFI Ocean Retracking Quality Flag is set indicating the CFI Ocean Retracking Quality Flag         CS_OFFL_SIR_FDM_2_20190831T224108_20190831T230413_C001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag is set indicating the CFI Ocean Retracking Quality Flag is set indicating the CFI Ocean         CS_OFFL_SIR_FDM_2_20190831T233722_20190901T000327_C001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag is set indicating the CFI Ocean	CS_OFFL_SIR_FDM_220190831T200934_20190831T202644_C001	Ocean Retracking Quality Flag	
CS_OFFL_SIR_FDM_2_201908311214932_201908311222445_C001 Ccean Retracking Quality Flag CS_OFFL_SIR_FDM_2_201908311224108_2019083112230413_C001 Ccean Retracking Quality Flag CS_OFFL_SIR_FDM_2_201908311224108_201908311230413_C001 Ccean Retracking Quality Flag CS_OFFL_SIR_FDM_2_201908311224108_2019083112230413_C001 Ccean Retracking Quality Flag CS_OFFL_SIR_FDM_2_201908311223022_201909011000327_C001 CCEAN Retracking Quality Flag CS_OFFL_SIR_FDM_2_201908311233722_201909011000327_C001 CCEAN Retracking Quality Flag CS_OFFL_SIR_FDM_2_201908311230413_C001 CCEAN Retracking Quality Flag CS_OFFL_SIR_FDM_2_201908311233722_201909011000327_C001 CCEAN Retracking Quality Flag CS_OFFL_SIR_FDM_2_201908311233722_201908311233722_201908311233722_201908311233722_201908311233722_201908311233722_201908311233722_201908311233722_201908311233722_201908311233722_201908311233722_201908311233722_201908311233722_201908311233722_201908311233722_201908311233722_2	CS_OFFL_SIR_FDM_220190831T203223_20190831T204025_C001	Ocean Retracking Quality Flag	
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	CS_OFFL_SIR_FDM_220190831T224108_20190831T230413_C001	Ocean Retracking Quality Flag	
	CS_OFFL_SIR_FDM_220190831T233722_20190901T000327_C001	Ocean Retracking Quality Flag	

# 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_	146	146	146	0	0
SIR1SAR_0_	145	101	101	0	0
SIR1SIN_0_	108	108	108	0	0
SIR_FDM_1B	146	145	146	0	0
SIR_FDM_2	145	145	145	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: 111					