

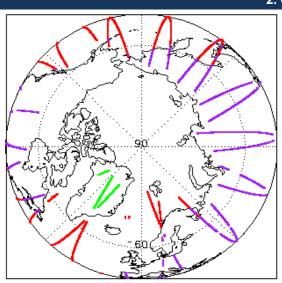
# 1. Overview

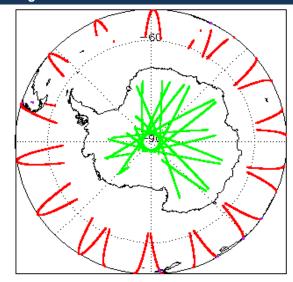
Report Production Date:	15-Jun-2020
Processor Used:	CryoSat Ice Processor
Data Used:	L1 and L2 Fast Delivery Marine (FDM)  Mode and L0 Data

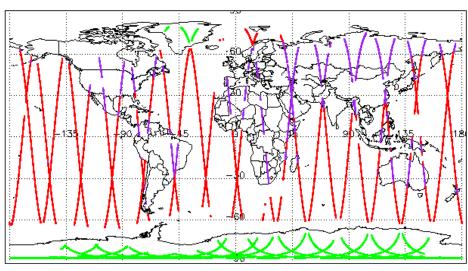
Check	Status
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	See Section 4.2, 5.2 and 6.2
Star Tracker Usage Check	See Section 5.3
Calibration Usage Check	Nominal
Auxiliary 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
QCC Error/ Warning Check	See Section 7.1 and 7.2

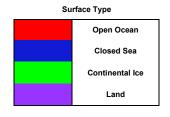
Mi	Mission / Instrument News		
1	1-Jun-2020	None	
1	2-Jun-2020	None	
1	3-Jun-2020	Nothing planned	

# 2. Global Coverage









# 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

#### 4.2 L0 Product Header Analysis

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

Number of products with errors:

Product	Test Failed
CS_OPER_SIR1SAR_020200612T014113_20200612T014420_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS OPER SIR2SIN 0 20200612T132907 20200612T133029 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:

#### 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_20200612T090255_20200612T090848_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_1B_20200612T090848_20200612T091007_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_1B_20200612T104304_20200612T104523_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_1B_20200612T122331_20200612T122358_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_1B_20200612T122358_20200612T122501_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_1B_20200612T154744_20200612T154752_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_1B_20200612T154752_20200612T155040_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.

Number of products with errors:

Product	Test Failed
CS_OFFL_SIR_FDM_1B_20200612T090255_20200612T090848_C001	No Star Tracker file used in the processing of this product
CS_OFFL_SIR_FDM_1B_20200612T122331_20200612T122358_C001	No Star Tracker file used in the processing of this product
CS_OFFL_SIR_FDM_1B_20200612T154744_20200612T154752_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:

## 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:

### 5.6 L1B FDM Auxiliary Correction Error Check

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:

### 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.

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_FDM_1B_20200612T033716_20200612T034908_C001		The tracking echo has returned an error and the Rx1 Echo Error flag is set, indicating a degraded echo
CS_OFFL_SIR_FDM_1B_20200612T090255_20200612T090848_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20200612T122331_20200612T122358_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20200612T154744_20200612T154752_C001	Attitude correction missing	The attitude has not been corrected

## 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:

## 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.

Product	Test Failed
CS_OFFL_SIR_FDM_220200612T090255_20200612T090848_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_220200612T090848_20200612T091007_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_220200612T104304_20200612T104523_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_220200612T122331_20200612T122358_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_220200612T122358_20200612T122501_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_220200612T154744_20200612T154752_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_220200612T154752_20200612T155040_C001.DBL	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.

Number of products with errors:

So SFEL SIR FDM 2 2020061270101894 202006127033052 COUNTY Speed State Bits Correction, Allmetric Wind Speed and Sea State	Product	Test Failed	Description
CS_OFFL_SIR_FDM_2_20020812T015717_2020812T03332_CO1  Sea State Bias Correction, Altimetric Correction for one or more records There is an error with the Altimetric Wind Speed and Sea State Bias Correction, Altimetric Correction for one or more records and the Altimetric Correction for Correction for one or more records and the Altimetric Correction for Correction for one or more records and the Altimetric Correction for Correction for one or more records and the Altimetric Correction for Correction for one or more records and the Altimetric Correction for one or more records and the Altimetric Correction for one or more records and the Altimetric Correction for one or more records and the Altimetric Correction for one or more records and the Altimetric Correction for one or more records and the Altimetric Correction for one or more records and the Altimetric Correction for one or more records and the Altimetric Correction for one or more records and the Altimetric Correction for one or more records and th		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 Slate Bias Correction, Allimetric Wind Speed and Sea Slate Bias Correction, Allimetric Wind Speed and Sea Slate Bias Correction for one or more records   CS_OFFL_SIR_FDM_2_20200612T035716_20200612T03540_C001	CS_OFFL_SIR_FDM_220200612T010431_20200612T010612_C001	Sea State Bias Correction, Altimetric	There is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more records
Sea State Bias Correction, Allmetric Cardio for one or more records  Sea State Bias Correction, Allmetric Cardio for one or more records  CS_OFFL_SIR_FDM_2_02006127033716_202006127035126_C001  Sea State Bias Correction, Allmetric Cardio for one or more records  CS_OFFL_SIR_FDM_2_02006127035136_202006127035104_C001  Wind Speed  CS_OFFL_SIR_FDM_2_02006127035136_202006127035104_C001  Sea State Bias Correction, Allmetric Cardio for one or more records  CS_OFFL_SIR_FDM_2_02006127035846_202006127044308_C001  Sea State Bias Correction, Allmetric Cardio for one or more records  CS_OFFL_SIR_FDM_2_02006127042613_202006127044308_C001  Sea State Bias Correction, Allmetric Cardio for one or more records  CS_OFFL_SIR_FDM_2_02006127042613_202006127045032_C001  Sea State Bias Correction, Allmetric Cardio for one or more records  CS_OFFL_SIR_FDM_2_020061705407_202006127054034_C001  Sea State Bias Correction, Allmetric Cardio for one or more records  CS_OFFL_SIR_FDM_2_0200061705407_20200617054034_C001  Sea State Bias Correction, Allmetric Cardio for one or more records  CS_OFFL_SIR_FDM_2_020006170540338_202006127054034_C001  Sea State Bias Correction, Allmetric Cardio for one or more records  CS_OFFL_SIR_FDM_2_020006170540338_202006127052010_C001  Sea State Bias Correction, Allmetric Cardio for one or more records  CS_OFFL_SIR_FDM_2_020006170540338_202006127052010_C001  Sea State Bias Correction, Allmetric Cardio for one or more records  CS_OFFL_SIR_FDM_2_020006170540338_202006127052010_C001  Sea State Bias Correction, Allmetric Cardio for one or more records  CS_OFFL_SIR_FDM_2_0200061705403402_C001  Sea State Bias Correction, Allmetric Cardio for one or more records  CS_OFFL_SIR_FDM_2_020006170540338_20200612705603617_C001  Sea State Bias Correction, Allmetric Cardio for one or more records  CS_OFFL_SIR_FDM_2_020006170540338_20200612705603617_C001  Sea State Bias Correction, Allmetric Cardio for one or more records  CS_OFFL_SIR_FDM_2_0200061270540_202006127105190_C001  Sea State Bias Correction, Allmetric Cardio for one or more	CS_OFFL_SIR_FDM_220200612T015717_20200612T023323_C001	Sea State Bias Correction, Altimetric	There is an error with the Altimetric Wind Speed and Sea State Bias
Wind Speed  CS_OFFL_SIR_FDM_2_202006127035030_202006127035126_CO01  Sea State Bias Correction, Altimetric Wind Speed and Sea State Bias Correction, Altimetric Wind Speed Agent Sea State Bias Correction For one or more records  For Speed Wind Speed Agent Sea State Bias Correction, Altimetric Wind Speed Agent Sea State Bias Correction For one or more records  For Speed Wind Speed Agent Sea State Bias Correction, Altimetric Wind Speed Agent Sea State Bias Correction, Altimetric Wind Speed Agent Sea State	CS_OFFL_SIR_FDM_220200612T025536_20200612T031816_C001	Sea State Bias Correction	There is an error with the Sea State Bias Correction for one or more records
Wind Speed  S. OFFL_SIR_FDM_2_20200612T03513_02020612T03540_CO01  Sea State Bias Correction, Altimetric Wind Speed and Sea State Bias Correction for one or more records  There is a nerror with the Altimetric Wind Speed and Sea State Bias Correction for one or more records  Sea State Bias Correction, Altimetric Wind Speed and Sea State Bias Correction for one or more records  Sea State Bias Correction, Altimetric Wind Speed and Sea State Bias Correction for one or more records  Sea State Bias Correction, Altimetric Wind Speed and Sea State Bias Correction for one or more records  Sea State Bias Correction, Altimetric Wind Speed and Sea State Bias Correction for one or more records  Sea State Bias Correction, Altimetric Wind Speed and Sea State Bias Correction for one or more records  Sea State Bias Correction, Altimetric Wind Speed and Sea State Bias Correction for one or more records  Sea State Bias Correction, Altimetric Wind Speed and Sea State Bias Correction for one or more records  Sea State Bias Correction, Altimetric Wind Speed and Sea State Bias Correction for one or more records  Sea State Bias Correction, Altimetric Wind Speed Correction for one or more records  Sea State Bias Correction, Altimetric Wind Speed and Sea State Bias Correction for one or more records  Sea State Bias Correction, Altimetric Wind Speed Correction for one or more records  Sea State Bias Correction, Altimetric Wind Speed and Sea State Bias Correction for one or more records  Sea State Bias Correction, Altimetric Wind Speed and Sea State Bias Correction for one or more records  There is an error with the Altimetric Wind Speed and Sea State Bias Correction, Altimetric Wind Speed Sea State Bia	CS_OFFL_SIR_FDM_220200612T033716_20200612T034908_C001		There is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more records
CS_OFFL_SIR_FDM_2_20200612T035346_20200612T044308_C001  Sa_STatle Bias Correction, Altimetric Wind Speed Correction for one or more records  Sa_STatle Bias Correction, Altimetric Wind Speed and Sa_STatle Bias Correction, Altimetric Wind Speed Correction for one or more records  Sa_STatle Bias Correction, Altimetric Wind Speed Correction for one or more records  Sa_STATLE Bias Correction, Altimetric Wind Speed and Sa_STATLE Bias Correction, Altimetric Wind Speed Correction for one or more records  Sa_STATLE Bias Correction, Altimetric Wind Speed and Sa_STATLE Bias Correction, Altimetric Wind Speed Correction for one or more records  Sa_STATLE Bias Correction, Altimetric Wind Speed and Sa_STATLE Bias Correction, Altimetric Wind Speed Correction for one or more records  Sa_STATLE Bias Correction, Altimetric Wind Speed And Sa_STATLE Bias Correction, Altimetric Wind Speed Correction for one or more records  Sa_STATLE Bias Correction, Altimetric Wind Speed And Sa_STATLE Bias Correction for one or more records  Cs_OFFL_SIR_FDM_2_20200612T104557_20200612T104557_2020612T104157_2020612T104557_2020612T104557_2020612T104557_2020612T104557_2020612T104557_2020612T104557_2020612T104557_2020612T104557_2020612T104557_2020612T104557_2020612T104557_2	CS_OFFL_SIR_FDM_220200612T035030_20200612T035128_C001		There is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more records
CS_OFFL_SIR_FDM_2_20200612T045433_20200612T055299_C001  Sas State Bias Correction, Altimetric Wind Speed and Sas State Bias Correction for one or more records  There is an error with the Altimetric Wind Speed and Sas State Bias Correction, Altimetric Wind Speed Correction for one or more records  Sas State Bias Correction, Altimetric Wind Speed and Sas State Bias Correction, Altimetric Wind Speed Sas State Bias Correction for one or more records  CS_OFFL_SIR_FDM_2_20200612T10557_20200612T105555_C001  Sas State Bias Correction, Altimetric Wind Speed Sas State Bias Correction for one or more records  CS_OFFL_SIR_FDM_2_20200612T10555_20200612T115555_C001  Sas State Bia	CS_OFFL_SIR_FDM_220200612T035135_20200612T035404_C001		
Sourcection for one or more records Saa State Bias Correction, Altimetric Wind Speed CS_OFFL_SIR_FDM_2_20200612T04593_20200612T052909_C001 Saa State Bias Correction, Altimetric Wind Speed CS_OFFL_SIR_FDM_2_20200612T051607_20200612T052909_C001 Saa State Bias Correction, Altimetric Wind Speed CS_OFFL_SIR_FDM_2_20200612T053335_20200612T054234_C001 Saa State Bias Correction, Altimetric Wind Speed CS_OFFL_SIR_FDM_2_20200612T060932_20200612T062010_C001 Saa State Bias Correction, Altimetric Wind Speed CS_OFFL_SIR_FDM_2_20200612T060932_20200612T060010_C001 Saa State Bias Correction, Altimetric Wind Speed CS_OFFL_SIR_FDM_2_20200612T060012_C001 Saa State Bias Correction, Altimetric Wind Speed Correction for one or more records There is an error with the Altimetric Wind Speed and Saa State Bias Correction for one or more records There is an error with the Altimetric Wind Speed and Saa State Bias Correction for one or more records Correction for one or more records Correction for one or more records There is an error with the Altimetric Wind Speed and Saa State Bias Correction for one or more records Correction for one or more records There is an error with the Altimetric Wind Speed and Saa State Bias Correction, Altimetric Wind Speed Correction for one or more records There is an error with the Altimetric Wind Speed and Saa State Bias Correction, Altimetric Wind Speed Correction for one or more records There is an error with the Altimetric Wind Speed and Saa State Bias Correction, Altimetric Wind Speed Correction for one or more records There is an error with the Altimetric Wind Speed and Saa State Bias Correction for one or more records There is an error with the Altimetric Wind Speed and Saa State Bias Correction for one or more records There is an error with the Altimetric Wind Speed and Saa State Bias Correction for one or more records There is an error with the Altimetric Wind Sp	CS_OFFL_SIR_FDM_220200612T035846_20200612T041312_C001		
CS_OFFL_SIR_FDM_2_20200612T052909_C001  CS_OFFL_SIR_FDM_2_20200612T052909_C001  CS_OFFL_SIR_FDM_2_20200612T052909_C001  CS_OFFL_SIR_FDM_2_20200612T0520335_20200612T052434_C001  CS_OFFL_SIR_FDM_2_20200612T052335_20200612T052434_C001  CS_OFFL_SIR_FDM_2_20200612T06032_20200612T062010_C001  CS_OFFL_SIR_FDM_2_20200612T06032_20200612T062010_C001  CS_OFFL_SIR_FDM_2_20200612T062733_20200612T0626558_C001  CS_OFFL_SIR_FDM_2_20200612T064447_20200612T062558_C001  CS_OFFL_SIR_FDM_2_20200612T064447_20200612T062007_C001  CS_OFFL_SIR_FDM_2_20200612T064447_20200612T062007_C001  CS_OFFL_SIR_FDM_2_20200612T064447_20200612T062007_C001  CS_OFFL_SIR_FDM_2_20200612T064447_20200612T068007_C001  CS_OFFL_SIR_FDM_2_20200612T063538_20200612T068007_C001  CS_OFFL_SIR_FDM_2_20200612T093211_20200612T065261_C001  CS_OFFL_SIR_FDM_2_20200612T093211_20200612T095261_C001  CS_OFFL_SIR_FDM_2_20200612T093211_20200612T095261_C001  CS_OFFL_SIR_FDM_2_20200612T104111_20200612T104115_C001  CS_OFFL_SIR_FDM_2_20200612T104111_20200612T104115_C001  CS_OFFL_SIR_FDM_2_20200612T104111_20200612T104115_C001  CS_OFFL_SIR_FDM_2_20200612T104557_20200612T105119_C001  CS_OFFL_SIR_FDM_2_20200612T110500_20200612T105119_C001  CS_OFFL_SIR_FDM_2_20200612T110500_20200612T113730_C001  CS_OFFL_SIR_FDM_2_20200612T115540_20200612T113725_C001  CS_OFFL_SIR_FDM_2_20200612T115586_20200612T113730_C001  CS_OFFL_SIR_FDM_2_20200612T115453_20200612T113730_C001  CS_OFFL_SIR_FDM_2_20200612T115453_20200612T113730_C001  CS_OFFL_SIR_FDM_2_20200612T115453_20200612T113730_C001  CS_OFFL_SIR_FDM_2_20200612T15586_20200612T113730_C001  CS_OFFL_SIR_FDM_2_20200612T15586_20200612T113730_C001  CS_OFFL_SIR_FDM_2_20200612T154536_20200612T113730_C001  CS_OFFL_SIR_FDM_2_20200612T155866_20200612T13133_C001  CS_OFFL_SIR_FDM_2_20200612T155866_20200612T13133_C001  CS_OFFL_SIR_FDM_2_20200612T155866_20200612T16333_C001  CS_OFFL_SIR_FDM_2_20200612T155866_20200612T16333_C001  CS_OFFL_SIR_FDM_2_20200612T155866_20200612T16333_C001  CS_OFFL_SIR_FDM_2_20200612T155866_20200612T16333_C001  CS_OFFL_SIR_FDM_2_20200612T155	CS_OFFL_SIR_FDM_220200612T042613_20200612T044308_C001	Wind Speed	Correction for one or more records
CS_OFFL_SIR_FDM_2_20200612T063335_20200612T054234_C001  CS_OFFL_SIR_FDM_2_20200612T060932_20200612T062010_C001  CS_OFFL_SIR_FDM_2_20200612T062733_20200612T063617_C001  CS_OFFL_SIR_FDM_2_20200612T064447_20200612T065256_C001  CS_OFFL_SIR_FDM_2_20200612T064447_20200612T065256_C001  CS_OFFL_SIR_FDM_2_20200612T064447_20200612T065256_C001  CS_OFFL_SIR_FDM_2_20200612T063638_20200612T082007_C001  CS_OFFL_SIR_FDM_2_20200612T063638_20200612T082007_C001  CS_OFFL_SIR_FDM_2_20200612T08338_20200612T085926_C001  CS_OFFL_SIR_FDM_2_20200612T083538_20200612T085926_C001  CS_OFFL_SIR_FDM_2_20200612T093211_20200612T085951_C001  CS_OFFL_SIR_FDM_2_20200612T093211_20200612T095851_C001  CS_OFFL_SIR_FDM_2_20200612T104111_20200612T104115_C001  CS_OFFL_SIR_FDM_2_20200612T104557_20200612T104119_C001  CS_OFFL_SIR_FDM_2_20200612T104557_20200612T105119_C001  CS_OFFL_SIR_FDM_2_20200612T104557_20200612T137730_C001  CS_OFFL_SIR_FDM_2_20200612T1245540_20200612T131725_C001  CS_OFFL_SIR_FDM_2_20200612T1245540_20200612T131725_C001  CS_OFFL_SIR_FDM_2_20200612T125560_20200612T131725_C001  CS_OFFL_SIR_FDM_2_20200612T151453_20200612T154814_C001  CS_OFFL_SIR_FDM_2_20200612T15453_20200612T16333_C001  CS_OFFL_SIR_FDM_2_20200612T155856_20200612T16333_C001  CS_OFFL_SIR_FDM_2_20200612T155856_20200612T16333_C001  CS_OFFL_SIR_FDM_2_20200612T155856_20200612T163528_C001  CS_OFFL_SIR_FDM_2_20200612T155856_20200612T163528_C001  CS_OFFL_SIR_FDM_2_20200612T155856_20200612T163528_C001  CS_OFFL_SIR_FDM_2_20200612T155856_20200612T163528_C001  CS_OFFL_SIR_FDM_2_20200612T155856_20200612T163528_C001  CS_OFFL_SIR_FDM_2_20200612T155856_20200612T163528_C001  CS_OFFL_SIR_FDM_2_20200612T155856_20200612T163528_C001  CS_OFFL_SIR_FDM_2_20200612T162127_20200612T163528_C001  CS_OFFL_SIR_FDM_2_20200612T162127_20200612T163528_C001  CS_OFFL_SIR_FDM_2_20200612T162127_20200612T163528_C001  CS_OFFL_SIR_FDM_2_20200612T162127_20200612T163528_C001  CS_OFFL_SIR_FDM_2_20200612T162127_20200612T163528_C001  CS_OFFL_SIR_FDM_2_20200612T162127_20200612T163528_C001  CS_OFFL_SIR_FDM_2_20200612T162127	CS_OFFL_SIR_FDM_220200612T044503_20200612T045923_C001	Wind Speed	There is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more records
S_OFFL_SIR_FDM_2_20200612T06932_20200612T062010_C001  Sea State Bias Correction, Altimetric Wind Speed and Sea State Bias Correction for one or more records  There is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more records  There is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more records  There is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more records  There is an error with the Altimetric Wind Speed and Sea State Bias Correction, Altimetric Wind Speed Correction for one or more records  There is an error with the Altimetric Wind Speed and Sea State Bias Correction, Altimetric Wind Speed Correction for one or more records  There is an error with the Altimetric Wind Speed and Sea State Bias Correction, Altimetric Wind Speed Correction for one or more records  There is an error with the Altimetric Wind Speed and Sea State Bias Correction, Altimetric Wind Speed and Sea State Bias Correction, Altimetric Wind Speed and Sea State Bias Correction for one or more records  There is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more records  There is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more records  There is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more records  There is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more records  There is an error with the Altimetric Wind Speed and Sea State Bias Correction, Altimetric Wind Speed Sea State Bias Correction, Altimetric Wind Speed and Sea State Bias Correction, Altimetric Wind Speed Sea State Bias	CS_OFFL_SIR_FDM_220200612T051607_20200612T052909_C001		There is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more records
CS_OFFL_SIR_FDM_2_20200612T062733_20200612T063617_C001  CS_OFFL_SIR_FDM_2_20200612T062733_20200612T065258_C001  CS_OFFL_SIR_FDM_2_20200612T064447_20200612T065258_C001  CS_OFFL_SIR_FDM_2_20200612T075745_20200612T082007_C001  CS_OFFL_SIR_FDM_2_20200612T083538_20200612T085926_C001  CS_OFFL_SIR_FDM_2_20200612T083538_20200612T085926_C001  CS_OFFL_SIR_FDM_2_20200612T083538_20200612T085926_C001  CS_OFFL_SIR_FDM_2_20200612T083538_20200612T085926_C001  CS_OFFL_SIR_FDM_2_20200612T083538_20200612T085926_C001  CS_OFFL_SIR_FDM_2_20200612T083538_20200612T085926_C001  CS_OFFL_SIR_FDM_2_20200612T083538_20200612T085926_C001  CS_OFFL_SIR_FDM_2_20200612T083538_20200612T085926_C001  CS_OFFL_SIR_FDM_2_20200612T083538_20200612T085926_C001  CS_OFFL_SIR_FDM_2_20200612T108101_C001  CS_OFFL_SIR_FDM_2_20200612T104111_20200612T104115_C001  CS_OFFL_SIR_FDM_2_20200612T104557_20200612T105119_C001  CS_OFFL_SIR_FDM_2_20200612T10500_20200612T105119_C001  CS_OFFL_SIR_FDM_2_20200612T10500_20200612T13730_C001  CS_OFFL_SIR_FDM_2_20200612T125540_20200612T13730_C001  CS_OFFL_SIR_FDM_2_20200612T125540_20200612T13730_C001  CS_OFFL_SIR_FDM_2_20200612T15453_20200612T154614_C001  CS_OFFL_SIR_FDM_2_20200612T154535_20200612T154614_C001  CS_OFFL_SIR_FDM_2_20200612T1545856_20200612T16333_C001  CS_OFFL_SIR_FDM_2_20200612T165856_20200612T16333_C001  CS_OFFL_SIR_FDM_2_20200612T165856_20200612T163528_C001  Wind Speed  CS_OFFL_SIR_FDM_2_20200612T165856_20200612T163528_C001	CS_OFFL_SIR_FDM_220200612T053335_20200612T054234_C001	Wind Speed	
Sea State Bias Correction, Altimetric Wind Speed and Sea State Bias Correction for one or more records  CS_OFFL_SIR_FDM_2_20200612T064447_20200612T085926_C001  CS_OFFL_SIR_FDM_2_20200612T083538_20200612T085926_C001  CS_OFFL_SIR_FDM_2_20200612T083538_20200612T085926_C001  CS_OFFL_SIR_FDM_2_20200612T093211_20200612T095851_C001  CS_OFFL_SIR_FDM_2_20200612T101411_20200612T104115_C001  CS_OFFL_SIR_FDM_2_20200612T104557_20200612T104115_C001  CS_OFFL_SIR_FDM_2_20200612T104557_20200612T105119_C001  CS_OFFL_SIR_FDM_2_20200612T104557_20200612T105119_C001  CS_OFFL_SIR_FDM_2_20200612T10500_20200612T105119_C001  CS_OFFL_SIR_FDM_2_20200612T10500_20200612T105119_C001  CS_OFFL_SIR_FDM_2_20200612T10500_20200612T105119_C001  CS_OFFL_SIR_FDM_2_20200612T124353_20200612T1252555_C001  CS_OFFL_SIR_FDM_2_20200612T125540_20200612T131725_C001  CS_OFFL_SIR_FDM_2_20200612T155856_20200612T154614_C001  CS_OFFL_SIR_FDM_2_20200612T155856_20200612T16333_C001  CS_OFFL_SIR_FDM_2_20200612T155856_20200612T163528_C001  CS_OFFL_SIR_FDM_2_20200612T155856_20200612T16333_C001  CS_OFFL_SIR_FDM_2_20200612T155856_20200612T163528_C001  CS_OFFL_SIR_FDM_2_20200612T155856_20200612T163528_C001	CS_OFFL_SIR_FDM_220200612T060932_20200612T062010_C001		
CS_OFFL_SIR_FDM_2_20200612T083538_20200612T085926_C001  CS_OFFL_SIR_FDM_2_20200612T083538_20200612T085926_C001  CS_OFFL_SIR_FDM_2_20200612T083538_20200612T095851_C001  CS_OFFL_SIR_FDM_2_20200612T093211_20200612T095851_C001  CS_OFFL_SIR_FDM_2_20200612T093211_20200612T095851_C001  CS_OFFL_SIR_FDM_2_20200612T101411_20200612T104115_C001  CS_OFFL_SIR_FDM_2_20200612T101411_20200612T105119_C001  CS_OFFL_SIR_FDM_2_20200612T104557_20200612T105119_C001  CS_OFFL_SIR_FDM_2_20200612T10500_20200612T105119_C001  CS_OFFL_SIR_FDM_2_20200612T10500_20200612T13730_C001  CS_OFFL_SIR_FDM_2_20200612T124353_20200612T125555_C001  CS_OFFL_SIR_FDM_2_20200612T125540_20200612T13775_C001  CS_OFFL_SIR_FDM_2_20200612T155856_20200612T154614_C001  CS_OFFL_SIR_FDM_2_20200612T155856_20200612T154614_C001  CS_OFFL_SIR_FDM_2_20200612T155856_20200612T16333_C001  CS_OFFL_SIR_FDM_2_20200612T155856_20200612T163528_C001  Wind Speed  Correction, Altimetric Wind Speed and Sea State Bias Correction, Altimetric Wind Speed  CS_OFFL_SIR_FDM_2_20200612T155856_20200612T163528_C001  Wind Speed  Correction, Altimetric Wind Speed and Sea State Bias Correction, Altimetric Wind Speed  CS_OFFL_SIR_FDM_2_20200612T155856_20200612T163528_C001  Wind Speed  Correction, Altimetric Wind Speed and Sea State Bias Correction, Altimetric Wind Speed  CS_OFFL_SIR_FDM_2_20200612T155856_20200612T16333_C001  CS_OFFL_SIR_FDM_2_20200612T155856_20200612T163528_C001  Wind Speed  CS_OFFL_SIR_FDM_2_20200612T156856_20200612T163528_C001  Wind Speed  CS_OFFL_SIR_FDM_2_20200612T162127_20200612T163528_C001  Wind Speed  CS_OFFL_SIR_FDM_2_20200612T162127_20200612T163528_C001	S_OFFL_SIR_FDM_220200612T062733_20200612T063617_C001		records
CS_OFFL_SIR_FDM_2_20200612T083538_20200612T085926_C001  CS_OFFL_SIR_FDM_2_20200612T093211_20200612T085951_C001  CS_OFFL_SIR_FDM_2_20200612T104111_20200612T104115_C001  CS_OFFL_SIR_FDM_2_20200612T104111_20200612T104115_C001  CS_OFFL_SIR_FDM_2_20200612T104557_20200612T104119_C001  CS_OFFL_SIR_FDM_2_20200612T10500_20200612T105119_C001  CS_OFFL_SIR_FDM_2_20200612T10500_20200612T105119_C001  CS_OFFL_SIR_FDM_2_20200612T10500_20200612T105109_C001  CS_OFFL_SIR_FDM_2_20200612T10500_20200612T10500_20200612T10500_2000612T105000_2000612T105000_2000612T10	CS_OFFL_SIR_FDM_220200612T064447_20200612T065258_C001	Wind Speed	
CS_OFFL_SIR_FDM_2_20200612T1083338_20200612T1098926_C001  CS_OFFL_SIR_FDM_2_20200612T1093211_20200612T104115_C001  CS_OFFL_SIR_FDM_2_20200612T104111_20200612T104115_C001  CS_OFFL_SIR_FDM_2_20200612T104557_20200612T105119_C001  CS_OFFL_SIR_FDM_2_20200612T10500_20200612T105119_C001  CS_OFFL_SIR_FDM_2_20200612T10500_202000612T10500_20200612T10500_202000612T105000_202000000000000000000000000000000	CS_OFFL_SIR_FDM_220200612T075745_20200612T082007_C001	Wind Speed	
Wind Speed  CS_OFFL_SIR_FDM_2_20200612T104111_20200612T104115_C001  CS_OFFL_SIR_FDM_2_20200612T104557_20200612T105119_C001  CS_OFFL_SIR_FDM_2_20200612T10500_20200612T105119_C001  CS_OFFL_SIR_FDM_2_20200612T10500_20200612T10500_20200612T10500_202000612T10500_20200612T10500_202000612T10500_202000612T105000_202000612T105000_202000612T105000_202000612T105000_202000000000000000000000000000000	CS_OFFL_SIR_FDM_220200612T083538_20200612T085926_C001	Wind Speed	
Wind Speed  Correction for one or more records  CS_OFFL_SIR_FDM_2_20200612T104557_20200612T105119_C001  CS_OFFL_SIR_FDM_2_20200612T10500_20200612T13730_C001  CS_OFFL_SIR_FDM_2_20200612T124353_20200612T125255_C001  CS_OFFL_SIR_FDM_2_20200612T124353_20200612T125255_C001  CS_OFFL_SIR_FDM_2_20200612T125540_20200612T131725_C001  CS_OFFL_SIR_FDM_2_20200612T125540_20200612T131725_C001  CS_OFFL_SIR_FDM_2_20200612T125540_20200612T154614_C001  CS_OFFL_SIR_FDM_2_20200612T15453_20200612T154614_C001  CS_OFFL_SIR_FDM_2_20200612T155856_20200612T161333_C001  CS_OFFL_SIR_FDM_2_20200612T155856_20200612T163528_C001  Wind Speed  Correction, Altimetric Wind Speed and Sea State Bias Correction, Altimetric Wind Speed  CS_OFFL_SIR_FDM_2_20200612T155856_20200612T163528_C001  Wind Speed  Correction, Altimetric Wind Speed and Sea State Bias Correction for one or more records  There is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more records  There is an error with the Altimetric Wind Speed and Sea State Bias Correction, Altimetric Wind Speed  CS_OFFL_SIR_FDM_2_20200612T155856_20200612T163528_C001  CS_OFFL_SIR_FDM_2_20200612T162127_20200612T163528_C001  Wind Speed  Correction, Altimetric Wind Speed and Sea State Bias Correction, Altimetric Wind Speed  Correction for one or more records  There is an error with the Altimetric Wind Speed and Sea State Bias Correction, Altimetric Wind Speed  Correction for one or more records  There is an error with the Altimetric Wind Speed and Sea State Bias Correction, Altimetric Wind Speed  Correction for one or more records  There is an error with the Altimetric Wind Speed and Sea State Bias Correction, Altimetric Wind Speed  Correction for one or more records	CS_OFFL_SIR_FDM_220200612T093211_20200612T095851_C001	Wind Speed	Correction for one or more records
CS_OFFL_SIR_FDM_2_20200612T10500_20200612T113730_C001  CS_OFFL_SIR_FDM_2_20200612T124353_20200612T125255_C001  CS_OFFL_SIR_FDM_2_20200612T125540_20200612T13725_C001  CS_OFFL_SIR_FDM_2_20200612T125540_20200612T137725_C001  CS_OFFL_SIR_FDM_2_20200612T15453_20200612T154614_C001  CS_OFFL_SIR_FDM_2_20200612T151453_20200612T154614_C001  CS_OFFL_SIR_FDM_2_20200612T155856_20200612T161333_C001  CS_OFFL_SIR_FDM_2_20200612T155856_20200612T163528_C001  CS_OFFL_SIR_FDM_2_20200612T162127_20200612T163528_C001  CS_OFFL_SIR_FDM_2_20200612T162127_20200612T163528_C001  Sea State Bias Correction, Altimetric Wind Speed and Sea State Bias Correction for one or more records  There is an error with the Altimetric Wind Speed and Sea State Bias Correction, Altimetric Wind Speed and Sea State Bias Correction for one or more records  There is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more records  There is an error with the Altimetric Wind Speed and Sea State Bias Correction, Altimetric Wind Speed and Sea State Bias Correction for one or more records  There is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more records  There is an error with the Altimetric Wind Speed and Sea State Bias Correction, Altimetric Wind Speed Sea State Bias Correction, Altimetric Wind Speed Sea State Bias Correction, Altimetric Wind Speed Sea State Bias Correction for one or more records	CS_OFFL_SIR_FDM_220200612T101411_20200612T104115_C001		There is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more records
CS_OFFL_SIR_FDM_2_20200612T153453_20200612T125255_C001  CS_OFFL_SIR_FDM_2_20200612T125540_20200612T131725_C001  CS_OFFL_SIR_FDM_2_20200612T125540_20200612T154614_C001  CS_OFFL_SIR_FDM_2_20200612T151453_20200612T154614_C001  CS_OFFL_SIR_FDM_2_20200612T155856_20200612T161333_C001  CS_OFFL_SIR_FDM_2_20200612T155856_20200612T163528_C001  Wind Speed  Sea State Bias Correction, Altimetric Wind Speed  Correction for one or more records  There is an error with the Altimetric Wind Speed and Sea State Bia Correction for one or more records  Sea State Bias Correction, Altimetric Wind Speed  CS_OFFL_SIR_FDM_2_20200612T155856_20200612T161333_C001  CS_OFFL_SIR_FDM_2_20200612T162127_20200612T163528_C001  Wind Speed  Correction, Altimetric Wind Speed  Correction for one or more records  There is an error with the Altimetric Wind Speed and Sea State Bia Correction, Altimetric Wind Speed  CS_OFFL_SIR_FDM_2_20200612T162127_20200612T163528_C001  Wind Speed  Correction, Altimetric Wind Speed  Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bia Correction, Altimetric Wind Speed  Correction for one or more records  There is an error with the Altimetric Wind Speed and Sea State Bia Correction for one or more records  Sea State Bias Correction, Altimetric Wind Speed  Correction for one or more records  There is an error with the Altimetric Wind Speed and Sea State Bia Correction for one or more records  There is an error with the Altimetric Wind Speed and Sea State Bia Correction for one or more records	CS_OFFL_SIR_FDM_220200612T104557_20200612T105119_C001	Sea State Bias Correction	There is an error with the Sea State Bias Correction for one or more records
Wind Speed  CS_OFFL_SIR_FDM_2_20200612T125540_2020612T131725_C001  CS_OFFL_SIR_FDM_2_20200612T15545_20200612T154614_C001  CS_OFFL_SIR_FDM_2_20200612T151453_20200612T154614_C001  CS_OFFL_SIR_FDM_2_20200612T155856_20200612T161333_C001  CS_OFFL_SIR_FDM_2_20200612T155856_20200612T161333_C001  CS_OFFL_SIR_FDM_2_20200612T162127_20200612T163528_C001  Wind Speed  Correction, Altimetric Wind Speed  Correction, Altimetric Wind Speed  Correction for one or more records  There is an error with the Altimetric Wind Speed and Sea State Bia Correction for one or more records  There is an error with the Altimetric Wind Speed and Sea State Bia Correction, Altimetric Wind Speed  CS_OFFL_SIR_FDM_2_20200612T162127_20200612T163528_C001  Wind Speed  Correction, Altimetric Wind Speed  Correction for one or more records  There is an error with the Altimetric Wind Speed and Sea State Bia Correction, Altimetric Wind Speed  Correction for one or more records  There is an error with the Altimetric Wind Speed and Sea State Bia Correction, Altimetric Wind Speed  Correction for one or more records	CS_OFFL_SIR_FDM_220200612T110500_20200612T113730_C001	Wind Speed	
Wind Speed  CS_OFFL_SIR_FDM_2_20200612T151453_20200612T154614_C001  CS_OFFL_SIR_FDM_2_20200612T155856_20200612T161333_C001  CS_OFFL_SIR_FDM_2_20200612T155856_20200612T161333_C001  CS_OFFL_SIR_FDM_2_20200612T162127_20200612T163528_C001  Wind Speed  Correction, Altimetric Wind Speed  Correction, Altimetric Wind Speed  Correction, Altimetric Wind Speed  Correction for one or more records  There is an error with the Altimetric Wind Speed and Sea State Bia Correction for one or more records  CS_OFFL_SIR_FDM_2_20200612T162127_20200612T163528_C001  Wind Speed  Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bia Correction, Altimetric Wind Speed  CS_OFFL_SIR_FDM_2_20200612T162127_20200612T163528_C001	CS_OFFL_SIR_FDM_220200612T124353_20200612T125255_C001		
Wind Speed  CS_OFFL_SIR_FDM_2_20200612T163453_20200612T16333_C001  CS_OFFL_SIR_FDM_2_20200612T162127_20200612T163528_C001  Wind Speed  Sea State Bias Correction, Altimetric Wind Speed  CS_OFFL_SIR_FDM_2_20200612T162127_20200612T163528_C001  Wind Speed  Correction for one or more records  There is an error with the Altimetric Wind Speed and Sea State Bias  Correction, Altimetric Wind Speed  Correction, Altimetric Wind Speed  Correction for one or more records  There is an error with the Altimetric Wind Speed and Sea State Bias  Correction for one or more records  Correction for one or more records	CS_OFFL_SIR_FDM_220200612T125540_20200612T131725_C001		
Wind Speed Correction for one or more records  CS_OFFL_SIR_FDM_2_20200612T162127_20200612T163528_C001  Wind Speed Correction, Altimetric Wind Speed and Sea State Bias Correction for one or more records  There is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more records	CS_OFFL_SIR_FDM_220200612T151453_20200612T154614_C001	Wind Speed	
Wind Speed Correction for one or more records	CS_OFFL_SIR_FDM_220200612T155856_20200612T161333_C001	Wind Speed	
	CS_OFFL_SIR_FDM_220200612T162127_20200612T163528_C001	Wind Speed	Correction for one or more records
CS_OFFL_SIR_FDM_2_202006121165308_202006121170629_C001 Wind Speed Correction for one or more records	CS_OFFL_SIR_FDM_220200612T165308_20200612T170629_C001	•	
CS_OFFL_SIR_FDM_2_202006121170843_202006121171018_C001  Wind Speed  Correction for one or more records	CS_OFFL_SIR_FDM_220200612T170843_20200612T171018_C001	Wind Speed	
Wind Speed Correction for one or more records	CS_OFFL_SIR_FDM_220200612T171037_20200612T172203_C001	Wind Speed	
CS_OFFL_SIR_FDM_2_202006121172341_202006121172510_C001  Wind Speed  Correction for one or more records	S_OFFL_SIR_FDM_220200612T172341_20200612T172510_C001	Wind Speed	
Wind Speed Correction for one or more records	S_OFFL_SIR_FDM_220200612T174811_20200612T175650_C001	Wind Speed	
Wind Speed Correction for one or more records	S_OFFL_SIR_FDM_220200612T175652_20200612T175833_C001		
CS_UFFL_SIR_FDM_2_202006121180013_202006121181418_C001 Sea State bias Correction records	S_OFFL_SIR_FDM_220200612T180013_20200612T181418_C001		
Use CS_OFFL_SIR_FDM_2_202006121184/51_202006121185221_C001 Wind Speed Correction for one or more records	S_OFFL_SIR_FDM_220200612T184751_20200612T185221_C001		
CS_OFFL_SIR_FDM_2_202006121185505_202006121190053_C001 Sea State Bias Correction records	S_OFFL_SIR_FDM_220200612T185505_20200612T190053_C001	Sea State Bias Correction	
CS_UFFL_SIR_FDM_2_202006121193203_202006121195251_C001 Sea State bias Correction records	CS_OFFL_SIR_FDM_220200612T193203_20200612T195251_C001	Sea State Bias Correction	
CS_OFFL_SIR_FDM_2_202006121200813_202006121203246_C001	CS_OFFL_SIR_FDM_220200612T200813_20200612T203246_C001		
CS_OFFL_SIR_FDM_Z_202006121210615_202006121213233_C001  Wind Speed  Correction for one or more records	CS_OFFL_SIR_FDM_220200612T210815_20200612T213233_C001		
CS_OFFL_SIR_FDM_2_20200612T214743_20200612T222019_C001  Sea State Bias Correction  There is an error with the Sea State Bias Correction for one or mo records	CS_OFFL_SIR_FDM_220200612T214743_20200612T222019_C001	Sea State Bias Correction	There is an error with the Sea State Bias Correction for one or more records

CS_OFFL_SIR_FDM_220200612T224420_20200612T230342_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_220200612T232735_20200613T000019_C001	Sea State Bias Correction	There is an error with the Sea State Bias Correction for one or more records

## 6.5 L2 FDM Measurement Confidence Data Check

CryoSat L2 data includes a measurement confidence flag (field 8) for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220200612T033716_20200612T034908_C001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo
CS_OFFL_SIR_FDM_220200612T090255_20200612T090848_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220200612T122331_20200612T122358_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220200612T154744_20200612T154752_C001	Attitude correction missing	The attitude has not been corrected

## 6.6 L2 FDM Range Measurement Check

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

Number of products with errors:

25

Product	Test Failed	Description
CS_OFFL_SIR_FDM_2_20200612T001834_20200612T005325_C001	CFI Retracked Range Flag	The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #13, #14, #15 and #16 should be ignored for these records.
CS_OFFL_SIR_FDM_2_20200612T015717_20200612T023323_C001	CFI Retracked Range Flag	The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #13, #14, #15 and #16 should be ignored for these records.
CS_OFFL_SIR_FDM_2_20200612T033716_20200612T034908_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_220200612T035030_20200612T035128_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_220200612T035135_20200612T035404_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_220200612T035846_20200612T041312_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_220200612T044503_20200612T045923_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_220200612T051607_20200612T052909_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_220200612T053335_20200612T054234_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_220200612T060932_20200612T062010_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_220200612T075745_20200612T082007_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_220200612T083538_20200612T085926_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_220200612T101411_20200612T104115_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_220200612T110500_20200612T113730_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_220200612T124353_20200612T125255_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_220200612T125540_20200612T131725_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_220200612T155856_20200612T161333_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_220200612T162127_20200612T163528_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_220200612T165308_20200612T170629_C001	CFI Retracked Range Flag	The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #13, #14, #15 and #16 should be ignored for these records.
CS_OFFL_SIR_FDM_2_20200612T170843_20200612T171018_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_220200612T171037_20200612T172203_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_220200612T174811_20200612T175650_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_220200612T184751_20200612T185221_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_220200612T210815_20200612T213233_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_220200612T224420_20200612T230342_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:

Product	Test Failed	Description
00.0551.010.5014.0.0000040700404.0000407005005.0004	CFI Backscatter Status Flag, SWH	The master fail flag is set by the CFI call, for one or more records,
CS_OFFL_SIR_FDM_220200612T001834_20200612T005325_C001	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_220200612T015717_20200612T023323_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_220200612T033716_20200612T034908_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_220200612T035030_20200612T035128_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_220200612T035135_20200612T035404_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_220200612T035846_20200612T041312_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_220200612T044503_20200612T045923_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_220200612T051607_20200612T052909_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_220200612T053335_20200612T054234_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_220200612T060932_20200612T062010_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_220200612T075745_20200612T082007_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_220200612T083538_20200612T085926_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_220200612T101411_20200612T104115_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_220200612T110500_20200612T113730_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_220200612T124353_20200612T125255_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_220200612T125540_20200612T131725_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_220200612T155856_20200612T161333_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_220200612T162127_20200612T163528_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_220200612T165308_20200612T170629_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_220200612T170843_20200612T171018_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_220200612T171037_20200612T172203_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_220200612T174811_20200612T175650_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_220200612T184751_20200612T185221_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_220200612T210815_20200612T213233_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_220200612T224420_20200612T230342_C001	CFI Backscatter Status Flag, SWH Squared Averaging Status Flag	The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #41, #42, #43 and #44 should be ignored for these records.

## 6.8 L2 FDM Ocean Retracking Quality Check

CryoSat L2 data includes an ocean retracking quality flag (field 66) for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_FDM_2_20200612T001834_20200612T005325_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_20200612T015717_20200612T023323_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_220200612T025536_20200612T031816_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_20200612T033716_20200612T034908_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_220200612T035030_20200612T035128_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_220200612T035135_20200612T035404_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_20200612T035846_20200612T041312_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_20200612T044503_20200612T045923_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_20200612T051607_20200612T052909_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_20200612T053029_20200612T053110_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_20200612T053335_20200612T054234_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_220200612T060932_20200612T062010_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_220200612T062733_20200612T063617_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_20200612T071554_20200612T071951_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_20200612T075401_20200612T075743_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_20200612T075745_20200612T082007_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_20200612T083538_20200612T085926_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_220200612T093211_20200612T095851_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_220200612T101411_20200612T104115_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_220200612T104557_20200612T105119_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_220200612T110500_20200612T113730_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_20200612T124353_20200612T125255_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_20200612T125540_20200612T131725_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_20200612T142026_20200612T145548_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_20200612T151453_20200612T154614_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_20200612T155856_20200612T161333_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_20200612T162127_20200612T163528_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_220200612T165308_20200612T170629_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_220200612T170843_20200612T171018_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_20200612T171037_20200612T172203_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_20200612T174811_20200612T175650_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_20200612T175652_20200612T175833_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_20200612T180013_20200612T181418_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_20200612T183642_20200612T184300_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_220200612T184751_20200612T185221_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_20200612T185505_20200612T190053_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_20200612T193203_20200612T195251_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_20200612T200813_20200612T203246_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_20200612T210815_20200612T213233_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_20200612T224420_20200612T230342_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_220200612T232735_20200613T000019_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	

# 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.

Due don't from	NIII Daniela de	NIII 000 Days and a	NII- Mallal	NII. W	NIL F
Product type	Nb. Products	Nb. QCC Reports	Nb. Valid	Nb. Warnings	Nb. Errors
SIR1LRM_0_	154	154	154	0	0
SIR1SAR_0_	101	101	101	0	0
SIR1SIN_0_	97	97	97	0	0
SIR2SIN_0_	101	101	101	0	0
SIR_FDM_1B	154	154	3	0	151
SIR FDM 2	1/10	1/10	96	53	0

# 7.1 QCC Errors

Number of QCC reports with errors:

151

Total number of occurrences of each error

Product Type	UVOB	-	-	-	-	-	-	-	-	-	-
SIR_FDM_1B	151										

Test Description Key:						
Abbreviation	Test name	Details				
UVOB	UnitVectorOrBlank_6	The three array elements should form a unit vector (using a scale factor of 10^-6)				

# 7.2 QCC Warnings

Product Type	MVSIO	MVSIOFD	RAGCOFOFD	RBSZO	RBSZOFD	RSSBCO	-	-	-	-	-
SIR_FDM_1B	0	0	1	0	0	0					
SIR_FDM_2_	41.00	41.00	0.00	43.00	49.00	16.00					

Test Description Key:							
Abbreviation	Test name	Details					
MVSIO	MissingValueShortIntOcean	The value should not be a 'missing value' for surface type 0 only					
MVSIOFD	MissingValueShortIntOceanFD2	The value should not be a 'missing value' for surface type 0 only					
RAGCOFOFD	RangeAGCOrFlaggedOceanFD3	The AGC should be between 0 and 6200 or the AGC_Inconsistency flag should be set for surface type = ocean					
RBSZO	RangeBackscatterSigmaZeroOcean	The backscatter sigma zero should be between 700 and 3000 (or missing) for surface type = ocean					
RBSZOFD	RangeBackscatterSigmaZeroOceanFD2	The backscatter sigma zero should be between 700 and 3000 (or missing) for surface type = ocean					
RSSBCO	RangeSeaStateBiasCorrectionOcean	The sea state bias correction should be between -500mm and 0mm (or missing) for surface type = ocean					

# 7.3 Missing QCC Reports

Number of products with missing QCC reports:

0