

QA4EO Daily Report for FDM data:

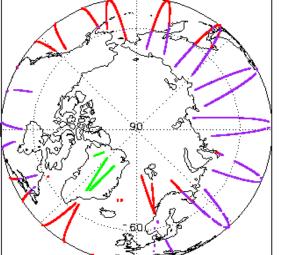
<u>16/06/2020</u>

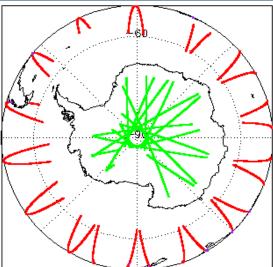
Report Production Date:	17-Jun-2020	Server check: science-pds.cryosat.esa.int	Nominal
Processor Used:	Description of the Description	Server check: calval-pds.cryosat.esa.int	Nominal
Processor Used: CryoSat Ice Processor	Product Software Check	Nominal	
Data Used:	L1 and L2 Fast Delivery Marine (FDM)	Product Format Check	Nominal
Data Oseu.	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
		QCC Error/ Warning Check	See Section 7.1 and 7.2

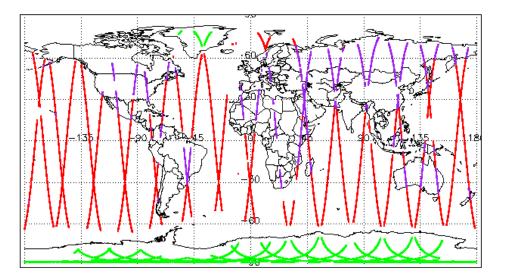
1. Overview

16-Jun-2020 17-Jun-2020	Nothing planned
16-Jun-2020	None

2. Global Coverage









Land

3. Instrument Configuration

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

SIRAL instrument(s) in use:	SIRAL - A
Star Tracker(s) in use:	Star Tracker 1

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

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.

7

Number of products with errors:

Product	Test Failed
CS_OPER_SIR1SAR_020200616T004827_20200616T005642_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR1SAR_020200616T024143_20200616T025031_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR1SAR_020200616T054802_20200616T054823_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR1SAR_020200616T122658_20200616T123524_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR1SIN_020200616T221549_20200616T222000_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR2SIN_020200616T073405_20200616T073719_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR2SIN_0_20200616T183849_20200616T184241_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: 8

Product	Test Failed
CS_OFFL_SIR_FDM_1B_20200616T085719_20200616T090342_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_1B_20200616T090342_20200616T090512_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_1B_20200616T103808_20200616T104029_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_1B_20200616T104029_20200616T104032_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_1B_20200616T121844_20200616T121908_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_1B_20200616T121908_20200616T122006_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_1B_20200616T154244_20200616T154326_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_1B_20200616T154326_20200616T154549_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.

4

Number of products with errors:

Product	Test Failed
CS_OFFL_SIR_FDM_1B_20200616T085719_20200616T090342_C001	No Star Tracker file used in the processing of this product
CS_OFFL_SIR_FDM_1B_20200616T103808_20200616T104029_C001	No Star Tracker file used in the processing of this product
CS_OFFL_SIR_FDM_1B_20200616T121844_20200616T121908_C001	No Star Tracker file used in the processing of this product
CS_OFFL_SIR_FDM_1B_20200616T154244_20200616T154326_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

0

6

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:

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.

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Product	Test Failed	Description
CS_OFFL_SIR_FDM_1B_20200616T060219_20200616T060402_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_20200616T085719_20200616T090342_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20200616T103808_20200616T104029_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20200616T121844_20200616T121908_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20200616T154244_20200616T154326_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20200616T155405_20200616T160841_C001		The tracking echo has returned an error and the Rx1 Echo Error flag is set, indicating a degraded echo

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: 35

CS_OFFL_SIR_FDM_220200616T010603_20200616T010623_C001.DBL Produ	duct filename start/stop differs slightly from start/stop validity due to rounding. duct filename start/stop differs slightly from start/stop validity due to rounding.
	duct filename start/stop differs slightly from start/stop validity due to rounding.
CS_OFFL_SIR_FDM_220200616T010717_20200616T010720_C001.DBL Produ	
	duct filename start/stop differs slightly from start/stop validity due to rounding.
CS_OFFL_SIR_FDM_220200616T011013_20200616T011608_C001.DBL Produ	duct filename start/stop differs slightly from start/stop validity due to rounding.
CS_OFFL_SIR_FDM_220200616T025031_20200616T031324_C001.DBL Produ	duct filename start/stop differs slightly from start/stop validity due to rounding.
CS_OFFL_SIR_FDM_220200616T032259_20200616T032451_C001.DBL Produ	duct filename start/stop differs slightly from start/stop validity due to rounding.
CS_OFFL_SIR_FDM_2_20200616T033228_20200616T034347_C001.DBL Produ	duct filename start/stop differs slightly from start/stop validity due to rounding.
CS_OFFL_SIR_FDM_220200616T034724_20200616T034912_C001.DBL Produ	duct filename start/stop differs slightly from start/stop validity due to rounding.
CS_OFFL_SIR_FDM_220200616T035354_20200616T040817_C001.DBL Produ	duct filename start/stop differs slightly from start/stop validity due to rounding.
CS_OFFL_SIR_FDM_220200616T051120_20200616T052315_C001.DBL Produ	duct filename start/stop differs slightly from start/stop validity due to rounding.
CS_OFFL_SIR_FDM_220200616T071358_20200616T071450_C001.DBL Produ	duct filename start/stop differs slightly from start/stop validity due to rounding.
CS_OFFL_SIR_FDM_220200616T071838_20200616T071916_C001.DBL Produ	duct filename start/stop differs slightly from start/stop validity due to rounding.
CS_OFFL_SIR_FDM_220200616T074907_20200616T081514_C001.DBL Produ	duct filename start/stop differs slightly from start/stop validity due to rounding.
CS_OFFL_SIR_FDM_220200616T085719_20200616T090342_C001.DBL Produ	duct filename start/stop differs slightly from start/stop validity due to rounding.
CS_OFFL_SIR_FDM_220200616T090342_20200616T090512_C001.DBL Produ	duct filename start/stop differs slightly from start/stop validity due to rounding.
CS_OFFL_SIR_FDM_220200616T103808_20200616T104029_C001.DBL FOS F	Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_220200616T104029_20200616T104032_C001.DBL FOS I	Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_220200616T121247_20200616T121341_C001.DBL Produ	luct filename start/stop differs slightly from start/stop validity due to rounding.
CS_OFFL_SIR_FDM_220200616T121844_20200616T121908_C001.DBL Produ	luct filename start/stop differs slightly from start/stop validity due to rounding.
CS_OFFL_SIR_FDM_220200616T121908_20200616T122006_C001.DBL FOS F	Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_220200616T132005_20200616T132413_C001.DBL FOS I	Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_220200616T134105_20200616T134548_C001.DBL Produ	duct filename start/stop differs slightly from start/stop validity due to rounding.
CS_OFFL_SIR_FDM_220200616T134914_20200616T135343_C001.DBL Produ	duct filename start/stop differs slightly from start/stop validity due to rounding.
CS_OFFL_SIR_FDM_220200616T150959_20200616T154113_C001.DBL Produ	duct filename start/stop differs slightly from start/stop validity due to rounding.
CS_OFFL_SIR_FDM_220200616T154244_20200616T154326_C001.DBL FOS F	S Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_220200616T154326_20200616T154549_C001.DBL Produ	duct filename start/stop differs slightly from start/stop validity due to rounding.
CS_OFFL_SIR_FDM_220200616T175521_20200616T180929_C001.DBL Produ	duct filename start/stop differs slightly from start/stop validity due to rounding.
CS_OFFL_SIR_FDM_220200616T182542_20200616T182702_C001.DBL Produ	duct filename start/stop differs slightly from start/stop validity due to rounding.
CS_OFFL_SIR_FDM_220200616T185013_20200616T185600_C001.DBL Produ	duct filename start/stop differs slightly from start/stop validity due to rounding.
CS_OFFL_SIR_FDM_220200616T191930_20200616T191936_C001.DBL Produ	duct filename start/stop differs slightly from start/stop validity due to rounding.
CS_OFFL_SIR_FDM_220200616T191953_20200616T192001_C001.DBL Produ	duct filename start/stop differs slightly from start/stop validity due to rounding.
CS_OFFL_SIR_FDM_220200616T192443_20200616T192514_C001.DBL Produ	duct filename start/stop differs slightly from start/stop validity due to rounding.
CS_OFFL_SIR_FDM_220200616T223924_20200616T225754_C001.DBL Produ	duct filename start/stop differs slightly from start/stop validity due to rounding.
CS_OFFL_SIR_FDM_220200616T230213_20200616T230701_C001.DBL Produ	duct filename start/stop differs slightly from start/stop validity due to rounding.
CS_OFFL_SIR_FDM_220200616T231022_20200616T231612_C001.DBL Produ	duct filename start/stop differs slightly from start/stop validity due to rounding.

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:

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:

39

0

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220200616T005934_20200616T010208_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_220200616T011856_20200616T013622_C001	Sea State Bias Correction	There is an error with the Sea State Bias Correction for one or more records
CS_OFFL_SIR_FDM_220200616T015232_20200616T022845_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_220200616T025031_20200616T031324_C001	Sea State Bias Correction	There is an error with the Sea State Bias Correction for one or more records
CS_OFFL_SIR_FDM_220200616T033228_20200616T034347_C001	Sea State Bias Correction	There is an error with the Sea State Bias Correction for one or more records
CS_OFFL_SIR_FDM_220200616T034355_20200616T034720_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_220200616T035354_20200616T040817_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_220200616T052348_20200616T052617_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_220200616T052839_20200616T053740_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_220200616T060503_20200616T061533_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_220200616T062223_20200616T063523_C001	Sea State Bias Correction	There is an error with the Sea State Bias Correction for one or more records
CS_OFFL_SIR_FDM_220200616T065040_20200616T070701_C001	Sea State Bias Correction	There is an error with the Sea State Bias Correction for one or more records
CS_OFFL_SIR_FDM_220200616T070935_20200616T071147_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_220200616T074907_20200616T081514_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_220200616T083044_20200616T085446_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_220200616T100913_20200616T103716_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_220200616T104105_20200616T104634_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_220200616T105955_20200616T113242_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_220200616T123853_20200616T124803_C001	Sea State Bias Correction	There is an error with the Sea State Bias Correction for one or more records
CS_OFFL_SIR_FDM_220200616T125047_20200616T131227_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_220200616T132822_20200616T134017_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_220200616T140355_20200616T140404_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_220200616T141535_20200616T145056_C001	Sea State Bias Correction	There is an error with the Sea State Bias Correction for one or more records
CS_OFFL_SIR_FDM_220200616T150959_20200616T154113_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_220200616T155405_20200616T160841_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_220200616T161422_20200616T163033_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_220200616T164801_20200616T170137_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_220200616T170507_20200616T171658_C001	Sea State Bias Correction	There is an error with the Sea State Bias Correction for one or more records
CS_OFFL_SIR_FDM_220200616T174322_20200616T175342_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_220200616T175521_20200616T180929_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_220200616T183023_20200616T183849_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_220200616T192620_20200616T194757_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_220200616T200319_20200616T202930_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_220200616T205226_20200616T205309_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_220200616T210308_20200616T212747_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_220200616T214254_20200616T221549_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_220200616T223924_20200616T225754_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_220200616T230213_20200616T230701_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_220200616T232245_20200616T235538_C001	Sea State Bias Correction, Altimetric Wind Speed	There is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more records

6.5 L2 FDM Measurement Confidence Data Check

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

 Number of products with errors:
 6

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220200616T060219_20200616T060402_C001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo
CS_OFFL_SIR_FDM_220200616T085719_20200616T090342_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220200616T103808_20200616T104029_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220200616T121844_20200616T121908_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220200616T154244_20200616T154326_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220200616T155405_20200616T160841_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: 22

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220200616T005934_20200616T010208_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_220200616T015232_20200616T022845_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_220200616T034355_20200616T034720_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_220200616T035354_20200616T040817_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_220200616T052348_20200616T052617_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_220200616T052839_20200616T053740_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_220200616T060503_20200616T061533_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_220200616T070935_20200616T071147_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_220200616T083044_20200616T085446_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_220200616T100913_20200616T103716_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_220200616T104105_20200616T104634_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_220200616T105955_20200616T113242_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_220200616T125047_20200616T131227_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_20200616T161422_20200616T163033_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_220200616T164801_20200616T170137_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_20200616T174322_20200616T175342_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_220200616T183023_20200616T183849_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_20200616T200319_20200616T202930_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_220200616T205226_20200616T205309_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_220200616T210308_20200616T212747_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_220200616T223924_20200616T225754_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_220200616T232245_20200616T235538_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:

22

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220200616T005934_20200616T010208_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_220200616T015232_20200616T022845_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_220200616T034355_20200616T034720_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_220200616T035354_20200616T040817_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_220200616T052348_20200616T052617_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_220200616T052839_20200616T053740_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_220200616T060503_20200616T061533_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_220200616T070935_20200616T071147_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_220200616T083044_20200616T085446_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_220200616T100913_20200616T103716_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_220200616T104105_20200616T104634_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_220200616T105955_20200616T113242_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_220200616T125047_20200616T131227_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_220200616T161422_20200616T163033_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_220200616T164801_20200616T170137_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_220200616T174322_20200616T175342_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_220200616T183023_20200616T183849_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_220200616T200319_20200616T202930_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_220200616T205226_20200616T205309_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_220200616T210308_20200616T212747_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_220200616T223924_20200616T225754_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_220200616T232245_20200616T235538_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:
 42

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220200616T001337_20200616T003549_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_220200616T003738_20200616T004826_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_220200616T005934_20200616T010208_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_220200616T015232_20200616T022845_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_220200616T033228_20200616T034347_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_220200616T034355_20200616T034720_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_220200616T034724_20200616T034912_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_220200616T035354_20200616T040817_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_220200616T042133_20200616T043759_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_220200616T044011_20200616T045444_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_220200616T052348_20200616T052617_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_220200616T052839_20200616T053740_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_220200616T060503_20200616T061533_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_220200616T062223_20200616T063523_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_220200616T065040_20200616T070701_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_220200616T070935_20200616T071147_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_220200616T074907_20200616T081514_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_220200616T083044_20200616T085446_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_220200616T092646_20200616T095352_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_220200616T100913_20200616T103716_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_220200616T104105_20200616T104634_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_220200616T105955_20200616T113242_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_220200616T123853_20200616T124803_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_220200616T125047_20200616T131227_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_220200616T141535_20200616T145056_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_220200616T150959_20200616T154113_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_220200616T155405_20200616T160841_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_220200616T161322_20200616T161418_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_220200616T161422_20200616T163033_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_220200616T164801_20200616T170137_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_220200616T170507_20200616T171658_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_220200616T174322_20200616T175342_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_220200616T175521_20200616T180929_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.
		Retracker was not successfully executed for one of more records.

CS_OFFL_SIR_FDM_2_20200616T184241_20200616T184730_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_20200616T192620_20200616T194757_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_20200616T200319_20200616T202930_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_20200616T205226_20200616T205309_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_20200616T210308_20200616T212747_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_20200616T214254_20200616T221549_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_20200616T223924_20200616T225754_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_20200616T232245_20200616T235538_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_OFF				
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CS_OFFL_SIR_FDM_2_202006161200319_202006161205309_C001 Ocean Retracking Quality Flag Retracker was not successfully executed for one or more records. CS_OFFL_SIR_FDM_2_202006167205226_202006167205309_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 CS_OFFL_SIR_FDM_2_202006167210308_202006167212747_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_202006167214254_202006167221549_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_202006167223924_202006167225754_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag is set indicating the CFI Ocean Retracking Quality Flag as to not successfully executed for one or more records. CS_OFFL_SIR_FDM_2_202006167223924_202006167225754_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag is set indicating the CFI Ocean Retracking Quality Flag as to not successfully executed for one or more records. CS_OFFL_SIR_FDM_2_202006167223924_202006167225754_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	(CS_OFFL_SIR_FDM_220200616T192620_20200616T194757_C001	Ocean Retracking Quality Flag	
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CS_OFFL_SIR_FDM_2_20200616T223924_20200616T225754_C001 Ocean Retracking Quality Flag Retracker was not successfully executed for one or more records. CS_OFFL_SIR_FDM_2_20200616T223924_20200616T225754_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag is set indicating the CFI Ocean Retracking Quality Flag CS_OFFL_SIR_FDM_2_20200616T223924_20200616T225754_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag is set indicating the CFI Ocean Retracking Quality Flag CS_OFFL_SIR_FDM_2_20200616T223924_20200616T225754_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag is set indicating the CFI Ocean	•	CS_OFFL_SIR_FDM_220200616T210308_20200616T212747_C001	Ocean Retracking Quality Flag	
CS_OFFL_SIR_FDM_2_202006161223924_20200616122554_C001 Ucean Retracking Quality Flag Retracker was not successfully executed for one or more records. The Ocean Retracking Quality Flag is set indicating the CFI Ocean	(CS_OFFL_SIR_FDM_220200616T214254_20200616T221549_C001	Ocean Retracking Quality Flag	
	•	CS_OFFL_SIR_FDM_220200616T223924_20200616T225754_C001	Ocean Retracking Quality Flag	
		CS_OFFL_SIR_FDM_220200616T232245_20200616T235538_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_	142	142	142	0	0
SIR1SAR_0_	105	105	105	0	0
SIR1SIN_0_	101	101	101	0	0
SIR2SIN_0_	107	107	107	0	0
SIR_FDM_1B	142	142	4	0	138
SIR_FDM_2	137	137	89	48	0

7.1 QCC Errors

Number of QCC reports with errors:

	Total number of occurrences of each error										
Product Type	UVOB	-	-	-	-	-	-	-	-	-	-
SIR_FDM_1B	138										
Test Description	Test Description Key:										
Abbreviation	Test na	ame		Details							
UVOB	UnitVect	UnitVectorOrBlank_6 The three array elements should form a unit vector (using a scale factor of 10^6)									

138

174

0

7.2 QCC Warnings

Number of QCC reports with warnings

	Total number of occurrences of each warning										
Product Type	MVSIO	MVSIOFD	RAGCOFOFD	RBSZO	RBSZOFD	RSSBCO	-	-	-	-	-
SIR_FDM_1B	0	0	1	0	0	0					
SIR_FDM_2_	39.00	43.00	0.00	37.00	43.00	11.00					

Test Description Key:	Fest 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: