



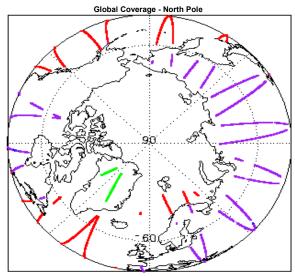
1. Overview

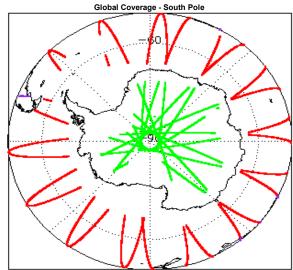
Report Production Date:	11-Mar-2019
Processor Used:	CryoSat Ice Processor
Data Used:	L1 and L2 Fast Delivery Marine (FDM) Mode and L0 Data

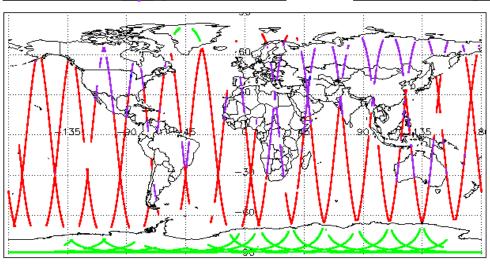
Check	Status
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	See Section 4.2
Star Tracker Usage Check	See Section 5.3
Calibration Usage Check	Nominal
Auxiliary Data File Usage Check	Nominal
Auxiliary Correction Error Check	See Section 6.4
Measurement Confidence Data Check	See Section 5.7, 6.5, 6.6, 6.7 and 6.8

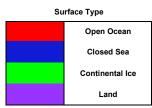
Mission / Instrument News		
08-Mar-201	9 None	
09-Mar-201	9 None	
10-Mar-201	9 Nothing planned	

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 % 2

4. Level 0 Data Quality Check

4.1 L0 Product Format Check

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

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:

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:

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_20190309T074611_20190309T074639_C001	No Star Tracker file used in the processing of this product
CS_OFFL_SIR_FDM_1B_20190309T105957_20190309T110120_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: 0

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_20190309T074611_20190309T074639_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20190309T105957_20190309T110120_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: 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:

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: 3

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

CS_OFFL_SIR_FDM_2_201903097107138_20190309710825_C010 Sea State Bias Correction Sea State Bias Correction Sea State Bias Correction There is an error with the Sea State Bias Correction for one or more records CS_OFFL_SIR_FDM_2_2019030970903097101635_C001 Sea State Bias Correction, Altimetric Wind Speed		O - Otata Bira O Altimateir	The section of the se
Sea State Bias Correction Sea State Bias Correc	CS_OFFL_SIR_FDM_220190309T042655_20190309T043022_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
Sea State Bias Correction Sea State Bias Correction, Allimetric Wind Speed Sea State Bias Correction, A	CS_OFFL_SIR_FDM_220190309T071138_20190309T073659_C001	Sea State Bias Correction	records
Wind Speed Sc JFFL SIR FDM_2_201903099T094248_201903099T10635_C001 CS _OFFL_SIR_FDM_2_20190309F110641_20190309F110626_C001 CS _OFFL_SIR_FDM_2_20190309F110641_20190309F110626_C001 CS _OFFL_SIR_FDM_2_20190309F125957_20190309F133344_C001 CS _OFFL_SIR_FDM_2_20190309F14734_20190309F14632_C001 CS _OFFL_SIR_FDM_2_20190309F145658_20190309F145658_C001 CS _OFFL_SIR_FDM_2_20190309F145658_20190309F145658_C001 CS _OFFL_SIR_FDM_2_20190309F145658_20190309F151316_C001 CS _OFFL_SIR_FDM_2_20190309F145658_20190309F169556_C001 CS _OFFL_SIR_FDM_2_20190309F177757_20190309F177758_C00190309F177758_C00190309F177758_C00190309F177758_C00190309F177758_C00190309F177758_C00190309F177758_C00190309F177758_C00190309F177758_C00190309F177758_C00190309F177758_C00190309F177758_C00190309F184437_C00190309F184438_C00	CS_OFFL_SIR_FDM_220190309T080830_20190309T081049_C001	Sea State Bias Correction	-
CS_OFFL_SIR_FDM_2_20190309T10842_20190309T110826_C001 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 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 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 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 and Sea State Bias Correction, Altimetric Wind Speed Sea State Bias Correction for on	CS_OFFL_SIR_FDM_220190309T085021_20190309T091823_C001	Wind Speed	Correction for one or more records
CS_OFFL_SIR_FDM_2_20190309T12959T_20190309T141632_C001 Saa State Bias Correction, Altimetric Wind Speed and Saa State Bias Correction for one or more records CS_OFFL_SIR_FDM_2_20190309T141632_C001 Saa State Bias Correction, Altimetric Wind Speed and Saa State Bias Correction for one or more records CS_OFFL_SIR_FDM_2_20190309T141648_20190309T142348_C001 Saa State Bias Correction, Altimetric Wind Speed and Saa State Bias Correction for one or more records CS_OFFL_SIR_FDM_2_20190309T142348_C001 Saa State Bias Correction, Altimetric Wind Speed and Saa State Bias Correction for one or more records CS_OFFL_SIR_FDM_2_20190309T142348_C001 Saa State Bias Correction, Altimetric Wind Speed and Saa State Bias Correction for one or more records CS_OFFL_SIR_FDM_2_20190309T16255_20190309T163553_C001 Saa State Bias Correction, Altimetric Wind Speed and Saa State Bias Correction for one or more records CS_OFFL_SIR_FDM_2_20190309T17728_20190309T170855_C001 Saa State Bias Correction, Altimetric Wind Speed and Saa State Bias Correction for one or more records CS_OFFL_SIR_FDM_2_20190309T17728_20190309T171942_C001 Saa State Bias Correction, Altimetric Wind Speed and Saa State Bias Correction for one or more records CS_OFFL_SIR_FDM_2_20190309T184166_20190309T183132_C001 Saa State Bias Correction, Altimetric Wind Speed and Saa State Bias Correction for one or more records CS_OFFL_SIR_FDM_2_20190309T194437_20190309T190829_C001 Saa State Bias Correction, 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 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 fo	CS_OFFL_SIR_FDM_220190309T094248_20190309T101635_C001	Wind Speed	Correction for one or more records
CS_OFFL_SIR_FDM_2_20190309T124734_20190309T144734_20190309T144734_20190309T144734_20190309T144734_20190309T144548_20190309T144548_20190309T145458_20190309T145658_20190309T145658_20190309T151316_C001 Sea State Bias Correction, Altimetric Wind Speed CS_OFFL_SIR_FDM_2_20190309T145658_20190309T151316_C001 Sea State Bias Correction, Altimetric Wind Speed CS_OFFL_SIR_FDM_2_20190309T165552_20190309T165553_C001 Sea State Bias Correction, Altimetric Wind Speed CS_OFFL_SIR_FDM_2_20190309T170757_20190309T1708555_C001 Sea State Bias Correction, Altimetric Wind Speed CS_OFFL_SIR_FDM_2_20190309T171728_20190309T171942_C001 Sea State Bias Correction, Altimetric Wind Speed CS_OFFL_SIR_FDM_2_20190309T181406_20190309T183132_C001 Sea State Bias Correction, Altimetric Wind Speed CS_OFFL_SIR_FDM_2_20190309T184437_20190309T190829_C001 Sea State Bias Correction, Altimetric Wind Speed CS_OFFL_SIR_FDM_2_20190309T184437_20190309T190829_C001 Sea State Bias Correction, Altimetric Wind Speed CS_OFFL_SIR_FDM_2_20190309T184526_20190309T201118_C001 Sea State Bias Correction, Altimetric Wind Speed CS_OFFL_SIR_FDM_2_20190309T194526_20190309T201118_C001 Sea State Bias Correction, Altimetric Wind Speed CS_OFFL_SIR_FDM_2_20190309T194526_20190309T20556_C001 Sea State Bias Correction, Altimetric Wind Speed CS_OFFL_SIR_FDM_2_20190309T204132_20190309T20556_C001 Sea State Bias Correction, Altimetric Wind Speed CS_OFFL_SIR_FDM_2_20190309T204132_20190309T205664_C001 Sea State Bias Correction, Altimetric Wind Speed CS_OFFL_SIR_FDM_2_20190309T204132_20190309T205664_C001 Sea State Bias Correction, Altimetric Wind Speed CS_OFFL_SIR_FDM_2_20190309T202310_20190309T225280_C001 Sea State Bias Correction, Altimetric Wind Speed CS_OFFL_SIR_FDM_2_20190309T204132_20190309T225280_C001 Sea State Bias Correction, Altimetric Wind Speed CS_OFFL_SIR_FDM_2_20190309T204132_20190309T225280_C001 Sea State Bias Correction, Altimetric Wind Speed CS_OFFL_SIR_FDM_2_20190309T22526_20190309T225380_C001 Sea State Bias Correction, Altimetric Wind Spe	CS_OFFL_SIR_FDM_220190309T110641_20190309T110826_C001	Wind Speed	Correction for one or more records
CS_OFFL_SIR_FDM_2_20190309T141648_20190309T14234B_C001 Sea State Bias Correction Sea State Bias Correction, Altimetric Wind Speed CS_OFFL_SIR_FDM_2_20190309T145658_20190309T17055_C001 CS_OFFL_SIR_FDM_2_20190309T17075_20190309T17055_C001 CS_OFFL_SIR_FDM_2_20190309T17075_20190309T17055_C001 CS_OFFL_SIR_FDM_2_20190309T17075_20190309T17055_C001 CS_OFFL_SIR_FDM_2_20190309T17075_20190309T17055_C001 CS_OFFL_SIR_FDM_2_20190309T184406_20190309T1942_C001 CS_OFFL_SIR_FDM_2_20190309T184406_20190309T1942_C001 CS_OFFL_SIR_FDM_2_20190309T184437_20190309T190829_C001 CS_OFFL_SIR_FDM_2_20190309T184437_20190309T190829_C001 CS_OFFL_SIR_FDM_2_20190309T184566_20190309T201118_C001 CS_OFFL_SIR_FDM_2_20190309T20344_20190309T201118_C001 CS_OFFL_SIR_FDM_2_20190309T20344_20190309T20566_C001 CS_OFFL_SIR_FDM_2_20190309T20344_20190309T205664_C001 CS_OFFL_SIR_FDM_2_20190309T2034132_20190309T205664_C001 CS_OFFL_SIR_FDM_2_20190309T20309T20309T24333_C001 CS_OFFL_SIR_FDM_2_20190309T202034_20190309T22300_C001 CS_OFFL_SIR_FDM_2_20190309T20309T20309T22300_C001 CS_OFFL_SIR_FDM_2_20190309T202344_20190309T22526_20190309T225211_C001 CS_OFFL_SIR_FDM_2_20190309T22526_20190309T225280_C001 CS_OFFL_SIR_FDM_2_20190309T22526_20190309T252508_C001 CS_OFFL_SIR_FDM_2_20190309T22526_20190309T252508_C001 CS_OFFL_SIR_FDM_2_20190309T22526_20190309T252508_C001 CS_OFFL_SIR_FDM_2_20190309T25256_20190309T252508_C001 CS_OFFL_SIR_FDM_2_20190309T25256_20190309T252508_C001 CS_OFFL_SIR_FDM_2_20190309T252508_20190309T252508_C001 CS_OFFL_SIR_FDM_2_20190309T252508_20190309T252508_C001 CS_OFFL_SIR_FDM_2_20190309T252508_20190309T252508_C001 CS_OFFL_SIR_FDM_2_20190309T252508_20190309T252508_C001 CS_OFFL_SIR_FDM_2_20190309T252508_20190309T25308_C001 CS_OFFL_SIR_FDM_2_20190309T252508_20190309T25308_C001 CS_OFFL_SIR_FDM_2_20190309T252508_20190309T252508_C001 CS_OFFL_SIR_FDM_2_20190309T252508_20190309T25308_C001 CS_OFFL_SIR_FDM_2_20190309T252508_20190309T252508_C001 CS_OFFL_SIR_FDM_2_20190309T252508_20190309T25308_C001 CS_OFFL_SIR_FDM_2_20190309T25009	CS_OFFL_SIR_FDM_220190309T125957_20190309T133344_C001	Wind Speed	
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S_OFFL_SIR_FDM_2_20190309T162525_20190309T163553_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, 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 Sea State Bias Correction, Altimetric Wind Speed Sea State Bias Correction, Altimetric Wind Speed Altimetric Wind Speed Sea State Bias Correction, Altimetric Wind Speed Sea State Bias Correction, Altimetric Wind Speed Altimetric Wind	CS_OFFL_SIR_FDM_220190309T141648_20190309T142348_C001	Sea State Bias Correction	records
CS_OFFL_SIR_FDM_2_20190309T170757_20190309T170855_C001 Wind Speed CS_OFFL_SIR_FDM_2_20190309T170757_20190309T170855_C001 CS_OFFL_SIR_FDM_2_20190309T171728_20190309T171942_C001 CS_OFFL_SIR_FDM_2_20190309T181406_20190309T183132_C001 CS_OFFL_SIR_FDM_2_20190309T1814437_20190309T190829_C001 CS_OFFL_SIR_FDM_2_20190309T1844437_20190309T201118_C001 CS_OFFL_SIR_FDM_2_20190309T194526_20190309T201118_C001 CS_OFFL_SIR_FDM_2_20190309T20344_20190309T203556_C001 CS_OFFL_SIR_FDM_2_20190309T202344_20190309T203556_C001 CS_OFFL_SIR_FDM_2_20190309T202344_20190309T205554_C001 CS_OFFL_SIR_FDM_2_20190309T202309_20190309T214333_C001 CS_OFFL_SIR_FDM_2_20190309T220310_20190309T223800_C001 CS_OFFL_SIR_FDM_2_20190309T2225108_20190309T225211_C001 CS_OFFL_SIR_FDM_2_20190309T225262_20190309T225308_C001 CS_OFFL_SIR_FDM_2_20190309T2252526_20190309T225308_C001 Sea State Bias Correction, Altimetric Wind Speed CS_OFFL_SIR_FDM_2_20190309T2252526_20190309T225308_C001 Sea State Bias Correction, Altimetric Wind Speed CS_OFFL_SIR_FDM_2_20190309T2252526_20190309T225308_C001 Sea State Bias Correction, Altimetric Wind Speed CS_OFFL_SIR_FDM_2_20190309T225262_20190309T225308_C001 Sea State Bias Correction 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 Ther	CS_OFFL_SIR_FDM_220190309T145658_20190309T151316_C001	Wind Speed	
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CS_OFFL_SIR_FDM_2_20190309T181406_20190309T183132_C001 CS_OFFL_SIR_FDM_2_20190309T184437_20190309T190829_C001 CS_OFFL_SIR_FDM_2_20190309T184437_20190309T190829_C001 CS_OFFL_SIR_FDM_2_20190309T194526_20190309T201118_C001 CS_OFFL_SIR_FDM_2_20190309T202344_20190309T201118_C001 CS_OFFL_SIR_FDM_2_20190309T202344_20190309T203556_C001 CS_OFFL_SIR_FDM_2_20190309T202344_20190309T205654_C001 CS_OFFL_SIR_FDM_2_20190309T204132_20190309T205654_C001 CS_OFFL_SIR_FDM_2_20190309T20209_20190309T214333_C001 CS_OFFL_SIR_FDM_2_20190309T2030	CS_OFFL_SIR_FDM_220190309T170757_20190309T170855_C001		
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CS_OFFL_SIR_FDM_2_20190309T194526_20190309T201118_C001 CS_OFFL_SIR_FDM_2_20190309T202344_20190309T203556_C001 CS_OFFL_SIR_FDM_2_20190309T202344_20190309T203556_C001 CS_OFFL_SIR_FDM_2_20190309T202344_20190309T205564_C001 CS_OFFL_SIR_FDM_2_20190309T202342_20190309T205554_C001 CS_OFFL_SIR_FDM_2_20190309T212209_20190309T214333_C001 CS_OFFL_SIR_FDM_2_20190309T212209_20190309T214333_C001 CS_OFFL_SIR_FDM_2_20190309T220310_20190309T223800_C001 CS_OFFL_SIR_FDM_2_20190309T225108_20190309T225211_C001 CS_OFFL_SIR_FDM_2_20190309T225206_20190309T225308_C001 CS_OFFL_SIR_FDM_2_20190309T225226_20190309T225308_C001 CS_OFFL_SIR_FDM_2_20190309T225206_20190309T225308_C001 CS_OFFL_SIR_FDM_2_20190309T225206_20190309T225308_C001 CS_OFFL_SIR_FDM_2_20190309T225206_20190309T225308_C001 CS_OFFL_SIR_FDM_2_20190309T225206_20190309T225308_C001 CS_OFFL_SIR_FDM_2_20190309T225206_20190309T225308_C001 CS_OFFL_SIR_FDM_2_20190309T225206_20190309T225308_C001 CS_OFFL_SIR_FDM_2_20190309T225206_20190309T225308_C001 CS_OFFL_SIR_FDM_2_20190309T225206_20190309T225308_C001 CS_OFFL_SIR_FDM_2_20190309T205206_20190309T225308_C001 CS_OFFL_SIR_FDM_2_20190309T205206_20190309T205308_C001 CS_OFFL_SIR_FDM_2_20190309T205	CS_OFFL_SIR_FDM_220190309T181406_20190309T183132_C001		·
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CS_OFFL_SIR_FDM_2_20190309T225108_20190309T225211_C001 CS_OFFL_SIR_FDM_2_20190309T225108_20190309T225211_C001 CS_OFFL_SIR_FDM_2_20190309T225108_20190309T225211_C001 CS_OFFL_SIR_FDM_2_20190309T225208_20190309T225201 CS_OFFL_SIR_FDM_2_20190309T225208_20190309T225308_C001 CS_OFFL_SIR_FDM_2_20190309T225208_20190309T225308_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 Sea State Bias Correction for one or more records Sea State Bias Correction, Altimetric Sea State Bias Correction, Altimetric There is an error with the Sea State Bias Correction for one or more records There is an error with the Altimetric Wind Speed and Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias Correction, Altimetric Wind Speed and Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias Correction There is an error with the Altimetric Wind Speed T	CS_OFFL_SIR_FDM_220190309T204132_20190309T205654_C001		·
Wind Speed Correction for one or more records CS_OFFL_SIR_FDM_2_20190309T225218_20190309T225211_C001 CS_OFFL_SIR_FDM_2_20190309T225226_20190309T225211_C001 CS_OFFL_SIR_FDM_2_20190309T225226_20190309T225208_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 Sea State Bias Correction, Altimetric Sea State Bias Correction, Altimetric There is an error with the Sea State Bias Correction for one or more records There is an error with the Altimetric Wind Speed and Sea State Bias Correction, Altimetric	CS_OFFL_SIR_FDM_220190309T212209_20190309T214333_C001		
CS_OFFL_SIR_FDM_2_20190309T225108_20190309T225211_C001 Wind Speed Correction for one or more records There is an error with the Sea State Bias Correction for one or more records Sea State Bias Correction, Altimetric Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias	CS_OFFL_SIR_FDM_220190309T220310_20190309T223800_C001		
CS_OFFL_SIR_FDM_2_201903091225226_201903091225308_C001 Sea State Bias Correction Sea State Bias Correction, Altimetric Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias	CS_OFFL_SIR_FDM_220190309T225108_20190309T225211_C001		·
	CS_OFFL_SIR_FDM_220190309T225226_20190309T225308_C001	Sea State Bias Correction	
Wind Speed Correction for one or more records	CS_OFFL_SIR_FDM_220190309T234240_20190310T000532_C001		·

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_220190309T074611_20190309T074639_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220190309T105957_20190309T110120_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:

Product	Test Failed	Description
CS_OFFL_SIR_FDM_2_20190309T013756_20190309T015535_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_220190309T021359_20190309T023232_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_220190309T035259_20190309T040836_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_20190309T041037_20190309T042000_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_220190309T085021_20190309T091823_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_20190309T094248_20190309T101635_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_220190309T125957_20190309T133344_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_20190309T145658_20190309T151316_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_220190309T162525_20190309T163553_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_220190309T181406_20190309T183132_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_20190309T204132_20190309T205654_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_220190309T212209_20190309T214333_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_220190309T220310_20190309T223800_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_220190309T234240_20190310T000532_C001	CFI Retracked Range Flag	The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #13, #14, #15 and #16 should be ignored for these records.

6.7 L2 FDM SWH and Backscatter Measurement Check

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220190309T013756_20190309T015535_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_220190309T021359_20190309T023232_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_220190309T035259_20190309T040836_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_220190309T041037_20190309T042000_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_220190309T085021_20190309T091823_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_220190309T094248_20190309T101635_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_220190309T125957_20190309T133344_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_220190309T145658_20190309T151316_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_220190309T162525_20190309T163553_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_220190309T181406_20190309T183132_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_220190309T204132_20190309T205654_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_220190309T212209_20190309T214333_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_220190309T220310_20190309T223800_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_220190309T234240_20190310T000532_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.

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Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220190309T003325_20190309T010806_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_220190309T013239_20190309T013700_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_220190309T013756_20190309T015535_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_220190309T021359_20190309T023232_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_220190309T032222_20190309T033615_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_220190309T035259_20190309T040836_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_220190309T041037_20190309T042000_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_220190309T044750_20190309T045922_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_220190309T053209_20190309T054742_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_220190309T062437_20190309T063410_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_220190309T063436_20190309T065827_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_220190309T071138_20190309T073659_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_220190309T080830_20190309T081049_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_220190309T081052_20190309T082003_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_220190309T082540_20190309T083726_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_220190309T085021_20190309T091823_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_220190309T094248_20190309T101635_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_220190309T112146_20190309T115558_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_220190309T125957_20190309T133344_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_220190309T134734_20190309T141632_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_220190309T144314_20190309T145052_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_220190309T145533_20190309T145656_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_220190309T145658_20190309T151316_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_220190309T153104_20190309T154351_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_220190309T154605_20190309T155803_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_220190309T162525_20190309T163553_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_220190309T163732_20190309T165235_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_220190309T171728_20190309T171942_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_220190309T172703_20190309T172942_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_220190309T173105_20190309T173806_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_220190309T181406_20190309T183132_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_220190309T184437_20190309T190829_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_220190309T194526_20190309T201118_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_220190309T202344_20190309T203556_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_220190309T204132_20190309T205654_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_220190309T212209_20190309T214333_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_20190309T220310_20190309T223800_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_220190309T225226_20190309T225308_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_20190309T231610_20190309T232044_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_20190309T232132_20190309T233021_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_20190309T234240_20190310T000532_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag is set indicating the CFI Ocean Retracker was not successfully executed for one or more records.

7. QCC Report Analysis

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

Product type	Nb. Products	Nb. QCC Reports	Nb. Valid	Nb. Warnings	Nb. Errors
SIR1LRM_0_	161	161	161	0	0
SIR1SAR_0_	110	110	110	0	0
SIR1SIN_0_	101	101	101	0	0
SIR2SIN_0_	103	103	103	0	0
SIR_FDM_1B	161	161	161	0	0
SIR FDM 2	159	159	159	0	0

7.1 QCC Errors

Number of QCC reports with errors:

0

7.2 QCC Warnings

Number of QCC reports with warnings

0

7.3 Missing QCC Reports

Number of products with missing QCC reports:

0