



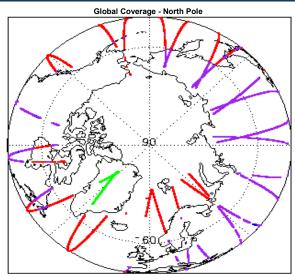
1. Overview

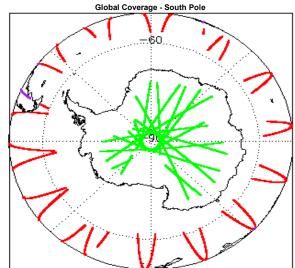
Report Production Date:	14-Oct-2019
Processor Used:	CryoSat Ice Processor
Data Used:	L1 and L2 Fast Delivery Marine (FDM) Mode and L0 Data

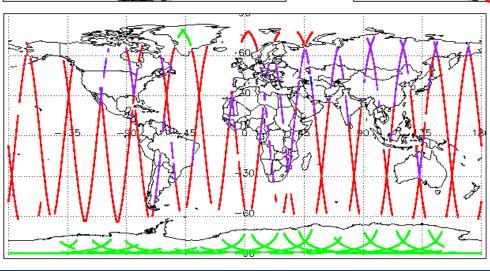
Check	Status
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	See Section 4.2, 5.2 and 6.2
Star Tracker Usage Check	See Section 5.3
Calibration Usage Check	Nominal
Auxiliary Data File Usage Check	Nominal
Auxiliary Correction Error Check	See Section 6.4
Measurement Confidence Data Check	See Section 5.7, 6.5, 6.6, 6.7 and 6.8

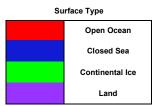
Mission / Instrument News		
11-Oct-2019	None	
12-Oct-2019	None	
13-Oct-2019	Nothing planned	

2. Global Coverage









3. Instrument Configuration

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

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

4. Level 0 Data Quality Check

4.1 L0 Product Format Check

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.

20

Number of products with errors:

Product CS_OPER_SIR1SAR_0__20191012T033401_20191012T033956_0001.HDR Percentage of processing errors detected greater than minimum acceptable threshold. CS_OPER_SIR1SAR_0_20191012T063854_20191012T064018_0001.HDR Percentage of processing errors detected greater than minimum acceptable threshold. CS_OPER_SIR1SAR_0__20191012T091246_20191012T092254_0001.HDR Percentage of processing errors detected greater than minimum acceptable threshold. CS_OPER_SIR1SAR_0__20191012T111643_20191012T111708_0001.HDR Percentage of processing errors detected greater than minimum acceptable threshold. CS_OPER_SIR1SAR_0__20191012T114925_20191012T115351_0001.HDR Percentage of processing errors detected greater than minimum acceptable threshold. CS_OPER_SIR1SAR_0__20191012T140735_20191012T141452_0001.HDR Percentage of processing errors detected greater than minimum acceptable threshold. CS_OPER_SIR1SAR_0__20191012T184404_20191012T185232_0001.HDR Percentage of processing errors detected greater than minimum acceptable threshold. CS OPER SIR1SAR 0 20191012T214708 20191012T214926 0001.HDR Percentage of processing errors detected greater than minimum acceptable threshold. CS_OPER_SIR1SIN_0_20191012T033224_20191012T033317_0001.HDR Percentage of processing errors detected greater than minimum acceptable threshold. CS_OPER_SIR1SIN_0__20191012T071727_20191012T071849_0001.HDR Percentage of processing errors detected greater than minimum acceptable threshold. CS OPER SIR1SIN 0 20191012T100910 20191012T101038 0001.HDR Percentage of processing errors detected greater than minimum acceptable threshold. CS_OPER_SIR1SIN_0__20191012T223421_20191012T224021_0001.HDR Percentage of processing errors detected greater than minimum acceptable threshold. CS_OPER_SIR1SIN_0__20191012T231526_20191012T231910_0001.HDR Percentage of processing errors detected greater than minimum acceptable threshold.

5. Level 1B FDM Data Quality Check

Percentage of processing errors detected greater than minimum acceptable threshold.

Percentage of processing errors detected greater than minimum acceptable threshold.

Percentage of processing errors detected greater than minimum acceptable threshold.

Percentage of processing errors detected greater than minimum acceptable threshold.

Percentage of processing errors detected greater than minimum acceptable threshold.

Percentage of processing errors detected greater than minimum acceptable threshold.

Percentage of processing errors detected greater than minimum acceptable threshold.

5.1 L1B FDM Product Format Check

CS OPER SIR2SIN 0 20191012T023443 20191012T023526 0001.HDR

CS_OPER_SIR2SIN_0_20191012T051001_20191012T051211_0001.HDR

CS OPER SIR2SIN 0 20191012T073024 20191012T073424 0001.HDR

CS_OPER_SIR2SIN_0_20191012T145852_20191012T150150_0001.HDR

CS_OPER_SIR2SIN_0__20191012T173352_20191012T173505_0001.HDR

CS_OPER_SIR2SIN_0__20191012T181341_20191012T181930_0001.HDR

CS_OPER_SIR2SIN_0__20191012T191601_20191012T191745_0001.HDR

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:

8

Product	Test Failed
CS_OFFL_SIR_FDM_1B_20191012T004850_20191012T004911_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_1B_20191012T004911_20191012T004925_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_1B_20191012T041225_20191012T041411_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_1B_20191012T041411_20191012T041546_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_1B_20191012T222006_20191012T222020_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_1B_20191012T222020_20191012T2222259_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_1B_20191012T235640_20191012T235815_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_1B_20191012T235815_20191012T235949_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).

5.3 L1B FDM Star Tracker Usage Check

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

Number of products with errors:

Product	Test Failed
CS_OFFL_SIR_FDM_1B_20191012T004850_20191012T004911_C001	No Star Tracker file used in the processing of this product
CS_OFFL_SIR_FDM_1B_20191012T041225_20191012T041411_C001	No Star Tracker file used in the processing of this product
CS_OFFL_SIR_FDM_1B_20191012T222006_20191012T222020_C001	No Star Tracker file used in the processing of this product
CS_OFFL_SIR_FDM_1B_20191012T235640_20191012T235815_C001	No Star Tracker file used in the processing of this product

5.4 L1B FDM Calibration Usage Check

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

Number of products with errors:

5.5 L1B FDM Auxilary Data File Usage Check

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

Number of products with errors:

5.6 L1B FDM Auxiliary Correction Error Check

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

Number of products with errors:

5.7 L1B FDM Measurement Confidence Data Check

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_FDM_1B_20191012T004850_20191012T004911_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20191012T041225_20191012T041411_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20191012T205938_20191012T210328_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_20191012T222006_20191012T222020_C001	Attitude correction missing	The attitude has not been corrected
CS OFFI SIR FDM 1B 20191012T235640 20191012T235815 C001	Attitude correction missing	The attitude has not been corrected

6. Level 2 FDM Data Quality Check

6.1 L2 FDM Product Format Check

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

Number of products with errors:

6.2 L2 FDM Product Header Analysis

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

Number of products with errors:

0

Product	Test Failed
CS_OFFL_SIR_FDM_1B_20191012T004850_20191012T004911_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_1B_20191012T004911_20191012T004925_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_1B_20191012T041225_20191012T041411_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_1B_20191012T041411_20191012T041546_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_1B_20191012T222006_20191012T222020_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_1B_20191012T222020_20191012T222259_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_1B_20191012T235640_20191012T235815_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_1B_20191012T235815_20191012T235949_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).

6.3 L2 FDM Auxiliary Data File Usage Check

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

Number of products with errors:

0

6.4 L2 FDM Auxiliary Correction Error Check

Each product is checked to detect auxiliary corrections flagged by the ground-station processing chain as missing or containing errors.

Number of products with errors:

30

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220191011T232930_20191012T000205_C001	Sea State Bias Correction	There is an error with the Sea State Bias Correction for one or more records
CS_OFFL_SIR_FDM_220191012T005144_20191012T005158_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_220191012T005258_20191012T005655_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_220191012T010836_20191012T011757_C001	Sea State Bias Correction	There is an error with the Sea State Bias Correction for one or more records
CS_OFFL_SIR_FDM_220191012T012042_20191012T014205_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_220191012T015934_20191012T020916_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_220191012T024534_20191012T032043_C001	Sea State Bias Correction	There is an error with the Sea State Bias Correction for one or more records
CS_OFFL_SIR_FDM_220191012T033956_20191012T041110_C001	Sea State Bias Correction, Mean Sea Surface height, Altimetric Wind Speed	There is an error with the Altimetric Wind Speed, the Sea State Bias Correction and the Mean Sea Surface Height for one or more records
CS_OFFL_SIR_FDM_220191012T042505_20191012T043838_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_220191012T044037_20191012T050016_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_220191012T051738_20191012T052731_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_220191012T053350_20191012T054935_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_220191012T060244_20191012T062338_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_220191012T065543_20191012T065758_C001	Sea State Bias Correction	There is an error with the Sea State Bias Correction for one or more records
CS_OFFL_SIR_FDM_220191012T071102_20191012T071727_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_220191012T072010_20191012T073024_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_220191012T075616_20191012T081707_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_220191012T083343_20191012T090123_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_220191012T093236_20191012T095652_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_220191012T101311_20191012T104613_C001	Sea State Bias Correction	There is an error with the Sea State Bias Correction for one or more records
CS_OFFL_SIR_FDM_220191012T115352_20191012T122550_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_220191012T122817_20191012T122820_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_220191012T133204_20191012T140735_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_220191012T141704_20191012T141920_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_220191012T143457_20191012T145352_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_220191012T151138_20191012T152647_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_220191012T152650_20191012T154559_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_220191012T155930_20191012T161839_C001	Sea State Bias Correction	There is an error with the Sea State Bias Correction for one or more records
CS_OFFL_SIR_FDM_220191012T161917_20191012T163229_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_220191012T165049_20191012T170534_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_220191012T170736_20191012T171657_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_220191012T173912_20191012T175617_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_220191012T183029_20191012T184404_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_220191012T191833_20191012T192109_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_220191012T193107_20191012T195404_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_220191012T201001_20191012T203428_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_220191012T214926_20191012T221513_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_220191012T224021_20191012T231049_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_220191012T232833_20191012T233234_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

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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_220191012T004850_20191012T004911_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220191012T041225_20191012T041411_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220191012T205938_20191012T210328_C001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo
CS_OFFL_SIR_FDM_220191012T222006_20191012T222020_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220191012T235640_20191012T235815_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:

Draduat	Test Failed	Description
Product	rest railed	
CS_OFFL_SIR_FDM_220191012T005144_20191012T005158_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_220191012T012042_20191012T014205_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_220191012T033956_20191012T041110_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_220191012T042505_20191012T043838_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_220191012T044037_20191012T050016_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_220191012T051738_20191012T052731_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_220191012T053350_20191012T054935_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_220191012T060244_20191012T062338_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_20191012T071102_20191012T071727_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_220191012T072010_20191012T073024_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_20191012T075616_20191012T081707_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_220191012T083343_20191012T090123_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_220191012T093236_20191012T095652_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_220191012T115352_20191012T122550_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_20191012T133204_20191012T140735_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_220191012T151138_20191012T152647_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_220191012T152650_20191012T154559_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_220191012T165049_20191012T170534_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_220191012T170736_20191012T171657_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_220191012T173912_20191012T175617_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_220191012T191833_20191012T192109_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_220191012T193107_20191012T195404_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_220191012T201001_20191012T203428_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_220191012T214926_20191012T221513_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_220191012T224021_20191012T231049_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:

25

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220191012T005144_20191012T005158_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_220191012T012042_20191012T014205_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_220191012T033956_20191012T041110_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_220191012T042505_20191012T043838_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_220191012T044037_20191012T050016_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_220191012T051738_20191012T052731_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_220191012T053350_20191012T054935_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_220191012T060244_20191012T062338_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_220191012T071102_20191012T071727_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_220191012T072010_20191012T073024_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_220191012T075616_20191012T081707_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_220191012T083343_20191012T090123_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_220191012T093236_20191012T095652_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_220191012T115352_20191012T122550_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_220191012T133204_20191012T140735_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_220191012T151138_20191012T152647_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_220191012T152650_20191012T154559_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_220191012T165049_20191012T170534_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_220191012T170736_20191012T171657_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_220191012T173912_20191012T175617_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_220191012T191833_20191012T192109_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_220191012T193107_20191012T195404_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_220191012T201001_20191012T203428_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.

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

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:

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Descriptions of the property o	Number of products with errors: 38		
Schriffund (1.5) (2.5) (2.5) (Product	Test Failed	Description The Ocean Retracking Quality Flag is set indicating the CFL Ocean
Sean Retinating Quality Flag Fig. (PFL_SR_PDM_2_20191017102450_2019107107107_C001) Coan Retracking Quality Flag Coan Retrac	CS_OFFL_SIR_FDM_220191012T005144_20191012T005158_C001		Retracker was not successfully executed for one or more records.
SOFTLIBRIPOW 2_0019107102032_01990170707000 Committee Retaining Quality Flag Committee Retaining Quality F	CS_OFFL_SIR_FDM_220191012T010836_20191012T011757_C001	Ocean Retracking Quality Flag	Retracker was not successfully executed for one or more records.
Seem Retracking Quality Figs Refrusher was not successfully executed for one or more records. Seem Retracking Quality Figs Refrusher was not successfully executed for one or more records. Seem Retracking Quality Figs Refrusher was not successfully executed for one or more records. Refrusher was not successfully executed for one or more records. Refrusher was not successfully executed for one or more records. Refrusher was not successfully executed for one or more records. Refrusher was not successfully executed for one or more records. Refrusher was not successfully executed for one or more records. Refrusher was not successfully executed for one or more records. Refrusher was not successfully executed for one or more records. Refrusher was not successfully executed for one or more records. Refrusher was not successfully executed for one or more records. Refrusher was not successfully executed for one or more records. Refrusher was not successfully executed for one or more records. Refrusher was not successfully executed for one or more records. Refrusher was not successfully executed for one or more records. Refrusher was not successfully executed for one or more records. Refrusher was not successfully executed for one or more records. Refrusher was not successfully executed for one or more records. Refrusher was not successfully executed for one or more records. Refrusher was not successfully executed for one or more records. Refrusher was not successfully executed for one or more records. Refrusher was not successfully executed for one or more records. Refrusher was not successfully executed for one or more records. Refrusher was not successfully executed for one or more records. Refrusher was not successfully executed for one or more records. Refrusher was not successfully executed for one or more records. Refrusher was not successfully executed for one or more records. Refrusher was not successfully executed for one or more records. Refrusher was not successfully executed fo	CS_OFFL_SIR_FDM_220191012T012042_20191012T014205_C001	Ocean Retracking Quality Flag	Retracker was not successfully executed for one or more records.
SOFTL_SIR_FDM_2_201910127043956_201910127043956_2019 SOFTL_SIR_FDM_2_201910127043956_201910127043956_2019 Covern Retracking Quality Flag Retacker was not successfully executed for one or more records. SOFTL_SIR_FDM_2_201910127043956_201910127043956_2019 Covern Retracking Quality Flag Retacker was not successfully executed for one or more records. SOFTL_SIR_FDM_2_20191012704497_201910127059736_2019 Covern Retracking Quality Flag Retacker was not successfully executed for one or more records. SOFTL_SIR_FDM_2_201910127051738_201910127059736_2019 Covern Retracking Quality Flag Retacker was not successfully executed for one or more records. SOFTL_SIR_FDM_2_201910127051738_201910127053736_2019 Covern Retracking Quality Flag Retacker was not successfully executed for one or more records. SOFTL_SIR_FDM_2_201910127053556_201910127053336_2019 Covern Retracking Quality Flag Retacker was not successfully executed for one or more records. SOFTL_SIR_FDM_2_201910127058555_20191012707053336_2019 Covern Retracking Quality Flag Retacker was not successfully executed for one or more records. SOFTL_SIR_FDM_2_201910127058555_20191012707100_2019 Covern Retracking Quality Flag Retacker was not successfully executed for one or more records. SOFTL_SIR_FDM_2_201910127070700_201910127070742_2019 Covern Retracking Quality Flag Retacker was not successfully executed for one or more records. SOFTL_SIR_FDM_2_01910127070700_20191012707062_2019 Covern Retracking Quality Flag Retacker was not successfully executed for one or more records. SOFTL_SIR_FDM_2_01910127070700_20191012707062_2019 Covern Retracking Quality Flag Retacker was not successfully executed for one or more records. SOFTL_SIR_FDM_2_01910127070700_20191012707062_2019 Covern Retracking Quality Flag Retacker was not successfully executed for one or more records. SOFTL_SIR_FDM_2_0191012710311_20191012710362_2019 Covern Retracking Quality Flag Retacker was not successfully executed for one or more records. SOFTL_SIR_FDM_2_0191012710311_20191012	CS_OFFL_SIR_FDM_220191012T021103_20191012T021707_C001	Ocean Retracking Quality Flag	Retracker was not successfully executed for one or more records.
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So GPFL, SIR, FDM 2, 20191012704032, 201910127050016, C001 Coen Retracking Quality Flag Coen R	CS_OFFL_SIR_FDM_220191012T024534_20191012T032043_C001	Ocean Retracking Quality Flag	
So, OFFL, SIR, FEM 2, 20191012706328, 20191012706403 Cool one Retracking Quality Flag So, OFFL, SIR, FEM 2, 20191012706328, 20191012706328 COOl So, OFFL, SIR, FEM 2, 20191012706328, 20191012706328 COOl So, OFFL, SIR, FEM 2, 20191012706328, 20191012706328 COOl So, OFFL, SIR, FEM 2, 20191012707102 COOL SO, OFFL, SIR, FEM 2, 20191012707601 COOL SO, OFFL, SIR, FEM 2, 201910127076310, 2019101270010 COOL SO, OFFL, SIR, FEM 2, 201910127063342 COOL SO, OFFL, SIR, FEM 2, 201910127063342 COOL SO, OFFL, SIR, FEM 2, 201910127063342 COOL SO, OFFL, SIR, FEM 2, 2019101271033342 COOL SO, OFFL, SIR, FEM 2, 2019101271033342 COOL SO, OFFL, SIR, FEM 2, 201910127103332 201910127100652 COOL SO, OFFL, SIR, FEM 2, 201910127103332 201910127106052 COOL SO, OFFL, SIR, FEM 2, 201910127103332 201910127106052 COOL SO, OFFL, SIR, FEM 2, 20191012710332 201910127106052 COOL SO, OFFL, SIR, FEM 2, 20191012710332 20191012710605 COOL SO, OFFL, SIR, FEM 2, 20191012710332 20191012710605 COOL SO, OFFL, SIR, FEM 2, 20191012710332 20191012710605 COOL SO, OFFL, SIR, FEM 2, 20191012710332 2019101271050 COOL SO, OFFL, SIR, FEM 2, 2019101271033 2019101271050 COOL SO, OFFL, SIR, FEM	CS_OFFL_SIR_FDM_220191012T033956_20191012T041110_C001	Ocean Retracking Quality Flag	
So, GPFL_SIR_FDM_2_20191012T090138, 20191012T09573_C001 Ocean Retracking Quality Flag Ocean Retracking Quality Flag Ocean Retracking Quality Flag So, GPFL_SIR_FDM_2_20191012T090338, 20191012T09338, 2010 Ocean Retracking Quality Flag Ocean Retracking Quality Flag Retracker was not successfully executed for one or more accords. The Coena Retracking Quality Flag is ent indicating the CFI Ocean Retracking Quality Flag Retracker was not successfully executed for one or more accords. The Coena Retracking Quality Flag is ent indicating the CFI Ocean Retracking Quality Flag is entire indicating the CFI Ocean Retracking Quality Flag is entire indi	CS_OFFL_SIR_FDM_220191012T042505_20191012T043838_C001	Ocean Retracking Quality Flag	
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Osean Retracking Quality Flag The Ocean Retracking	CS_OFFL_SIR_FDM_220191012T060244_20191012T062338_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag is set indicating the CFI Ocean
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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_	152	152	152	0	0
SIR1SAR_0_	152	96	96	0	0
SIR1SIN_0_	112	112	112	0	0
SIR_FDM_1B	152	152	152	0	0
SIR FDM 2	152	152	152	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:

113