



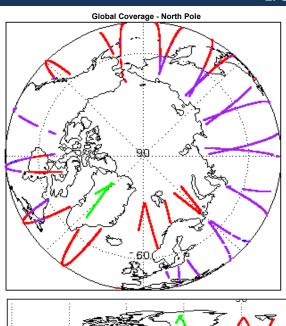
1. Overview

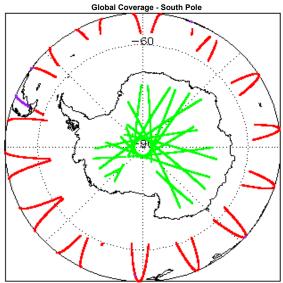
Report Production Date:	15-Oct-2019
Processor Used:	CryoSat Ice Processor
Data Used:	L1 and L2 Fast Delivery Marine (FDM) Mode and L0 Data

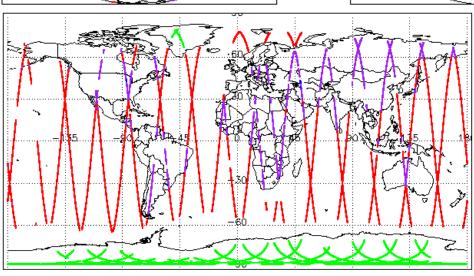
Check	Status
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	See Section 4.2, 5.2 and 6.2
Star Tracker Usage Check	See Section 5.3
Calibration Usage Check	Nominal
Auxiliary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

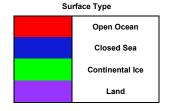
Mission / Instrument News		
13-Oct-2019	None	
14-Oct-2019	None	
15-Oct-201	Nothing planned	

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.

Number of products with errors:

Product	Test Failed
CS_OPER_SIR1LRM_020191014T192008_20191014T195141_0001.DBL	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR1LRM_020191014T214701_20191014T221450_0001.DBL	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR1SAR_020191014T005427_20191014T010314_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR1SAR_020191014T022111_20191014T022800_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR1SAR_020191014T023521_20191014T024310_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR1SAR_020191014T073157_20191014T073719_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR1SAR_020191014T104740_20191014T104949_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR1SAR_020191014T114658_20191014T115123_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR1SAR_020191014T122642_20191014T123326_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR1SAR_020191014T131155_20191014T131600_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR1SIN_0_20191014T145631_20191014T145927_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR1SIN_020191014T175352_20191014T175918_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

12

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: 10

Product	Test Failed
CS_OFFL_SIR_FDM_1B_20191014T004622_20191014T004646_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_1B_20191014T004646_20191014T004715_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_1B_20191014T040954_20191014T041200_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_1B_20191014T041200_20191014T041321_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_1B_20191014T204128_20191014T204133_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_1B_20191014T204133_20191014T204140_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_1B_20191014T221742_20191014T221749_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_1B_20191014T221750_20191014T222030_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_1B_20191014T235416_20191014T235548_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_1B_20191014T235548_20191014T235715_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.

5

Number of products with errors:

Product	Test Failed
CS_OFFL_SIR_FDM_1B_20191014T004622_20191014T004646_C001	No Star Tracker file used in the processing of this product
CS_OFFL_SIR_FDM_1B_20191014T040954_20191014T041200_C001	No Star Tracker file used in the processing of this product
CS_OFFL_SIR_FDM_1B_20191014T204128_20191014T204133_C001	No Star Tracker file used in the processing of this product
CS_OFFL_SIR_FDM_1B_20191014T221742_20191014T221749_C001	No Star Tracker file used in the processing of this product
CS_OFFL_SIR_FDM_1B_20191014T235416_20191014T235548_C001	No Star Tracker file used in the processing of this product

5.4 L1B FDM Calibration Usage Check

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

Number of products with errors: 0

5.5 L1B FDM Auxilary Data File Usage Check

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

Number of products with errors:

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:

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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_20191014T004622_20191014T004646_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20191014T040954_20191014T041200_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20191014T204128_20191014T204133_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20191014T221742_20191014T221749_C001	Attitude correction missing	The attitude has not been corrected
CS OFFI SIR FDM 1B 20101014T235416 20101014T235548 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:

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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:

11

Product	Test Failed
CS_OFFL_SIR_FDM_220191014T004622_20191014T004646_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_220191014T004646_20191014T004715_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_220191014T040954_20191014T041200_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_220191014T041200_20191014T041321_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_220191014T124351_20191014T124446_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_220191014T204128_20191014T204133_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_220191014T204133_20191014T204140_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_220191014T221742_20191014T221749_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_220191014T221750_20191014T222030_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_220191014T235416_20191014T235548_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_2_20191014T235548_20191014T235715_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:

32

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220191014T005026_20191014T005426_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_220191014T010607_20191014T011531_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_2_20191014T021628_20191014T022110_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_220191014T024311_20191014T031817_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_220191014T033729_20191014T040829_C001	Sea State Bias Correction	There is an error with the Sea State Bias Correction for one or more records
CS_OFFL_SIR_FDM_220191014T042306_20191014T044242_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_220191014T044251_20191014T045748_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_220191014T053123_20191014T054709_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_220191014T060354_20191014T062113_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_220191014T071222_20191014T071500_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_220191014T071622_20191014T072800_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_220191014T075357_20191014T081443_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_220191014T083114_20191014T085813_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_220191014T093003_20191014T095428_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_220191014T101046_20191014T104356_C001	Sea State Bias Correction	There is an error with the Sea State Bias Correction for one or more records
CS_OFFL_SIR_FDM_220191014T1110639_20191014T1111418_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_220191014T125612_20191014T131155_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_220191014T132934_20191014T140507_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_220191014T143226_20191014T145010_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_220191014T150913_20191014T154413_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_220191014T155700_20191014T161605_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_220191014T161652_20191014T163013_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_220191014T164825_20191014T170307_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_220191014T170509_20191014T171431_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_220191014T173637_20191014T175352_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_220191014T181004_20191014T181115_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_220191014T192008_20191014T195141_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_220191014T200742_20191014T203210_C001	Sea State Bias Correction	There is an error with the Sea State Bias Correction for one or more records
CS_OFFL_SIR_FDM_220191014T210312_20191014T213042_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_220191014T214701_20191014T221450_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_220191014T223747_20191014T230824_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_220191014T232608_20191014T233006_C001	Sea State Bias Correction	There is an error with the Sea State Bias Correction for one or more records

6.5 L2 FDM Measurement Confidence Data Check

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

Number of products with errors:

5

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220191014T004622_20191014T004646_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220191014T040954_20191014T041200_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220191014T204128_20191014T204133_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220191014T221742_20191014T221749_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220191014T235416_20191014T235548_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:

24

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220191014T005026_20191014T005426_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_220191014T010607_20191014T011531_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_220191014T021628_20191014T022110_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_220191014T024311_20191014T031817_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_220191014T042306_20191014T044242_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_220191014T044251_20191014T045748_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_220191014T053123_20191014T054709_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_220191014T060354_20191014T062113_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_220191014T071222_20191014T071500_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_220191014T071622_20191014T072800_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_220191014T075357_20191014T081443_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_220191014T083114_20191014T085813_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_220191014T093003_20191014T095428_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_220191014T110639_20191014T111418_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_220191014T132934_20191014T140507_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_220191014T143226_20191014T145010_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_220191014T150913_20191014T154413_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_220191014T161652_20191014T163013_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_220191014T164825_20191014T170307_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_220191014T170509_20191014T171431_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_220191014T173637_20191014T175352_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_220191014T210312_20191014T213042_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_220191014T214701_20191014T221450_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_220191014T223747_20191014T230824_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:

2

Product	Test Failed	Description
CS_OFFL_SIR_FDM_2_20191014T005026_20191014T005426_C001	CFI Backscatter Status Flag, SWH Squared Averaging Status Flag	The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #41, #42, #43 and #44 should be ignored for these records.
CS_OFFL_SIR_FDM_2_20191014T010607_20191014T011531_C001	CFI Backscatter Status Flag, SWH Squared Averaging Status Flag	The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #41, #42, #43 and #44 should be ignored for these records.
CS_OFFL_SIR_FDM_2_20191014T021628_20191014T022110_C001	CFI Backscatter Status Flag, SWH Squared Averaging Status Flag	The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #41, #42, #43 and #44 should be ignored for these records.
CS_OFFL_SIR_FDM_2_20191014T024311_20191014T031817_C001	CFI Backscatter Status Flag, SWH Squared Averaging Status Flag	The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #41, #42, #43 and #44 should be ignored for these records.
CS_OFFL_SIR_FDM_2_20191014T042306_20191014T044242_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_220191014T044251_20191014T045748_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_220191014T053123_20191014T054709_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_220191014T060354_20191014T062113_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_220191014T071222_20191014T071500_C001	CFI Backscatter Status Flag, SWH Squared Averaging Status Flag	The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #41, #42, #43 and #44 should be ignored for these records.
CS_OFFL_SIR_FDM_2_20191014T071622_20191014T072800_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_220191014T075357_20191014T081443_C001	CFI Backscatter Status Flag, SWH Squared Averaging Status Flag	The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #41, #42, #43 and #44 should be ignored for these records.
CS_OFFL_SIR_FDM_2_20191014T083114_20191014T085813_C001	CFI Backscatter Status Flag, SWH Squared Averaging Status Flag	The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #41, #42, #43 and #44 should be ignored for these records.
CS_OFFL_SIR_FDM_2_20191014T093003_20191014T095428_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_220191014T110639_20191014T111418_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_220191014T132934_20191014T140507_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_220191014T143226_20191014T145010_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_220191014T150913_20191014T154413_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_220191014T161652_20191014T163013_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_220191014T164825_20191014T170307_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_220191014T170509_20191014T171431_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_220191014T173637_20191014T175352_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_220191014T210312_20191014T213042_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_220191014T214701_20191014T221450_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:

37

Section Personal Content P	Product	Test Failed	Description
Section Personnel Control (1997) Con	CS_OFFL_SIR_FDM_220191014T002327_20191014T002724_C001	Ocean Retracking Quality Flag	
Seath retaining Quality Figs CRC OFFE, SIRR PDM 2_0919141702419 (2010) CRC OFFE, SIRR PDM 2_0919141702411 (2019) (1410) (CS_OFFL_SIR_FDM_220191014T005026_20191014T005426_C001	Ocean Retracking Quality Flag	0 , 0
CS_OFFL_SIR_FDM_2_20191014T02162_019014T02110_0001 CS_OFFL_SIR_FDM_2_20191014T0210210_0001 CS_OFFL_SIR_FDM_2_20191014T0201210_0001014T02100_0001 CS_OFFL_SIR_FDM_2_20191014T020022_0191014T02002_0001 CS_OFFL_SIR_FDM_2_20191014T020022_0191014T02002_0001 CS_OFFL_SIR_FDM_2_20191014T020022_0191014T02002_0001 CS_OFFL_SIR_FDM_2_20191014T020022_0191014T02002_0001 CS_OFFL_SIR_FDM_2_20191014T020022_0191014T02002_0001 CS_OFFL_SIR_FDM_2_20191014T020022_0191014T02002_0001 CS_OFFL_SIR_FDM_2_20191014T020022_0191014T02002_0001 CS_OFFL_SIR_FDM_2_20191014T020022_0191014T02002_0001 CS_OFFL_SIR_FDM_2_20191014T020022_0191014T02002_0001 CS_OFFL_SIR_FDM_2_20191014T020022_0191014T020010_0001 CS_OFFL_SIR_FDM_2_20191014T020022_0191014T020010_0001 CS_OFFL_SIR_FDM_2_20191014T020022_0191014T020010_0001 CS_OFFL_SIR_FDM_2_20191014T020010_0001 CS_OFFL_SIR_FDM_2_20191014T020010_0001 CS_OFFL_SIR_FDM_2_20191014T020010_0001 CS_OFFL_SIR_FDM_2_20191014T020010_0001 CS_OFFL_SIR_FDM_2_20191014T020010_0001 CS_OFFL_SIR_FDM_2_20191014T020010_0001 CS_OFFL_SIR_FDM_2_20191014T020010_0001 CS_OFFL_SIR_FDM_2_20191014T020010_0001 CS_OFFL_SIR_FDM_2_20191014T020010_0001 CS_OFFL_SIR_FDM_2_20191014T02002_0001 CS_OFFL_SIR_FDM_2_20191014T02002_0001014T0200_0001 CS_OFFL_SIR_FDM_2_20191014T02002_001014T0200_0001 CS_OFFL_SIR_FDM_2_20191014T02002_001014T02002_0001 CS_OFFL_SIR_FDM_2_20191014T02002_001014T02002_0001 CS_OFFL_SIR_FDM_2_20191014T02002_001014T02002_0001 CS_OFFL_SIR_FDM_2_20191014T02002_001014T102000_0001 CS_OFFL_SIR_FDM_2_20191014T102002_001014T102000_0001 CS_OFFL_SIR_FD	CS_OFFL_SIR_FDM_220191014T010607_20191014T011531_C001	Ocean Retracking Quality Flag	
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Sean Retractioning Quality Flag Retractors was not successfully executed for one of more records. Se, OFFL_SIR_FDM_2_20191014T044254_2001 Ocean Retracting Quality Flag The Ocean Retracting Quality Flag Retractors was not successfully executed for one of more records. Retracting Quality Flag Retractors was not successfully executed for one of more records. Se, OFFL_SIR_FDM_2_20191014T05602_0191014T06204_0001 Ocean Retracting Quality Flag Retracting Quality Flag Retracting Quality Flag Retracting Quality Flag is set decising the CFI Ocean Retracting Quality Flag is set decising the CFI Ocean Retracting Quality Flag is set decising the CFI Ocean Retracting Quality Flag is set decising the CFI Ocean Retracting Quality Flag is set decising the CFI Ocean Retracting Quality Flag is set decising the CFI Ocean Retracting Quality Flag is set decising the CFI Ocean Retracting Quality Flag is set decising the CFI Ocean Retracting Quality Flag is set decising the CFI Ocean Retracting Quality Flag is set decising the CFI Ocean Retracting Quality Flag is set decising the CFI Ocean Retracting Quality Flag is set decising the CFI Ocean Retraction was not successfully executed for one or more records. So OFFL_SIR_FDM_2_20191014T071822_0191014T071820_0001 Ocean Retracting Quality Flag Retracting Quality Flag is set decising the CFI Ocean Retracting Quality Flag is set decising the CFI Ocean Retraction Quality Flag is set decising the CFI Ocean Retraction Quality Flag is set decising the CFI Ocean Retraction Quality Flag is set decising the CFI Ocean Retraction Quality Flag is set decising the CFI Ocean Retraction Quality Flag is set decising the CFI Ocean Retraction Quality Flag is set decising t	CS_OFFL_SIR_FDM_220191014T033729_20191014T040829_C001	Ocean Retracking Quality Flag	
Count Retracking Quality Flag	CS_OFFL_SIR_FDM_220191014T042306_20191014T044242_C001	Ocean Retracking Quality Flag	
CS_OFFL_SIR_FDM_2_20191014T063123_20191014T064702.001 Cs_OFFL_SIR_FDM_2_20191014T063123_20191014T062113_C001 Cs_OFFL_SIR_FDM_2_20191014T063241_20191014T07120_C001 Cs_OFFL_SIR_FDM_2_20191014T07122_20191014T07120_C001 Cs_OFFL_SIR_FDM_2_20191014T07122_20191014T07120_C001 Cs_OFFL_SIR_FDM_2_20191014T07122_20191014T07120_C001 Cs_OFFL_SIR_FDM_2_20191014T07122_20191014T07120_C001 Cs_OFFL_SIR_FDM_2_20191014T07122_20191014T07120_C001 Cs_OFFL_SIR_FDM_2_20191014T07120_C001 Cs_OFFL_SIR_FDM_2_20191014T07120_C001 Cs_OFFL_SIR_FDM_2_20191014T07120_C001 Cs_OFFL_SIR_FDM_2_20191014T07100_C001 Cs_OFFL_SIR_FDM_2_20191014T10145_20191014T10435_C001 Cs_OFFL_SIR_FDM_2_20191014T10145_20191014T10471100_C001 Cs_OFFL_SIR_FDM_2_20191014T10145_20191014T1047100_C001 Cs_OFFL_SIR_FDM_2_20191014T104711045_20191014T1047100_C001 Cs_OFFL_SIR_FDM_2_20191014T104711045_20191014T1047100_C001 Cs_OFFL_SIR_FDM_2_20191014T10471104700_C001 Cs_OFFL_SIR_FDM_2_20191014T10471104700_C001 Cs_OFFL_SIR_FDM_2_20191014T10471104700_C001 Cs_OFFL_SIR_FDM_2_20191014T10471104700_C001 Cs_OFFL_SIR_FDM_2_20191014T10471104700_C001 Cs_OFFL_SIR_FDM_2_20191014T104700_C001 Cs_OFFL_SIR_FDM_2_20191014T104700_C001 Cs_OFFL_SIR_FDM_2_20191014T104700_C001 Cs_OFFL_SIR_FDM_2_20191014T104700_C001 Cs_OFFL_SIR_FDM_2_20191014T104700_C001 Cs_OFFL_SIR_FDM_2_20191014T104700_C001 Cs_OFFL_SIR_FDM_2_20191014T104700_C001 Cs_OFFL_SIR_FDM_2_20191014T104700_C001 Cs_OFFL_SIR_FDM_2_20191014T104700_C001 Cs_OFFL_SIR_FDM_2_20191014T104700_C0010104T104700_C001 Cs_OFFL_SIR_FDM_2_20191014T104700_C0010104T104700_C001 Cs	CS_OFFL_SIR_FDM_220191014T044251_20191014T045748_C001	Ocean Retracking Quality Flag	
CS_OFFL_SIR_FDM_2_20191014T093242_20191014T07320_C001 Ocean Retracking Quality Flag The Covern Retracking Quality Flag Retracker was not successfully executed for one or more records. The Covern Retracking Quality Flag Retracker was not successfully executed for one or more records. The Covern Retracking Quality Flag Retracker was not successfully executed for one or more records. The Covern Retracking Quality Flag is set indicating the CFI Covern Retracker was not successfully executed for one or more records. The Covern Retracking Quality Flag is set indicating the CFI Covern Retracker was not successfully executed for one or more records. The Covern Retracking Quality Flag is set indicating the CFI Covern Retrack	CS_OFFL_SIR_FDM_220191014T051506_20191014T052504_C001	Ocean Retracking Quality Flag	
CS_OFFL_SIR_FDM_2_20191014T095241_2019014T071520_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag is set Indicating the CFI Ocean Retracking Quality Flag is set Indicating the CFI Ocean Retracking Quality Flag is set Indicating the CFI Ocean Retracking Quality Flag is set Indicating the CFI Ocean Retracking Quality Flag is set Indicating the CFI Ocean Retracking Quality Flag is set Indicating the CFI Ocean Retracking Quality Flag is set Indicating the CFI Ocean Retracking Quality Flag is set Indicating the CFI Ocean Retracking Quality Flag is set Indicating the CFI Ocean Retracking Quality Flag is set Indicating the CFI Ocean Retracking Quality Flag is set Indicating the CFI Ocean Retracking Quality Flag is set Indicating the CFI Ocean Retracking Quality Flag is set Indicating the CFI Ocean Retracking Quality Flag is set Indicating the CFI Ocean Retracking Quality Flag is set Indicating the CFI Ocean Retracking Quality Flag is set Indicating the CFI Ocean 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	CS_OFFL_SIR_FDM_220191014T053123_20191014T054709_C001	Ocean Retracking Quality Flag	
CS_OFFL_SIR_FDM_2_20191014T0922_20191014T0920_COOL Oean Retracking Quality Flag CS_OFFL_SIR_FDM_2_20191014T078317_20191014T07800_COOL Oean Retracking Quality Flag CS_OFFL_SIR_FDM_2_20191014T078317_20191014T0843_COOL Oean Retracking Quality Flag CS_OFFL_SIR_FDM_2_20191014T083114_20191014T085813_COOL Oean Retracking Quality Flag CS_OFFL_SIR_FDM_2_20191014T083114_20191014T085813_COOL Oean Retracking Quality Flag CS_OFFL_SIR_FDM_2_20191014T083030_20191014T085813_COOL Oean Retracking Quality Flag CS_OFFL_SIR_FDM_2_20191014T0830303_20191014T095428_COOL Oean Retracking Quality Flag CS_OFFL_SIR_FDM_2_20191014T0930303_20191014T095428_COOL Oean Retracking Quality Flag CS_OFFL_SIR_FDM_2_20191014T10930303_20191014T104356_COOL Oean Retracking Quality Flag CS_OFFL_SIR_FDM_2_20191014T10930303_20191014T104356_COOL Oean Retracking Quality Flag CS_OFFL_SIR_FDM_2_20191014T10930303_20191014T104356_COOL Oean Retracking Quality Flag CS_OFFL_SIR_FDM_2_20191014T1093030_20191014T104356_COOL Oean Retracking Quality Flag CS_OFFL_SIR_FDM_2_20191014T1093030_20191014T11418_COOL Oean Retracking Quality Flag CS_OFFL_SIR_FDM_2_20191014T109303_20191014T110932_COOL Oean Retracking Quality Flag CS_OFFL_SIR_FDM_2_20191014T109303_20191014T110932_COOL Oean Retracking Quality Flag CS_OFFL_SIR_FDM_2_20191014T109303_COOL Oean Retracking Quality Flag CS_OFFL_SI	CS_OFFL_SIR_FDM_220191014T060354_20191014T062113_C001	Ocean Retracking Quality Flag	
CS_OFFL_SIR_FDM_2_20191014T07622_20191014T078800_C001 Ocean Retracking Quality Flag Retracted was not successfully executed for one or more records. Process Retracking Quality Flag Retracted was not successfully executed for one or more records. Retracted was not successfully executed for one or more records. Retracted was not successfully executed for one or more records. Retracted was not successfully executed for one or more records. Retracted was not successfully executed for one or more records. Retracted was not successfully executed for one or more records. Retracted was not successfully executed for one or more records. Retracted was not successfully executed for one or more records. Retracted was not successfully executed for one or more records. Retracted was not successfully executed for one or more records. Retracted was not successfully executed for one or more records. Retracted was not successfully executed for one or more records. Retracted was not successfully executed for one or more records. Retracted was not successfully executed for one or more records. Retracted was not successfully executed for one or more records. Retracted was not successfully executed for one or more records. Retracted was not successfully executed for one or more records. Retracted was not successfully executed for one or more records. Retracted was not successfully executed for one or more records. Retracted was not successfully executed for one or more records. Retracted was not successfully executed for one or more records. Retracted was not successfully executed for one or more records. Retracted was not successfully executed for one or more records. Retracted was not successfully executed for one or more records. Retracted was not successfully executed for one or more records. Retracted was not successfully executed for one or more records. Retracted was not successfully executed for one or more records. Retracted was not successfully executed for one or more records. Retracted was n	CS_OFFL_SIR_FDM_220191014T065241_20191014T071220_C001	Ocean Retracking Quality Flag	
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CS_OFFL_SIR_FDM_2_20191014T21374Z_20191014T213042_C001 CS_OFFL_SIR_FDM_2_20191014T214701_20191014T221450_C001 CS_OFFL_SIR_FDM_2_20191014T214701_20191014T221450_C001 Ocean Retracking Quality Flag CS_OFFL_SIR_FDM_2_20191014T21374Z_20191014T221450_C001 Ocean Retracking Quality Flag The 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. The Ocean Retracking Quality Flag is set indicating the CFI Ocean The Ocean Retracking Quality Flag is set indicating the CFI Ocean	CS_OFFL_SIR_FDM_220191014T200742_20191014T203210_C001	Ocean Retracking Quality Flag	
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	CS_OFFL_SIR_FDM_220191014T214701_20191014T221450_C001	Ocean Retracking Quality Flag	
	CS_OFFL_SIR_FDM_220191014T223747_20191014T230824_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_	148	148	148	0	0
SIR1SAR_0_	148	93	93	0	0
SIR1SIN_0_	111	111	111	0	0
SIR_FDM_1B	148	148	148	0	0
SIR_FDM_2	148	148	148	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		