



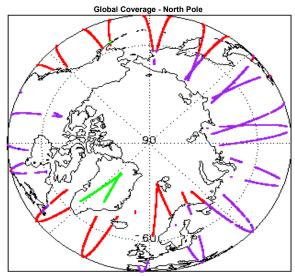
1. Overview

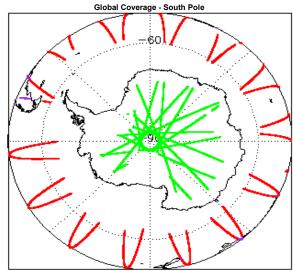
Report Production Date:	04-Jul-2019 CryoSat Ice Processor	
Processor Used:		
Data Used:	L1 and L2 Fast Delivery Marine (FDM)	

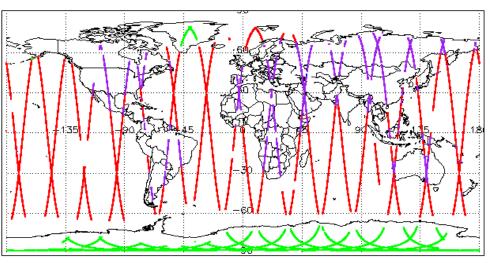
Check	Status
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	See Section 4.2, 5.2 and 6.2
Star Tracker Usage Check	See Section 5.3
Calibration Usage Check	Nominal
Auxiliary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

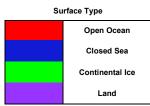
Mission / Instrument News		
02-Jul-2019	None	
03-Jul-2019	None	
04-Jul-2019	Nothing planned	

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.

Number of products with errors:

Product	Test Failed
CS_OPER_SIR1SAR_020190703T233305_20190703T233336_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR1SAR_020190703T000740_20190703T001035_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR1SAR_020190703T094423_20190703T095050_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR1SAR_020190703T185349_20190703T185728_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR1SAR_020190703T134932_20190703T135415_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR1SIN_020190703T171345_20190703T171508_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR1SIN_020190703T175037_20190703T175203_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR2SIN_020190703T035825_20190703T040237_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR2SIN_020190703T143114_20190703T143228_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.

5. Level 1B FDM Data Quality Check

5.1 L1B FDM Product Format Check

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

Number of products with errors:

5.2 L1B FDM Product Header Analysis

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

Number of products with errors:

2

Product	Test Failed	
CS_OFFL_SIR_FDM_1B_20190703T052001_20190703T052116_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).	
CS_OFFL_SIR_FDM_1B_20190703T052116_20190703T052224_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_20190703T052001_20190703T052116_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_20190703T052001_20190703T052116_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20190703T130537_20190703T133933_C001	Block degraded, Echo error, TRK echo error	Data block degraded and not processed

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).

umber 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:

Product	Test Failed
CS_OFFL_SIR_FDM_220190703T052001_20190703T052116_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_220190703T052116_20190703T052224_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:

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:

40

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220190702T235300_20190703T000740_C001	Sea State Bias Correction	There is an error with the Sea State Bias Correction for one or more records
CS_OFFL_SIR_FDM_220190703T004437_20190703T005507_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_20190703T013257_20190703T015648_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_220190703T022907_20190703T024002_C001	Sea State Bias Correction, Altimetric	There is an error with the Altimetric Wind Speed and Sea State Bias
CS OFFL SIR FDM 2 20190703T024540 20190703T025620 C001	Wind Speed Sea State Bias Correction	Correction for one or more records There is an error with the Sea State Bias Correction for one or more
CS OFFL SIR FDM 2 20190703T031138 20190703T033956 C001	Sea State Bias Correction	records There is an error with the Sea State Bias Correction for one or more
CS_OFFL_SIR_FDM_220190703T034314_20190703T034827_C001	Sea State Bias Correction, Altimetric	records There is an error with the Altimetric Wind Speed and Sea State Bias
CS OFFL SIR FDM 2 20190703T045047 20190703T045530 C001	Wind Speed Sea State Bias Correction, Altimetric	Correction for one or more records There is an error with the Altimetric Wind Speed and Sea State Bias
CS OFFL SIR FDM 2 20190703T054122 20190703T061447 C001	Wind Speed Sea State Bias Correction, Altimetric	Correction for one or more records There is an error with the Altimetric Wind Speed and Sea State Bias
CS OFFL SIR FDM 2 20190703T063030 20190703T064807 C001	Wind Speed Sea State Bias Correction, Altimetric	Correction for one or more records There is an error with the Altimetric Wind Speed and Sea State Bias
CS_OFFL_SIR_FDM_220190703T071859_20190703T075309_C001	Wind Speed Sea State Bias Correction, Altimetric	Correction for one or more records There is an error with the Altimetric Wind Speed and Sea State Bias
CS OFFL SIR FDM 2 20190703T081012 20190703T083625 C001	Wind Speed Sea State Bias Correction, Altimetric	Correction for one or more records There is an error with the Altimetric Wind Speed and Sea State Bias
	Wind Speed Sea State Bias Correction, Altimetric	Correction for one or more records There is an error with the Altimetric Wind Speed and Sea State Bias
CS_OFFL_SIR_FDM_220190703T083640_20190703T084343_C001	Wind Speed Sea State Bias Correction, Altimetric	Correction for one or more records There is an error with the Altimetric Wind Speed and Sea State Bias
CS_OFFL_SIR_FDM_220190703T085613_20190703T091051_C001	Wind Speed Sea State Bias Correction, Altimetric	Correction for one or more records There is an error with the Altimetric Wind Speed and Sea State Bias
CS_OFFL_SIR_FDM_220190703T091533_20190703T093246_C001	Wind Speed Sea State Bias Correction, Altimetric	Correction for one or more records There is an error with the Altimetric Wind Speed and Sea State Bias
CS_OFFL_SIR_FDM_220190703T095050_20190703T100348_C001	Wind Speed	Correction for one or more records
CS_OFFL_SIR_FDM_220190703T100602_20190703T101956_C001	Sea State Bias Correction, Altimetric Wind Speed Sea State Bias Correction, Altimetric	There is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more records
CS_OFFL_SIR_FDM_220190703T104525_20190703T105552_C001	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_220190703T105731_20190703T111136_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_220190703T112754_20190703T112852_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_220190703T114654_20190703T114940_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_220190703T115102_20190703T115807_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_220190703T122952_20190703T125014_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_220190703T135416_20190703T135518_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_220190703T140530_20190703T142950_C001	Sea State Bias Correction	There is an error with the Sea State Bias Correction for one or more records
CS_OFFL_SIR_FDM_220190703T144500_20190703T145552_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_220190703T150129_20190703T151706_C001	Sea State Bias Correction	There is an error with the Sea State Bias Correction for one or more records
CS_OFFL_SIR_FDM_220190703T154112_20190703T160210_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_220190703T160416_20190703T160915_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_220190703T162454_20190703T165749_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_220190703T171106_20190703T171207_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_220190703T173801_20190703T174042_C001	Sea State Bias Correction	There is an error with the Sea State Bias Correction for one or more records
CS_OFFL_SIR_FDM_220190703T190913_20190703T191424_C001	Sea State Bias Correction	There is an error with the Sea State Bias Correction for one or more records
CS_OFFL_SIR_FDM_220190703T194336_20190703T201950_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_220190703T203235_20190703T203926_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_220190703T203940_20190703T210357_C001	Sea State Bias Correction	There is an error with the Sea State Bias Correction for one or more records
CS_OFFL_SIR_FDM_220190703T212252_20190703T213839_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_220190703T213853_20190703T215107_C001	Sea State Bias Correction, Altimetric	There is an error with the Altimetric Wind Speed and Sea State Bias
CS_OFFL_SIR_FDM_220190703T223717_20190703T224600_C001	Wind Speed Sea State Bias Correction, Altimetric	Correction for one or more records There is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more precords
CS OFFL SIR FDM 2 20190703T230220 20190703T231615 C001	Wind Speed Sea State Bias Correction, Altimetric	Correction for one or more records There is an error with the Altimetric Wind Speed and Sea State Bias
CS OFFL SIR FDM 2 20190703T231755 20190703T232310 C001	Wind Speed Sea State Bias Correction, Altimetric	Correction for one or more records There is an error with the Altimetric Wind Speed and Sea State Bias
	Wind Speed	Correction for one or more records

6.5 L2 FDM Measurement Confidence Data Check

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220190703T052001_20190703T052116_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220190703T130537_20190703T133933_C001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo

6.6 L2 FDM Range Measurement Check

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

Number of products with errors:

Number of products with errors: 26					
Product	Test Failed	Description			
CS_OFFL_SIR_FDM_220190703T004437_20190703T005507_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_20190703T013257_20190703T015648_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_20190703T022907_20190703T024002_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_20190703T034314_20190703T034827_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_20190703T054122_20190703T061447_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_20190703T071859_20190703T075309_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_20190703T081012_20190703T083625_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_20190703T085613_20190703T091051_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_20190703T091533_20190703T093246_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_20190703T095050_20190703T100348_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_20190703T100602_20190703T101956_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_20190703T104525_20190703T105552_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_20190703T105731_20190703T111136_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_220190703T114654_20190703T114940_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_220190703T115102_20190703T115807_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_220190703T122952_20190703T125014_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_220190703T135416_20190703T135518_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_220190703T162454_20190703T165749_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_20190703T194336_20190703T201950_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_20190703T203235_20190703T203926_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_220190703T212252_20190703T213839_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_220190703T213853_20190703T215107_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_220190703T223717_20190703T224600_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_220190703T230220_20190703T231615_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_220190703T231755_20190703T232310_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_220190703T235446_20190704T000157_C001	CFI Retracked Range Flag	The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #13, #14, #15 and #16 should be ignored for these records.			

6.7 L2 FDM SWH and Backscatter Measurement Check

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

Number of products with errors:

Product	Test Failed	Description
	CFI Backscatter Status Flag, SWH	The master fail flag is set by the CFI call, for one or more records,
CS_OFFL_SIR_FDM_220190703T004437_20190703T005507_C001	Squared Averaging Status Flag	indicating the values stored in fields #41, #42, #43 and #44 should be
		ignored for these records.
CS OFFI SIR FDM 2 20100702T0122F7 20100702T01EG49 C001	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
CS_OFFL_SIR_FDM_220190703T013257_20190703T015648_C001	Squared Averaging Status Flag	ignored for these records.
		The master fail flag is set by the CFI call, for one or more records,
CS OFFL SIR FDM 2 20190703T022907 20190703T024002 C001	CFI Backscatter Status Flag, SWH	indicating the values stored in fields #41, #42, #43 and #44 should be
00_011E_011C_1 D111_E201001001022001_201001001024002_0001	Squared Averaging Status Flag	ignored for these records.
		The master fail flag is set by the CFI call, for one or more records,
CS_OFFL_SIR_FDM_220190703T034314_20190703T034827_C001	CFI Backscatter Status Flag, SWH	indicating the values stored in fields #41, #42, #43 and #44 should be
00_01	Squared Averaging Status Flag	ignored for these records.
		The master fail flag is set by the CFI call, for one or more records,
CS OFFL SIR FDM 2 20190703T054122 20190703T061447 C001	CFI Backscatter Status Flag, SWH	indicating the values stored in fields #41, #42, #43 and #44 should be
	Squared Averaging Status Flag	ignored for these records.
	CEL Basksasttas Status Elas SWILL	The master fail flag is set by the CFI call, for one or more records,
CS_OFFL_SIR_FDM_220190703T071859_20190703T075309_C001	CFI Backscatter Status Flag, SWH Squared Averaging Status Flag	indicating the values stored in fields #41, #42, #43 and #44 should be
	Squared Averaging Status Flag	ignored for these records.
	CFI Backscatter Status Flag, SWH	The master fail flag is set by the CFI call, for one or more records,
CS_OFFL_SIR_FDM_220190703T081012_20190703T083625_C001	Squared Averaging Status Flag	indicating the values stored in fields #41, #42, #43 and #44 should be
	equalica / tvoraging etatas / lag	ignored for these records.
	CFI Backscatter Status Flag, SWH	The master fail flag is set by the CFI call, for one or more records,
CS_OFFL_SIR_FDM_220190703T085613_20190703T091051_C001	Squared Averaging Status Flag	indicating the values stored in fields #41, #42, #43 and #44 should be
	,	ignored for these records.
00 OFFI OID FDM 0 004007007004500 0040070070070040	CFI Backscatter Status Flag, SWH	The master fail flag is set by the CFI call, for one or more records,
CS_OFFL_SIR_FDM_220190703T091533_20190703T093246_C001	Squared Averaging Status Flag	indicating the values stored in fields #41, #42, #43 and #44 should be
		ignored for these records.
CC OFFI CID EDM 2 20400702T005050 20400702T400240 C004	CFI Backscatter Status Flag, SWH	The master fail flag is set by the CFI call, for one or more records,
CS_OFFL_SIR_FDM_220190703T095050_20190703T100348_C001	Squared Averaging Status Flag	indicating the values stored in fields #41, #42, #43 and #44 should be ignored for these records.
		The master fail flag is set by the CFI call, for one or more records,
CS_OFFL_SIR_FDM_220190703T100602_20190703T101956_C001	CFI Backscatter Status Flag, SWH	indicating the values stored in fields #41, #42, #43 and #44 should be
00_011 E_011(_1 BM_2201001001 100002_201001001101000_0001	Squared Averaging Status Flag	ignored for these records.
		The master fail flag is set by the CFI call, for one or more records,
CS_OFFL_SIR_FDM_220190703T104525_20190703T105552_C001	CFI Backscatter Status Flag, SWH	indicating the values stored in fields #41, #42, #43 and #44 should be
55_511	Squared Averaging Status Flag	ignored for these records.
		The master fail flag is set by the CFI call, for one or more records,
CS_OFFL_SIR_FDM_220190703T105731_20190703T111136_C001	CFI Backscatter Status Flag, SWH	indicating the values stored in fields #41, #42, #43 and #44 should be
	Squared Averaging Status Flag	ignored for these records.
	OFI Beatlessetter Otation Floor OVALL	The master fail flag is set by the CFI call, for one or more records,
CS_OFFL_SIR_FDM_220190703T114654_20190703T114940_C001	CFI Backscatter Status Flag, SWH	indicating the values stored in fields #41, #42, #43 and #44 should be
	Squared Averaging Status Flag	ignored for these records.
	CFI Backscatter Status Flag, SWH	The master fail flag is set by the CFI call, for one or more records,
CS_OFFL_SIR_FDM_220190703T115102_20190703T115807_C001	Squared Averaging Status Flag	indicating the values stored in fields #41, #42, #43 and #44 should be
	equal ou / troining estatue / sag	ignored for these records.
	CFI Backscatter Status Flag, SWH	The master fail flag is set by the CFI call, for one or more records,
CS_OFFL_SIR_FDM_220190703T122952_20190703T125014_C001	Squared Averaging Status Flag	indicating the values stored in fields #41, #42, #43 and #44 should be
	1 3 3 3	ignored for these records.
00 OFFI OID FDM 0 004007007405440 004007007405540 0004	CFI Backscatter Status Flag, SWH	The master fail flag is set by the CFI call, for one or more records,
CS_OFFL_SIR_FDM_220190703T135416_20190703T135518_C001	Squared Averaging Status Flag	indicating the values stored in fields #41, #42, #43 and #44 should be
		ignored for these records.
CS OFFL SIR FDM 2 20190703T162454 20190703T165749 C001	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
CO_OLI L_OIM_FDIWLZ201807001 102404_201807001 1007489_C007	Squared Averaging Status Flag	indicating the values stored in fields #41, #42, #43 and #44 should be ignored for these records.
		The master fail flag is set by the CFI call, for one or more records,
CS OFFL SIR FDM 2 20190703T194336 20190703T201950 C001	CFI Backscatter Status Flag, SWH	indicating the values stored in fields #41, #42, #43 and #44 should be
55_5 2_51 DM_2_201001001104000_201001001201000_0001	Squared Averaging Status Flag	ignored for these records.
		The master fail flag is set by the CFI call, for one or more records,
CS_OFFL_SIR_FDM_220190703T203235_20190703T203926_C001	CFI Backscatter Status Flag, SWH	indicating the values stored in fields #41, #42, #43 and #44 should be
	Squared Averaging Status Flag	ignored for these records.
		The master fail flag is set by the CFI call, for one or more records,
CS_OFFL_SIR_FDM_220190703T212252_20190703T213839_C001	CFI Backscatter Status Flag, SWH	indicating the values stored in fields #41, #42, #43 and #44 should be
	Squared Averaging Status Flag	ignored for these records.
	CEI Booksoottee Chatrix Elem CIAII	The master fail flag is set by the CFI call, for one or more records,
CS_OFFL_SIR_FDM_220190703T213853_20190703T215107_C001	CFI Backscatter Status Flag, SWH	indicating the values stored in fields #41, #42, #43 and #44 should be
<u>-</u>	Squared Averaging Status Flag	ignored for these records.
	CFI Backscatter Status Flag, SWH	The master fail flag is set by the CFI call, for one or more records,
CS_OFFL_SIR_FDM_220190703T223717_20190703T224600_C001	Squared Averaging Status Flag	indicating the values stored in fields #41, #42, #43 and #44 should be
	Squarou / Woraging Status Flag	ignored for these records.
	CFI Backscatter Status Flag, SWH	The master fail flag is set by the CFI call, for one or more records,
CS_OFFL_SIR_FDM_220190703T230220_20190703T231615_C001	Squared Averaging Status Flag	indicating the values stored in fields #41, #42, #43 and #44 should be
	James - Staging Status Flag	ignored for these records.
00 OFFI OID FDM 0 004007007004755 00400700700	CFI Backscatter Status Flag, SWH	The master fail flag is set by the CFI call, for one or more records,
CS_OFFL_SIR_FDM_220190703T231755_20190703T232310_C001	Squared Averaging Status Flag	indicating the values stored in fields #41, #42, #43 and #44 should be
		ignored for these records.
		The mantenfell flow is not but the CCI - " for any and any and
	CFI Backscatter Status Flag, SWH	The master fail flag is set by the CFI call, for one or more records,
CS_OFFL_SIR_FDM_220190703T235446_20190704T000157_C001	CFI Backscatter Status Flag, SWH Squared Averaging Status Flag	The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #41, #42, #43 and #44 should be ignored for these records.

6.8 L2 FDM Ocean Retracking Quality Check

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220190703T004437_20190703T005507_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_220190703T013257_20190703T015648_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_220190703T022907_20190703T024002_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_220190703T024540_20190703T025620_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_220190703T031138_20190703T033956_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_220190703T034314_20190703T034827_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_220190703T040237_20190703T043455_C001	Ocean Retracking Quality Flag
CS_OFFL_SIR_FDM_220190703T054122_20190703T061447_C001	Ocean Retracking Quality Flag
CS_OFFL_SIR_FDM_220190703T063030_20190703T064807_C001	Ocean Retracking Quality Flag
CS_OFFL_SIR_FDM_220190703T071859_20190703T075309_C001	Ocean Retracking Quality Flag
CS_OFFL_SIR_FDM_220190703T081012_20190703T083625_C001	Ocean Retracking Quality Flag
CS_OFFL_SIR_FDM_220190703T083640_20190703T084343_C001	Ocean Retracking Quality Flag
CS_OFFL_SIR_FDM_220190703T085613_20190703T091051_C001	Ocean Retracking Quality Flag
CS_OFFL_SIR_FDM_220190703T091533_20190703T093246_C001	Ocean Retracking Quality Flag
CS_OFFL_SIR_FDM_220190703T095050_20190703T100348_C001	Ocean Retracking Quality Flag
CS_OFFL_SIR_FDM_220190703T100602_20190703T101956_C001	Ocean Retracking Quality Flag
CS_OFFL_SIR_FDM_220190703T104525_20190703T105552_C001	Ocean Retracking Quality Flag
CS_OFFL_SIR_FDM_220190703T105731_20190703T111136_C001	Ocean Retracking Quality Flag
CS_OFFL_SIR_FDM_220190703T112754_20190703T112852_C001	Ocean Retracking Quality Flag
CS_OFFL_SIR_FDM_220190703T114654_20190703T114940_C001	Ocean Retracking Quality Flag
CS_OFFL_SIR_FDM_220190703T115102_20190703T115807_C001	Ocean Retracking Quality Flag
CS_OFFL_SIR_FDM_220190703T122952_20190703T125014_C001	Ocean Retracking Quality Flag
CS_OFFL_SIR_FDM_220190703T130537_20190703T133933_C001	Ocean Retracking Quality Flag
CS_OFFL_SIR_FDM_220190703T135416_20190703T135518_C001	Ocean Retracking Quality Flag
CS_OFFL_SIR_FDM_220190703T140530_20190703T142950_C001	Ocean Retracking Quality Flag
CS_OFFL_SIR_FDM_220190703T150129_20190703T151706_C001	Ocean Retracking Quality Flag
CS_OFFL_SIR_FDM_220190703T154112_20190703T160210_C001	Ocean Retracking Quality Flag
CS_OFFL_SIR_FDM_220190703T162454_20190703T165749_C001	Ocean Retracking Quality Flag
CS_OFFL_SIR_FDM_220190703T173801_20190703T174042_C001	Ocean Retracking Quality Flag
CS_OFFL_SIR_FDM_220190703T180408_20190703T182529_C001	Ocean Retracking Quality Flag
CS_OFFL_SIR_FDM_220190703T184903_20190703T185349_C001	Ocean Retracking Quality Flag
CS_OFFL_SIR_FDM_220190703T190913_20190703T191424_C001	Ocean Retracking Quality Flag
CS_OFFL_SIR_FDM_220190703T194336_20190703T201950_C001	Ocean Retracking Quality Flag
CS_OFFL_SIR_FDM_220190703T203235_20190703T203926_C001	Ocean Retracking Quality Flag
CS_OFFL_SIR_FDM_220190703T203940_20190703T210357_C001	Ocean Retracking Quality Flag
CS_OFFL_SIR_FDM_220190703T212252_20190703T213839_C001	Ocean Retracking Quality Flag
CS_OFFL_SIR_FDM_220190703T213853_20190703T215107_C001	Ocean Retracking Quality Flag
CS_OFFL_SIR_FDM_220190703T221245_20190703T222831_C001	Ocean Retracking Quality Flag
CS_OFFL_SIR_FDM_220190703T223717_20190703T224600_C001	Ocean Retracking Quality Flag
CS_OFFL_SIR_FDM_220190703T230220_20190703T231615_C001	Ocean Retracking Quality Flag
CS_OFFL_SIR_FDM_220190703T231755_20190703T232310_C001	Ocean Retracking Quality Flag
CS_OFFL_SIR_FDM_220190703T235446_20190704T000157_C001	Ocean Retracking Quality Flag
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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 Retracker was not successfully executed for one or more records. 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 Retracker was not successfully executed for one or more records. 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 Retracker was not successfully executed for one or more records. 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 Retracker was not successfully executed for one or more records. 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 Retracker was not successfully executed for one or more records 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 Retracker was not successfully executed for one or more records 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 Retracker was not successfully executed for one or more records. 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 Retracker was not successfully executed for one or more records. 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 Retracker was not successfully executed for one or more records 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 Retracker was not successfully executed for one or more records. 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 Retracker was not successfully executed for one or more records. 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 Retracker was not successfully executed for one or more records. 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 Retracker was not successfully executed for one or more records. 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 Retracker was not successfully executed for one or more records 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 Retracker was not successfully executed for one or more records. 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 Retracker was not successfully executed for one or more records. 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 Retracker was not successfully executed for one or more records 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

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
SIR_FDM_1B	142	142	142	0	0
SIR_FDM_2	142	114	114	0	0

7.1 QCC Errors

Number of QCC reports with errors:

0

7.2 QCC Warnings

Number of QCC reports with warnings

(

7.3 Missing QCC Reports

Number of products with missing QCC reports:

10