

QA4EO Daily Report for FDM data:

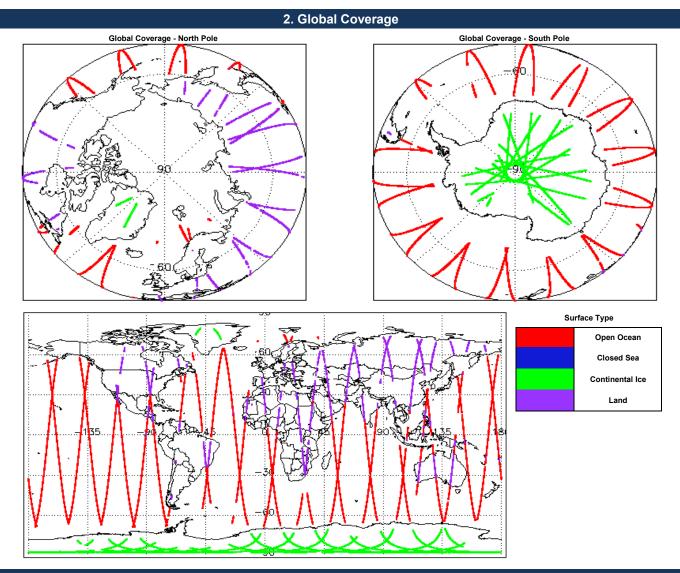
<u>09/02/2020</u>

1. Overview

Demant Draduation Data	10-Feb-2020	Check	Status	
Report Production Date:	10-Feb-2020	Server check: science-pds.cryosat.esa.int	Nominal	
Processor Used:	Server check: calval-pds.cryosat.esa.int		Nominal	
Processor Used.	CryoSat Ice Processor	Product Software Check	Nominal	
Data Used:	L1 and L2 Fast Delivery Marine (FDM)	Product Format Check	Nominal	
Data Oseu.	Mode and L0 Data	Product Header Analysis	See Section 4.2, 5.2 and 6.2	
		Star Tracker Usage Check	See Section 5.3	
		Calibration Usage Check	Nominal	
		Auxiliary Data File Usage Check	See Section 5.5 and 6.3	
		Auxiliary Correction Error Check	See Section 5.6 and 6.4	
		Measurement Confidence Data Check	See Section 5.7, 6.5, 6.6, 6.7 and 6.8	

Mission / Instrument News

08-Feb-2020 Due to connectivity issues in Kiruna, L0 data and AUX files dissemination was interrupted approximately from 2020-02-08 14:00:00 to 2020-02-09 22:00:00 09-Feb-2020 Due to connectivity issues in Kiruna, L0 data and AUX files dissemination was interrupted approximately from 2020-02-08 14:00:00 to 2020-02-09 22:00:00 10-Feb-2020 Nothing planned



3. Instrument Configuration

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

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

4. Level 0 Data Quality Check

4.1 L0 Product Format Check

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

0

4.2 L0 Product Header Analysis

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

14

Number of products with errors:

• • • •	
Product	Test Failed
CS_OPER_SIR1LRM_020200209T074540_20200209T082034_0001.DBL	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR1SAR_020200209T015538_20200209T015644_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR1SAR_0_20200209T200213_20200209T201212_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR1SAR_020200209T204606_20200209T204730_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR1SAR_0_20200209T231009_20200209T231300_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR1SIN_0_20200209T050203_20200209T050349_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR1SIN_020200209T101018_20200209T101445_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR1SIN_0_20200209T105401_20200209T105636_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR1SIN_020200209T213650_20200209T213805_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR1SIN_0_20200209T222536_20200209T222716_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR2SIN_020200209T074024_20200209T074332_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR2SIN_020200209T101018_20200209T101445_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR2SIN_020200209T223455_20200209T223644_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR2SIN_020200209T231756_20200209T232038_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.

5. Level 1B FDM Data Quality Check

5.1 L1B FDM Product Format Check

Each product, retrieved and unpacked from the science server, is checked to ensure it consists of both an XML header file (.HDR) and a binary product file (.DBL). Number of products with errors: 0

5.2 L1B FDM Product Header Analysis

For all products, a series of pre-defined checks are carried out on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain. Number of products with errors: 5

Product	Test Failed
CS_OFFL_SIR_FDM_1B_20200209T145819_20200209T145905_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_1B_20200209T145905_20200209T145938_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_1B_20200209T163534_20200209T163759_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_1B_20200209T181212_20200209T181337_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_1B_20200209T181337_20200209T181443_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.

2

Number of products with errors:

Product	Test Failed	
CS_OFFL_SIR_FDM_1B_20200209T145819_20200209T145905_C001	No Star Tracker file used in the processing of this product	
CS_OFFL_SIR_FDM_1B_20200209T181212_20200209T181337_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:

30

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. 0

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.

Product	Test Failed	Description
CS_OFFL_SIR_FDM_1B_20200209T120015_20200209T121142_C001	Dry Tropospheric Correction, Wet Troposp	Due to a missing Forecast Auxiliary Files there is an error with the Dry Tropo
CS_OFFL_SIR_FDM_1B_20200209T121745_20200209T121816_C001		Due to a missing Forecast Auxiliary Files there is an error with the Dry Tropospheric, Wet Tropospheric and Inverse Barometric Corrections
CS_OFFL_SIR_FDM_1B_20200209T122455_20200209T122542_C001		Due to a missing Forecast Auxiliary Files there is an error with the Dry Tropospheric, Wet Tropospheric and Inverse Barometric Corrections
CS_OFFL_SIR_FDM_1B_20200209T122739_20200209T122904_C001	Dry Tropospheric Correction, Wet Tropos	Due to a missing Forecast Auxiliary Files there is an error with the Dry Tropospheric, Wet Tropospheric and Inverse Barometric Corrections
CS_OFFL_SIR_FDM_1B_20200209T122952_20200209T123118_C001		Due to a missing Forecast Auxiliary Files there is an error with the Dry Tropospheric, Wet Tropospheric and Inverse Barometric Corrections
CS_OFFL_SIR_FDM_1B_20200209T123448_20200209T124239_C001	Dry Tropospheric Correction, Wet Tropos	Due to a missing Forecast Auxiliary Files there is an error with the Dry Tropospheric, Wet Tropospheric and Inverse Barometric Corrections

CS_OFFL_SIR_FDM_1B_20200209T124426_20200209T130000_C001	Dry Tropospheric Correction, Wet Tropos Tropospheric, Wet Tropospheric, Wet Tropospheric and Inverse Barometric Corrections
CS_OFFL_SIR_FDM_1B_20200209T130815_20200209T130921_C001	Dry Tropospheric Correction, Wet Tropos Tropospheric, Wet Tropospheric, Wet Tropospheric and Inverse Barometric Corrections
CS_OFFL_SIR_FDM_1B_20200209T131316_20200209T131433_C001	Dry Tropospheric Correction, Wet Tropos Tropospheric, Wet Tropospheric, Wet Tropospheric and Inverse Barometric Corrections
CS_OFFL_SIR_FDM_1B_20200209T131435_20200209T131450_C001	Dry Tropospheric Correction, Wet Tropos Tropospheric, Wet Tropospheric, Wet Tropospheric and Inverse Barometric Corrections
CS_OFFL_SIR_FDM_1B_20200209T131453_20200209T131508_C001	Dry Tropospheric Correction, Wet Tropos Tropospheric, Wet Tropospheric, Wet Tropospheric and Inverse Barometric Corrections
CS_OFFL_SIR_FDM_1B_20200209T131511_20200209T131517_C001	Dry Tropospheric Correction, Wet Tropos Tropospheric, Wet Tropospheric, Wet Tropospheric and Inverse Barometric Corrections
CS_OFFL_SIR_FDM_1B_20200209T131521_20200209T131558_C001	Dry Tropospheric Correction, Wet Tropos Tropospheric, Wet Tropospheric, Wet Tropospheric and Inverse Barometric Corrections
CS_OFFL_SIR_FDM_1B_20200209T131602_20200209T131604_C001	Dry Tropospheric Correction, Wet Tropos Tropospheric, Wet Tropospheric, Wet Tropospheric and Inverse Barometric Corrections
CS_OFFL_SIR_FDM_1B_20200209T131607_20200209T131609_C001	Dry Tropospheric Correction, Wet Tropos Tropospheric, Wet Tropospheric, Wet Tropospheric and Inverse Barometric Corrections
CS_OFFL_SIR_FDM_1B_20200209T131615_20200209T131623_C001	Dry Tropospheric Correction, Wet Tropos Tropospheric, Wet Tropospheric, Wet Tropospheric and Inverse Barometric Corrections
CS_OFFL_SIR_FDM_1B_20200209T131626_20200209T131641_C001	Dry Tropospheric Correction, Wet Tropos Tropospheric, Wet Tropospheric, Wet Tropospheric and Inverse Barometric Corrections
CS_OFFL_SIR_FDM_1B_20200209T131646_20200209T131707_C001	Dry Tropospheric Correction, Wet Tropos Tropospheric, Wet Tropospheric, Wet Tropospheric and Inverse Barometric Corrections
CS_OFFL_SIR_FDM_1B_20200209T131711_20200209T131805_C001	Dry Tropospheric Correction, Wet Tropos Tropospheric, Wet Tropospheric, Wet Tropospheric and Inverse Barometric Corrections
CS_OFFL_SIR_FDM_1B_20200209T131808_20200209T131845_C001	Dry Tropospheric Correction, Wet Tropos Tropospheric, Wet Tropospheric, Wet Tropospheric and Inverse Barometric Corrections
CS_OFFL_SIR_FDM_1B_20200209T131849_20200209T132217_C001	Dry Tropospheric Correction, Wet Tropos Tropospheric, Wet Tropospheric, Wet Tropospheric and Inverse Barometric Corrections
CS_OFFL_SIR_FDM_1B_20200209T133800_20200209T141048_C001	Dry Tropospheric Correction, Wet Tropos Tropospheric, Wet Tropospheric, Wet Tropospheric and Inverse Barometric Corrections
CS_OFFL_SIR_FDM_1B_20200209T141313_20200209T141525_C001	Dry Tropospheric Correction, Wet Tropos Tropospheric, Wet Tropospheric, Wet Tropospheric and Inverse Barometric Corrections
CS_OFFL_SIR_FDM_1B_20200209T141543_20200209T142129_C001	Dry Tropospheric Correction, Wet Tropos Tropospheric, Wet Tropospheric, Wet Tropospheric and Inverse Barometric Corrections
CS_OFFL_SIR_FDM_1B_20200209T142350_20200209T144933_C001	Dry Tropospheric Correction, Wet Tropos Tropospheric, Wet Tropospheric, Wet Tropospheric and Inverse Barometric Corrections
CS_OFFL_SIR_FDM_1B_20200209T145317_20200209T145803_C001	Dry Tropospheric Correction, Wet Tropos Tropospheric, Wet Tropospheric, Wet Tropospheric and Inverse Barometric Corrections
CS_OFFL_SIR_FDM_1B_20200209T145819_20200209T145905_C001	Dry Tropospheric Correction, Wet Tropos Tropospheric, Wet Tropospheric, Wet Tropospheric and Inverse Barometric Corrections
CS_OFFL_SIR_FDM_1B_20200209T145905_20200209T145938_C001	Dry Tropospheric Correction, Wet Tropos Tropospheric, Wet Tropospheric, Wet Tropospheric and Inverse Barometric Corrections
CS_OFFL_SIR_FDM_1B_20200209T145951_20200209T145953_C001	Dry Tropospheric Correction, Wet Tropos Tropospheric, Wet Tropospheric, Wet Tropospheric and Inverse Barometric Corrections
CS_OFFL_SIR_FDM_1B_20200209T151301_20200209T151341_C001	Dry Tropospheric Correction, Wet Tropos Tropospheric, Wet Tropospheric, Wet Tropospheric and Inverse Barometric Corrections
CS_OFFL_SIR_FDM_1B_20200209T151504_20200209T151813_C001	Dry Tropospheric Correction, Wet Tropos Tropospheric, Wet Tropospheric, Wet Tropospheric and Inverse Barometric Corrections
CS_OFFL_SIR_FDM_1B_20200209T152058_20200209T154927_C001	Dry Tropospheric Correction, Wet Tropos Tropospheric, Wet Tropospheric, Wet Tropospheric and Inverse Barometric Corrections
CS_OFFL_SIR_FDM_1B_20200209T155236_20200209T155349_C001	Dry Tropospheric Correction, Wet Tropos Tropospheric, Wet Tropospheric, Wet Tropospheric and Inverse Barometric Corrections
CS_OFFL_SIR_FDM_1B_20200209T155523_20200209T155949_C001	Dry Tropospheric Correction, Wet Tropos Tropospheric, Wet Tropospheric, Wet Tropospheric and Inverse Barometric Corrections
CS_OFFL_SIR_FDM_1B_20200209T160236_20200209T162954_C001	Dry Tropospheric Correction, Wet Tropos Tropospheric, Wet Tropospheric, Wet Tropospheric and Inverse Barometric Corrections
CS_OFFL_SIR_FDM_1B_20200209T162957_20200209T163106_C001	Dry Tropospheric Correction, Wet Tropos Tropospheric, Wet Tropospheric, Wet Tropospheric and Inverse Barometric Corrections
CS_OFFL_SIR_FDM_1B_20200209T163110_20200209T163122_C001	Dry Tropospheric Correction, Wet Tropos Tropospheric, Wet Tropospheric, Wet Tropospheric and Inverse Barometric Corrections
CS_OFFL_SIR_FDM_1B_20200209T163124_20200209T163155_C001	Dry Tropospheric Correction, Wet Tropos Tropospheric, Wet Tropospheric, Wet Tropospheric and Inverse Barometric Corrections
CS_OFFL_SIR_FDM_1B_20200209T163201_20200209T163207_C001	Dry Tropospheric Correction, Wet Tropos Tropospheric, Wet Tropospheric, Wet Tropospheric and Inverse Barometric Corrections
CS_OFFL_SIR_FDM_1B_20200209T163213_20200209T163232_C001	Dry Tropospheric Correction, Wet Tropos Tropospheric, Wet Tropospheric, Wet Tropospheric and Inverse Barometric Corrections
CS_OFFL_SIR_FDM_1B_20200209T163305_20200209T163500_C001	Dry Tropospheric Correction, Wet Tropos Tropospheric, Wet Tropospheric, Wet Tropospheric and Inverse Barometric Corrections

CS_OFFL_SIR_FDM_1B_20200209T163534_20200209T163759_C001	Dry Tropospheric Correction, Wet Tropos	Due to a missing Forecast Auxiliary Files there is an error with the Dry Tropospheric, Wet Tropospheric and Inverse Barometric Corrections
CS_OFFL_SIR_FDM_1B_20200209T164036_20200209T164049_C001	Dry Tropospheric Correction, Wet Tropos	Due to a missing Forecast Auxiliary Files there is an error with the Dry Tropospheric, Wet Tropospheric and Inverse Barometric Corrections
CS_OFFL_SIR_FDM_1B_20200209T165518_20200209T172833_C001	Dry Tropospheric Correction, Wet Tropos	Due to a missing Forecast Auxiliary Files there is an error with the Dry Tropospheric, Wet Tropospheric and Inverse Barometric Corrections
CS_OFFL_SIR_FDM_1B_20200209T173433_20200209T174009_C001	Dry Tropospheric Correction, Wet Tropos	Due to a missing Forecast Auxiliary Files there is an error with the Dry Tropospheric, Wet Tropospheric and Inverse Barometric Corrections
CS_OFFL_SIR_FDM_1B_20200209T174132_20200209T174753_C001	Dry Tropospheric Correction, Wet Tropos	Due to a missing Forecast Auxiliary Files there is an error with the Dry Tropospheric, Wet Tropospheric and Inverse Barometric Corrections
CS_OFFL_SIR_FDM_1B_20200209T175138_20200209T175708_C001	Dry Tropospheric Correction, Wet Tropos	Due to a missing Forecast Auxiliary Files there is an error with the Dry Tropospheric, Wet Tropospheric and Inverse Barometric Corrections
CS_OFFL_SIR_FDM_1B_20200209T175825_20200209T180530_C001	Dry Tropospheric Correction, Wet Tropos	Due to a missing Forecast Auxiliary Files there is an error with the Dry Tropospheric, Wet Tropospheric and Inverse Barometric Corrections
CS_OFFL_SIR_FDM_1B_20200209T180714_20200209T180835_C001	Dry Tropospheric Correction, Wet Tropos	Due to a missing Forecast Auxiliary Files there is an error with the Dry Tropospheric, Wet Tropospheric and Inverse Barometric Corrections
CS_OFFL_SIR_FDM_1B_20200209T181108_20200209T181132_C001	Dry Tropospheric Correction, Wet Tropos	Due to a missing Forecast Auxiliary Files there is an error with the Dry Tropospheric, Wet Tropospheric and Inverse Barometric Corrections
CS_OFFL_SIR_FDM_1B_20200209T181135_20200209T181156_C001	Dry Tropospheric Correction, Wet Tropos	Due to a missing Forecast Auxiliary Files there is an error with the Dry Tropospheric, Wet Tropospheric and Inverse Barometric Corrections
CS_OFFL_SIR_FDM_1B_20200209T181212_20200209T181337_C001	Dry Tropospheric Correction, Wet Tropos	Due to a missing Forecast Auxiliary Files there is an error with the Dry Tropospheric, Wet Tropospheric and Inverse Barometric Corrections
CS_OFFL_SIR_FDM_1B_20200209T181337_20200209T181443_C001	Dry Tropospheric Correction, Wet Tropos	Due to a missing Forecast Auxiliary Files there is an error with the Dry Tropospheric, Wet Tropospheric and Inverse Barometric Corrections
CS_OFFL_SIR_FDM_1B_20200209T181905_20200209T182035_C001	Dry Tropospheric Correction, Wet Tropos	Due to a missing Forecast Auxiliary Files there is an error with the Dry Tropospheric, Wet Tropospheric and Inverse Barometric Corrections
CS_OFFL_SIR_FDM_1B_20200209T183358_20200209T190820_C001	Dry Tropospheric Correction, Wet Tropos	Due to a missing Forecast Auxiliary Files there is an error with the Dry Tropospheric, Wet Tropospheric and Inverse Barometric Corrections
CS_OFFL_SIR_FDM_1B_20200209T191337_20200209T191848_C001	Dry Tropospheric Correction, Wet Tropos	Due to a missing Forecast Auxiliary Files there is an error with the Dry Tropospheric, Wet Tropospheric and Inverse Barometric Corrections
CS_OFFL_SIR_FDM_1B_20200209T192030_20200209T194031_C001	Dry Tropospheric Correction, Wet Tropos	Due to a missing Forecast Auxiliary Files there is an error with the Dry Tropospheric, Wet Tropospheric and Inverse Barometric Corrections
CS_OFFL_SIR_FDM_1B_20200209T194346_20200209T194845_C001	Dry Tropospheric Correction, Wet Tropos	Due to a missing Forecast Auxiliary Files there is an error with the Dry Tropospheric, Wet Tropospheric and Inverse Barometric Corrections
CS_OFFL_SIR_FDM_1B_20200209T194923_20200209T195054_C001	Dry Tropospheric Correction, Wet Tropos	Due to a missing Forecast Auxiliary Files there is an error with the Dry Tropospheric, Wet Tropospheric and Inverse Barometric Corrections
CS_OFFL_SIR_FDM_1B_20200209T201212_20200209T203428_C001	Dry Tropospheric Correction, Wet Tropos	Due to a missing Forecast Auxiliary Files there is an error with the Dry Tropospheric, Wet Tropospheric and Inverse Barometric Corrections
CS_OFFL_SIR_FDM_1B_20200209T203506_20200209T204605_C001	Dry Tropospheric Correction, Wet Tropos	Due to a missing Forecast Auxiliary Files there is an error with the Dry Tropospheric, Wet Tropospheric and Inverse Barometric Corrections
CS_OFFL_SIR_FDM_1B_20200209T205102_20200209T205336_C001	Dry Tropospheric Correction, Wet Tropos	Due to a missing Forecast Auxiliary Files there is an error with the Dry Tropospheric, Wet Tropospheric and Inverse Barometric Corrections
CS_OFFL_SIR_FDM_1B_20200209T205342_20200209T205349_C001	Dry Tropospheric Correction, Wet Tropos	Due to a missing Forecast Auxiliary Files there is an error with the Dry Tropospheric, Wet Tropospheric and Inverse Barometric Corrections
CS_OFFL_SIR_FDM_1B_20200209T205352_20200209T205752_C001	Dry Tropospheric Correction, Wet Tropos	Due to a missing Forecast Auxiliary Files there is an error with the Dry Tropospheric, Wet Tropospheric and Inverse Barometric Corrections
CS_OFFL_SIR_FDM_1B_20200209T205948_20200209T212843_C001	Dry Tropospheric Correction, Wet Tropos	Due to a missing Forecast Auxiliary Files there is an error with the Dry Tropospheric, Wet Tropospheric and Inverse Barometric Corrections
CS_OFFL_SIR_FDM_1B_20200209T212859_20200209T213613_C001	Dry Tropospheric Correction, Wet Tropos	Due to a missing Forecast Auxiliary Files there is an error with the Dry Tropospheric, Wet Tropospheric and Inverse Barometric Corrections

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: 4	Number of products with errors:	4
-----------------------------------	---------------------------------	---

Product	Test Failed	Description
CS_OFFL_SIR_FDM_1B_20200209T103442_20200209T104823_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_20200209T145819_20200209T145905_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20200209T163213_20200209T163232_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_20200209T181212_20200209T181337_C001	Attitude correction missing	The attitude has not been corrected

6. Level 2 FDM Data Quality Check

6.1 L2 FDM Product Format Check

Each product, retrieved and unpacked from the science server, is checked to ensure it consists of both an XML header file (.HDR) and a binary product file (.DBL). Number of products with errors: 0

6.2 L2 FDM Product Header Analysis

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

Number of	of	products	with	errors:

20

Dura divat	Test Failed
Product CS_OFFL_SIR_FDM_220200209T001809_20200209T002243_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_220200209T020227_20200209T020231_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_220200209T020545_20200209T020628_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_220200209T024150_20200209T024159_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_220200209T024205_20200209T024529_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_220200209T053822_20200209T054354_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_220200209T100222_20200209T100227_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_220200209T115757_20200209T115816_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_220200209T122455_20200209T122542_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_220200209T122952_20200209T123118_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_220200209T142350_20200209T144933_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_220200209T145819_20200209T145905_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_220200209T145905_20200209T145938_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_220200209T151301_20200209T151341_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_220200209T163534_20200209T163759_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_220200209T181212_20200209T181337_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_220200209T181337_20200209T181443_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_220200209T220753_20200209T220932_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_220200209T223240_20200209T223247_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_220200209T232921_20200209T233114_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.

48

roduct	Test Failed	Description
S OFFL SIR FDM 2 20200209T002409 20200209T003325 C001	Sea State Bias Correction, Altimetric	There is an error with the Altimetric Wind Speed and Sea State Bias
<u></u>	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
S_OFFL_SIR_FDM_220200209T003620_20200209T003903_C001	Wind Speed	Correction for one or more records
S OFFL SIR FDM 2 20200209T004042 20200209T005517 C001	Sea State Bias Correction, Altimetric	There is an error with the Altimetric Wind Speed and Sea State Bias
	Wind Speed	Correction for one or more records
S_OFFL_SIR_FDM_220200209T010857_20200209T014242_C001	Sea State Bias Correction, Altimetric Wind Speed	There is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more records
	Sea State Bias Correction, Altimetric	There is an error with the Altimetric Wind Speed and Sea State Bias
S_OFFL_SIR_FDM_220200209T014506_20200209T014549_C001	Wind Speed	Correction for one or more records
S_OFFL_SIR_FDM_220200209T021210_20200209T023516_C001	Sea State Bias Correction	There is an error with the Sea State Bias Correction for one or more records
	Sea State Bias Correction, Altimetric	There is an error with the Altimetric Wind Speed and Sea State Bias
S_OFFL_SIR_FDM_220200209T024750_20200209T031701_C001	Wind Speed	Correction for one or more records
S OFFL SIR FDM 2 20200209T060658 20200209T064039 C001	Sea State Bias Correction, Altimetric	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
S_OFFL_SIR_FDM_220200209T071400_20200209T073345_C001	Wind Speed	Correction for one or more records
S OFFL SIR FDM 2 20200209T074540 20200209T082034 C001	Sea State Bias Correction, Altimetric	There is an error with the Altimetric Wind Speed and Sea State Bias
<u></u>	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
S_OFFL_SIR_FDM_220200209T084459_20200209T084921_C001	Wind Speed	Correction for one or more records
S OFFL SIR FDM 2 20200209T085017 20200209T090753 C001	Sea State Bias Correction, Altimetric	There is an error with the Altimetric Wind Speed and Sea State Bias
5_011E_31(_1DM_2202002091003017_202002091090733_0001	Wind Speed	Correction for one or more records
S_OFFL_SIR_FDM_220200209T092614_20200209T094335_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
		There is an error with the Sea State Bias Correction for one or more
S_OFFL_SIR_FDM_220200209T101525_20200209T103335_C001	Sea State Bias Correction	records
S_OFFL_SIR_FDM_220200209T103442_20200209T104823_C001	Sea State Bias Correction, Altimetric Wind Speed	There is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more records
	Sea State Bias Correction, Altimetric	There is an error with the Altimetric Wind Speed and Sea State Bias
S_OFFL_SIR_FDM_220200209T110518_20200209T112055_C001	Wind Speed	Correction for one or more records
S OFFL SIR FDM 2 20200209T112256 20200209T113219 C001	Sea State Bias Correction, Altimetric	There is an error with the Altimetric Wind Speed and Sea State Bias
	Wind Speed	Correction for one or more records
S_OFFL_SIR_FDM_220200209T120015_20200209T121142_C001	Tropospheric Correction, Inverse bระการของโลกระวังการเรือก, Street Bias	There is an error with the Atmospheric Corrections for one or more records
S OFFL SIR FDM 2 20200209T121745 20200209T121816 C001	Tropospheric Correction, U-Wind and V-	There is an error with the Atmospheric Corrections for one or more records
	blyd copsprenet of the on devind	
S_OFFL_SIR_FDM_220200209T122455_20200209T122542_C001	Tropospheric Correction, U-Wind and V-	There is an error with the Atmospheric Corrections for one or more records
S OFFL SIR FDM 2 20200209T122739 20200209T122904 C001	ปญา เกิดรุณาเลา contention, Inverse	There is an error with the Atmospheric Corrections for one or more records
	bromotispheric concernent, interes	
S_OFFL_SIR_FDM_220200209T122952_20200209T123118_C001	Tropospheric Correction, Inverse	There is an error with the Atmospheric Corrections for one or more records
	brysmopisphenectionection, the Riss	There is an even with the Atmospheric Consections for one or more recorded
3_OFFL_SIR_FDM_2202002091123448_202002091124239_C001		There is an error with the Atmospheric Corrections for one of more records
S_OFFL_SIR_FDM_220200209T124426_20200209T130000_C001	Tropospheric Correction, Inverse	There is an error with the Atmospheric Corrections for one or more records
	brysmotisphenectine Son, State Riss	
3_0FFL_SIK_FDM_2202002091130815_20200209T130921_C001		There is an error with the Atmospheric Corrections for one or more records
S OFFL SIR FDM 2 20200209T131316 20200209T131433 C001	Tropospheric Correction, U-Wind and V-	There is an error with the Atmospheric Corrections for one or more records
	Uly 1 Opsprenert of tealor, Wet ind	
S_OFFL_SIR_FDM_220200209T131435_20200209T131450_C001	Tropospheric Correction, U-Wind and V-	There is an error with the Atmospheric Corrections for one or more records
S_OFFL_SIR_FDM_220200209T130815_20200209T130921_C001 S_OFFL_SIR_FDM_220200209T131316_20200209T131433_C001	bromotispfilencectione.tion, State Rise Tropospheric Correction, U-Wind and V- Bigort Ropsphere: Coftee.on, Wethind Tropospheric Correction, U-Wind and V- Bigort Ropsphere: Coftee.con, Wethind	There is an error with the Atmospheric Corrections for one or r There is an error with the Atmospheric Corrections for one or r

CS_OFFL_SIR_FDM_2__20200209T131453_20200209T131508_C001 CS OFFL SIR FDM 2 20200209T131511 20200209T131517 C001 CS OFFL SIR FDM 2 20200209T131521 20200209T131558 C001 CS_OFFL_SIR_FDM_2__20200209T131602_20200209T131604_C001 CS OFFL SIR FDM 2 20200209T131607 20200209T131609 C001 CS_OFFL_SIR_FDM_2__20200209T131615_20200209T131623_C001 CS_OFFL_SIR_FDM_2__20200209T131626_20200209T131641_C001 CS OFFL SIR FDM 2 20200209T131646 20200209T131707 C001 CS_OFFL_SIR_FDM_2__20200209T131711_20200209T131805_C001 CS OFFL SIR FDM 2 20200209T131808 20200209T131845 C001 CS_OFFL_SIR_FDM_2__20200209T131849_20200209T132217_C001 CS_OFFL_SIR_FDM_2__20200209T133800_20200209T141048_C001 CS OFFL SIR FDM 2 20200209T141313 20200209T141525 C001 CS_OFFL_SIR_FDM_2__20200209T141543_20200209T142129_C001 CS_OFFL_SIR_FDM_2__20200209T142350_20200209T144933_C001 CS OFFL SIR FDM 2 20200209T145317 20200209T145803 C001 CS_OFFL_SIR_FDM_2__20200209T145819_20200209T145905_C001 CS_OFFL_SIR_FDM_2__20200209T145905_20200209T145938_C001 CS OFFL SIR FDM 2 20200209T151301 20200209T151341 C001 CS OFFL SIR FDM 2 20200209T151504 20200209T151813 C001 CS OFFL SIR FDM 2 20200209T152058 20200209T154927 C001 CS_OFFL_SIR_FDM_2__20200209T155236_20200209T155349_C001 CS OFFL SIR FDM 2 20200209T155523 20200209T155949 C001 CS_OFFL_SIR_FDM_2__20200209T160236_20200209T162954_C001 CS OFFL SIR FDM 2 20200209T162957 20200209T163106 C001 CS OFFL SIR FDM 2 20200209T163110 20200209T163122 C001 CS_OFFL_SIR_FDM_2__20200209T163124_20200209T163155_C001 CS_OFFL_SIR_FDM_2__20200209T163201_20200209T163207_C001 CS OFFL SIR FDM 2 20200209T163213 20200209T163232 C001 CS OFFL SIR FDM 2 20200209T163305 20200209T163500 C001 CS OFFL SIR FDM 2 20200209T163534 20200209T163759 C001 CS_OFFL_SIR_FDM_2__20200209T164036_20200209T164049_C001 CS OFFL SIR FDM 2 20200209T165518 20200209T172833 C001 CS OFFL SIR FDM 2 20200209T173433 20200209T174009 C001 CS_OFFL_SIR_FDM_2__20200209T174132_20200209T174753_C001 CS OFFL SIR FDM 2 20200209T175138 20200209T175708 C001 CS OFFL SIR FDM 2 20200209T175825 20200209T180530 C001 CS_OFFL_SIR_FDM_2__20200209T014506_20200209T014549_C001 CS_OFFL_SIR_FDM_2__20200209T180714_20200209T180835_C001 CS OFFL SIR FDM 2 20200209T181108 20200209T181132 C001 CS OFFL SIR FDM 2 20200209T181135 20200209T181156 C001

ry mopspheric contection, we Tropospheric Correction, U-Wind and V-Wind Cosmenent of the on the will Tropospheric Correction, U-Wind and V-Might Comment of the margan haild Tropospheric Correction, U-Wind and V-ปรัฐว่า Cospirement of tection, Wet Tropospheric Correction, U-Wind and V-Tropospheric Correction, U-Wind and V-Wird Cosmence of the on the Tropospheric Correction, U-Wind and V-บ/iv1 Cossnencet of tea.ma. 1/14/1 Tropospheric Correction, U-Wind and V-Wind Comment of the on the win Tropospheric Correction, U-Wind and V-ัปรัฐว่าเอื่อริมาเลายารูปอราเอาเราสาว Tropospheric Correction, U-Wind and V-บเว่าเวอรฐการการปลาย Tropospheric Correction, U-Wind and V-ปรัตว เCosprenent of the เอก detri Tropospheric Correction, U-Wind and V-Wird Gosmenert of the on whet Tropospheric Correction, Inverse bry motion from the Pine Tropospheric Correction, U-Wind and V-Wind Cosmenent of the mondal win Tropospheric Correction, U-Wind and V-Wind Cosmenent of the mr. Wetting Tropospheric Correction, Inverse bry motion for Pine Tropospheric Correction, U-Wind and V-Wird Cosmenent of the on whet Tropospheric Correction, U-Wind and V-Wird Cosmerce of the or were Tropospheric Correction, U-Wind and V-Wird Cossnence tof tealor. Wer Tropospheric Correction, U-Wind and V-ม/ivy เCossnerent of the เกาะ (444) Tropospheric Correction, U-Wind and Vblight Copeptienent of the on the detrin Tropospheric Correction, Inverse bry motion for Pine Tropospheric Correction, Inverse brysmothin finite time from, state Rise Tropospheric Correction, Inverse bry mousine for the state Big Tropospheric Correction, Inverse brysmothispfiencectine chon, Strete Rise Tropospheric Correction, Inverse bry mouse fine the Rise Tropospheric Correction, Inverse brysmotisphenectionechon, State Rise Tropospheric Correction, Inverse bage motion for the state Bi Tropospheric Correction, Inverse Dry Tropspheric Correction, Sea State Rias Tropospheric Correction, Inverse Dry Tropspheric Correction, Wet Tropospheric Correction, Inverse

There is an error with the Atmospheric Corrections for one or more records There is an error with the Atmospheric Corrections for one or more records There is an error with the Atmospheric Corrections for one or more records There is an error with the Atmospheric Corrections for one or more records There is an error with the Atmospheric Corrections for one or more records There is an error with the Atmospheric Corrections for one or more records There is an error with the Atmospheric Corrections for one or more records There is an error with the Atmospheric Corrections for one or more records There is an error with the Atmospheric Corrections for one or more records There is an error with the Atmospheric Corrections for one or more records There is an error with the Atmospheric Corrections for one or more records There is an error with the Atmospheric Corrections for one or more records There is an error with the Atmospheric Corrections for one or more records There is an error with the Atmospheric Corrections for one or more records There is an error with the Atmospheric Corrections for one or more records There is an error with the Atmospheric Corrections for one or more records There is an error with the Atmospheric Corrections for one or more records There is an error with the Atmospheric Corrections for one or more records There is an error with the Atmospheric Corrections for one or more records There is an error with the Atmospheric Corrections for one or more records There is an error with the Atmospheric Corrections for one or more records There is an error with the Atmospheric Corrections for one or more records There is an error with the Atmospheric Corrections for one or more records There is an error with the Atmospheric Corrections for one or more records There is an error with the Atmospheric Corrections for one or more records There is an error with the Atmospheric Corrections for one or more records There is an error with the Atmospheric Corrections for one or more records There is an error with the Atmospheric Corrections for one or more records There is an error with the Atmospheric Corrections for one or more records There is an error with the Atmospheric Corrections for one or more records There is an error with the Atmospheric Corrections for one or more records There is an error with the Atmospheric Corrections for one or more records There is an error with the Atmospheric Corrections for one or more records There is an error with the Atmospheric Corrections for one or more records There is an error with the Atmospheric Corrections for one or more records There is an error with the Atmospheric Corrections for one or more records There is an error with the Atmospheric Corrections for one or more records There is an error with the Atmospheric Corrections for one or more records There is an error with the Atmospheric Corrections for one or more records There is an error with the Atmospheric Corrections for one or more records There is an error with the Atmospheric Corrections 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: 4					
Product	Test Failed	Description			
CS_OFFL_SIR_FDM_220200209T103442_20200209T104823_C001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo			
CS_OFFL_SIR_FDM_220200209T145819_20200209T145905_C001	Attitude correction missing	The attitude has not been corrected			
CS_OFFL_SIR_FDM_220200209T163213_20200209T163232_C001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo			
CS_OFFL_SIR_FDM_220200209T181212_20200209T181337_C001	Attitude correction missing	The attitude has not been corrected			
CS_OFFL_SIR_FDM_220200209T181212_20200209T181337_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: 22 Product Test Failed Description The master fail flag is set by the CFI call, for one or more records CS_OFFL_SIR_FDM_2__20200209T002409_20200209T003325_C001 indicating the values stored in fields #13, #14, #15 and #16 should be CFI Retracked Range Flag ignored for these records 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 CS OFFL SIR FDM 2 20200209T003620 20200209T003903 C001 CFI Retracked Range 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__20200209T010857_20200209T014242_C001 CFI Retracked Range Flag indicating the values stored in fields #13, #14, #15 and #16 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 20200209T014506 20200209T014549 C001 CFI Retracked Range Flag indicating the values stored in fields #13, #14, #15 and #16 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 20200209T024750 20200209T031701 C001 CFI Retracked Range Flag indicating the values stored in fields #13, #14, #15 and #16 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 20200209T071400 20200209T073345 C001 CFI Retracked Range Flag indicating the values stored in fields #13, #14, #15 and #16 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__20200209T074540_20200209T082034_C001 CFI Retracked Range Flag indicating the values stored in fields #13, #14, #15 and #16 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__20200209T084459_20200209T084921_C001 CFI Retracked Range Flag indicating the values stored in fields #13, #14, #15 and #16 should be ignored for these records. 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 CS_OFFL_SIR_FDM_2__20200209T085017_20200209T090753_C001 CFI Retracked Range Flag ianored for these records. The master fail flag is set by the CFI call, for one or more records CS_OFFL_SIR_FDM_2__20200209T092614_20200209T094335_C001 CFI Retracked Range Flag ignored for these records. 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 CS_OFFL_SIR_FDM_2__20200209T103442_20200209T104823_C001 CFI Retracked Range Flag indicating the values stored in fields #13, #14, #15 and #16 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 20200209T110518 20200209T112055 C001 CFI Retracked Range Flag indicating the values stored in fields #13, #14, #15 and #16 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_20200209T112256_20200209T113219_C001 indicating the values stored in fields #13, #14, #15 and #16 should be CFI Retracked Range Flag ianored for these records. The master fail flag is set by the CFI call, for one or more records CS_OFFL_SIR_FDM_2__20200209T120015_20200209T121142_C001 CFI Retracked Range Flag indicating the values stored in fields #13, #14, #15 and #16 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__20200209T142350_20200209T144933_C001 CFI Retracked Range Flag indicating the values stored in fields #13, #14, #15 and #16 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__20200209T152058_20200209T154927_C001 indicating the values stored in fields #13, #14, #15 and #16 should be CFI Retracked Range Flag ignored for these records. 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 CS OFFL SIR FDM 2 20200209T160236 20200209T162954 C001 CFI Retracked Range Flag ianored for these records. 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 CS_OFFL_SIR_FDM_2__20200209T165518_20200209T172833_C001 CFI Retracked Range Flag ignored for these records. 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 CS_OFFL_SIR_FDM_2__20200209T201212_20200209T203428_C001 CFI Retracked Range 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 20200209T220934 20200209T222106 C001 CFI Retracked Range Flag indicating the values stored in fields #13, #14, #15 and #16 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 20200209T233744 20200209T234716 C001 CFI Retracked Range Flag indicating the values stored in fields #13, #14, #15 and #16 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 20200209T234952 20200210T000451 C001 CFI Retracked Range Flag 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

22

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.

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220200209T002409_20200209T003325_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_220200209T003620_20200209T003903_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_220200209T010857_20200209T014242_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_220200209T014506_20200209T014549_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_220200209T024750_20200209T031701_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_220200209T071400_20200209T073345_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_220200209T074540_20200209T082034_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_220200209T084459_20200209T084921_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_220200209T085017_20200209T090753_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 ignored for these records.
CS_OFFL_SIR_FDM_220200209T092614_20200209T094335_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 ignored for these records.
CS_OFFL_SIR_FDM_220200209T103442_20200209T104823_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_220200209T110518_20200209T112055_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 ignored for these records.
CS_OFFL_SIR_FDM_220200209T112256_20200209T113219_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_220200209T120015_20200209T121142_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 ignored for these records.
CS_OFFL_SIR_FDM_220200209T142350_20200209T144933_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_220200209T152058_20200209T154927_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 ignored for these records.
CS_OFFL_SIR_FDM_220200209T160236_20200209T162954_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_220200209T165518_20200209T172833_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 ignored for these records.
CS_OFFL_SIR_FDM_220200209T201212_20200209T203428_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_220200209T220934_20200209T222106_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 ignored for these records.
CS_OFFL_SIR_FDM_220200209T233744_20200209T234716_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_220200209T234952_20200210T000451_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 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 36

Number	or products	with errors:	

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220200208T234912_20200209T000031_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_220200209T002409_20200209T003325_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_220200209T003620_20200209T003903_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_220200209T010857_20200209T014242_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_220200209T014506_20200209T014549_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_220200209T021210_20200209T023516_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_220200209T024750_20200209T031701_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_220200209T034710_20200209T041421_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_220200209T042736_20200209T050203_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_220200209T052432_20200209T053448_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_220200209T060658_20200209T064039_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_220200209T071400_20200209T073345_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_220200209T074540_20200209T082034_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_220200209T084459_20200209T084921_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_220200209T085017_20200209T090753_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_220200209T092614_20200209T094335_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_220200209T094824_20200209T095541_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_220200209T103442_20200209T104823_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_220200209T110518_20200209T112055_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_220200209T112256_20200209T113219_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_220200209T120015_20200209T121142_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_220200209T124426_20200209T130000_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_220200209T133800_20200209T141048_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_220200209T142350_20200209T144933_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_220200209T152058_20200209T154927_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_220200209T160236_20200209T162954_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_220200209T165518_20200209T172833_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_220200209T183358_20200209T190820_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_220200209T192030_20200209T194031_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_220200209T201212_20200209T203428_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_220200209T205948_20200209T212843_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_220200209T220753_20200209T220932_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_220200209T220934_20200209T222106_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_220200209T224333_20200209T225609_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_220200209T233744_20200209T234716_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_220200209T234952_20200210T000451_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag is set indicating the CFI Ocean Retracker was not successfully executed for one or more records.

7. QCC Report Analysis

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

Product type	Nb. Products	Nb. QCC Reports	Nb. Valid	Nb. Warnings	Nb. Errors
SIR1LRM_0_	178	178	177	1	0
SIR1SAR_0_	116	116	116	0	0
SIR1SIN_0_	104	104	104	0	0
SIR2SIN_0_	107	105	105	0	0
SIR_FDM_1B	178	178	2	0	176
SIR_FDM_2	175	175	128	47	0

CS_OPER_SIR2SIN_0_20200209T232035_20200209T232041_0001 CS_OPER_SIR2SIN_0_20200209T232038_20200209T232041_0001