

QA4EO Daily Report for FDM data:

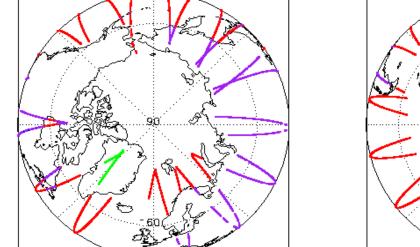
<u>29/10/2020</u>

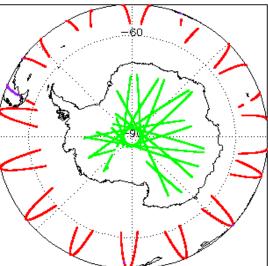
Report Production Date: 3	20 Oct 2020	Check	Status	
	30-Oct-2020	Server check: science-pds.cryosat.esa.int	Nominal	
Processor Used:	CryoSat Ice Processor	Server check: calval-pds.cryosat.esa.int	Nominal	
Processor Used:		Product Software Check	Nominal	
Data Used:	L1 and L2 Fast Delivery Marine (FDM)	Product Format Check	Nominal	
Data USed:	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	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	
		QCC Error/ Warning Check	See Section 7.1 and 7.2	

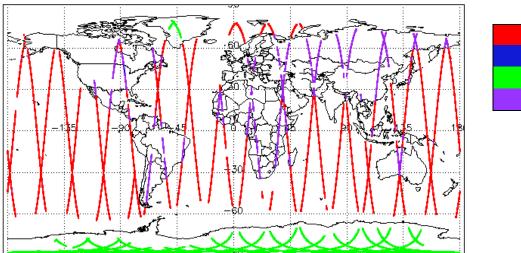
1. Overview

29-Oct-2020None30-Oct-2020Nothing planned

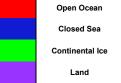












3. Instrument Configuration

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

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

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.

17

Number of products with errors:

Product	Test Failed
CS_OPER_SIR1SAR_020201029T002329_20201029T002507_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR1SAR_020201029T042105_20201029T042134_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR1SAR_020201029T101549_20201029T102111_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR1SAR_020201029T112717_20201029T112856_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR1SAR_020201029T125816_20201029T130001_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR1SAR_020201029T191138_20201029T191840_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR1SIN_020201029T073817_20201029T074126_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR1SIN_020201029T182844_20201029T183150_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR1SIN_020201029T205846_20201029T210306_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR1SIN_020201029T224027_20201029T224252_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR1SIN_020201029T231926_20201029T232319_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR1SIN_020201029T233102_20201029T233247_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR2SIN_020201029T024804_20201029T025932_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR2SIN_020201029T051015_20201029T051330_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR2SIN_0_20201029T105316_20201029T105617_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR2SIN_020201029T231727_20201029T231923_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR2SIN_020201029T235747_20201030T000102_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: 8

Product	Test Failed
CS_OFFL_SIR_FDM_1B_20201029T023322_20201029T023650_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_1B_20201029T023650_20201029T023843_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_1B_20201029T041254_20201029T041352_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_1B_20201029T041352_20201029T041405_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_1B_20201029T055227_20201029T055250_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_1B_20201029T055250_20201029T055316_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_1B_20201029T091602_20201029T091807_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_1B_20201029T091807_20201029T091927_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.

4

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Number of products with errors:
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Product	Test Failed
CS_OFFL_SIR_FDM_1B_20201029T023322_20201029T023650_C001	No Star Tracker file used in the processing of this product
CS_OFFL_SIR_FDM_1B_20201029T041254_20201029T041352_C001	No Star Tracker file used in the processing of this product
CS_OFFL_SIR_FDM_1B_20201029T055227_20201029T055250_C001	No Star Tracker file used in the processing of this product
CS_OFFL_SIR_FDM_1B_20201029T091602_20201029T091807_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.

0

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: 4			
Product	Test Failed	Description	
CS_OFFL_SIR_FDM_1B_20201029T023322_20201029T023650_C001	Attitude correction missing	The attitude has not been corrected	
CS_OFFL_SIR_FDM_1B_20201029T041254_20201029T041352_C001	Attitude correction missing	The attitude has not been corrected	
CS_OFFL_SIR_FDM_1B_20201029T055227_20201029T055250_C001	Attitude correction missing	The attitude has not been corrected	
CS_OFFL_SIR_FDM_1B_20201029T091602_20201029T091807_C001	Attitude correction missing	The attitude has not been corrected	

6. Level 2 FDM Data Quality Check

6.1 L2 FDM Product Format Check

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

6.2 L2 FDM Product Header Analysis

For all products, a series of pre-defined checks are carried out on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain. Number of products with errors: 26

Product	Test Failed
CS_OFFL_SIR_FDM_220201029T023322_20201029T023650_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_220201029T023650_20201029T023843_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_220201029T041254_20201029T041352_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_220201029T041352_20201029T041405_C001.DBL	Product filename start/stop differs slightly from start/stop validity due to rounding.
CS_OFFL_SIR_FDM_220201029T052527_20201029T052649_C001.DBL	Product filename start/stop differs slightly from start/stop validity due to rounding.
CS_OFFL_SIR_FDM_220201029T053952_20201029T054001_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_220201029T055227_20201029T055250_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_220201029T055250_20201029T055316_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_220201029T055632_20201029T060031_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_220201029T065340_20201029T065746_C001.DBL	Product filename start/stop differs slightly from start/stop validity due to rounding.
CS_OFFL_SIR_FDM_220201029T070313_20201029T071253_C001.DBL	Product filename start/stop differs slightly from start/stop validity due to rounding.
CS_OFFL_SIR_FDM_220201029T074934_20201029T074939_C001.DBL	Product filename start/stop differs slightly from start/stop validity due to rounding.
CS_OFFL_SIR_FDM_220201029T091602_20201029T091807_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_220201029T091807_20201029T091927_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_220201029T101138_20201029T101144_C001.DBL	Product filename start/stop differs slightly from start/stop validity due to rounding.
CS_OFFL_SIR_FDM_220201029T101209_20201029T101336_C001.DBL	Product filename start/stop differs slightly from start/stop validity due to rounding.
CS_OFFL_SIR_FDM_220201029T111117_20201029T111131_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_220201029T115050_20201029T115101_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_220201029T125354_20201029T125432_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_220201029T132624_20201029T133000_C001.DBL	Product filename start/stop differs slightly from start/stop validity due to rounding.
CS_OFFL_SIR_FDM_220201029T133008_20201029T133016_C001.DBL	Product filename start/stop differs slightly from start/stop validity due to rounding.
CS_OFFL_SIR_FDM_220201029T133721_20201029T140405_C001.DBL	Product filename start/stop differs slightly from start/stop validity due to rounding.
CS_OFFL_SIR_FDM_220201029T150407_20201029T150915_C001.DBL	Product filename start/stop differs slightly from start/stop validity due to rounding.
CS_OFFL_SIR_FDM_220201029T200535_20201029T200747_C001.DBL	Product filename start/stop differs slightly from start/stop validity due to rounding.
CS_OFFL_SIR_FDM_220201029T212302_20201029T213621_C001.DBL	Product filename start/stop differs slightly from start/stop validity due to rounding.
CS_OFFL_SIR_FDM_220201029T232319_20201029T232624_C001.DBL	Product filename start/stop differs slightly from start/stop validity due to rounding.

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.

39

Number of products with errors:

Test Failed	Description
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
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
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
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
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
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
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
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
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
	Sea State Bias Correction, Altimetric Wind Speed Sea State Bias Correction, Altimetric

GS, OFFL_SIR_FDM_2_202010207102410_20201020710235_0001 See State Bias Correction, Alimetric Wind Speed There is a more of more more difficult the Alimetric Wind Speed and See State Bias Correction for one of more more difficult the Alimetric Wind Speed and See State Bias Correction, Alimetric Wind Speed There is a more of more more difficult the singer of more more difficult correction for one of more more difficult the singer of more more difficult correction for one of more more difficult the singer of more more difficult correction for one more difficult the singer of more more difficult correction for one more difficult the singer of more more difficult correction for one more difficult the singer of more more difficult correction for one more difficult the singer of more more difficult correction for one more difficult the singer of more more difficult correction for one more difficult the singer of more more difficult correction for one more more difficult the singer of more more difficult correction for one more more difficult correction for one more more difficult the singer of more more difficult correction for one or more more difficult correctio	CS_OFFL_SIR_FDM_220201029T061211_20201029T062133_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_200102310/2310/2310/2310/2310231072049_0001 Wind Speed Correction for one or more arrow the records CS_OFFL_SIR_FDM_2_2000102310/2310/2310/2310/2310231072716_0001 Sea State Bias Correction, Allmetic Wind Speed and Sea State Bias Correc	CS_OFFL_SIR_FDM_220201029T062419_20201029T064539_C001		
Specify Sing FDM 2_200010201101411_200010011 Wind Specify Corrector, Almeter CS_OFFL_SIR_FDM 2_2000102011027107233_20020102010271648.0001 See State Bias Correction, Almeter Corrector for one or more records CS_OFFL_SIR_FDM 2_200010201002005002030_002010201004818_0001 See State Bias Correction, Almeter Correction for one or more records CS_OFFL_SIR_FDM 2_200010201002030_002010201004217_0001 See State Bias Correction, Almeter Correction for one or more records CS_OFFL_SIR_FDM 2_200010201002030_002010201004217_0001 See State Bias Correction, Almeter Correction for one or more records CS_OFFL_SIR_FDM 2_200010201100420_00010201102010 See State Bias Correction, Almeter Correction for one or more records CS_OFFL_SIR_FDM 2_200010201103030_0001020112211_0001 See State Bias Correction, Almeter Correction for one or more records CS_OFFL_SIR_FDM 2_20001020111201_20001020112211_0001 See State Bias Correction, Almeter Correction for one or more records CS_OFFL_SIR_FDM 2_20001020112221_200010201122410_0001 See State Bias Correction, Almeter Correction for one or more records CS_OFFL_SIR_FDM 2_20001020112221_200010201122410_0001 See State Bias Correction, Almeter Correction for one or more records CS_OFFL_SIR_FDM 2_20001020112241_0001 See State Bias Correction, Almeter Correction for one or more records CS	CS_OFFL_SIR_FDM_220201029T070313_20201029T071253_C001		
CS_OFFL_SIR_FDM_2_20201029707442_202010297082416_C001 Wind Speed There is an error with the Alteriority Wind Speed and See State Bias Correction, Alteriority CS_OFFL_SIR_FDM_2_20201029709433_02021029709438_C001 See State Bias Correction, Alteriority There is an error with the Alteriority Wind Speed and See State Bias CS_OFFL_SIR_FDM_2_20201029709438_0201029709438_C001 See State Bias Correction, Alteriority There is an error with the Alteriority Wind Speed and See State Bias CS_OFFL_SIR_FDM_2_202010297109370_0201029710351_C001 See State Bias Correction, Alteriority There is an error with the Alteriority Wind Speed and See State Bias CS_OFFL_SIR_FDM_2_20201029710370_02010297103516_C001 See State Bias Correction, Alteriority There is an error with the Alteriority Wind Speed and See State Bias CS_OFFL_SIR_FDM_2_202010297112820_C001 See State Bias Correction, Alteriority There is an error with the Alteriority Wind Speed and See State Bias CS_OFFL_SIR_FDM_2_202010297112820_C001 See State Bias Correction There is an error with the Alteriority Wind Speed and See State Bias CS_OFFL_SIR_FDM_2_202010297112820_C001 See State Bias Correction There is an error with the Alteriority Wind Speed and See State Bias CS_OFFL_SIR_FDM_2_2020102971130721_2020102971130721_2020102971130721_2020102971130721_2020102971130721_2020102971130721_2020102971130721_2020102971130721_2020102971130721_2020102971130721_2020102971130721_2020102971130721_2020102971130721_2020102971130721_2020102971130721_20201029711307	CS_OFFL_SIR_FDM_220201029T071441_20201029T072049_C001		
DS_OFFL_SIR_FDM_2_a020102107484_2001021094138_C001 Wind Speed There is an error with the Altherity: Wind Speed and Sea State Bias Correction, Altherity CS_OFFL_SIR_FDM_2_20201029109433_02010291094138_C001 Sea State Bias Correction, Altherity There is an error with the Altherity: Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_20201029109370_02201029110331_C001 Sea State Bias Correction, Altherity There is an error with the Altherity: Wind Speed CS_OFFL_SIR_FDM_2_20201029110330_D021102911029110291102911029110291102911	CS_OFFL_SIR_FDM_220201029T072233_20201029T072716_C001		
LS_OFFL_SIR_FDM_2_20201029T109432_20201029T1094217_C001 Set State Bias Correction, Altimetric GS_OFFL_SIR_FDM_2_20201029T094223_20201029T109316_C001 Set State Bias Correction, Altimetric GS_OFFL_SIR_FDM_2_20201029T109320_20201029T109316_C001 Set State Bias Correction, Altimetric CS_OFFL_SIR_FDM_2_20201029T11030_0201029T109316_C001 Set State Bias Correction, Altimetric CS_OFFL_SIR_FDM_2_20201029T111203_0201029T1103036_C001 Set State Bias Correction, Altimetric CS_OFFL_SIR_FDM_2_20201029T111203_0201029T1121207_C001 Set State Bias Correction, Altimetric CS_OFFL_SIR_FDM_2_20201029T113030_2001029T124100_C001 Set State Bias Correction, Altimetric CS_OFFL_SIR_FDM_2_20201029T13091_20201029T132047_C001 Set State Bias Correction CS_OFFL_SIR_FDM_2_20201029T13001_20201029T132047_C001 Set State Bias Correction CS_OFFL_SIR_FDM_2_20201029T13001_20201029T132047_C001 Set State Bias Correction CS_OFFL_SIR_FDM_2_20201029T130312_C0201029T13033_C001 Set State Bias Correction CS_OFFL_SIR_FDM_2_20201029T13031_C0201029T130332_C001 Set State Bias Correction CS_OFFL_SIR_FDM_2_20201029T130432_0201029T150033_C001 Set State Bias Correction CS_OFFL_SIR_FDM_2_20201029T13047_C0201 Set State Bias Correction CS_OFFL_SIR_FDM_2_20201029T13047_C0201 Set State Bias Correction CS_OFFL_SIR_FDM	CS_OFFL_SIR_FDM_220201029T074942_20201029T082418_C001		
LS_OFFL_SIR_FDM_2_20201029T094223_20201029T109351_C001 Wind Speed There is an error with he Altmetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_20201029T10370_20201029T10370_C001 Sea State Bias Correction, Altmetric Three is an error with he Altmetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_20201029T11203_20201029T122010_209T12840_C001 Sea State Bias Correction, Altmetric Three is an error with he Altmetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_20201029T11203_20201029T122010_209T12840_C001 Sea State Bias Correction Three is an error with he Altmetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_20201029T13201_20201029T132047_C001 Sea State Bias Correction Three is an error with he Altmetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_20201029T133721_20201029T132047_C001 Sea State Bias Correction Three is an error with he Altmetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_20201029T133721_20201029T132047_C001 Sea State Bias Correction Three is an error with he Altmetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_20201029T132047_C001 Sea State Bias Correction Three is an error with he Altmetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_20201029T132047_C001 Sea State Bias Correction Three is an error with he Altmetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_20201029T132047_C001 Sea State Bias Correction Three is an error with he Altme	CS_OFFL_SIR_FDM_220201029T084333_20201029T091438_C001	Sea State Bias Correction	
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CS_OFFL_SIR_FDM_2_20201029118335_20201029118335_C001 Wind Speed Correction for one or more records CS_OFFL_SIR_FDM_2_20201029T165732_20201029T173200_C001 Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_20201029T173200_20201029T175008_C001 Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_20201029T175002_20201029T175108_C001 Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_20201029T183544_20201029T191048_C001 Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_20201029T193837_20201029T195635_C001 Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_20201029T201524_20201029T204916_C001 Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_20201029T215437_20201029T220922_C001 Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_20201029T221244_C001029T220922_C001 Sea State Bias Correction There is an error with the Altimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_20201029T221246_C001 Sea State B	CS_OFFL_SIR_FDM_220201029T161248_20201029T162026_C001		records
CS_OFFL_SIR_FDM_2_202010291173200_20201029T173213_C001 Sea State Bias Correction records CS_OFFL_SIR_FDM_2_20201029T173200_20201029T173213_C001 Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_20201029T175002_20201029T17508_C001 Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_20201029T183544_20201029T191048_C001 Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_20201029T193837_20201029T195635_C001 Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_20201029T20524_20201029T204916_C001 Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_20201029T210315_20201029T212217_C001 Sea State Bias Correction There is an error with the Altimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_20201029T2212452_20201029T220922_C001 Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_20201029T22124252_20201029T222046_C001 Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_20201029T224252_20201029T224452_20201029T224452_2020102	CS_OFFL_SIR_FDM_220201029T163557_20201029T163935_C001		Correction for one or more records
CS_OFFL_SIR_FDM_2_202010291173200_202010291173213_C001Wind SpeedCorrection for one or more recordsCS_OFFL_SIR_FDM_2_20201029T175002_20201029T175002_20201029T175108_C001Sea State Bias Correction, Altimetric Wind SpeedThere is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more recordsCS_OFFL_SIR_FDM_2_20201029T183544_20201029T191048_C001Sea State Bias Correction, Altimetric Wind SpeedThere is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more recordsCS_OFFL_SIR_FDM_2_20201029T193837_20201029T195635_C001Sea State Bias Correction, Altimetric Wind SpeedThere is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more recordsCS_OFFL_SIR_FDM_2_20201029T201524_20201029T204916_C001Sea State Bias Correction, Altimetric Wind SpeedThere is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more recordsCS_OFFL_SIR_FDM_2_20201029T210315_20201029T212217_C001Sea State Bias Correction, Altimetric Wind SpeedThere is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more recordsCS_OFFL_SIR_FDM_2_20201029T215437_20201029T22046_C001Sea State Bias Correction, Altimetric Wind SpeedThere is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more recordsCS_OFFL_SIR_FDM_2_20201029T22124252_20201029T223004_C001Sea State Bias Correction, Altimetric Wind SpeedThere is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more recordsCS_OFFL_SIR_FDM_2_20201029T224525_20201029T23004_C001Sea State Bias Correction, Altimetric Wind SpeedThere is an error wi	CS_OFFL_SIR_FDM_220201029T165732_20201029T172940_C001		records
CS_OFFL_SIR_FDM_2_20201029T175002_20201029T175108_C001 Wind Speed Correction for one or more records CS_OFFL_SIR_FDM_2_20201029T183544_20201029T191048_C001 Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_20201029T193837_20201029T195635_C001 Wind Speed There is an error with the Altimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_20201029T201524_20201029T204916_C001 Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_20201029T2101524_20201029T212217_C001 Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_20201029T215437_20201029T220922_C001 Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_20201029T215437_20201029T220922_C001 Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_20201029T22124_20201029T220922_C001 Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_20201029T22124_20201029T22046_C001 Sea State Bias Correction There is an error with the Altimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_20201029T224252_20201029T22406_C001 Sea State Bias Correct	CS_OFFL_SIR_FDM_220201029T173200_20201029T173213_C001	Wind Speed	Correction for one or more records
CS_OFFL_SIR_FDM_2_20201029T183344_20201029T191048_C001 Wind Speed Correction for one or more records CS_OFFL_SIR_FDM_2_20201029T193837_20201029T195635_C001 Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_20201029T201524_20201029T204916_C001 Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_20201029T210315_20201029T212217_C001 Sea State Bias Correction There is an error with the Altimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_20201029T215437_20201029T212217_C001 Sea State Bias Correction There is an error with the Altimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_20201029T215437_20201029T220922_C001 Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_20201029T221124_20201029T22046_C001 Sea State Bias Correction, Altimetric There is an error with the Sea State Bias Correction for one or more records CS_OFFL_SIR_FDM_2_20201029T22452_20201029T22046_C001 Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_20201029T22452_20201029T22446_C001 Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_20201029T22452_20201029T22446_C001 Se	CS_OFFL_SIR_FDM_220201029T175002_20201029T175108_C001	Wind Speed	Correction for one or more records
CS_OFFL_SIR_FDM_2_20201029T193837_20201029T195635_C001 Wind Speed Correction for one or more records CS_OFFL_SIR_FDM_2_20201029T201524_20201029T204916_C001 Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_20201029T210315_20201029T212217_C001 Sea State Bias Correction There is an error with the Sea State Bias Correction for one or more records CS_OFFL_SIR_FDM_2_20201029T215437_20201029T220922_C001 Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_20201029T22124_20201029T220922_C001 Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_20201029T22124_20201029T220922_C001 Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_20201029T22124_20201029T22046_C001 Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_20201029T224252_20201029T230004_C001 Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_20201029T234472_20201029T2344826_C001 Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_20201029T234472_20201029T2344826_C001<	CS_OFFL_SIR_FDM_220201029T183544_20201029T191048_C001	Wind Speed	Correction for one or more records
CS_OFFL_SIR_FDM_2_202010291201524_202010291204916_C001 Wind Speed Correction for one or more records CS_OFFL_SIR_FDM_2_202010291210315_202010291212217_C001 Sea State Bias Correction There is an error with the Sea State Bias Correction for one or more records CS_OFFL_SIR_FDM_2_202010291215437_202010291220922_C001 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_2_202010291221124_202010291222046_C001 Sea State Bias Correction There is an error with the Sea State Bias Correction for one or more records CS_OFFL_SIR_FDM_2_20201029122212452_202010291222046_C001 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_2_202010291224252_20201029122004_C001 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_2_202010291224252_202010291230004_C001 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_2_202010291234172_302014291234826_C001 Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias	CS_OFFL_SIR_FDM_220201029T193837_20201029T195635_C001	Wind Speed	Correction for one or more records
CS_OFFL_SIR_FDM_2_20201029T215437_20201029T220922_C001 Sea State Bias Correction records CS_OFFL_SIR_FDM_2_20201029T215437_20201029T220922_C001 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_2_20201029T221124_20201029T22046_C001 Sea State Bias Correction, Altimetric There is an error with the Sea State Bias Correction for one or more records CS_OFFL_SIR_FDM_2_20201029T224252_20201029T22004_C001 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_2_20201029T224252_20201029T230004_C001 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_2_20201029T224252_20201029T230004_C001 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_2_20201029T234172_20201029T234826_C001 Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias	CS_OFFL_SIR_FDM_220201029T201524_20201029T204916_C001		Correction for one or more records
CS_OFFL_SIR_FDM_2_20201029122437_202010291220922_C001 Wind Speed Correction for one or more records CS_OFFL_SIR_FDM_2_202010291221124_202010291222046_C001 Sea State Bias Correction There is an error with the Sea State Bias Correction for one or more records CS_OFFL_SIR_FDM_2_202010291224252_202010291220004_C001 Sea State Bias Correction, Attimetric There is an error with the Attimetric Wind Speed and Sea State Bias Correction for one or more records CS_OFFL_SIR_FDM_2_202010291224252_202010291230004_C001 Sea State Bias Correction, Attimetric There is an error with the Attimetric Wind Speed and Sea State Bias Correction for one or more records CS_OFFL_SIR_FDM_2_20201029123417_202010291234826_C001 Sea State Bias Correction, Attimetric There is an error with the Attimetric Wind Speed and Sea State Bias	CS_OFFL_SIR_FDM_220201029T210315_20201029T212217_C001		records
CS_OFFL_SIR_FDM_2_202010291221124_202010291222046_C001 Sea State Bias Correction records CS_OFFL_SIR_FDM_2_202010291224252_20201029T230004_C001 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_2_20201029T224252_20201029T230004_C001 Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias Correction, Altimetric CS_OFFL_SIR_FDM_2_20201029T234172_0201029T234826_C001 Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias	CS_OFFL_SIR_FDM_220201029T215437_20201029T220922_C001		Correction for one or more records
CS_OFFL_SIR_FDM_2_202010291224292_202010291230004_C001 Wind Speed Wind Speed Correction, Attimetric Sea State Bias Correction, Attimetric Wind Speed and Sea State Bias	CS_OFFL_SIR_FDM_220201029T221124_20201029T222046_C001		records
	CS_OFFL_SIR_FDM_220201029T224252_20201029T230004_C001	Wind Speed	Correction for one or more records
	CS_OFFL_SIR_FDM_220201029T233417_20201029T234826_C001		•

6.5 L2 FDM Measurement Confidence Data Check

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

 Number of products with errors:
 4

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220201029T023322_20201029T023650_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220201029T041254_20201029T041352_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220201029T055227_20201029T055250_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220201029T091602_20201029T091807_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:

23

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220201029T002508_20201029T004642_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_220201029T011230_20201029T012010_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_220201029T012224_20201029T014832_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_220201029T034341_20201029T041050_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_220201029T041812_20201029T042105_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_220201029T061211_20201029T062133_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_220201029T062419_20201029T064539_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_220201029T071441_20201029T072049_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_220201029T072233_20201029T072716_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_220201029T074942_20201029T082418_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_220201029T092935_20201029T094217_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_220201029T094223_20201029T100351_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_220201029T103730_20201029T105316_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_220201029T111203_20201029T112717_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_220201029T115849_20201029T121820_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_20201029T122231_20201029T123410_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_220201029T175002_20201029T175108_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_220201029T183544_20201029T191048_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_220201029T193837_20201029T195635_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_220201029T201524_20201029T204916_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_220201029T215437_20201029T220922_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_220201029T224252_20201029T230004_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_220201029T233417_20201029T234826_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

23

Number of products with errors:

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_220201029T002508_20201029T004642_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_220201029T011230_20201029T012010_C001	CFI Backscatter Status Flag, SWH Squared Averaging Status Flag	The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #41, #42, #43 and #44 should be ignored for these records.
CS_OFFL_SIR_FDM_2_20201029T012224_20201029T014832_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_220201029T034341_20201029T041050_C001	CFI Backscatter Status Flag, SWH Squared Averaging Status Flag	The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #41, #42, #43 and #44 should be ignored for these records.
CS_OFFL_SIR_FDM_2_20201029T041812_20201029T042105_C001	CFI Backscatter Status Flag, SWH Squared Averaging Status Flag	The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #41, #42, #43 and #44 should be ignored for these records.
CS_OFFL_SIR_FDM_2_20201029T061211_20201029T062133_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_220201029T062419_20201029T064539_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_220201029T071441_20201029T072049_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_220201029T072233_20201029T072716_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_220201029T074942_20201029T082418_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_220201029T092935_20201029T094217_C001	CFI Backscatter Status Flag, SWH Squared Averaging Status Flag	The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #41, #42, #43 and #44 should be ignored for these records.
CS_OFFL_SIR_FDM_2_20201029T094223_20201029T100351_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_220201029T103730_20201029T105316_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_220201029T111203_20201029T112717_C001	CFI Backscatter Status Flag, SWH Squared Averaging Status Flag	The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #41, #42, #43 and #44 should be ignored for these records.
CS_OFFL_SIR_FDM_2_20201029T115849_20201029T121820_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_220201029T122231_20201029T123410_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_220201029T175002_20201029T175108_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_220201029T183544_20201029T191048_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_220201029T193837_20201029T195635_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_220201029T201524_20201029T204916_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_220201029T215437_20201029T220922_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_220201029T224252_20201029T230004_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_220201029T233417_20201029T234826_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:
 39

roduct	Test Failed	Description
S_OFFL_SIR_FDM_220201029T002508_20201029T004642_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.
S_OFFL_SIR_FDM_220201029T011230_20201029T012010_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.
S_OFFL_SIR_FDM_220201029T012224_20201029T014832_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.
S_OFFL_SIR_FDM_220201029T020705_20201029T022859_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.
S_OFFL_SIR_FDM_220201029T034341_20201029T041050_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.
S_OFFL_SIR_FDM_220201029T041812_20201029T042105_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.
S_OFFL_SIR_FDM_220201029T043302_20201029T050540_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.
S_OFFL_SIR_FDM_220201029T061050_20201029T061136_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.
S_OFFL_SIR_FDM_220201029T061211_20201029T062133_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.
S_OFFL_SIR_FDM_220201029T062419_20201029T064539_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.
S_OFFL_SIR_FDM_220201029T071441_20201029T072049_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.
S_OFFL_SIR_FDM_220201029T072233_20201029T072716_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.
S_OFFL_SIR_FDM_220201029T074942_20201029T082418_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.
S_OFFL_SIR_FDM_220201029T084333_20201029T091438_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.
S_OFFL_SIR_FDM_220201029T092935_20201029T094217_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.
S_OFFL_SIR_FDM_220201029T094223_20201029T100351_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.
S_OFFL_SIR_FDM_220201029T102111_20201029T103110_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.
S_OFFL_SIR_FDM_220201029T103730_20201029T105316_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.
S_OFFL_SIR_FDM_220201029T111203_20201029T112717_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.
S_OFFL_SIR_FDM_220201029T115849_20201029T121820_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.
S_OFFL_SIR_FDM_220201029T121822_20201029T122109_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.
S_OFFL_SIR_FDM_220201029T122231_20201029T123410_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.
S_OFFL_SIR_FDM_220201029T130001_20201029T132047_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.
S_OFFL_SIR_FDM_220201029T133721_20201029T140405_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.
S_OFFL_SIR_FDM_220201029T143612_20201029T150033_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.
S_OFFL_SIR_FDM_220201029T151653_20201029T155006_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.
S_OFFL_SIR_FDM_220201029T161248_20201029T162026_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.
S_OFFL_SIR_FDM_220201029T165732_20201029T172940_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.
S_OFFL_SIR_FDM_220201029T175002_20201029T175108_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.
S_OFFL_SIR_FDM_220201029T180221_20201029T181802_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.
S_OFFL_SIR_FDM_220201029T183544_20201029T191048_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.
S_OFFL_SIR_FDM_220201029T193321_20201029T193758_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.
S_OFFL_SIR_FDM_220201029T193837_20201029T195635_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_220201029T212302_20201029T213621_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_220201029T215437_20201029T220922_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_220201029T221124_20201029T222046_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_220201029T224252_20201029T230004_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_220201029T233417_20201029T234826_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag is set indicating the CFI Ocean Retracker was not successfully executed for one or more records.

7. QCC Report Analysis

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

Product type	Nb. Products	Nb. QCC Reports	Nb. Valid	Nb. Warnings	Nb. Errors
SIR1LRM_0_	161	161	161	0	0
SIR1SAR_0_	100	100	99	1	0
SIR1SIN_0_	104	104	104	0	0
SIR2SIN_0_	107	107	107	0	0
SIR_FDM_1B	161	161	4	0	157
SIR_FDM_2	161	161	112	49	0

7.1 QCC Errors

reports with e	rrors:	157								
				Total number	of occurrences	of each error				
UVOB	-	-	-	-	-	-				
157										
Key:										
Test na	me		Details							
UnitVect	UnitVectorOrBlank_6 The three array elements should form a unit vector (using a scale factor of 10^-6)									
	UVOB 157 Key: Test na	157 Key: Test name	UVOB 157 Key: Test name	UVOB - - 157 - - Key:	Total number UVOB - - - - - - 157 157 57 57 57 57 56 </th <th>Total number of occurrences UVOB - 157 157 1 1 - - - - - - - 1 57 1 57 1 <th1< th=""> 1 <th1< th=""> 1<</th1<></th1<></th> <th>Total number of occurrences of each error UVOB - - - - - - - - - 157 <</th> <th>Total number of occurrences of each error UVOB -</th> <th>Total number of occurrences of each error UVOB -</th> <th>Total number of occurrences of each error UVOB -</th>	Total number of occurrences UVOB - 157 157 1 1 - - - - - - - 1 57 1 57 1 <th1< th=""> 1 <th1< th=""> 1<</th1<></th1<>	Total number of occurrences of each error UVOB - - - - - - - - - 157 <	Total number of occurrences of each error UVOB -	Total number of occurrences of each error UVOB -	Total number of occurrences of each error UVOB -

7.2 QCC Warnings

Number of QCC reports with warnings 167

					Total number of	of occurrences o	f each warning					
Product Type	MVSIO	MVSIOFD	QF	RBSZO	RBSZOFD	RSSBCO	-	-	-	-	-	
SIR1SAR_0_	0	0	1	0	0	0						
SIR_FDM_2_	39	39	0	35	44	9						
Test Description	Key:											
Abbreviation	Test na	Test name Details										
MVSIO	Missing	MissingValueShortIntOcean The value should not be a 'missing value' for surface type 0 only										
MVSIOFD	Missing	ValueShortIntOcean	FD2	The value should not be a 'missing value' for surface type 0 only								
QF	QualityF	lag		This quality flag should be 0								
RBSZO	RangeB	RangeBackscatterSigmaZeroOcean The backscatter sigma zero should be between 700 and 3000 (or missing) for surface type = ocean										
RBSZOFD	RangeB	ackscatterSigmaZer	sscatterSigmaZeroOceanFD2 The backscatter sigma zero should be between 700 and 3000 (or missing) for surface type = ocean									
RSSBCO	RangeS	eaStateBiasCorrect	ionOcean	The sea state bias correction should be between -500mm and 0mm (or missing) for surface type = ocean								

7.3 Missing QCC Reports

Number of products with missing QCC reports:

0