

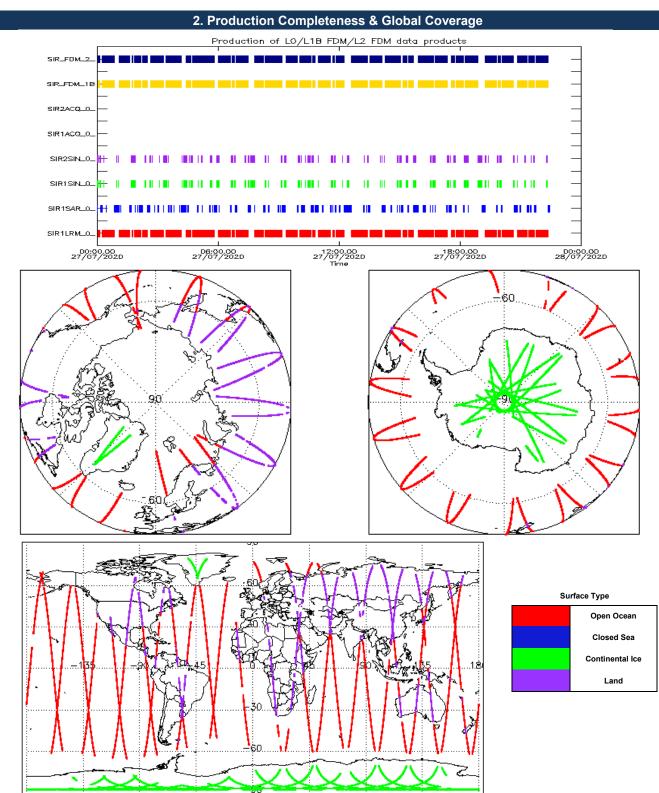
# **QA4EO Daily Report for FDM data:**

<u>27/07/2020</u>

## 1. Overview

Papart Braduction Date	28-Jul-2020	Check	Status
Report Production Date:	28-Jui-2020	Server check: science-pds.cryosat.esa.int	Nominal
Processor Used:	CryoSat Ice Processor	Server check: calval-pds.cryosat.esa.int	Nominal
Processor Useu.		Product Software Check	Nominal
Data Used:	L1 and L2 Fast Delivery Marine (FDM) Mode and L0 Data Product Header Analysis	Product Format Check	Nominal
Data Oseu.		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
		QCC Error/ Warning Check	See Section 7.1 and 7.2

Mission / Instrument News		
26-Jul-2020	AUXI IONGIM files delayed	
27-Jul-2020	CRYO2ICE Orbit raising activities. SIRAL unavailability from 27/07/2020 22:26:11 to 28/07/2020 05:09:47. AUXI IONGIM files continue to be delayed	
28-Jul-2020	CRYO2ICE Orbit raising activities.	



	3. I	nstrui	ment Configuration		
The SIRAL instrument configuration for the	ne day of acquisition is provided below.				
SIRAL instrument(s) in use:	SIRAL - A				
	Star Tracker 1				
Star Tracker(s) in use:	Star Hacker I				
	4. L	evel 0	Data Quality Check	٢	
4.1 L0 Product Format Che	ck				
Each product, retrieved and unpacked fro	om the science server is checked to ensu	ure it cons	sists of both an XML beader file ( I	HDR) an	ud a binary product file ( DBI )
Number of products with errors:				ibit) un	
4.2 L0 Product Header Anal	ysis				
For all products, a series of pre-defined of		PH in orde	er to identify any inconsistencies a	and/or en	rors raised by the processing chain.
Number of products with errors:	1				
Product	747 000070777020240 0004 UDD		Test Failed	dataata	d another there associately three held
CS_OPER_SIR1SIN_0_20200727T031	/1/_202007271032310_0001.HDR		Percentage of processing errors	detected	d greater than minimum acceptable threshold.
	5. Leve	l 1B F	DM Data Quality Ch	neck	
5.1 L1B FDM Product Form	at Check				
Each product, retrieved and unpacked fro	om the science server, is checked to ensu	ure it cons	sists of both an XML header file (.)	HDR) an	d a binary product file (.DBL).
Number of products with errors:	0			ibri) an	
5.2 L1B FDM Product Head	er Analysis				
For all products, a series of pre-defined of	hecks are carried out on the MPH and SI	PH in orde	er to identify any inconsistencies a	and/or en	rors raised by the ground-segment processing chain.
Number of products with errors:	8				
Product			Test Failed		
CS_OFFL_SIR_FDM_1B_20200727T07					sed instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_1B_20200727T07	2430_20200727T072747_C001.DBL		FOS Predicted Orbit (MPL_ORB	PRE) us	sed instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_1B_20200727T09			· -		sed instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_1B_20200727T09	0141_20200727T090158_C001.DBL				sed instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_1B_20200727T104036_20200727T104050_C001.DBL		· -	,	sed instead of the DORIS Navigator Orbit (DOR_NAV).	
		FOS Predicted Orbit (MPL_ORB	PRE) us	sed instead of the DORIS Navigator Orbit (DOR_NAV).	
CS_OFFL_SIR_FDM_1B_20200727T14			· -		sed instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_1B_20200727T14	0651_20200727T140721_C001.DBL		FOS Predicted Orbit (MPL_ORB	PRE) us	sed instead of the DORIS Navigator Orbit (DOR_NAV).
5.3 L1B FDM Star Tracker U	Isage Check				
Each product is checked in order to ensu	re a valid star tracker file has been used	in process	sing.		
Number of products with errors:	4				
Product			Test Failed		
CS_OFFL_SIR_FDM_1B_20200727T07	2117_20200727T072430_C001		No Star Tracker file used in the p	processir	ng of this product
CS_OFFL_SIR_FDM_1B_20200727T09	0048_20200727T090141_C001		No Star Tracker file used in the p	processir	ng of this product
CS_OFFL_SIR_FDM_1B_20200727T10	4036_20200727T104050_C001		No Star Tracker file used in the p	processir	ng of this product
CS_OFFL_SIR_FDM_1B_20200727T14	0329_20200727T140651_C001		No Star Tracker file used in the processing of this product		
5.4 L1B FDM Calibration Us	-				
Each product is checked in order to ensu Number of products with errors:	re the necessary calibration files have be	en used i	n processing.		
•					
5.5 L1B FDM Auxilary Data	File Usage Check				
Each product is checked for missing Data		etermined	baseline and also to check the va	lidity of A	Auxiliary Data Files is correct.
Number of products with errors:	147				
Product		AUX Fi	le		Comment
147 FDM_1B products from 2020/07/27 (	00:03:24 until 2020/07/27 22:20:38	AUX IC	NGIM		Due to a missing Forecast Auxiliary File there is an error with the lonospheric Correction
5.6 L1B FDM Auxiliary Corr	ection Error Check				
CryoSat L1B data includes a correction e	rror flag (field 54) for each measurement	record. T	he bit value of this flag indicates a	iny probl	lems when set.
Number of products with errors:	147		-		
Product		Test Fa	ailed	Descri	ntion
147 FDM_1B products from 2020/07/27 (	00:03:24 until 2020/07/27 22:20:38		ic atmosphere correction, GIM eric correction		a missing Forecast Auxiliary Files there is an error with the Dry pheric, Wet Tropospheric and Inverse Barometric Corrections

#### 5.7 L1B FDM Measurement Confidence Data Check

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

Number of	products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_FDM_1B_20200727T072117_20200727T072430_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20200727T090048_20200727T090141_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20200727T104036_20200727T104050_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20200727T140329_20200727T140651_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20200727T141536_20200727T142114_C001	Echo error, TRK echo error	The tracking echo has returned an error and the Rx1 Echo Error flag is set, indicating a degraded echo
CS_OFFL_SIR_FDM_1B_20200727T211432_20200727T212005_C001	Echo error, TRK echo error	The tracking echo has returned an error and the Rx1 Echo Error flag is set, indicating a degraded echo

## 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: 25

CS_OFFL_SIR_FDM_2_20200727T021520_20200727T022220_C001.DBL       Product fliename start/stop differs slightly from start/stop validity due to rounding.         CS_OFFL_SIR_FDM_2_20200727T032804_20200727T03326_C001.DBL       Product fliename start/stop differs slightly from start/stop validity due to rounding.         CS_OFFL_SIR_FDM_2_20200727T043410_20200727T043857_C001.DBL       Product fliename start/stop differs slightly from start/stop validity due to rounding.         CS_OFFL_SIR_FDM_2_20200727T064154_20200727T065231_C001.DBL       Product fliename start/stop differs slightly from start/stop validity due to rounding.         CS_OFFL_SIR_FDM_2_20200727T076172       C001.DBL       Product fliename start/stop differs slightly from start/stop validity due to rounding.         CS_OFFL_SIR_FDM_2_20200727T071807_20200727T072430_C001.DBL       Product fliename start/stop differs slightly from start/stop validity due to rounding.         CS_OFFL_SIR_FDM_2_20200727T070211_2001.DBL       FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).         CS_OFFL_SIR_FDM_2_20200727T090048_20200727T090141_2001.DBL       FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).         CS_OFFL_SIR_FDM_2_20200727T104056_20200727T104056_C001.DBL       FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).         CS_OFFL_SIR_FDM_2_20200727T104056_20200727T104056_C001.DBL       FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).         CS_OFFL_SIR_FDM_2_20200727T104055_20200727T1131214_C001.DBL       FOS Predicte	Product	Test Failed
CS_OFFL_SIR_FDM_2_20200727T032604_20200727T033026_C001.DBL       Product filename start/stop differs slightly from start/stop validity due to rounding.         CS_OFFL_SIR_FDM_2_20200727T043410_20200727T054154_20200727T054514_20200727T054154_20200727T054154_20200727T05528_C001.DBL       Product filename start/stop differs slightly from start/stop validity due to rounding.         CS_OFFL_SIR_FDM_2_20200727T054154_20200727T076523_C001.DBL       Product filename start/stop differs slightly from start/stop validity due to rounding.         CS_OFFL_SIR_FDM_2_20200727T071807_20200727T072430_C001.DBL       Product filename start/stop differs slightly from start/stop validity due to rounding.         CS_OFFL_SIR_FDM_2_20200727T070430_2020727T072430_C001.DBL       FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).         CS_OFFL_SIR_FDM_2_20200727T090141_20200727T090141_C001.DBL       FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).         CS_OFFL_SIR_FDM_2_20200727T104058_20200727T104058_C001.DBL       FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).         CS_OFFL_SIR_FDM_2_20200727T104058_20200727T104058_C001.DBL       FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).         CS_OFFL_SIR_FDM_2_20200727T104059_20200727T104055_20200727T104055_20200727T104055_20200727T104055_20200727T104055_20200727T104055_20200727T104055_20200727T104055_20200727T104055_20200727T104055_20200727T104055_20200727T104055_20200727T104055_20200727T104055_20200727T104055_20200727T104055_20200727T104055_20200727T104055_20200727T104055_202000727T104055         CS_OFFL_	CS_OFFL_SIR_FDM_220200727T021520_20200727T022220_C001.DBL	Product filename start/stop differs slightly from start/stop validity due to rounding.
CS_OFFL_SIR_FDM_2_20200727T043410_20200727T043857_C001.DBL       Product filename start/stop differs slightly from start/stop validity due to rounding.         CS_OFFL_SIR_FDM_2_20200727T054154_20200727T054210_C001.DBL       Product filename start/stop differs slightly from start/stop validity due to rounding.         CS_OFFL_SIR_FDM_2_20200727T065231_20200727T076410_C001.DBL       Product filename start/stop differs slightly from start/stop validity due to rounding.         CS_OFFL_SIR_FDM_2_20200727T07117_20200727T072430_C001.DBL       Product filename start/stop differs slightly from start/stop validity due to rounding.         CS_OFFL_SIR_FDM_2_20200727T07430_20200727T072430_C001.DBL       FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).         CS_OFFL_SIR_FDM_2_20200727T090448_20200727T090141_C001.DBL       FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).         CS_OFFL_SIR_FDM_2_20200727T104050_2020727T104050_C001.DBL       FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).         CS_OFFL_SIR_FDM_2_20200727T104050_2020727T104050_C001.DBL       FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).         CS_OFFL_SIR_FDM_2_20200727T14036_20200727T140650_C001.DBL       FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).         CS_OFFL_SIR_FDM_2_20200727T14036_20200727T140651_C001.DBL       FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).         CS_OFFL_SIR_FDM_2_20200727T140651_20200727T140651_C001.DBL       FOS	CS_OFFL_SIR_FDM_220200727T030134_20200727T030433_C001.DBL	Product filename start/stop differs slightly from start/stop validity due to rounding.
CS_OFFL_SIR_FDM_2_20200727T054154_20200727T054210_C001.DBL       Product filename start/stop differs slightly from start/stop validity due to rounding.         CS_OFFL_SIR_FDM_2_20200727T065521_20200727T0705528_C001.DBL       Product filename start/stop differs slightly from start/stop validity due to rounding.         CS_OFFL_SIR_FDM_2_20200727T0701007_20200727T072011_C001.DBL       Product filename start/stop differs slightly from start/stop validity due to rounding.         CS_OFFL_SIR_FDM_2_20200727T072117_20200727T072430_C001.DBL       FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).         CS_OFFL_SIR_FDM_2_20200727T090141_20200727T090141_C001.DBL       FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).         CS_OFFL_SIR_FDM_2_20200727T10406_20200727T1090158_C001.DBL       FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).         CS_OFFL_SIR_FDM_2_20200727T104050_20200727T104056_C001.DBL       FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).         CS_OFFL_SIR_FDM_2_20200727T104050_20200727T104050_C001.DBL       FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).         CS_OFFL_SIR_FDM_2_20200727T104051_20200727T140651_C001.DBL       FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).         CS_OFFL_SIR_FDM_2_20200727T140512_2020727T140335_C001.DBL       FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).         CS_OFFL_SIR_FDM_2_20200727T140336_2020777T140335_C001.DBL	CS_OFFL_SIR_FDM_220200727T032604_20200727T033026_C001.DBL	Product filename start/stop differs slightly from start/stop validity due to rounding.
CS_OFFL_SIR_FDM 2_20200727T065231_20200727T065528_C001.DBL       Product filename start/stop differs slightly from start/stop validity due to rounding.         CS_OFFL_SIR_FDM 2_20200727T0807_2000727T072011_C001.DBL       Product filename start/stop differs slightly from start/stop validity due to rounding.         CS_OFFL_SIR_FDM 2_20200727T072117_20200727T072430_C001.DBL       FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).         CS_OFFL_SIR_FDM 2_20200727T072430_20200727T07247_C001.DBL       FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).         CS_OFFL_SIR_FDM 2_20200727T090141_20200727T090158_C001.DBL       FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).         CS_OFFL_SIR_FDM 2_20200727T104036_20200727T104050_C001.DBL       FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).         CS_OFFL_SIR_FDM 2_20200727T104050_20200727T104050_C001.DBL       FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).         CS_OFFL_SIR_FDM 2_20200727T104050_20200727T104050_C001.DBL       FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).         CS_OFFL_SIR_FDM 2_20200727T104050_20200727T104050_C001.DBL       FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).         CS_OFFL_SIR_FDM 2_20200727T104050_20200727T104050_C001.DBL       FOOduct filename start/stop differs slightly from start/stop validity due to rounding.         CS_OFFL_SIR_FDM 2_20200727T140551_20200727T140721_C001.DBL       Pr	CS_OFFL_SIR_FDM_220200727T043410_20200727T043857_C001.DBL	Product filename start/stop differs slightly from start/stop validity due to rounding.
CS_OFFL_SIR_FDM_2_20200727T071807_20200727T072011_C001.DBL       Product filename start/stop differs slightly from start/stop validity due to rounding.         CS_OFFL_SIR_FDM_2_20200727T072117_20200727T072430_C001.DBL       FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).         CS_OFFL_SIR_FDM_2_20200727T072430_20200727T07247_C001.DBL       FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).         CS_OFFL_SIR_FDM_2_20200727T090141_20200727T090158_C001.DBL       FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).         CS_OFFL_SIR_FDM_2_20200727T104056_20200727T104056_C001.DBL       FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).         CS_OFFL_SIR_FDM_2_20200727T104050_20200727T104056_C001.DBL       FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).         CS_OFFL_SIR_FDM_2_20200727T14050_20200727T140108_C001.DBL       FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).         CS_OFFL_SIR_FDM_2_20200727T14050_20200727T140651_C001.DBL       FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).         CS_OFFL_SIR_FDM_2_20200727T1405336_20200727T140651_C001.DBL       FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).         CS_OFFL_SIR_FDM_2_20200727T1405336_20200727T1405315_C001.DBL       FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).         CS_OFFL_SIR_FDM_2_20200727T1183035_20200727T1152335_C001.DBL <t< td=""><td>CS_OFFL_SIR_FDM_220200727T054154_20200727T054210_C001.DBL</td><td>Product filename start/stop differs slightly from start/stop validity due to rounding.</td></t<>	CS_OFFL_SIR_FDM_220200727T054154_20200727T054210_C001.DBL	Product filename start/stop differs slightly from start/stop validity due to rounding.
CS_OFFL_SIR_FDM_2_20200727T072117_20200727T072430_C001.DBLFOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).CS_OFFL_SIR_FDM_2_20200727T070430_2020727T070414_C001.DBLFOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).CS_OFFL_SIR_FDM_2_20200727T090044_20200727T090141_C001.DBLFOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).CS_OFFL_SIR_FDM_2_20200727T090141_20200727T090158_C001.DBLFOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).CS_OFFL_SIR_FDM_2_20200727T104036_0200727T104050_C001.DBLFOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).CS_OFFL_SIR_FDM_2_20200727T104050_0200727T10408_C001.DBLFOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).CS_OFFL_SIR_FDM_2_20200727T140329_0200727T11408_C001.DBLFOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).CS_OFFL_SIR_FDM_2_20200727T140329_0200727T140721_C001.DBLFOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).CS_OFFL_SIR_FDM_2_20200727T171233_0200727T171203_0200727T17200_C001.DBLProduct filename start/stop differs slightly from start/stop validity due to rounding.CS_OFFL_SIR_FDM_2_20200727T192314_20200727T194904_C001.DBLProduct filename start/stop differs slightly from start/stop validity due to rounding.CS_OFFL_SIR_FDM_2_20200727T14323_0200727T212005_C001.DBLProduct filename start/stop differs slightly from start/stop validity due to rounding.CS_OFFL_SIR_FDM_2_20200727T14323_0200727T212005_C001.DBLProduct filename start/stop differs slightly from start/stop validity due to rounding. </td <td>CS_OFFL_SIR_FDM_220200727T065231_20200727T065528_C001.DBL</td> <td>Product filename start/stop differs slightly from start/stop validity due to rounding.</td>	CS_OFFL_SIR_FDM_220200727T065231_20200727T065528_C001.DBL	Product filename start/stop differs slightly from start/stop validity due to rounding.
CS_OFFL_SIR_FDM_2_20200727T072430_20200727T072747_C001.DBLFOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).CS_OFFL_SIR_FDM_2_20200727T090048_20200727T090141_C001.DBLFOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).CS_OFFL_SIR_FDM_2_20200727T090141_20200727T090158_C001.DBLFOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).CS_OFFL_SIR_FDM_2_20200727T104036_20200727T104050_C001.DBLFOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).CS_OFFL_SIR_FDM_2_20200727T104050_20200727T104108_C001.DBLFOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).CS_OFFL_SIR_FDM_2_20200727T104050_20200727T104108_C001.DBLFOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).CS_OFFL_SIR_FDM_2_20200727T104050_20200727T1040651_C001.DBLFOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).CS_OFFL_SIR_FDM_2_20200727T140551_20200727T140721_C001.DBLFOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).CS_OFFL_SIR_FDM_2_20200727T171232_0200727T17230_C001.DBLProduct filename start/stop differs slightly from start/stop validity due to rounding.CS_OFFL_SIR_FDM_2_20200727T192314_20200727T19404_C001.DBLProduct filename start/stop differs slightly from start/stop validity due to rounding.CS_OFFL_SIR_FDM_2_20200727T192314_20200727T19404_C001.DBLProduct filename start/stop differs slightly from start/stop validity due to rounding.CS_OFFL_SIR_FDM_2_20200727T192314_20200727T19404_C001.DBLProduct filename start/stop differs slightly from start/stop validity due to rounding. <td>CS_OFFL_SIR_FDM_220200727T071807_20200727T072011_C001.DBL</td> <td>Product filename start/stop differs slightly from start/stop validity due to rounding.</td>	CS_OFFL_SIR_FDM_220200727T071807_20200727T072011_C001.DBL	Product filename start/stop differs slightly from start/stop validity due to rounding.
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CS_OFFL_SIR_FDM_2_20200727T090141_20200727T090158_C001.DBLFOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).CS_OFFL_SIR_FDM_2_20200727T104036_20200727T104050_C001.DBLFOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).CS_OFFL_SIR_FDM_2_20200727T104050_20200727T104108_C001.DBLFOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).CS_OFFL_SIR_FDM_2_20200727T104050_20200727T104108_C001.DBLFOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).CS_OFFL_SIR_FDM_2_20200727T140329_20200727T113214_C001.DBLFOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).CS_OFFL_SIR_FDM_2_20200727T14051_20200727T140651_C001.DBLFOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).CS_OFFL_SIR_FDM_2_20200727T14051_20200727T140721_C001.DBLFOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).CS_OFFL_SIR_FDM_2_20200727T163336_20200727T163335_C001.DBLProduct filename start/stop differs slightly from start/stop validity due to rounding.CS_OFFL_SIR_FDM_2_20200727T185315_C001.DBLProduct filename start/stop differs slightly from start/stop validity due to rounding.CS_OFFL_SIR_FDM_2_20200727T192314_20200727T194904_C001.DBLProduct filename start/stop differs slightly from start/stop validity due to rounding.CS_OFFL_SIR_FDM_2_20200727T193515_20200727T1200042_C001.DBLProduct filename start/stop differs slightly from start/stop validity due to rounding.CS_OFFL_SIR_FDM_2_20200727T194304_C001.DBLProduct filename start/stop differs slightly from start/stop validity due to rounding.CS_OFFL_SIR_FDM_2_	CS_OFFL_SIR_FDM_220200727T072430_20200727T072747_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM 2_20200727T104036_20200727T104050_C001.DBLFOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).CS_OFFL_SIR_FDM 2_20200727T104050_20200727T104108_C001.DBLFOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).CS_OFFL_SIR_FDM 2_20200727T104050_20200727T104108_C001.DBLFOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).CS_OFFL_SIR_FDM 2_20200727T140329_20200727T140651_C001.DBLFOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).CS_OFFL_SIR_FDM 2_20200727T140651_20200727T140651_C001.DBLFOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).CS_OFFL_SIR_FDM 2_20200727T163336_20200727T163835_C001.DBLFOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).CS_OFFL_SIR_FDM 2_20200727T172132_20200727T185315_C001.DBLProduct filename start/stop differs slightly from start/stop validity due to rounding.CS_OFFL_SIR_FDM 2_20200727T192314_20200727T194904_C001.DBLProduct filename start/stop differs slightly from start/stop validity due to rounding.CS_OFFL_SIR_FDM 2_20200727T19515_20200727T120042_C001.DBLProduct filename start/stop differs slightly from start/stop validity due to rounding.CS_OFFL_SIR_FDM 2_20200727T19314_20200727T12005_C001.DBLProduct filename start/stop differs slightly from start/stop validity due to rounding.CS_OFFL_SIR_FDM 2_20200727T19314_20200727T21340_C001.DBLProduct filename start/stop differs slightly from start/stop validity due to rounding.CS_OFFL_SIR_FDM 2_20200727T21340_2000727T21340_C001.DBLProduct filename start/stop differs slightly from start/stop validity due to rounding.	CS_OFFL_SIR_FDM_220200727T090048_20200727T090141_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_2_20200727T104050_20200727T104108_C001.DBLFOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).CS_OFFL_SIR_FDM_2_20200727T123708_20200727T131214_C001.DBLProduct filename start/stop differs slightly from start/stop validity due to rounding.CS_OFFL_SIR_FDM_2_20200727T140329_20200727T140651_C001.DBLFOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).CS_OFFL_SIR_FDM_2_20200727T140651_20200727T140651_20200727T140651_C001.DBLFOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).CS_OFFL_SIR_FDM_2_20200727T163336_20200727T163335_C001.DBLFOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).CS_OFFL_SIR_FDM_2_20200727T17213_20200727T172200_C001.DBLProduct filename start/stop differs slightly from start/stop validity due to rounding.CS_OFFL_SIR_FDM_2_20200727T192314_20200727T194904_C001.DBLProduct filename start/stop differs slightly from start/stop validity due to rounding.CS_OFFL_SIR_FDM_2_20200727T195715_20200727T194904_C001.DBLProduct filename start/stop differs slightly from start/stop validity due to rounding.CS_OFFL_SIR_FDM_2_20200727T195715_20200727T194904_C001.DBLProduct filename start/stop differs slightly from start/stop validity due to rounding.CS_OFFL_SIR_FDM_2_20200727T195715_20200727T212005_C001.DBLProduct filename start/stop differs slightly from start/stop validity due to rounding.CS_OFFL_SIR_FDM_2_20200727T213203_20200727T213740_C001.DBLProduct filename start/stop differs slightly from start/stop validity due to rounding.CS_OFFL_SIR_FDM_2_20200727T213905_20200727T213942_C001.DBLProduct filename start/stop differs slightly from start/stop validity d	CS_OFFL_SIR_FDM_220200727T090141_20200727T090158_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_2_20200727T123708_20200727T131214_C001.DBLProduct filename start/stop differs slightly from start/stop validity due to rounding.CS_OFFL_SIR_FDM_2_20200727T140329_20200727T140651_C001.DBLFOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).CS_OFFL_SIR_FDM_2_20200727T140651_20200727T140651_C001.DBLFOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).CS_OFFL_SIR_FDM_2_20200727T163336_20200727T163335_C001.DBLProduct filename start/stop differs slightly from start/stop validity due to rounding.CS_OFFL_SIR_FDM_2_20200727T172123_20200727T172200_C001.DBLProduct filename start/stop differs slightly from start/stop validity due to rounding.CS_OFFL_SIR_FDM_2_20200727T185015_20200727T185315_C001.DBLProduct filename start/stop differs slightly from start/stop validity due to rounding.CS_OFFL_SIR_FDM_2_20200727T192314_20200727T194904_C001.DBLProduct filename start/stop differs slightly from start/stop validity due to rounding.CS_OFFL_SIR_FDM_2_20200727T11432_20200727T11432_20200727T12005_C001.DBLProduct filename start/stop differs slightly from start/stop validity due to rounding.CS_OFFL_SIR_FDM_2_20200727T211432_20200727T21304_C001.DBLProduct filename start/stop differs slightly from start/stop validity due to rounding.CS_OFFL_SIR_FDM_2_20200727T213203_20200727T213740_C001.DBLProduct filename start/stop differs slightly from start/stop validity due to rounding.CS_OFFL_SIR_FDM_2_20200727T213203_20200727T213942_C001.DBLProduct filename start/stop differs slightly from start/stop validity due to rounding.CS_OFFL_SIR_FDM_2_20200727T213305_20200727T213942_C001.DBLProduct filename start/stop differs slightly from start/stop validity du	CS_OFFL_SIR_FDM_220200727T104036_20200727T104050_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_2_20200727T140329_20200727T140651_C001.DBLFOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).CS_OFFL_SIR_FDM_2_20200727T140651_20200727T140721_C001.DBLFOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).CS_OFFL_SIR_FDM_2_20200727T163336_20200727T163335_C001.DBLProduct filename start/stop differs slightly from start/stop validity due to rounding.CS_OFFL_SIR_FDM_2_20200727T172123_20200727T172200_C001.DBLProduct filename start/stop differs slightly from start/stop validity due to rounding.CS_OFFL_SIR_FDM_2_20200727T185015_20200727T185315_C001.DBLProduct filename start/stop differs slightly from start/stop validity due to rounding.CS_OFFL_SIR_FDM_2_20200727T192314_20200727T194904_C001.DBLProduct filename start/stop differs slightly from start/stop validity due to rounding.CS_OFFL_SIR_FDM_2_20200727T211432_20200727T212005_C001.DBLProduct filename start/stop differs slightly from start/stop validity due to rounding.CS_OFFL_SIR_FDM_2_20200727T21303_20200727T212005_C001.DBLProduct filename start/stop differs slightly from start/stop validity due to rounding.CS_OFFL_SIR_FDM_2_20200727T21303_20200727T213740_C001.DBLProduct filename start/stop differs slightly from start/stop validity due to rounding.CS_OFFL_SIR_FDM_2_20200727T213905_20200727T213942_C001.DBLProduct filename start/stop differs slightly from start/stop validity due to rounding.CS_OFFL_SIR_FDM_2_20200727T213905_20200727T213942_C001.DBLProduct filename start/stop differs slightly from start/stop validity due to rounding.CS_OFFL_SIR_FDM_2_20200727T213905_20200727T213942_C001.DBLProduct filename start/stop differs slightly from start/stop validity due to rounding.	CS_OFFL_SIR_FDM_220200727T104050_20200727T104108_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
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	CS_OFFL_SIR_FDM_220200727T213203_20200727T213740_C001.DBL	Product filename start/stop differs slightly from start/stop validity due to rounding.
CS_OFFL_SIR_FDM_2_20200727T214510_20200727T221742_C001.DBL Product filename start/stop differs slightly from start/stop validity due to rounding.	CS_OFFL_SIR_FDM_220200727T213905_20200727T213942_C001.DBL	Product filename start/stop differs slightly from start/stop validity due to rounding.
	CS_OFFL_SIR_FDM_220200727T214510_20200727T221742_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: 145

Product	AUX File	Comment
145 SIR_FDM_2_ products from 2020/07/27 00:03:24 until 2020/07/27 22:17:42	Ionospheric Correction	Due to a missing Forecast Auxiliary File there is an error with the lonospheric Correction

#### 6.4 L2 FDM Auxiliary Correction Error Check

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

Number of products with errors: 145

Product	Test Failed	Description
145 SIR_FDM_2_ products from 2020/07/27 00:03:24 until 2020/07/27 22:17:42	Ionospheric Correction	Due to a missing Forecast Auxiliary File there is an error with the lonospheric Correction
CS_OFFL_SIR_FDM_220200727T024345_20200727T024938_C001	Sea State Bias Correction	There is an error with the Sea State Bias Correction for one or more records
CS_OFFL_SIR_FDM_220200727T033306_20200727T033914_C001	ISea State Bias Correction	There is an error with the Sea State Bias Correction for one or more records

CS_OFFL_SIR_FDM_2_	_20200727T035015_20200727T035951_C001	Se
CS_OFFL_SIR_FDM_2_	_20200727T133128_20200727T140150_C001	Se
CS_OFFL_SIR_FDM_2_	_20200727T174820_20200727T180858_C001	Se
CS_OFFL_SIR_FDM_2_	_20200727T182505_20200727T185012_C001	Se
CS_OFFL_SIR_FDM_2_	_20200727T001423_20200727T001914_C001	Se W
CS_OFFL_SIR_FDM_2_	_20200727T001924_20200727T002545_C001	Se W
CS_OFFL_SIR_FDM_2_	_20200727T010353_20200727T011021_C001	Se W
CS_OFFL_SIR_FDM_2_	_20200727T015347_20200727T015932_C001	Se W
CS_OFFL_SIR_FDM_2_	_20200727T021520_20200727T022220_C001	Se
CS_OFFL_SIR_FDM_2_	_20200727T030540_20200727T031620_C001	Se W
CS_OFFL_SIR_FDM_2_	_20200727T034025_20200727T034709_C001	Se W
CS_OFFL_SIR_FDM_2_	_20200727T042539_20200727T042851_C001	Se
CS_OFFL_SIR_FDM_2_	_20200727T043410_20200727T043857_C001	Se
CS_OFFL_SIR_FDM_2_	_20200727T051253_20200727T053434_C001	Se
CS_OFFL_SIR_FDM_2_	_20200727T065231_20200727T065528_C001	Se
CS_OFFL_SIR_FDM_2_	_20200727T072430_20200727T072747_C001	Se
CS_OFFL_SIR_FDM_2_	_20200727T074858_20200727T081447_C001	Se
	_20200727T083100_20200727T085451_C001	Se
CS_OFFL_SIR_FDM_2	20200727T090556_20200727T090651_C001	Se
CS OFFL SIR FDM 2	20200727T092043_20200727T095403_C001	Se
		W Se
	20200727T123708 20200727T131214 C001	W Se
	20200727T142121_20200727T143445_C001	W Se
	20200727T143649_20200727T145147_C001	W Se
	_20200727T152524_20200727T154021_C001	W Se
	_20200727T155427_20200727T160915_C001	W Se
	_20200727T161228_20200727T161510_C001	W Se
	_20200727T161650_20200727T163021_C001	W Se
	_20200727T164638_20200727T171850_C001	W Se
	20200727T185015 20200727T185315 C001	W Se
		W Se
	_20200727T192314_20200727T194904_C001	W Se
	_20200727T205042_20200727T205724_C001	W Se
	_20200727T210103_20200727T210921_C001	W
	_20200727T212352_20200727T212814_C001	W
CS_OFFL_SIR_FDM_2_	_20200727T214510_20200727T221742_C001	w

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Sea State Bias Corr Wind Speed	ection, Altimetric
Sea State Bias Con Wind Speed	ection, Altimetric
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#### 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:
 6

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220200727T072117_20200727T072430_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220200727T090048_20200727T090141_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220200727T104036_20200727T104050_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220200727T140329_20200727T140651_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220200727T141536_20200727T142114_C001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo
CS_OFFL_SIR_FDM_220200727T211432_20200727T212005_C001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo

## 6.6 L2 FDM Range Measurement Check

CryoSat L2 data includes a CFI (field 17) and OCOG (field 22) Range Averaging Status flag for each measurement record. The bit value of this flag indicates any problems when set. Number of products with errors: 23

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220200727T001924_20200727T002545_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_220200727T030540_20200727T031620_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_220200727T042539_20200727T042851_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_220200727T043410_20200727T043857_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_220200727T051253_20200727T053434_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_220200727T072430_20200727T072747_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_220200727T083100_20200727T085451_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_220200727T090556_20200727T090651_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_220200727T092043_20200727T095403_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_220200727T111213_20200727T113327_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_220200727T120236_20200727T120853_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_220200727T123708_20200727T131214_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_220200727T142121_20200727T143445_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_220200727T143649_20200727T145147_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_220200727T152524_20200727T154021_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_220200727T155427_20200727T160915_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_220200727T161228_20200727T161510_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_220200727T164638_20200727T171850_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_220200727T185015_20200727T185315_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_220200727T192314_20200727T194904_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_220200727T205042_20200727T205724_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_220200727T210103_20200727T210921_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_220200727T214510_20200727T221742_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

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220200727T001924_20200727T002545_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_220200727T030540_20200727T031620_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_220200727T042539_20200727T042851_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_220200727T043410_20200727T043857_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_220200727T051253_20200727T053434_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_220200727T072430_20200727T072747_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_220200727T083100_20200727T085451_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_220200727T090556_20200727T090651_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_220200727T092043_20200727T095403_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_220200727T111213_20200727T113327_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_220200727T120236_20200727T120853_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_220200727T123708_20200727T131214_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_220200727T142121_20200727T143445_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_220200727T143649_20200727T145147_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_220200727T152524_20200727T154021_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_220200727T155427_20200727T160915_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_220200727T161228_20200727T161510_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_220200727T164638_20200727T171850_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_220200727T185015_20200727T185315_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_220200727T192314_20200727T194904_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_220200727T205042_20200727T205724_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_220200727T210103_20200727T210921_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_220200727T214510_20200727T221742_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:
 43

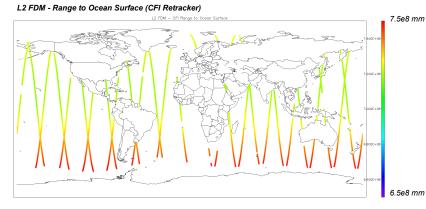
Product	Test Failed	Description
CS_OFFL_SIR_FDM_220200727T001423_20200727T001914_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag is set indicating the CFI Ocean Retracker was not successfully executed for one or more records.
CS_OFFL_SIR_FDM_2_20200727T001924_20200727T002545_C001	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_220200727T002723_20200727T005041_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_220200727T011045_20200727T013448_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_220200727T020643_20200727T020923_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_2_20200727T020925_20200727T021040_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_220200727T021520_20200727T022220_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_220200727T024345_20200727T024938_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_220200727T025049_20200727T025920_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_220200727T030540_20200727T031620_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_220200727T034025_20200727T034709_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_220200727T035015_20200727T035951_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_220200727T042539_20200727T042851_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_220200727T043410_20200727T043857_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_220200727T044202_20200727T045703_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_220200727T051253_20200727T053434_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_220200727T060250_20200727T063633_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_220200727T072430_20200727T072747_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_220200727T072834_20200727T072925_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_220200727T083100_20200727T085451_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_220200727T090556_20200727T090651_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_220200727T092043_20200727T095403_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_220200727T105833_20200727T110927_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_220200727T111213_20200727T113327_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_220200727T120236_20200727T120853_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_220200727T121028_20200727T121510_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_220200727T123708_20200727T131214_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_220200727T133128_20200727T140150_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_220200727T141536_20200727T142114_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_220200727T142121_20200727T143445_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_220200727T143649_20200727T145147_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_220200727T150850_20200727T151905_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_220200727T152524_20200727T154021_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_220200727T155427_20200727T160915_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_220200727T161228_20200727T161510_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_220200727T164638_20200727T171850_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_220200727T174820_20200727T180858_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_220200727T182505_20200727T185012_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_220200727T185015_20200727T185315_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_220200727T192314_20200727T194904_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_220200727T205042_20200727T205724_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_220200727T210103_20200727T210921_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_220200727T214510_20200727T221742_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.

## 6.9 L2 Parameters Check

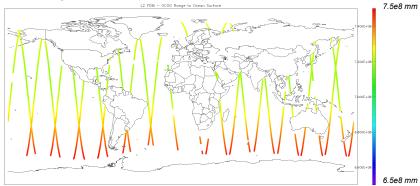
The following section provides plots and statistics of some key science parameters extracted from the L2 products.

#### Range to Ocean Surface (1 Hz)



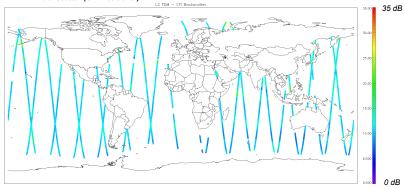
Parameter	mean (km)	st dev.(km)
Range CFI (1 Hz)	727.83	33.66
Range OCOG (1 Hz)	729.19	11.81

#### L2 FDM - Range to Ocean Surface (OCOG Retracker)



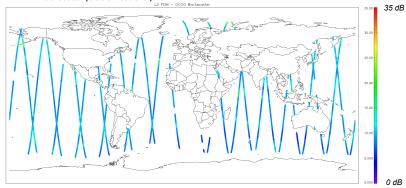
## Backscatter (1 Hz)

## L2 FDM - Backscatter (CFI Retracker)



Parameter	mean (dB)	st dev.(dB)
Backscatter CFI (1 Hz)	11.11	14.2
Backscatter OCOG (1 Hz)	8.76	2.72

L2 FDM - Backscatter (OCOG Retracker)



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## 7. QCC Report Analysis

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

Nb. Products	Nb. QCC Reports	Nb. Valid	Nb. Warnings	Nb. Errors
147	147	147	0	0
107	107	107	0	0
105	105	105	0	0
105	105	105	0	0
147	147	4	0	143
145	145	82	63	0
	147 107 105 105 147	147         147           107         107           105         105           105         105           105         105           147         147	147         147         147           107         107         107           105         105         105           105         105         105           147         147         4	147         147         0           107         107         107         0           105         105         105         0           105         105         105         0           105         105         105         0           147         147         4         0

## 7.1 QCC Errors

Number of QCC reports with errors:

	Total number of occurrences of each error										
Product Type	UVOB	-	-	-	-	-	-	-	-	-	-
SIR_FDM_1B	143										
Test Description Key:											
Abbreviation	Test na	me		Details							
UVOB	UnitVect	orOrBlank 6		The three array elements should form a unit vector (using a scale factor of 10^-6)							

## 7.2 QCC Warnings

Number of QCC	reports with w	arnings	212								
Total number of occurrences of each warning											
Product Type	MVSIO	MVSIOFD	RAGCOFOFD	RBSZO	RBSZOFD	RSSBCO	-	-	-	-	-
SIR_FDM_1B	0	0	1	0	0	0					
SIR_FDM_2_	63.00	43.00	0.00	37.00	51.00	17.00					

Test Description Key:						
Abbreviation	Test name	Details				
MVSIO	MissingValueShortIntOcean	The value should not be a 'missing value' for surface type 0 only				
MVSIOFD	MissingValueShortIntOceanFD2	The value should not be a 'missing value' for surface type 0 only				
RAGCOFOFD	RangeAGCOrFlaggedOceanFD3	The AGC should be between 0 and 6200 or the AGC_Inconsistency flag should be set for surface type = ocean				
RBSZO	RangeBackscatterSigmaZeroOcean	The backscatter sigma zero should be between 700 and 3000 (or missing) for surface type = ocean				
RBSZOFD	RangeBackscatterSigmaZeroOceanFD2	The backscatter sigma zero should be between 700 and 3000 (or missing) for surface type = ocean				
RSSBCO	RangeSeaStateBiasCorrectionOcean	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: