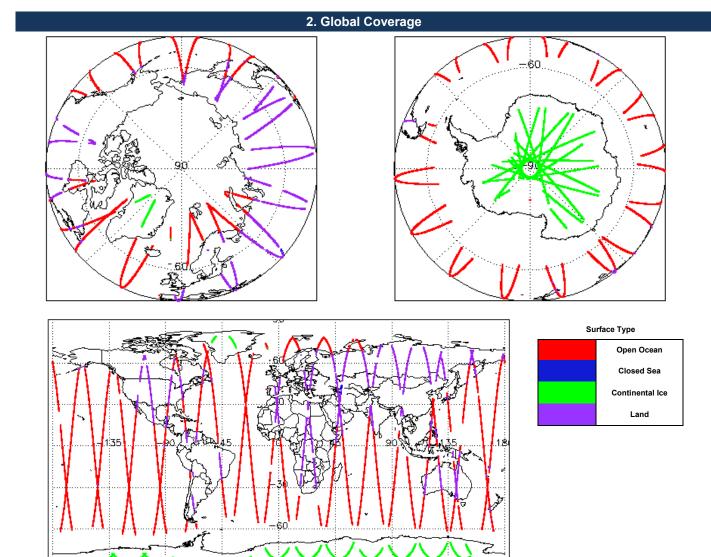


QA4EO Daily Report for FDM data:

<u>16/09/2020</u>

	47.0 0000	Check	Status
Report Production Date:	17-Sep-2020	Server check: science-pds.cryosat.esa.int	Nominal
Processor Used:	Crue Set Jac Dresses	Server check: calval-pds.cryosat.esa.int	Nominal
Processor Usea:	CryoSat Ice Processor	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



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.

14

Number of products with errors:

Product	Test Failed
CS_OPER_SIR1SAR_020200916T111248_20200916T111729_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR1SAR_020200916T123018_20200916T123751_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR1SAR_020200916T150548_20200916T150656_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR1SAR_020200916T192424_20200916T192458_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR1SAR_020200916T230602_20200916T231301_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR1SIN_020200916T032054_20200916T032243_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR1SIN_020200916T042735_20200916T043026_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR1SIN_020200916T095703_20200916T100019_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR1SIN_020200916T150241_20200916T150548_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR1SIN_020200916T164324_20200916T164442_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR1SIN_020200916T195237_20200916T195402_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR2SIN_020200916T013458_20200916T013703_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR2SIN_020200916T132300_20200916T132951_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR2SIN_020200916T213822_20200916T214157_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. N

Number of products with errors: 7				
Product	Test Failed			
CS_OFFL_SIR_FDM_1B_20200916T040751_20200916T040830_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).			
CS_OFFL_SIR_FDM_1B_20200916T040830_20200916T040908_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).			
CS_OFFL_SIR_FDM_1B_20200916T054506_20200916T055159_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).			
CS_OFFL_SIR_FDM_1B_20200916T072146_20200916T072309_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).			
CS_OFFL_SIR_FDM_1B_20200916T072309_20200916T072423_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).			
CS_OFFL_SIR_FDM_1B_20200916T103839_20200916T104613_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).			

5.3 L1B FDM Star Tracker Usage Check

CS_OFFL_SIR_FDM_1B_20200916T104613_20200916T104621_C001.DBL

Each product is checked in order to ensure a valid star tracker file has been used in processing.

3

Number of products with errors:

Product	Test Failed
CS_OFFL_SIR_FDM_1B_20200916T040751_20200916T040830_C001	No Star Tracker file used in the processing of this product
CS_OFFL_SIR_FDM_1B_20200916T072146_20200916T072309_C001	No Star Tracker file used in the processing of this product
CS_OFFL_SIR_FDM_1B_20200916T103839_20200916T104613_C001	No Star Tracker file used in the processing of this product

an error and the Rx1 Echo Error flag is

FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).

5.4 L1B FDM Calibration Usage Check

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

Number of products with errors:

5.5 L1B FDM Auxilary Data File Usage Check

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

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: 5		
Product	Test Failed	Description
CS_OFFL_SIR_FDM_1B_20200916T022554_20200916T023145_C001		The tracking echo has returned an err set, indicating a degraded echo
CS_OFFL_SIR_FDM_1B_20200916T040751_20200916T040830_C001	Attitude correction missing	The attitude has not been corrected

CS_OFFL_SIR_FDM_1B_20200916T072146_20200916T072309_C001 CS_OFFL_SIR_FDM_1B_20200916T103839_20200916T104613_C001

CS_OFFL_SIR_FDM_1B_20200916T155844_20200916T160314_C001

Attitude correction missing Attitude correction missing Echo error, TRK echo error

The attitude has not been corrected

The attitude has not been corrected

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: 28

Product	Test Failed
CS_OFFL_SIR_FDM_220200916T000914_20200916T001304_C001.DBL	Product filename start/stop differs slightly from start/stop validity due to rounding.
CS_OFFL_SIR_FDM_220200916T001530_20200916T003022_C001.DBL	Product filename start/stop differs slightly from start/stop validity due to rounding.
CS_OFFL_SIR_FDM_220200916T012714_20200916T012744_C001.DBL	Product filename start/stop differs slightly from start/stop validity due to rounding.
CS_OFFL_SIR_FDM_220200916T014413_20200916T015207_C001.DBL	Product filename start/stop differs slightly from start/stop validity due to rounding.
CS_OFFL_SIR_FDM_220200916T015519_20200916T020928_C001.DBL	Product filename start/stop differs slightly from start/stop validity due to rounding.
CS_OFFL_SIR_FDM_220200916T021744_20200916T021856_C001.DBL	Product filename start/stop differs slightly from start/stop validity due to rounding.
CS_OFFL_SIR_FDM_220200916T040751_20200916T040830_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_220200916T040830_20200916T040908_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_220200916T041159_20200916T041217_C001.DBL	Product filename start/stop differs slightly from start/stop validity due to rounding.
CS_OFFL_SIR_FDM_220200916T054506_20200916T055159_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_220200916T072146_20200916T072309_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_220200916T072309_20200916T072423_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_220200916T082309_20200916T082820_C001.DBL	Product filename start/stop differs slightly from start/stop validity due to rounding.
CS_OFFL_SIR_FDM_220200916T083346_20200916T085004_C001.DBL	Product filename start/stop differs slightly from start/stop validity due to rounding.
CS_OFFL_SIR_FDM_220200916T103839_20200916T104613_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_220200916T104613_20200916T104621_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_220200916T104731_20200916T104951_C001.DBL	Product filename start/stop differs slightly from start/stop validity due to rounding.
CS_OFFL_SIR_FDM_220200916T114227_20200916T114428_C001.DBL	Product filename start/stop differs slightly from start/stop validity due to rounding.
CS_OFFL_SIR_FDM_220200916T133311_20200916T133318_C001.DBL	Product filename start/stop differs slightly from start/stop validity due to rounding.
CS_OFFL_SIR_FDM_220200916T134919_20200916T134921_C001.DBL	Product filename start/stop differs slightly from start/stop validity due to rounding.
CS_OFFL_SIR_FDM_220200916T135259_20200916T140011_C001.DBL	Product filename start/stop differs slightly from start/stop validity due to rounding.
CS_OFFL_SIR_FDM_220200916T143300_20200916T143403_C001.DBL	Product filename start/stop differs slightly from start/stop validity due to rounding.
CS_OFFL_SIR_FDM_220200916T150044_20200916T150053_C001.DBL	Product filename start/stop differs slightly from start/stop validity due to rounding.
CS_OFFL_SIR_FDM_220200916T150059_20200916T150240_C001.DBL	Product filename start/stop differs slightly from start/stop validity due to rounding.
CS_OFFL_SIR_FDM_220200916T155844_20200916T160314_C001.DBL	Product filename start/stop differs slightly from start/stop validity due to rounding.
CS_OFFL_SIR_FDM_220200916T193320_20200916T193806_C001.DBL	Product filename start/stop differs slightly from start/stop validity due to rounding.
CS_OFFL_SIR_FDM_220200916T200634_20200916T202731_C001.DBL	Product filename start/stop differs slightly from start/stop validity due to rounding.
CS_OFFL_SIR_FDM_220200916T232011_20200916T232208_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.

47

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220200916T003223_20200916T004147_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_220200916T010304_20200916T012032_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_220200916T024355_20200916T024607_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_220200916T024703_20200916T025702_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_220200916T033526_20200916T035856_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_220200916T040922_20200916T041143_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_220200916T043130_20200916T043245_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_220200916T043253_20200916T045759_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_220200916T053419_20200916T054131_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_220200916T060446_20200916T063539_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

B3, DFT, B4, Z. 20209161703324, 20209161703529, 2020916	GS_OFFL_SIR_FDM_2_2020016718334_02020016706504_C001 Wind Speed There is an error wind Speed GS_OFFL_SIR_FDM_2_20200167098051_20200167094329_C001 Sea State Bas Correction, Attimetric Wind Speed There is an error Correction from Correction f	or with the Altimetric Wind Speed and Sea State Bias
Correction, Allimetric Correction, Allimetric Correc	GS_OFFL_SIR_FDM_2_20200916T085321_20200916T095095_C001 Sea State Bias Correction, Attimetric GS_OFFL_SIR_FDM_2_20200916T090905_20200916T090905_C001 Sea State Bias Correction, Attimetric GS_OFFL_SIR_FDM_2_20200916T091955_20200916T090905_C001 Sea State Bias Correction, Attimetric GS_OFFL_SIR_FDM_2_20200916T091955_20200916T103824_C001 Sea State Bias Correction, Attimetric CS_OFFL_SIR_FDM_2_20200916T103824_2020916T113418_C001 Sea State Bias Correction, Attimetric CS_OFFL_SIR_FDM_2_20200916T113418_C001 Sea State Bias Correction, Attimetric CS_OFFL_SIR_FDM_2_20200916T113418_C001 Sea State Bias Correction, Attimetric CS_OFFL_SIR_FDM_2_20200916T112302_2020916T123544_C001 Sea State Bias Correction, Attimetric CS_OFFL_SIR_FDM_2_20200916T123512_2020916T123510_C001 Sea State Bias Correction, Attimetric CS_OFFL_SIR_FDM_2_20200916T123512_2020916T123510_C001 Sea State Bias Correction, Attimetric CG_OFFL_SIR_FDM_2_20200916T13520_20200916T140014_C001 Sea State Bias Correction, Attimetric CFL_SIR_FDM_2_20200916T13520_20200916T140014_C001 Sea State Bias Correction, Attimetric CFL_SIR_FDM_2_20200916T140342_0001 Sea State Bias Correction, Attimetric CFL_SIR_FDM_2_20200916T140342_0200916T143442_001 Sea State Bias Correction, Attimetric CFL_SIR_FDM_2_20200916T1143402_0200916T143440_0	
Open-Experiod Consection for more records Consection for more records CS_OFFL_SR_FDM_2_202009167109805_02000 Mind Speed Consection for more records Speed and Sea State Bias CS_OFFL_SR_FDM_2_202009167109805_020001 Sea State Bias Correction, Allmetic There is an error with the Allmetic Wird Speed and Sea State Bias CS_OFFL_SR_FDM_2_202009167110240_02009167103906_001 Sea State Bias Correction, Allmetic There is an error with the Allmetic Wird Speed and Sea State Bias CS_OFFL_SR_FDM_2_202009167117280_202009167113264_0001 Sea State Bias Correction, Allmetic There is an error with the Allmetic Wird Speed and Sea State Bias CS_OFFL_SR_FDM_2_202009167113202_00209167113264_0001 Sea State Bias Correction, Allmetic There is an error with the Allmetic Wird Speed and Sea State Bias CS_OFFL_SR_FDM_2_202009167113202_00209167113202_002091671132930_0001 Sea State Bias Correction, Allmetic There is an error with the Allmetic Wird Speed and Sea State Bias CS_OFFL_SR_FDM_2_20200916713292_00209167132930_0001 Sea State Bias Correction, Allmetic There is an error with the Allmetic Wird Speed and Sea State Bias CS_OFFL_SR_FDM_2_20200916713292_0020916713292_0	LS_DFL_Site_FDM_2_add0016108321_add0016108351_0001 Wind Speed Commention for the same and speed GS_OFFL_Site_FDM_2_ad000161090805_202009167109322_C001 Sea State Bias Correction, Altimetric There is an endor Wind Speed GS_OFFL_Site_FDM_2_ad0009167101240_202009167109322_C001 Sea State Bias Correction, Altimetric There is an endor Wind Speed GS_OFFL_Site_FDM_2_ad0009167110728_202009167113416_C001 Sea State Bias Correction, Altimetric There is an endor Correction for Mind Speed GS_OFFL_Site_FDM_2_ad009167113722_202009167113416_C001 Sea State Bias Correction There is an endor Correction for Mind Speed GS_OFFL_Site_FDM_2_ad009167113722_2020091671132054_C001 Sea State Bias Correction There is an endor Wind Speed GS_OFFL_Site_FDM_2_ad009167113722_2020091671132054_C001 Sea State Bias Correction There is a endor Correction for Mind Speed GS_OFFL_Site_FDM_2_ad009167113202_2020091671132054_C001 Sea State Bias Correction Altimetric Correction for Orrection for Orr	
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CS_OFFL_SIR_FDM_2_202009161211815_202009161212808_C001 Sea State Bias Correction Attimetric Vind Speed and Sea State Bias Correction, Attimetric Vind Speed and Sea State Bias	CS_OFFL_SIR_FDM_2_202009161211815_202009161212808_C001 Sea State Bias Correction records CS_OFFL_SIR_FDM_2_202009161214543_202009161215015_C001 Sea State Bias Correction, Altimetric There is an error CS_OFFL_SIR_FDM_2_202009161215024_202009161221233_C001 Sea State Bias Correction, Altimetric There is an error CS_OFFL_SIR_FDM_2_202009161221317_202009161222142_C001 Sea State Bias Correction, Altimetric There is an error CS_OFFL_SIR_FDM_2_202009161221317_202009161222142_C001 Sea State Bias Correction, Altimetric There is an error CS_OFFL_SIR_FDM_2_202009161221317_202009161222142_C001 Sea State Bias Correction, Altimetric There is an error	•
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	Sea State Bias Correction Altimetric There is an error	
CS_OFFL_SIR_FDM_2_20200916T223340_20200916T223357_C001 Sea State Bias Correction, Altimetric Wind Speed and Sea State Bias Correction for one or more records		
CS_OFFL_SIR_FDM_2_20200916T233048_20200916T233841_C001 Sea State Bias Correction, Altimetric Wind Speed and Sea State Bias Correction for one or more records		
		or with the Altimetric Wind Speed and Sea State Bias one or more records

6.5 L2 FDM Measurement Confidence Data Check

CryoSat L2 data includes a measurement confidence flag (field 8) for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.
Number of products with errors: 5

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220200916T022554_20200916T023145_C001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo
CS_OFFL_SIR_FDM_220200916T040751_20200916T040830_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220200916T072146_20200916T072309_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220200916T103839_20200916T104613_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220200916T155844_20200916T160314_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: 31

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220200916T003223_20200916T004147_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_20200916T010304_20200916T012032_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_220200916T024355_20200916T024607_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_220200916T024703_20200916T025702_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_220200916T033526_20200916T035856_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_20200916T043130_20200916T043245_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_220200916T043253_20200916T045759_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_20200916T053419_20200916T054131_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_220200916T060446_20200916T063539_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_220200916T074326_20200916T081559_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_220200916T083346_20200916T085004_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_220200916T101240_20200916T103824_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_220200916T105825_20200916T111248_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_220200916T111729_20200916T113418_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_220200916T120758_20200916T122727_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_220200916T124722_20200916T125310_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_220200916T125312_20200916T125653_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_220200916T134924_20200916T135136_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_220200916T135259_20200916T140011_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_220200916T140134_20200916T140349_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_220200916T155458_20200916T155719_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_220200916T160716_20200916T163057_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_220200916T173505_20200916T174129_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_220200916T174425_20200916T181024_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_220200916T182748_20200916T190003_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_220200916T200634_20200916T202731_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_220200916T203017_20200916T204142_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_220200916T210117_20200916T210158_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_220200916T215024_20200916T221233_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_220200916T221317_20200916T222142_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_220200916T233048_20200916T233841_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:
itumber or	producto mini	chioro.

Product	Test Failed	Description
	CFI Backscatter Status Flag, SWH	The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #41, #42, #43 and #44 should be ignored for these records.
	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_220200916T024355_20200916T024607_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
CS_OFFL_SIR_FDM_220200916T024703_20200916T025702_C001	CFI Backscatter Status Flag, SWH Squared Averaging Status Flag	ignored for these records. The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #41, #42, #43 and #44 should be
CS_OFFL_SIR_FDM_220200916T033526_20200916T035856_C001	CFI Backscatter Status Flag, SWH Squared Averaging Status Flag	ignored for these records. The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #41, #42, #43 and #44 should be ignored for these records.
CS_OFFL_SIR_FDM_220200916T043130_20200916T043245_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_220200916T043253_20200916T045759_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_220200916T053419_20200916T054131_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_220200916T060446_20200916T063539_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_220200916T074326_20200916T081559_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_220200916T083346_20200916T085004_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_220200916T101240_20200916T103824_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_220200916T105825_20200916T111248_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_220200916T111729_20200916T113418_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_220200916T120758_20200916T122727_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_220200916T124722_20200916T125310_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_220200916T125312_20200916T125653_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_220200916T134924_20200916T135136_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_220200916T135259_20200916T140011_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_220200916T140134_20200916T140349_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_220200916T155458_20200916T155719_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_220200916T160716_20200916T163057_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_220200916T173505_20200916T174129_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_220200916T174425_20200916T181024_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_220200916T182748_20200916T190003_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_220200916T200634_20200916T202731_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_220200916T203017_20200916T204142_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_220200916T210117_20200916T210158_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_220200916T215024_20200916T221233_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_220200916T221317_20200916T222142_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_220200916T233048_20200916T233841_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:
 51

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220200916T001530_20200916T003022_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_220200916T003223_20200916T004147_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_220200916T010304_20200916T012032_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_220200916T024355_20200916T024607_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 20200916T024703 20200916T025702 C001 CS_OFFL_SIR_FDM_2__20200916T025704_20200916T030126_C001 CS OFFL SIR FDM 2 20200916T030129 20200916T031857 C001 CS OFFL SIR FDM 2 20200916T033526 20200916T035856 C001 CS_OFFL_SIR_FDM_2__20200916T040922_20200916T041143_C001 CS_OFFL_SIR_FDM_2__20200916T043130_20200916T043245_C001 CS_OFFL_SIR_FDM_2__20200916T043253_20200916T045759_C001 CS_OFFL_SIR_FDM_2__20200916T053419_20200916T054131_C001 CS_OFFL_SIR_FDM_2__20200916T054506_20200916T055159_C001 CS OFFL SIR FDM 2 20200916T060446 20200916T063539 C001 CS_OFFL_SIR_FDM_2__20200916T074326_20200916T081559_C001 CS_OFFL_SIR_FDM_2__20200916T083346_20200916T085004_C001 CS_OFFL_SIR_FDM_2__20200916T090801_20200916T090905_C001 CS_OFFL_SIR_FDM_2__20200916T091955_20200916T094329_C001 CS OFFL SIR FDM 2 20200916T094439 20200916T095452 C001 CS_OFFL_SIR_FDM_2__20200916T101240_20200916T103824_C001 CS_OFFL_SIR_FDM_2__20200916T105825_20200916T111248_C001 CS_OFFL_SIR_FDM_2__20200916T111729_20200916T113418_C001 CS_OFFL_SIR_FDM_2__20200916T115302_20200916T120544_C001 CS OFFL SIR FDM 2 20200916T120758 20200916T122727 C001 CS_OFFL_SIR_FDM_2__20200916T124722_20200916T125310_C001 CS_OFFL_SIR_FDM_2__20200916T125312_20200916T125653_C001 CS_OFFL_SIR_FDM_2__20200916T125929_20200916T131309_C001 CS_OFFL_SIR_FDM_2__20200916T134003_20200916T134129_C001 CS OFFL SIR FDM 2 20200916T134924 20200916T135136 C001 CS OFFL SIR FDM 2 20200916T135259 20200916T140011 C001 CS_OFFL_SIR_FDM_2__20200916T140134_20200916T140349_C001 CS_OFFL_SIR_FDM_2__20200916T150813_20200916T153229_C001 CS_OFFL_SIR_FDM_2__20200916T155458_20200916T155719_C001 CS OFFL SIR FDM 2 20200916T160716 20200916T163057 C001 CS_OFFL_SIR_FDM_2__20200916T164707_20200916T171358_C001 CS OFFL SIR FDM 2 20200916T173505 20200916T174129 C001 CS OFFL SIR FDM 2 20200916T174425 20200916T181024 C001 CS_OFFL_SIR_FDM_2__20200916T182748_20200916T190003_C001 CS_OFFL_SIR_FDM_2__20200916T191154_20200916T191414_C001 CS_OFFL_SIR_FDM_2__20200916T191424_20200916T191518_C001 CS OFFL SIR FDM 2 20200916T200634 20200916T202731 C001 CS_OFFL_SIR_FDM_2__20200916T203017_20200916T204142_C001 CS_OFFL_SIR_FDM_2__20200916T210117_20200916T210158_C001 CS_OFFL_SIR_FDM_2__20200916T211815_20200916T212808_C001 CS_OFFL_SIR_FDM_2__20200916T214543_20200916T215015_C001 CS OFFL SIR FDM 2 20200916T215024 20200916T221233 C001 CS_OFFL_SIR_FDM_2__20200916T221317_20200916T222142_C001 CS OFFL SIR FDM 2 20200916T224207 20200916T230602 C001 CS_OFFL_SIR_FDM_2__20200916T233048_20200916T233841_C001 CS OFFL SIR FDM 2 20200916T233940 20200916T234035 C001 CS OFFL SIR FDM 2 20200916T234444 20200916T235217 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 The Ocean Retracking Quality Flag is set indicating the CFI Ocean Retracker was not successfully executed for one or more records The Ocean Retracking Quality Flag is set indicating the CFI Ocean Retracker was not successfully executed for one or more records. 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The Ocean Retracking Quality Flag is set indicating the CFI Ocean Retracker was not successfully executed for one or more records. The Ocean Retracking Quality Flag is set indicating the CFI Ocean Retracker was not successfully executed for one or more records.

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. Products Nb. QCC Reports		Nb. Warnings	Nb. Errors	
SIR1LRM_0_	171	171	171	0	0	
SIR1SAR_0_	102	102	102	0	0	
SIR1SIN_0_	111	111	111	0	0	
SIR2SIN_0_	115	115	115	0	0	
SIR_FDM_1B	171	171	3	0	168	
SIR_FDM_2	167 167		98	69	0	

7.1 QCC Errors

Number of QCC	reports with e	rrors:	168								
					Total number of occurrences of each error						
Product Type	UVOB)B				-	-	-	-	-	-
SIR_FDM_1B	168										
Test Description Key:											
Abbreviation	Abbreviation Test name Details										
UVOB	UnitVectorOrBlank_6 The three array e				ements should form	n a unit vector (usin	g a scale factor of	10^-6)			

7.2 QCC Warnings

Number of QCC reports with warnings

214

Total number of occurrences of each warning											
Product Type	MVSIO	MVSIOFD	RBSZO	RBSZOFD	REOTO	RSSBCO	-	-	-	-	-
SIR_FDM_2_	47	52	40	56	2	17					
Test Description	Key:										
Abbreviation	Test na	Test name Details									
MVSIO	Missing\	/alueShortIntOcear	l .	The value should r	The value should not be a 'missing value' for surface type 0 only						
MVSIOFD	Missing\	/alueShortIntOcear	FD2	The value should r	The value should not be a 'missing value' for surface type 0 only						
RBSZO	RangeBa	ackscatterSigmaZe	roOcean	The backscatter si	The backscatter sigma zero should be between 700 and 3000 (or missing) for surface type = ocean						
RBSZOFD	RangeBa	ackscatterSigmaZe	roOceanFD2	The backscatter sigma zero should be between 700 and 3000 (or missing) for surface type = ocean							
REOTO	RangeE	quilibriumOceanTid	eOcean	The long period equilibrium ocean tide should be between -50mm and 50mm (or missing) for surface type = ocean							
RSSBCO	RangeSe	eaStateBiasCorrect	ionOcean	The sea state bias correction should be between -500mm and 0mm (or missing) for surface type = ocean							
1	I.			1							

7.3 Missing QCC Reports

Number of products with missing QCC reports: