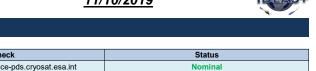


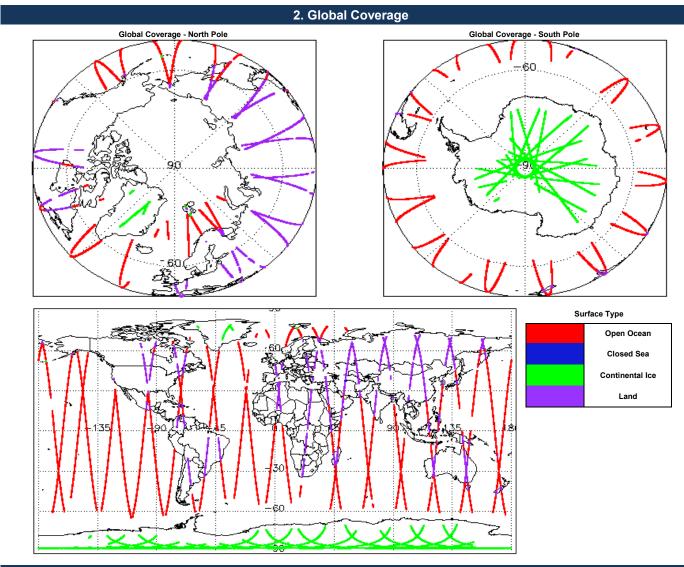
IDEAS+ Daily Report for FDM data:

<u>11/10/2019</u>



Report Production Date:	14-Oct-2019	Check	Status	
Report Production Date.	14-061-2019	Server check: science-pds.cryosat.esa.int	Nominal	
Processor Used:	CryoSat Ice Processor	Server check: calval-pds.cryosat.esa.int	Nominal	
Processor Used.	CryoSal ice Processor	Product Software Check	Nominal	
Data Used:	L1 and L2 Fast Delivery Marine (FDM)	Product Format Check	Nominal	
Data Oseu.	Mode and L0 Data	Product Header Analysis	See Section 4.2, 5.2 and 6.2	
		Star Tracker Usage Check	See Section 5.3	
Calibration Usage Check Nominal			Nominal	
		Auxiliary Data File Usage Check	Nominal	
		Auxiliary Correction Error Check	See Section 6.4	
		Measurement Confidence Data Check	See Section 5.7, 6.5, 6.6, 6.7 and 6.8	
Mission / Instrument News				
10-Oct-2019 None				
11-Oct-2019 None				
12-Oct-2019 Nothing planned				

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

Number of products with errors:

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.

18

Number of products with errors:

Product	Test Failed
CS_OPER_SIR1SAR_020191011T014041_20191011T014527_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR1SAR_020191011T014903_20191011T015718_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR1SAR_020191011T032832_20191011T033555_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR1SAR_0_20191011T082456_20191011T083012_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR1SAR_020191011T133823_20191011T134010_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR1SAR_0_20191011T222255_20191011T222650_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR1SAR_020191011T231816_20191011T232619_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR1SIN_020191011T005725_20191011T010041_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR1SIN_020191011T091048_20191011T091310_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR1SIN_020191011T113947_20191011T114101_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR1SIN_020191011T122957_20191011T123124_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR1SIN_020191011T194442_20191011T194823_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR1SIN_020191011T200404_20191011T200856_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR1SIN_020191011T214426_20191011T215605_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR2SIN_020191011T063736_20191011T063859_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR2SIN_0_20191011T140936_20191011T141051_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR2SIN_0_20191011T172542_20191011T173149_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR2SIN_020191011T190749_20191011T190939_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.

5. Level 1B FDM Data Quality Check

5.1 L1B FDM Product Format Check

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

5.2 L1B FDM Product Header Analysis

For all products, a series of pre-defined checks are carried out on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain. Number of products with errors: 7

Product	Test Failed
CS_OFFL_SIR_FDM_1B_20191011T000042_20191011T000223_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_1B_20191011T031557_20191011T032254_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_1B_20191011T032254_20191011T032346_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_1B_20191011T212640_20191011T213319_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_1B_20191011T213319_20191011T213508_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_1B_20191011T230914_20191011T231018_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_1B_20191011T231018_20191011T231028_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).

5.3 L1B FDM Star Tracker Usage Check

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

4

Number of products with errors:

Product	Test Failed	
CS_OFFL_SIR_FDM_1B_20191010T235909_20191011T000042_C001	No Star Tracker file used in the processing of this product	
CS_OFFL_SIR_FDM_1B_20191011T031557_20191011T032254_C001	No Star Tracker file used in the processing of this product	
CS_OFFL_SIR_FDM_1B_20191011T212640_20191011T213319_C001	No Star Tracker file used in the processing of this product	
CS_OFFL_SIR_FDM_1B_20191011T230914_20191011T231018_C001	No Star Tracker file used in the processing of this product	

5.4 L1B FDM Calibration Usage Check

Each product is checked in order to ensure the necessary calibration files have been used in processing.
Number of products with errors:
0

5.5 L1B FDM Auxilary Data File Usage Check

Each product is checked for missing Data Set Descriptors with respect to a pre-determined baseline and also to check the validity of Auxiliary Data Files is correct. Number of products with errors: 0

5.6 L1B FDM Auxiliary Correction Error Check

CryoSat L1B data includes a correction error flag (field 54) for each measurement record. The bit value of this flag indicates any problems when set.

Number of products with errors:

5.7 L1B FDM Measurement Confidence Data Check

4

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 18 201910101235909 201910111000042 C001		The tracking echo has returned an error and the Rx1 Echo Error flag is set, indicating a degraded echo
CS_OFFL_SIR_FDM_1B_20191011T031557_20191011T032254_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20191011T212640_20191011T213319_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20191011T230914_20191011T231018_C001	Attitude correction missing	The attitude has not been corrected

6. Level 2 FDM Data Quality Check

6.1 L2 FDM Product Format Check

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

6.2 L2 FDM Product Header Analysis

For all products, a series of pre-defined checks are carried out on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain.
Number of products with errors:
7

Product	Test Failed
CS_OFFL_SIR_FDM_220191011T000042_20191011T000223_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_220191011T031557_20191011T032254_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_220191011T032254_20191011T032346_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_220191011T212640_20191011T213319_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_220191011T213319_20191011T213508_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_220191011T230914_20191011T231018_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_220191011T231018_20191011T231028_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).

6.3 L2 FDM Auxiliary Data File Usage Check

Each product is checked for missing Data Set Descriptors with respect to a pre-determined baseline and also to check the validity of Auxiliary Data Files is correct. Number of products with errors: 0

6.4 L2 FDM Auxiliary Correction Error Check

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

Number of products with errors: 43

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220191011T000838_20191011T000847_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_220191011T002029_20191011T005318_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_220191011T015718_20191011T022749_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_220191011T022800_20191011T023234_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_220191011T025021_20191011T031426_C001	Sea State Bias Correction, Mean Sea Surface height	There is an error with the Sea State Bias Correction and the Mean Sea Surface Height for one or more records
CS_OFFL_SIR_FDM_220191011T032254_20191011T032346_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_220191011T033631_20191011T034147_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_220191011T035455_20191011T035729_C001	Sea State Bias Correction	There is an error with the Sea State Bias Correction for one or more records
CS_OFFL_SIR_FDM_220191011T035733_20191011T040527_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_220191011T040531_20191011T041148_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_220191011T044449_20191011T045341_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_220191011T045508_20191011T050155_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_220191011T052401_20191011T053413_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_220191011T053616_20191011T053828_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_220191011T062439_20191011T063401_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_220191011T063423_20191011T063736_C001	Sea State Bias Correction	There is an error with the Sea State Bias Correction for one or more records
CS_OFFL_SIR_FDM_220191011T063859_20191011T064119_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_220191011T064156_20191011T064217_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_220191011T071501_20191011T072917_C001	Sea State Bias Correction	There is an error with the Sea State Bias Correction for one or more records
CS_OFFL_SIR_FDM_220191011T074540_20191011T081115_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_220191011T084419_20191011T090826_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_220191011T092429_20191011T095047_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_220191011T095242_20191011T095304_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_220191011T102201_20191011T104753_C001	Sea State Bias Correction, Altimetric Wind Speed	There is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more records

CS_OFFL_SIR_FDM_2_2019101T110514_20191011T113745_0001 Sea State Bias Correction, Attimetic Oraceton for one or more records CS_OFFL_SIR_FDM_2_2019101T122228_019101T122232_019101T122232_019101T122232_019101T122232_019101T122232_019101T122232_019101T122232_019101T122232_019101T12232_001 Sea State Bias Correction, Attimetic Oraceton for one or more records CS_OFFL_SIR_FDM_2_2019101T122232_019101T120451_0001 Sea State Bias Correction, Attimetic Oraceton for one or more records There is an error with the Attimetic Wind Speed and Sea State Bias Correction, for one or more records CS_OFFL_SIR_FDM_2_2019101T134654_019101T134654_0019101T151924_0001 Sea State Bias Correction, Attimetic Wind Speed There is an error with the Attimetic Wind Speed and Sea State Bias Correction for one or more records CS_OFFL_SIR_FDM_2_2019101T151703_0191011T151924_0001 Sea State Bias Correction, Attimetic Correction for one or more records There is an error with the Attimetic Wind Speed and Sea State Bias Correction for one or more records CS_OFFL_SIR_FDM_2_2019101T161752_0191011T161721_0001 Sea State Bias Correction There is an error with the Sea State Bias Correction for one or more records CS_OFFL_SIR_FDM_2_2019101T161752_0191011T161752_0191011T161752_00101 Sea State Bias Correction There is an error with the Attimetric Wind Speed CS_OFFL_SIR_FDM_2_2019101T176179_0191011T161732_0010 Sea State Bias Correction There is an error with the Attimetric Wind Speed CS_OFFL_SIR_FDM_2_2019101T176179_019101T1765			
CS_OFFL_SIR_FDM_2_201910111122432_001 Wind Speed Correction for one or more records CS_OFFL_SIR_FDM_2_201910111122432_0010111130451_C001 Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_20191011113454_201910111135526_C001 Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_201910111134554_201910111135526_C001 Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_201910111150204_201910111151924_C001 Sea State Bias Correction Correction for one or more records CS_OFFL_SIR_FDM_2_201910111150204_201910111161721_C001 Sea State Bias Correction There is an error with the Altimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_201910111161752_201910111161721_C001 Sea State Bias Correction There is an error with the Sea State Bias Correction for one or more records CS_OFFL_SIR_FDM_2_201910111161752_20191011116191_C001 Sea State Bias Correction There is an error with the Sea State Bias Correction for one or more records CS_OFFL_SIR_FDM_2_201910111161752_001 Sea State Bias Correction, Altimetric There is an error with the Sea State Bias Correction for one or more records CS_OFFL_SIR_FDM_2_201910111161751_SC0_C001 Wind Speed There is an eror with the Altimetric Wind Speed and Sea St	CS_OFFL_SIR_FDM_220191011T110514_20191011T113745_C001		
CS_OFFL_SIR_FDM_2_201910111124412_20191011113045_0001 Wind Speed Correction for one or more records CS_OFFL_SIR_FDM_2_201910111130737_201910111131905_C001 See State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_201910111130737_201910111135266_C001 Sea State Bias Correction, Altimetric Correction for one or more records CS_OFFL_SIR_FDM_2_201910111153703_201910111151924_C001 Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_201910111152024_201910111154232_C001 Sea State Bias Correction There is an error with the Sea State Bias Correction for one or more records CS_OFFL_SIR_FDM_2_201910111160230_201910111161721_C001 Sea State Bias Correction There is an error with the Sea State Bias Correction for one or more records CS_OFFL_SIR_FDM_2_201910111161752_201910111161315_C001 Sea State Bias Correction There is an error with the Altimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_201910111161315_C001 Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_201910111716132_C011011116133_C001 Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_201910111716310_201910111716133_C001 Sea State Bias Correction, Altimetric <	CS_OFFL_SIR_FDM_220191011T122228_20191011T122432_C001		
US_OFFL_SIR_FDM_2_201910111130/3/_20191011113905_C001 Wind Speed Correction for one or more records CS_OFFL_SIR_FDM_2_201910111134854_201910111135526_C001 Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_20191011115024_20191011115924_C001 Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_20191011115024_20191011116323_C001 Sea State Bias Correction, Altimetric There is an error with the Sea State Bias Correction for one or more records CS_OFFL_SIR_FDM_2_20191011116023_201910111161721_C001 Sea State Bias Correction There is an error with the Sea State Bias Correction for one or more records CS_OFFL_SIR_FDM_2_20191011116023_20191011116191_C001 Sea State Bias Correction There is an error with the Sea State Bias Correction for one or more records CS_OFFL_SIR_FDM_2_20191011116135_C001 Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_2019101117437_20191011117540_C001 Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_2019101117183108_201910111184713_C001 Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more records <td>CS_OFFL_SIR_FDM_220191011T124412_20191011T130451_C001</td> <td></td> <td></td>	CS_OFFL_SIR_FDM_220191011T124412_20191011T130451_C001		
CS_OFFL_SIR_FDM_2_2019101113484_2019101113522_C001 Wind Speed Correction for one or more records CS_OFFL_SIR_FDM_2_20191011T15103_20191011T151924_C001 Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_20191011T152024_20191011T161722_C001 Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_20191011T161752_20191011T161721_C001 Sea State Bias Correction There is an error with the Altimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_20191011T161752_20191011T161911_C001 Sea State Bias Correction There is an error with the Altimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_20191011T16252_20191011T163135_C001 Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_20191011T175719_20191011T16335_C001 Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_20191011T175719_20191011T185302_C001 Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_20191011T185148_20191011T190520_C001 Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_20191011T182148_20191011T194307_C001 Sea State B	CS_OFFL_SIR_FDM_220191011T130737_20191011T131905_C001		
US_OFFL_SIR_FDM_2_201910111151/03_201910111151/24_2001 Wind Speed Correction for one or more records CS_OFFL_SIR_FDM_2_201910111162302_201910111161721_C001 Sea State Bias Correction, Atlimetric There is an error with the Sea State Bias Correction for one or more records CS_OFFL_SIR_FDM_2_201910111160230_201910111161721_C001 Sea State Bias Correction, Atlimetric There is an error with the Sea State Bias Correction for one or more records CS_OFFL_SIR_FDM_2_201910111162352_201910111163135_C001 Sea State Bias Correction, Atlimetric There is an error with the Sea State Bias Correction for one or more records CS_OFFL_SIR_FDM_2_201910111162352_201910111163135_C001 Sea State Bias Correction, Atlimetric There is an error with the Atlimetric Wind Speed and Sea State Bias Correction, Attimetric CS_OFFL_SIR_FDM_2_20191011117719_201910111175540_C001 Sea State Bias Correction, Attimetric There is an error with the Attimetric Wind Speed and Sea State Bias Correction for one or more records CS_OFFL_SIR_FDM_2_201910111175719_2019101111175540_C001 Wind Speed Sea State Bias Correction, Attimetric Wind Speed Wind Speed Correction for one or more records CS_OFFL_SIR_FDM_2_201910111185148_201910111184713_C001 Sea State Bias Correction, Attimetric Wind Speed Sea State Bias Correction, Attimetric There is an error with the Attimetric Wind Speed and Sea State Bias Correction for one or more records	CS_OFFL_SIR_FDM_220191011T134854_20191011T135526_C001		
CS_OFFL_SIR_FDM_2_201910111152024_201910111154323_C001 Sea State Bias Correction records CS_OFFL_SIR_FDM_2_20191011T160230_20191011T161721_C001 Sea State Bias Correction There is an error with the Atlimetric Wind Speed and Sea State Bias Correction for one or more records CS_OFFL_SIR_FDM_2_20191011T162352_20191011T163135_C001 Sea State Bias Correction There is an error with the Sea State Bias Correction for one or more records CS_OFFL_SIR_FDM_2_20191011T162352_20191011T163135_C001 Sea State Bias Correction, Attimetric There is an error with the Sea State Bias Correction for one or more records CS_OFFL_SIR_FDM_2_20191011T17437_20191011T175540_C001 Sea State Bias Correction, Attimetric There is an error with the Attimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_20191011T175719_20191011T184332_C001 Sea State Bias Correction, Attimetric There is an error with the Attimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_20191011T184308_20191011T184713_C001 Sea State Bias Correction, Attimetric There is an error with the Attimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_20191011T185148_20191011T19620_C001 Sea State Bias Correction, Attimetric There is an error with the Attimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_20191011T1920857_20191011T20460_C001 Sea State Bias Correction, Attimetric There is an error with the Attimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_20191011T204502_2	CS_OFFL_SIR_FDM_220191011T151703_20191011T151924_C001		
CS_OFFL_SIR_FDM_2_201910111160123_201910111161721_C001 Wind Speed Correction for one or more records CS_OFFL_SIR_FDM_2_20191011T161752_20191011T161911_C001 Sea State Bias Correction There is an error with the Sea State Bias Correction for one or more records CS_OFFL_SIR_FDM_2_20191011T162352_20191011T163135_C001 Sea State Bias Correction, Altimetric There is an error with the Atimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_20191011T175719_20191011T175740_C001 Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_20191011T175719_20191011T185132_C001 Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_20191011T183108_20191011T184713_C001 Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_20191011T185148_20191011T190520_C001 Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_20191011T192136_20191011T194307_C001 Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_20191011T201640_C001 Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_20191011T201858_20191011T201640_C001	CS_OFFL_SIR_FDM_220191011T152024_20191011T154323_C001	Sea State Bias Correction	
CS_OFFL_SIR_FDM_2_201910111161752_201910111163135_C001 Sea State Bias Correction records CS_OFFL_SIR_FDM_2_20191011T174137_20191011T175540_C001 Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_20191011T175719_20191011T175540_C001 Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_20191011T175719_20191011T183132_C001 Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_20191011T183108_20191011T184713_C001 Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_20191011T185148_20191011T190520_C001 Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_20191011T19216_2019011T194307_C001 Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_20191011T200857_20191011T201640_C001 Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_20191011T201858_20191011T204502_C001 Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_20191011T20155_C001 Sea State B	CS_OFFL_SIR_FDM_220191011T160230_20191011T161721_C001		
CS_OFFL_SIR_FDM_2_201910111162352_201910111163135_C001Sea State Bias CorrectionrecordsCS_OFFL_SIR_FDM_2_2019101111775719_2019101111775540_C001Sea State Bias Correction, Altimetric Wind SpeedThere is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more recordsCS_OFFL_SIR_FDM_2_2019101111775719_201910111183108_201910111184713_C001Sea State Bias Correction, Altimetric Wind SpeedThere is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more recordsCS_OFFL_SIR_FDM_2_201910111185148_201910111190520_C001Sea State Bias Correction, Altimetric Wind SpeedThere is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more recordsCS_OFFL_SIR_FDM_2_201910111192136_201910111194307_C001Sea State Bias Correction, Altimetric Wind SpeedThere is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more recordsCS_OFFL_SIR_FDM_2_201910111200857_20191011120460_C001Sea State Bias Correction, Altimetric Wind SpeedThere is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more recordsCS_OFFL_SIR_FDM_2_201910111201858_201910111204502_C001Sea State Bias Correction, Altimetric Wind SpeedThere is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more recordsCS_OFFL_SIR_FDM_2_201910111201858_201910111204502_C001Sea State Bias Correction, Altimetric Wind SpeedThere is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more recordsCS_OFFL_SIR_FDM_2_201910111201858_201910117204502_C001Sea State Bias Correction, Altimetric Wind SpeedThere is an error with the Alt	CS_OFFL_SIR_FDM_220191011T161752_20191011T161911_C001	Sea State Bias Correction	
CS_OFFL_SIR_FDM_2_201910111174137_201910111175540_C001 Wind Speed Correction for one or more records CS_OFFL_SIR_FDM_2_201910111175719_20191011118332_C001 Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_201910111183108_201910111184713_C001 Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_201910111185148_201910111190520_C001 Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_201910111192136_201910111194307_C001 Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_201910111200857_201910111201640_C001 Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more records Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_201910111200857_201910111204502_C001 Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more records Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_2019101117201858_2019101117204502_C001 Sea State Bias Corr	CS_OFFL_SIR_FDM_220191011T162352_20191011T163135_C001	Sea State Bias Correction	
CS_OFFL_SIR_FDM_2_20191011117/5/19_20191011118332_C001 Wind Speed Correction for one or more records CS_OFFL_SIR_FDM_2_201910111183108_20191011T184713_C001 Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_20191011T185148_20191011T190520_C001 Wind Speed Correction for one or more records CS_OFFL_SIR_FDM_2_20191011T192136_20191011T194307_C001 Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_20191011T1920857_20191011T194307_C001 Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_20191011T200857_20191011T201640_C001 Wind Speed Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_20191011T201858_20191011T204502_C001 Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_20191011T201858_20191011T204502_C001 Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more records Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more records Sea State Bias Correction, Altimetric	CS_OFFL_SIR_FDM_220191011T174137_20191011T175540_C001		
CS_OFFL_SIR_FDM_2_201910111183108_201910111184/13_C001 Wind Speed Correction for one or more records CS_OFFL_SIR_FDM_2_201910111185148_201910111190520_C001 Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_201910111192136_201910111194307_C001 Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_201910111200857_201910111201640_C001 Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_201910111201858_201910111204502_C001 Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_201910111201858_201910111204502_C001 Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more records Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_20191011120155_201910117204502_C001 Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more records Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more records Sea State Bias Correction, Altimetric <td>CS_OFFL_SIR_FDM_220191011T175719_20191011T181332_C001</td> <td></td> <td></td>	CS_OFFL_SIR_FDM_220191011T175719_20191011T181332_C001		
CS_OFFL_SIR_FDM_2_201910111193148_201910111190520_C001 Wind Speed Correction for one or more records CS_OFFL_SIR_FDM_2_201910111192136_201910111194307_C001 Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_201910111200857_201910111201640_C001 Wind Speed Correction for one or more records CS_OFFL_SIR_FDM_2_201910111201858_201910111204502_C001 Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_201910111201858_201910111204502_C001 Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_201910111201858_201910111204502_C001 Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_201910111201858_201910111204502_C001 Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_201910111204502_C001 Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_2019101117204502_2019101117204502_2011 Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more records Sea State Bias Correction, Altimetric There is an error wit	CS_OFFL_SIR_FDM_220191011T183108_20191011T184713_C001		
CS_OFFL_SIR_FDM_2_201910111200857_20191011120440_C001 Wind Speed Correction for one or more records CS_OFFL_SIR_FDM_2_201910117200857_201910117204502_C001 Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_201910117201858_201910117204502_C001 Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_201910117210256_201910117212515_C001 Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_201910117210256_201910117212515_C001 Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_201910117204007_201910117230712_C001 Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_201910117204007_201910117230712_C001 Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias	CS_OFFL_SIR_FDM_220191011T185148_20191011T190520_C001		
CS_OFFL_SIR_FDM_2_201910111200857_201910111201640_C001 Wind Speed Correction for one or more records CS_OFFL_SIR_FDM_2_201910111201858_201910111204502_C001 Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_201910111210256_201910111212515_C001 Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_201910111210256_20191011122155_C001 Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS_OFFL_SIR_FDM_2_201910111224007_2019101111224007_201910111224007_201910111224007_20191	CS_OFFL_SIR_FDM_220191011T192136_20191011T194307_C001		
CS_OFFL_SIR_FDM_2_201910111201658_201910111204502_C001 Wind Speed CS_OFFL_SIR_FDM_2_201910111210256_201910111212515_C001 CS_OFFL_SIR_FDM_2_201910111224007_201910111221515_C001 CS_OFFL_SIR_FDM_2_201910111224007_20191011124007_20191011124007_20191011124007_20191011124007_20191011124007_20191011124007_20191011124007_20191011124007_20191011124007_201910011124007_20191011124007_20191011124007_20191011124007_20191011124007_20191011124007_20191011124007_20191011124007_20191011124007_20191011124007_20191011124007_20191011124007_20191011124007_20191011124007_20191011124007_20191011124007_20191011124007_20191011124007_20191011124007_20191011124007_2007_20000000000000000000000000000	CS_OFFL_SIR_FDM_220191011T200857_20191011T201640_C001		
CS_OFFL_SIR_FDM_2_201910111210256_201910111212515_C001 Wind Speed Correction, Altimetric CS_OFFL_SIR_FDM_2_20191011122007_201010111220512_C001 Wind Speed Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias	CS_OFFL_SIR_FDM_220191011T201858_20191011T204502_C001		
	CS_OFFL_SIR_FDM_220191011T210256_20191011T212515_C001		
	CS_OFFL_SIR_FDM_220191011T224007_20191011T230712_C001		
		, · ·	

6.5 L2 FDM Measurement Confidence Data Check

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

 Number of products with errors:
 4

Number of products with errors: 4		
Product	Test Failed	Description
CS_OFFL_SIR_FDM_220191010T235909_20191011T000042_C001	Echo error, Attitude correction missing	The Echo Rx1 Error flag is set, indicating a degraded raw echo. The attitude
CS_OFFL_SIR_FDM_220191011T031557_20191011T032254_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220191011T212640_20191011T213319_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220191011T230914_20191011T231018_C001	Attitude correction missing	The attitude has not been corrected

6.6 L2 FDM Range Measurement Check

CryoSat L2 data includes a CFI (field 17) and OCOG (field 22) Range Averaging Status flag for each measurement record. The bit value of this flag indicates any problems when set. Number of products with errors: 29

Test Failed	Description
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.
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.
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.
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.
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.
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.
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.
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.
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.
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.
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.
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.
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.
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.
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.
	CFI Retracked Range Flag CFI Retracked Range Flag

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.
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.
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.
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.
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.
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.
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.
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.
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.
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.
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.
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.
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.
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.
	CFI Retracked Range Flag CFI Retracked Range Flag

6.7 L2 FDM SWH and Backscatter Measurement Check

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

Number of	f products	with errors:	29
-----------	------------	--------------	----

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220191011T000838_20191011T000847_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_220191011T002029_20191011T005318_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_220191011T015718_20191011T022749_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_220191011T022800_20191011T023234_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_220191011T033631_20191011T034147_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_220191011T035733_20191011T040527_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_220191011T044449_20191011T045341_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_220191011T052401_20191011T053413_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_220191011T053616_20191011T053828_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_220191011T062439_20191011T063401_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_220191011T063859_20191011T064119_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_220191011T074540_20191011T081115_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_220191011T084419_20191011T090826_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_220191011T092429_20191011T095047_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_220191011T095242_20191011T095304_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_220191011T102201_20191011T104753_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_220191011T110514_20191011T113745_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_220191011T124412_20191011T130451_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_220191011T130737_20191011T131905_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_220191011T160230_20191011T161721_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_220191011T174137_20191011T175540_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_220191011T175719_20191011T181332_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_220191011T183108_20191011T184713_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_220191011T185148_20191011T190520_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_220191011T192136_20191011T194307_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_220191011T200857_20191011T201640_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_220191011T201858_20191011T204502_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_220191011T210256_20191011T212515_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_220191011T224007_20191011T230712_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:
 50

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220191011T000621_20191011T000815_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_220191011T000838_20191011T000847_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_220191011T000849_20191011T000859_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_220191011T002029_20191011T005318_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag is set indicating the CFI Ocean
CS OFFL SIR FDM 2 20191011T015718 20191011T022749 C001	Ocean Retracking Quality Flag	Retracker was not successfully executed for one or more records. The Ocean Retracking Quality Flag is set indicating the CFI Ocean
CS OFFL SIR FDM 2 20191011T022800 20191011T023234 C001	Ocean Retracking Quality Flag	Retracker was not successfully executed for one or more records. The Ocean Retracking Quality Flag is set indicating the CFI Ocean
CS OFFL SIR FDM 2 20191011T033631 20191011T034147 C001		Retracker was not successfully executed for one or more records. The Ocean Retracking Quality Flag is set indicating the CFI Ocean
	Ocean Retracking Quality Flag	Retracker was not successfully executed for one or more records. The Ocean Retracking Quality Flag is set indicating the CFI Ocean
CS_OFFL_SIR_FDM_220191011T035455_20191011T035729_C001	Ocean Retracking Quality Flag	Retracker was not successfully executed for one or more records. The Ocean Retracking Quality Flag is set indicating the CFI Ocean
CS_OFFL_SIR_FDM_220191011T035733_20191011T040527_C001	Ocean Retracking Quality Flag	Retracker was not successfully executed for one or more records.
CS_OFFL_SIR_FDM_220191011T043049_20191011T044122_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_220191011T044449_20191011T045341_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_220191011T052401_20191011T053413_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_220191011T053616_20191011T053828_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_220191011T053921_20191011T054347_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_220191011T062439_20191011T063401_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_220191011T063423_20191011T063736_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_220191011T063859_20191011T064119_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_220191011T074540_20191011T081115_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_220191011T084419_20191011T090826_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_220191011T092429_20191011T095047_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_220191011T095242_20191011T095304_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_220191011T102201_20191011T104753_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_220191011T110514_20191011T113745_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_220191011T114930_20191011T115228_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_220191011T120232_20191011T121036_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_220191011T124412_20191011T130451_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_220191011T130737_20191011T131905_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_220191011T132859_20191011T133244_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_220191011T135533_20191011T140509_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_220191011T142248_20191011T145516_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_220191011T145526_20191011T145859_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_220191011T152024_20191011T154323_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_220191011T160230_20191011T161721_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_220191011T161752_20191011T161911_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_220191011T162352_20191011T163135_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_220191011T163201_20191011T163656_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_220191011T165218_20191011T170753_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_220191011T171008_20191011T172502_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_220191011T174137_20191011T175540_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_220191011T175719_20191011T181332_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_220191011T183108_20191011T184713_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_220191011T185148_20191011T190520_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_220191011T192136_20191011T194307_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_220191011T200857_20191011T201640_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_220191011T201858_20191011T204502_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_220191011T210256_20191011T212515_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_220191011T215753_20191011T222255_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_220191011T224007_20191011T230712_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_220191011T231436_20191011T231728_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_220191011T232930_20191012T000205_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag is set indicating the CFI Ocean Retracker was not successfully executed for one or more records.

7. QCC Report Analysis

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

Product type	Nb. Products	Nb. QCC Reports	Nb. Valid	Nb. Warnings	Nb. Errors
SIR1LRM_0_	150	150	150	0	0
SIR1SAR_0_	149	113	113	0	0
SIR1SIN_0_	99	99	98	1	0
SIR_FDM_1B	150	149	150	0	0
SIR_FDM_2	149	149	149	0	0

7.1 QCC Errors

Number of QCC r	eports with errors:	C)							
7.2 QCC Wa	rnings									
Number of QCC reports with warnings 1										
		Total number of occurrences of each warning								
		1	0	0	0	0	0	0	0	0
Product Type	Product Start Time	QF	-	-	-	-	-	-	-	-
SIR1SIN_0_	20191011T113947	х								
Test Description Key:										
Abbreviation	Test name		Details							
QF	QualityFlag		The quality flag should be set to zero.							

7.3 Missing QCC Reports

Number of products with missing QCC reports: 104