

# IDEAS+ Daily Report for FDM data:

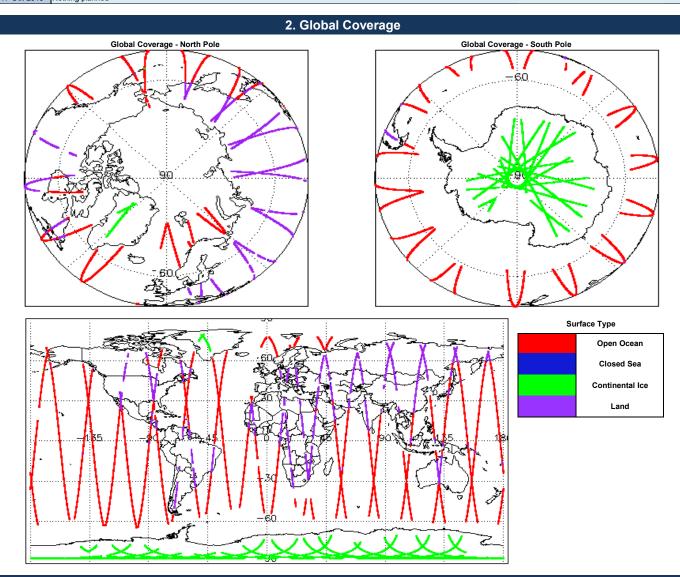
## <u>16/10/2019</u>



## 1. Overview

Demont Draduction Date:	17-Oct-2019	Check	Status	
Report Production Date:	17-Oct-2019	Server check: science-pds.cryosat.esa.int	Nominal	
Processor Used:		Server check: calval-pds.cryosat.esa.int	Nominal	
Processor Used:	CryoSat Ice Processor	Product Software Check	Nominal	
Data Used:	L1 and L2 Fast Delivery Marine (FDM)	Product Format Check	Nominal	
Data Oseu.	Mode and L0 Data	Product Header Analysis	See Section 4.2, 5.2 and 6.2	
		Star Tracker Usage Check	See Section 5.3	
		Calibration Usage Check	Nominal	
		Auxiliary Data File Usage Check	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	

16-Oct-2019None17-Oct-2019Nothing planned



## 3. Instrument Configuration

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

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

4. Level 0 Data Quality Check

### 4.1 L0 Product Format Check

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

0

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.

17

0

Number of products with errors:

CS_OPER_SIR1SAR_0_20191016T005157_20191016T010053_0001.HDR         Percentage of processing errors detected greater than minimum acceptable threshold.           CS_OPER_SIR1SAR_0_20191016T032900_20191016T033503_0001.HDR         Percentage of processing errors detected greater than minimum acceptable threshold.           CS_OPER_SIR1SAR_0_20191016T090748_20191016T091743_0001.HDR         Percentage of processing errors detected greater than minimum acceptable threshold.           CS_OPER_SIR1SAR_0_20191016T141428_20191016T142443_0001.HDR         Percentage of processing errors detected greater than minimum acceptable threshold.           CS_OPER_SIR1SIN_0_20191016T000151_20191016T000503_0001.HDR         Percentage of processing errors detected greater than minimum acceptable threshold.           CS_OPER_SIR1SIN_0_20191016T050505_20191016T000503_0001.HDR         Percentage of processing errors detected greater than minimum acceptable threshold.           CS_OPER_SIR1SIN_0_20191016T072533_20191016T02929_0001.HDR         Percentage of processing errors detected greater than minimum acceptable threshold.           CS_OPER_SIR1SIN_0_20191016T10417_20191016T100548_0001.HDR         Percentage of processing errors detected greater than minimum acceptable threshold.           CS_OPER_SIR1SIN_0_20191016T163246_20191016T145470_0001.HDR         Percentage of processing errors detected greater than minimum acceptable threshold.           CS_OPER_SIR1SIN_0_20191016T10457_20191016T163621_0001.HDR         Percentage of processing errors detected greater than minimum acceptable threshold.           CS_OPER_SIR1SIN_0_20191016T163246_20191016T163621_0001.HDR	Product	Test Failed
CS_OPER_SIR1SAR_0_20191016T033290_20191016T033503_0001.HDRPercentage of processing errors detected greater than minimum acceptable threshold.CS_OPER_SIR1SAR_0_20191016T090748_20191016T091743_0001.HDRPercentage of processing errors detected greater than minimum acceptable threshold.CS_OPER_SIR1SAR_0_20191016T141428_20191016T142443_0001.HDRPercentage of processing errors detected greater than minimum acceptable threshold.CS_OPER_SIR1SIN_0_20191016T00151_20191016T00503_0001.HDRPercentage of processing errors detected greater than minimum acceptable threshold.CS_OPER_SIR1SIN_0_20191016T0055_20191016T050719_0001.HDRPercentage of processing errors detected greater than minimum acceptable threshold.CS_OPER_SIR1SIN_0_20191016T05055_20191016T050719_0001.HDRPercentage of processing errors detected greater than minimum acceptable threshold.CS_OPER_SIR1SIN_0_20191016T072533_20191016T050719_0001.HDRPercentage of processing errors detected greater than minimum acceptable threshold.CS_OPER_SIR1SIN_0_20191016T00417_20191016T100548_0001.HDRPercentage of processing errors detected greater than minimum acceptable threshold.CS_OPER_SIR1SIN_0_20191016T10417_20191016T10548_0001.HDRPercentage of processing errors detected greater than minimum acceptable threshold.CS_OPER_SIR1SIN_0_20191016T163346_20191016T163621_0001.HDRPercentage of processing errors detected greater than minimum acceptable threshold.CS_OPER_SIR1SIN_0_20191016T162447_001.HDRPercentage of processing errors detected greater than minimum acceptable threshold.CS_OPER_SIR1SIN_0_20191016T163346_20191016T163621_0001.HDRPercentage of processing errors detected greater than minimum acceptable threshold.CS_OPER_SIR2SIN_0_20191016T16345_201910		
CS_OPER_SIRISAR_0_20191016T090748_20191016T091743_0001.HDRPercentage of processing errors detected greater than minimum acceptable threshold.CS_OPER_SIRISAR_0_20191016T141428_20191016T142443_0001.HDRPercentage of processing errors detected greater than minimum acceptable threshold.CS_OPER_SIRISAR_0_20191016T214218_20191016T214435_0001.HDRPercentage of processing errors detected greater than minimum acceptable threshold.CS_OPER_SIRISIN_0_20191016T000151_20191016T000503_0001.HDRPercentage of processing errors detected greater than minimum acceptable threshold.CS_OPER_SIRISIN_0_20191016T050505_20191016T050719_0001.HDRPercentage of processing errors detected greater than minimum acceptable threshold.CS_OPER_SIRISIN_0_20191016T072533_20191016T072929_0001.HDRPercentage of processing errors detected greater than minimum acceptable threshold.CS_OPER_SIRISIN_0_20191016T100417_20191016T100548_0001.HDRPercentage of processing errors detected greater than minimum acceptable threshold.CS_OPER_SIRISIN_0_20191016T16346_20191016T163621_0001.HDRPercentage of processing errors detected greater than minimum acceptable threshold.CS_OPER_SIRISIN_0_20191016T064357_20191016T064847_001.HDRPercentage of processing errors detected greater than minimum acceptable threshold.CS_OPER_SIRISIN_0_20191016T122107_20191016T12221_001.HDRPercentage of processing errors detected greater than minimum acceptable threshold.CS_OPER_SIRISIN_0_20191016T122107_20191016T12221_001.HDRPercentage of processing errors detected greater than minimum acceptable threshold.CS_OPER_SIRISIN_0_20191016T163346_20191016T163261_0001.HDRPercentage of processing errors detected greater than minimum acceptable threshold.CS_OPER_SIRISIN_0_20		Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR1SAR_0_20191016T141428_20191016T142443_0001.HDRPercentage of processing errors detected greater than minimum acceptable threshold.CS_OPER_SIR1SAR_0_20191016T214218_20191016T214435_0001.HDRPercentage of processing errors detected greater than minimum acceptable threshold.CS_OPER_SIR1SIN_0_20191016T000151_20191016T000503_0001.HDRPercentage of processing errors detected greater than minimum acceptable threshold.CS_OPER_SIR1SIN_0_20191016T050505_20191016T050719_0001.HDRPercentage of processing errors detected greater than minimum acceptable threshold.CS_OPER_SIR1SIN_0_20191016T072533_20191016T072929_0001.HDRPercentage of processing errors detected greater than minimum acceptable threshold.CS_OPER_SIR1SIN_0_20191016T100417_20191016T100548_0001.HDRPercentage of processing errors detected greater than minimum acceptable threshold.CS_OPER_SIR1SIN_0_20191016T145412_20191016T163621_0001.HDRPercentage of processing errors detected greater than minimum acceptable threshold.CS_OPER_SIR1SIN_0_20191016T16346_20191016T163621_0001.HDRPercentage of processing errors detected greater than minimum acceptable threshold.CS_OPER_SIR2SIN_0_20191016T122107_20191016T16321_0001.HDRPercentage of processing errors detected greater than minimum acceptable threshold.CS_OPER_SIR2SIN_0_20191016T122107_20191016T163621_0001.HDRPercentage of processing errors detected greater than minimum acceptable threshold.CS_OPER_SIR2SIN_0_20191016T16346_20191016T163621_0001.HDRPercentage of processing errors detected greater than minimum acceptable threshold.CS_OPER_SIR2SIN_0_20191016T16346_20191016T163621_0001.HDRPercentage of processing errors detected greater than minimum acceptable threshold.CS_OPER_SIR2SIN_0_	CS_OPER_SIR1SAR_020191016T032900_20191016T033503_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIRISAR_0_20191016T214218_20191016T214435_0001.HDRPercentage of processing errors detected greater than minimum acceptable threshold.CS_OPER_SIRISIN_0_20191016T000151_20191016T000503_0001.HDRPercentage of processing errors detected greater than minimum acceptable threshold.CS_OPER_SIRISIN_0_20191016T050505_20191016T050719_0001.HDRPercentage of processing errors detected greater than minimum acceptable threshold.CS_OPER_SIRISIN_0_20191016T072533_20191016T072929_0001.HDRPercentage of processing errors detected greater than minimum acceptable threshold.CS_OPER_SIRISIN_0_20191016T100417_20191016T100548_0001.HDRPercentage of processing errors detected greater than minimum acceptable threshold.CS_OPER_SIRISIN_0_20191016T145412_20191016T145703_0001.HDRPercentage of processing errors detected greater than minimum acceptable threshold.CS_OPER_SIRISIN_0_20191016T145412_20191016T145621_0001.HDRPercentage of processing errors detected greater than minimum acceptable threshold.CS_OPER_SIR2SIN_0_20191016T16346_20191016T163621_0001.HDRPercentage of processing errors detected greater than minimum acceptable threshold.CS_OPER_SIR2SIN_0_20191016T163346_20191016T163621_0001.HDRPercentage of processing errors detected greater than minimum acceptable threshold.CS_OPER_SIR2SIN_0_20191016T163346_20191016T163621_0001.HDRPercentage of processing errors detected greater than minimum acceptable threshold.CS_OPER_SIR2SIN_0_20191016T163346_20191016T163621_0001.HDRPercentage of processing errors detected greater than minimum acceptable threshold.CS_OPER_SIR2SIN_0_20191016T163346_20191016T163621_0001.HDRPercentage of processing errors detected greater than minimum acceptable threshold.CS_OPER_SIR2SIN	CS_OPER_SIR1SAR_020191016T090748_20191016T091743_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR1SIN_0_20191016T000151_20191016T000503_0001.HDRPercentage of processing errors detected greater than minimum acceptable threshold.CS_OPER_SIR1SIN_0_20191016T050505_20191016T050719_0001.HDRPercentage of processing errors detected greater than minimum acceptable threshold.CS_OPER_SIR1SIN_0_20191016T072533_20191016T072929_0001.HDRPercentage of processing errors detected greater than minimum acceptable threshold.CS_OPER_SIR1SIN_0_20191016T100417_20191016T100548_0001.HDRPercentage of processing errors detected greater than minimum acceptable threshold.CS_OPER_SIR1SIN_0_20191016T145412_20191016T145703_0001.HDRPercentage of processing errors detected greater than minimum acceptable threshold.CS_OPER_SIR1SIN_0_20191016T163346_20191016T163621_0001.HDRPercentage of processing errors detected greater than minimum acceptable threshold.CS_OPER_SIR2SIN_0_20191016T163457_20191016T163621_0001.HDRPercentage of processing errors detected greater than minimum acceptable threshold.CS_OPER_SIR2SIN_0_20191016T163346_20191016T163621_0001.HDRPercentage of processing errors detected greater than minimum acceptable threshold.CS_OPER_SIR2SIN_0_20191016T163346_20191016T163621_0001.HDRPercentage of processing errors detected greater than minimum acceptable threshold.CS_OPER_SIR2SIN_0_20191016T163346_20191016T163621_0001.HDRPercentage of processing errors detected greater than minimum acceptable threshold.CS_OPER_SIR2SIN_0_20191016T163346_20191016T163621_0001.HDRPercentage of processing errors detected greater than minimum acceptable threshold.CS_OPER_SIR2SIN_0_20191016T163346_20191016T163621_0001.HDRPercentage of processing errors detected greater than minimum acceptable threshold.CS_OPER_SIR2SI	CS_OPER_SIR1SAR_0_20191016T141428_20191016T142443_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR1SIN_0_20191016T050505_20191016T050719_0001.HDRPercentage of processing errors detected greater than minimum acceptable threshold.CS_OPER_SIR1SIN_0_20191016T072533_20191016T072929_0001.HDRPercentage of processing errors detected greater than minimum acceptable threshold.CS_OPER_SIR1SIN_0_20191016T100417_20191016T100548_0001.HDRPercentage of processing errors detected greater than minimum acceptable threshold.CS_OPER_SIR1SIN_0_20191016T145412_20191016T145703_0001.HDRPercentage of processing errors detected greater than minimum acceptable threshold.CS_OPER_SIR1SIN_0_20191016T163346_20191016T163621_0001.HDRPercentage of processing errors detected greater than minimum acceptable threshold.CS_OPER_SIR2SIN_0_20191016T163457_20191016T163621_0001.HDRPercentage of processing errors detected greater than minimum acceptable threshold.CS_OPER_SIR2SIN_0_20191016T122107_20191016T12221_0001.HDRPercentage of processing errors detected greater than minimum acceptable threshold.CS_OPER_SIR2SIN_0_20191016T163346_20191016T163621_0001.HDRPercentage of processing errors detected greater than minimum acceptable threshold.CS_OPER_SIR2SIN_0_20191016T122107_20191016T12221_0001.HDRPercentage of processing errors detected greater than minimum acceptable threshold.CS_OPER_SIR2SIN_0_20191016T163346_20191016T163621_0001.HDRPercentage of processing errors detected greater than minimum acceptable threshold.CS_OPER_SIR2SIN_0_20191016T163346_20191016T163621_0001.HDRPercentage of processing errors detected greater than minimum acceptable threshold.CS_OPER_SIR2SIN_0_20191016T190821_20191016T191045_0001.HDRPercentage of processing errors detected greater than minimum acceptable threshold.	CS_OPER_SIR1SAR_020191016T214218_20191016T214435_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIRISIN_0_20191016T072533_20191016T072929_0001.HDRPercentage of processing errors detected greater than minimum acceptable threshold.CS_OPER_SIRISIN_0_20191016T100417_20191016T100548_0001.HDRPercentage of processing errors detected greater than minimum acceptable threshold.CS_OPER_SIRISIN_0_20191016T145412_20191016T145703_0001.HDRPercentage of processing errors detected greater than minimum acceptable threshold.CS_OPER_SIRISIN_0_20191016T163346_20191016T163621_0001.HDRPercentage of processing errors detected greater than minimum acceptable threshold.CS_OPER_SIR2SIN_0_20191016T064357_20191016T064847_0001.HDRPercentage of processing errors detected greater than minimum acceptable threshold.CS_OPER_SIR2SIN_0_20191016T122107_20191016T122221_0001.HDRPercentage of processing errors detected greater than minimum acceptable threshold.CS_OPER_SIR2SIN_0_20191016T163346_20191016T163621_0001.HDRPercentage of processing errors detected greater than minimum acceptable threshold.CS_OPER_SIR2SIN_0_20191016T163346_20191016T163621_0001.HDRPercentage of processing errors detected greater than minimum acceptable threshold.CS_OPER_SIR2SIN_0_20191016T163346_20191016T163621_0001.HDRPercentage of processing errors detected greater than minimum acceptable threshold.CS_OPER_SIR2SIN_0_20191016T190821_20191016T19045_0001.HDRPercentage of processing errors detected greater than minimum acceptable threshold.	CS_OPER_SIR1SIN_020191016T000151_20191016T000503_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIRISIN_0_20191016T100417_20191016T100548_0001.HDR       Percentage of processing errors detected greater than minimum acceptable threshold.         CS_OPER_SIRISIN_0_20191016T145412_20191016T145703_0001.HDR       Percentage of processing errors detected greater than minimum acceptable threshold.         CS_OPER_SIRISIN_0_20191016T163346_20191016T163621_0001.HDR       Percentage of processing errors detected greater than minimum acceptable threshold.         CS_OPER_SIR2SIN_0_20191016T064357_20191016T064847_0001.HDR       Percentage of processing errors detected greater than minimum acceptable threshold.         CS_OPER_SIR2SIN_0_20191016T122107_20191016T122221_0001.HDR       Percentage of processing errors detected greater than minimum acceptable threshold.         CS_OPER_SIR2SIN_0_20191016T163346_20191016T163621_0001.HDR       Percentage of processing errors detected greater than minimum acceptable threshold.         CS_OPER_SIR2SIN_0_20191016T163346_20191016T163621_0001.HDR       Percentage of processing errors detected greater than minimum acceptable threshold.         CS_OPER_SIR2SIN_0_20191016T163346_20191016T163621_0001.HDR       Percentage of processing errors detected greater than minimum acceptable threshold.         CS_OPER_SIR2SIN_0_20191016T190821_20191016T19045_0001.HDR       Percentage of processing errors detected greater than minimum acceptable threshold.	CS_OPER_SIR1SIN_020191016T050505_20191016T050719_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIRISIN_0_20191016T145412_20191016T145703_0001.HDR       Percentage of processing errors detected greater than minimum acceptable threshold.         CS_OPER_SIRISIN_0_20191016T163346_20191016T163621_0001.HDR       Percentage of processing errors detected greater than minimum acceptable threshold.         CS_OPER_SIR2SIN_0_20191016T064357_20191016T064847_0001.HDR       Percentage of processing errors detected greater than minimum acceptable threshold.         CS_OPER_SIR2SIN_0_20191016T122107_20191016T122221_0001.HDR       Percentage of processing errors detected greater than minimum acceptable threshold.         CS_OPER_SIR2SIN_0_20191016T163346_20191016T163621_0001.HDR       Percentage of processing errors detected greater than minimum acceptable threshold.         CS_OPER_SIR2SIN_0_20191016T163346_20191016T163621_0001.HDR       Percentage of processing errors detected greater than minimum acceptable threshold.         CS_OPER_SIR2SIN_0_20191016T163346_20191016T163621_0001.HDR       Percentage of processing errors detected greater than minimum acceptable threshold.         CS_OPER_SIR2SIN_0_20191016T190821_20191016T191045_0001.HDR       Percentage of processing errors detected greater than minimum acceptable threshold.	CS_OPER_SIR1SIN_020191016T072533_20191016T072929_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR1SIN_0_20191016T163346_20191016T163621_0001.HDR       Percentage of processing errors detected greater than minimum acceptable threshold.         CS_OPER_SIR2SIN_0_20191016T064357_20191016T064847_0001.HDR       Percentage of processing errors detected greater than minimum acceptable threshold.         CS_OPER_SIR2SIN_0_20191016T122217_20191016T122221_0001.HDR       Percentage of processing errors detected greater than minimum acceptable threshold.         CS_OPER_SIR2SIN_0_20191016T163346_20191016T163621_0001.HDR       Percentage of processing errors detected greater than minimum acceptable threshold.         CS_OPER_SIR2SIN_0_20191016T163346_20191016T163621_0001.HDR       Percentage of processing errors detected greater than minimum acceptable threshold.         CS_OPER_SIR2SIN_0_20191016T190821_20191016T191045_0001.HDR       Percentage of processing errors detected greater than minimum acceptable threshold.	CS_OPER_SIR1SIN_020191016T100417_20191016T100548_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR2SIN_0_20191016T064357_20191016T064847_0001.HDR       Percentage of processing errors detected greater than minimum acceptable threshold.         CS_OPER_SIR2SIN_0_20191016T122217_20191016T122221_0001.HDR       Percentage of processing errors detected greater than minimum acceptable threshold.         CS_OPER_SIR2SIN_0_20191016T163346_20191016T163621_0001.HDR       Percentage of processing errors detected greater than minimum acceptable threshold.         CS_OPER_SIR2SIN_0_20191016T190821_20191016T191045_0001.HDR       Percentage of processing errors detected greater than minimum acceptable threshold.	CS_OPER_SIR1SIN_020191016T145412_20191016T145703_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR2SIN_0_20191016T122107_20191016T122221_0001.HDR       Percentage of processing errors detected greater than minimum acceptable threshold.         CS_OPER_SIR2SIN_0_20191016T163346_20191016T163621_0001.HDR       Percentage of processing errors detected greater than minimum acceptable threshold.         CS_OPER_SIR2SIN_0_20191016T190821_20191016T191045_0001.HDR       Percentage of processing errors detected greater than minimum acceptable threshold.	CS_OPER_SIR1SIN_020191016T163346_20191016T163621_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR2SIN_0_20191016T163346_20191016T163621_0001.HDR       Percentage of processing errors detected greater than minimum acceptable threshold.         CS_OPER_SIR2SIN_0_20191016T190821_20191016T191045_0001.HDR       Percentage of processing errors detected greater than minimum acceptable threshold.	CS_OPER_SIR2SIN_020191016T064357_20191016T064847_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR2SIN_0_20191016T190821_20191016T191045_0001.HDR Percentage of processing errors detected greater than minimum acceptable threshold.	CS_OPER_SIR2SIN_020191016T122107_20191016T122221_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
	CS_OPER_SIR2SIN_020191016T163346_20191016T163621_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_ODED_SIRJSIN_0_201010167204168_201010167204214_0001 HDD	CS_OPER_SIR2SIN_020191016T190821_20191016T191045_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
	CS_OPER_SIR2SIN_020191016T204158_20191016T204214_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR2SIN_0_20191016T235759_20191016T235822_0001.HDR Percentage of processing errors detected greater than minimum acceptable threshold.	CS_OPER_SIR2SIN_020191016T235759_20191016T235822_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.

### 5. Level 1B FDM Data Quality Check

#### 5.1 L1B FDM Product Format Check

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

Number of products with errors:

### 5.2 L1B FDM Product Header Analysis

For all products, a series of pre-defined checks are carried out on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain. Number of products with errors: 10

Product	Test Failed
CS_OFFL_SIR_FDM_1B_20191016T004353_20191016T004421_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_1B_20191016T004422_20191016T004502_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_1B_20191016T040721_20191016T040950_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_1B_20191016T040950_20191016T041054_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_1B_20191016T203810_20191016T203859_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_1B_20191016T203900_20191016T203917_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_1B_20191016T221516_20191016T221518_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_1B_20191016T221519_20191016T221800_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_1B_20191016T235151_20191016T235321_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_1B_20191016T235322_20191016T235441_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).

		01200021_0001.DDE	
	CS OFFL SIR FDM 1B 20191016T235322 2019101	6T235441 C001.DBL	FOS Predicted Orbit (MPL ORBPRE) used instead of the DORIS Navigator Or
		_	, <u> </u>
1		- 1-	
	5.3 L1B FDM Star Tracker Usage Che	СК	
	Each product is checked in order to ensure a valid star	tracker file has been used in process	ing.
	Number of products with errors:	5	

Product	Test Failed
CS_OFFL_SIR_FDM_1B_20191016T004353_20191016T004421_C001	No Star Tracker file used in the processing of this product
CS_OFFL_SIR_FDM_1B_20191016T040721_20191016T040950_C001	No Star Tracker file used in the processing of this product
CS_OFFL_SIR_FDM_1B_20191016T203810_20191016T203859_C001	No Star Tracker file used in the processing of this product
CS_OFFL_SIR_FDM_1B_20191016T221516_20191016T221518_C001	No Star Tracker file used in the processing of this product
CS_OFFL_SIR_FDM_1B_20191016T235151_20191016T235321_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.

#### 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.

0

0

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: 6

Product	Test Failed	Description
CS_OFFL_SIR_FDM_1B_20191016T004353_20191016T004421_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20191016T040721_20191016T040950_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20191016T055751_20191016T061554_C001	Echo error, TRK echo error	The tracking echo has returned an error and the Rx1 Echo Error flag is set, indicating a degraded echo
CS_OFFL_SIR_FDM_1B_20191016T203810_20191016T203859_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20191016T221516_20191016T221518_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20191016T235151_20191016T235321_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: 10

Product	Test Failed
CS_OFFL_SIR_FDM_220191016T004353_20191016T004421_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_220191016T004422_20191016T004502_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_220191016T040721_20191016T040950_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_220191016T040950_20191016T041054_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_220191016T203810_20191016T203859_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_220191016T203900_20191016T203917_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_220191016T221516_20191016T221518_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_220191016T221519_20191016T221800_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_220191016T235151_20191016T235321_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV).
CS_OFFL_SIR_FDM_220191016T235322_20191016T235441_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.

36

Number of products	with errors:
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Product	Test Failed	Description
CS_OFFL_SIR_FDM_220191016T020611_20191016T021222_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_220191016T021402_20191016T021844_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_220191016T024046_20191016T031553_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_220191016T042127_20191016T043925_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_220191016T044025_20191016T045519_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_220191016T052857_20191016T054448_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_220191016T055751_20191016T061554_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_220191016T061604_20191016T061846_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_220191016T062026_20191016T063346_C001	Sea State Bias Correction	There is an error with the Sea State Bias Correction for one or more records
CS_OFFL_SIR_FDM_220191016T065014_20191016T071233_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_220191016T071355_20191016T072532_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_220191016T082846_20191016T085638_C001	Sea State Bias Correction	There is an error with the Sea State Bias Correction for one or more records
CS_OFFL_SIR_FDM_220191016T092812_20191016T095204_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_220191016T100822_20191016T104137_C001	Sea State Bias Correction	There is an error with the Sea State Bias Correction for one or more records
CS_OFFL_SIR_FDM_220191016T110818_20191016T111449_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_220191016T114855_20191016T122106_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_220191016T122222_20191016T122239_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_220191016T123311_20191016T123506_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_220191016T125345_20191016T130929_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_220191016T132707_20191016T140239_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_220191016T141221_20191016T141427_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_220191016T142443_20191016T142915_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_220191016T143000_20191016T144735_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_220191016T150648_20191016T154101_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_220191016T164559_20191016T170040_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_220191016T170242_20191016T171204_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_220191016T173400_20191016T175125_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_220191016T181437_20191016T182223_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_220191016T182539_20191016T183944_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_220191016T191403_20191016T191619_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_220191016T191743_20191016T194917_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_220191016T200523_20191016T202932_C001	Sea State Bias Correction	There is an error with the Sea State Bias Correction for one or more records
CS_OFFL_SIR_FDM_220191016T214435_20191016T221031_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_220191016T221917_20191016T222153_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_220191016T223512_20191016T230559_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_220191016T232342_20191016T232739_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

### 6.5 L2 FDM Measurement Confidence Data Check

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

 Number of products with errors:
 6

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220191016T004353_20191016T004421_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220191016T040721_20191016T040950_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220191016T055751_20191016T061554_C001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo
CS_OFFL_SIR_FDM_220191016T203810_20191016T203859_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220191016T221516_20191016T221518_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220191016T235151_20191016T235321_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: 25

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220191016T020611_20191016T021222_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_220191016T024046_20191016T031553_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_220191016T042127_20191016T043925_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_220191016T044025_20191016T045519_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_220191016T052857_20191016T054448_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_220191016T055751_20191016T061554_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_220191016T061604_20191016T061846_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_220191016T065014_20191016T071233_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_220191016T071355_20191016T072532_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_220191016T092812_20191016T095204_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_220191016T110818_20191016T111449_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_220191016T114855_20191016T122106_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_220191016T123311_20191016T123506_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_220191016T125345_20191016T130929_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_220191016T132707_20191016T140239_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_220191016T141221_20191016T141427_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_220191016T142443_20191016T142915_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_220191016T143000_20191016T144735_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_220191016T150648_20191016T154101_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_220191016T164559_20191016T170040_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_220191016T170242_20191016T171204_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_220191016T173400_20191016T175125_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_220191016T191743_20191016T194917_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_220191016T214435_20191016T221031_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_220191016T223512_20191016T230559_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

25

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220191016T020611_20191016T021222_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_220191016T024046_20191016T031553_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_220191016T042127_20191016T043925_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_220191016T044025_20191016T045519_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_220191016T052857_20191016T054448_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_220191016T055751_20191016T061554_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_220191016T061604_20191016T061846_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_220191016T065014_20191016T071233_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_220191016T071355_20191016T072532_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_220191016T092812_20191016T095204_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_220191016T110818_20191016T111449_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_220191016T114855_20191016T122106_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_220191016T123311_20191016T123506_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_220191016T125345_20191016T130929_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_220191016T132707_20191016T140239_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_220191016T141221_20191016T141427_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_220191016T142443_20191016T142915_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_220191016T143000_20191016T144735_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_220191016T150648_20191016T154101_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_220191016T164559_20191016T170040_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.

	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	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.
	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	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: 40

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220191016T002056_20191016T002229_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_220191016T010219_20191016T011305_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_220191016T020611_20191016T021222_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_220191016T021402_20191016T021844_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_220191016T024046_20191016T031553_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_220191016T033503_20191016T040547_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_220191016T042127_20191016T043925_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_220191016T044025_20191016T045519_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_220191016T051233_20191016T052238_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_220191016T052857_20191016T054448_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_220191016T055751_20191016T061554_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_220191016T061604_20191016T061846_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_220191016T065014_20191016T071233_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_220191016T071355_20191016T072532_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_220191016T075141_20191016T081222_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_220191016T082846_20191016T085638_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_220191016T092812_20191016T095204_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_220191016T100822_20191016T104137_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_220191016T105353_20191016T105622_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_220191016T110818_20191016T111449_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_220191016T114855_20191016T122106_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_220191016T123311_20191016T123506_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_220191016T125345_20191016T130929_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_220191016T132707_20191016T140239_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_220191016T141221_20191016T141427_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_220191016T142443_20191016T142915_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_220191016T143000_20191016T144735_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_220191016T150648_20191016T154101_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_220191016T161425_20191016T162756_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_220191016T164559_20191016T170040_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_220191016T170242_20191016T171204_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_220191016T173400_20191016T175125_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_220191016T191403_20191016T191619_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_220191016T191743_20191016T194917_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_220191016T200523_20191016T202932_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_220191016T210139_20191016T212814_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_220191016T214435_20191016T221031_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_220191016T221917_20191016T222153_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_220191016T223512_20191016T230559_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_220191016T235852_20191017T000050_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_	153	153	153	0	0
SIR1SAR_0_	151	100	100	0	0
SIR1SIN_0_	117	117	117	0	0
SIR_FDM_1B	153	151	153	0	0
SIR_FDM_2	151	151	151	0	0
	irs:	0			
2.1 QCC Errors umber of QCC reports with erro 2.2 QCC Warnings		0			
umber of QCC reports with erro		0			
umber of QCC reports with erro	nings				