

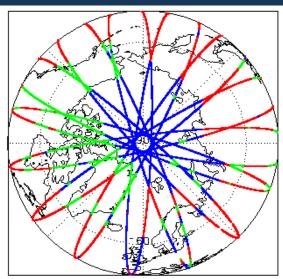
## 1. Overview

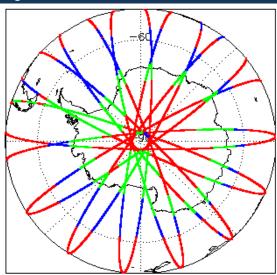
Report Production Date:	06-Jan-2021
Processor Used:	CryoSat Ice Processor
Data Used:	L1B and L2 OFFLINE Data

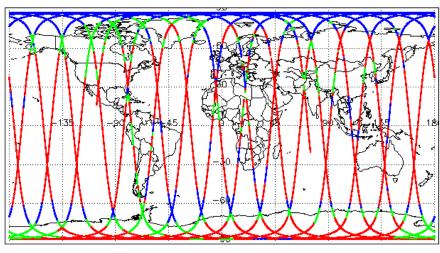
Check	Status
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	Nominal
Star Tracker Usage Check	Nominal
L1B Tracking Flag Check	See Section 4.4
L1B Calibration Usage Check	Nominal
L1B & L2 Auxiliary Data File Usage Check	Nominal
L1B & L2 Auxiliary Correction Error Check	Nominal
L1B & L2 Measurement Confidence Data Check	See Section 4.8 and 5.5
QCC Errors/ Warnings	See Section 6.1, 6.2 and 6.3

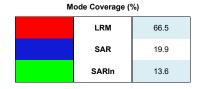
Mission / Instrument News					
05-Dec-2020	None				
06-Dec-2020	None				
07-Dec-2020	Nothing planned				

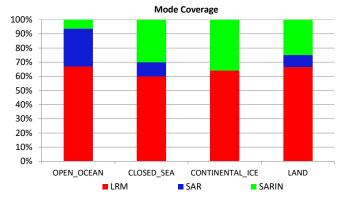
## 2. Global Coverage

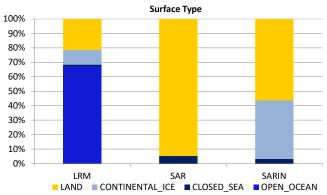












## 3. Instrument Configuration

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

SIRAL instrument(s) in use:

SIRAL - A

## 4. Level 1B Data Quality Check

#### 4.1 L1B 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 product file (.DBL).

Number of products with errors:

(

#### 4.2 L1B 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:

0

#### 4.3 Star Tracker Usage Check

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

Number of products with errors:

0

## 4.4 L1B Tracking Flags Check

CryoSat L1B data includes a tracking flag for each measurement record. The bit value of this flag indicates any problems when set.

Loss of Echo Flag: This flag is currently set for some products over land, but this is to be expected.

umber of products with errors: 1

Product	Test Failed	Description
CS_OFFL_SIR_LRM_1B_20201205T234909_20201206T001121_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201206T001615_20201206T002204_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201206T002216_20201206T002320_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201206T004408_20201206T004416_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201206T004418_20201206T004426_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201206T004432_20201206T004445_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201206T004447_20201206T004510_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201206T004512_20201206T004545_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201206T004549_20201206T011113_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201206T011610_20201206T011708_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201206T012813_20201206T015424_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201206T015426_20201206T015538_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201206T015540_20201206T015551_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201206T015553_20201206T015556_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201206T015559_20201206T015601_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201206T015604_20201206T015836_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201206T015910_20201206T020125_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201206T020233_20201206T020501_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201206T031418_20201206T032345_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201206T032409_20201206T032908_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201206T033051_20201206T033142_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201206T033513_20201206T033631_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201206T033644_20201206T033714_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201206T033714_20201206T033807_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201206T034101_20201206T034113_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201206T050728_20201206T051127_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201206T051132_20201206T051230_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201206T051246_20201206T051434_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201206T053338_20201206T060904_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201206T061730_20201206T062120_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201206T071213_20201206T071333_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201206T071336_20201206T071337_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201206T071340_20201206T071351_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201206T071353_20201206T071404_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201206T071407_20201206T071444_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201206T071446_20201206T072648_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201206T073130_20201206T073239_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201206T073241_20201206T073351_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201206T073505_20201206T074851_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201206T080631_20201206T081948_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201206T082202_20201206T083836_D001	Loss of echo	The tracking echo is missing for one or more records

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CS_OFF_SR_LRM_18_2020120171035S\$_2020120171035			
CS_OFF_SR_LRM_18_202012017103043_20212007103044_D001 Loss of scho The tracking act to a missing for one or more records CS_OFF_SR_LRM_18_202012007110071030_20201200711130_D001 Loss of scho The tracking act to a missing for one or more records CS_OFF_SR_LRM_18_202012007110071120_20201200711130_D001 Loss of scho The tracking act to a missing for one or more records CS_OFF_SR_LRM_18_202012007111505_202012007114605_D001 Loss of scho The tracking act to a missing for one or more records CS_OFF_SR_LRM_18_20201200711505_202012007114605_D001 Loss of scho The tracking act to a missing for one or more records CS_OFF_SR_LRM_18_20201200711505_20201200711503_D001 Loss of scho The tracking act to a missing for one or more records CS_OFF_SR_LRM_18_20201200711505_20201200711503_D001 Loss of scho The tracking act to a missing for one or more records CS_OFF_SR_LRM_18_202012007112013_202012007115015_D001 Loss of scho The tracking act to a missing for one or more records CS_OFF_SR_LRM_18_202012007122013_2021200712015_D001 Loss of scho The tracking act to a missing for one or more records CS_OFF_SR_LRM_18_202012007122013_2021200712578_D001 Loss of scho The tracking act to a missing for one or more records CS_OFF_SR_LRM_18_202012007125001_20012500_D00125788_D001 Loss of scho The tracking act to a missing for one or more records CS_OFF_SR_LRM_18_202012007135001_20012500713578_D001 Loss of scho The tracking ect to a missing for one or more records CS_OFF_SR_LRM_18_202012007135001_20012500713578_D001 Loss of scho The tracking ect to a missing for one or more records CS_OFF_SR_LRM_18_20201200713578_D0010713578_D0			
CS_OFFL_SR_LRM_1B_2020120F1104243_2020120F110436_D001  CS_OFFL_SR_LRM_1B_2020120F1110452_2020120F11143D_D001  CS_OFFL_SR_LRM_1B_2020120F111453_2020120F11143D_D001  CS_OFFL_SR_LRM_1B_2020120F111453_2020120F114451_D001  CS_OFFL_SR_LRM_1B_2020120F114452_2020120F114451_D001  CS_OFFL_SR_LRM_1B_2020120F114452_2020120F114451_D001  CS_OFFL_SR_LRM_1B_2020120F114552_2020120F114451_D001  CS_OFFL_SR_LRM_1B_2020120F114552_2020120F114554_D001  CS_OFFL_SR_LRM_1B_2020120F114552_2020120F114552_D001  CS_OFFL_SR_LRM_1B_2020120F114552_2020120F114575_D001  CS_OFFL_SR_LRM_1B_2020120F114552_2020120F114575_D001  CS_OFFL_SR_LRM_1B_2020120F114552_2020120F114575_D001  CS_OFFL_SR_LRM_1B_2020120F114552_2020120F114575_D001  CS_OFFL_SR_LRM_1B_2020120F114552_2020120F114575_D001  CS_OFFL_SR_LRM_1B_2020120F114550_1200120F114578_D001  CS_OFFL_SR_LRM_1B_2020120F114550_1200120F114578_D001  CS_OFFL_SR_LRM_1B_2020120F114550_1200120F114578_D001  CS_OFFL_SR_LRM_1B_2020120F114550_1200120F114578_D001  CS_OFFL_SR_LRM_1B_2020120F114550_1200120F114578_D001  CS_OFFL_SR_LRM_1B_2020120F114550_1200120F11456_D001  CS_OFFL_SR_LRM_1B_2020120F114550_1200120F11456_D001  CS_OFFL_SR_LRM_1B_2020120F114550_1200120F11456_D001  CS_OFFL_SR_LRM_1B_2020120F114550_1200120F11456_D001  CS_OFFL_SR_LRM_1B_2020120F114550_1200120F11456_D001  CS_OFFL_SR_LRM_1B_2020120F114550_1200120F11456_D001  CS_OFFL_SR_LRM_1B_2020120F11456_D00120F11456_D001  CS_OFFL_SR_LRM_1B_2020120F11456_D00120F11468_D001  CS_OFFL_SR_LRM_1B_2020120F11456_D0012			
CS_OFFL_SIR_LRM_18_20201208T11105_20201208T11173_D001  CS_OFFL_SIR_LRM_18_20201208T11105_20201208T11173_D001  CS_OFFL_SIR_LRM_18_20201208T11105_20201208T11173_D001  CS_OFFL_SIR_LRM_18_20201208T11135_20201208T11173_D001  CS_OFFL_SIR_LRM_18_20201208T11105_20201208T111735_D001  CS_OFFL_SIR_LRM_18_20201208T11105_20201208T111735_D001  CS_OFFL_SIR_LRM_18_20201208T11105_20201208T111735_D001  CS_OFFL_SIR_LRM_18_20201208T11105_20201208T111735_D001  CS_OFFL_SIR_LRM_18_20201208T11105_20201208T111735_D001  CS_OFFL_SIR_LRM_18_20201208T112121_20201208T111735_D001  CS_OFFL_SIR_LRM_18_20201208T112121_20201208T11273_D001  CS_OFFL_SIR_LRM_18_20201208T121213_20201208T1273_D001  CS_OFFL_SIR_LRM_18_20201208T1208T12081_200108T1273_D001  CS_OFFL_SIR_LRM_18_20201208T1208T12081_200108T12873_D001  CS_OFFL_SIR_LRM_18_20201208T128541_D00108T128548_D001  CS_OFFL_SIR_LRM_18_20201208T138541_D00108T128548_D001  CS_OFFL_SIR_LRM_18_20201208T138541_D00108T128548_D001  CS_OFFL_SIR_LRM_18_20201208T138541_D00108T128548_D001  CS_OFFL_SIR_LRM_18_20201208T138542_D00108T138548_D001  CS_OFFL_SIR_LRM_18_20201208T138542_D00108T138548_D001  CS_OFFL_SIR_LRM_18_20201208T138542_D00108T138548_D001  CS_OFFL_SIR_LRM_18_20201208T138542_D00108T138548_D001  CS_OFFL_SIR_LRM_18_20201208T138542_D00108T138548_D001  CS_OFFL_SIR_LRM_18_20201208T138542_D00108T138548_D001  CS_OFFL_SIR_LRM_18_20201208T138542_D00108T138548_D001  CS_OFFL_SIR_LRM_18_20201208T138542_D00108T138548_D001  CS_OFFL_SIR_LRM_18_20201208T138544_D00108T138544_D001  CS_OFFL_SIR_LRM_18_20201208T138544_D00108T13			
CS_OFFL_SIR_LRM_18_2020120FT11501_2020120FT11573_D001  CS_OFFL_SIR_LRM_18_2020120FT11532_2020120FT11553_D001  CS_OFFL_SIR_LRM_18_2020120FT115135_2020120FT11553_D001  CS_OFFL_SIR_LRM_18_2020120FT115135_2020120FT11553_D001  CS_OFFL_SIR_LRM_18_2020120FT115135_2020120FT11575_D001  CS_OFFL_SIR_LRM_18_2020120FT115135_2020120FT11575_D001  CS_OFFL_SIR_LRM_18_2020120FT115135_2020120FT11575_D001  CS_OFFL_SIR_LRM_18_2020120FT12513_2020120FT11575_D001  CS_OFFL_SIR_LRM_18_2020120FT12513_2020120FT12575_D001  CS_OFFL_SIR_LRM_18_2020120FT12513_2020120FT12575_D001  CS_OFFL_SIR_LRM_18_2020120FT12513_2020120FT12575_D001  CS_OFFL_SIR_LRM_18_2020120FT12573_D001  CS_OFFL_SIR_LRM_18_2020120FT125501_2002100FT125728_D001  CS_OFFL_SIR_LRM_18_2020120FT125501_2002100FT125728_D001  CS_OFFL_SIR_LRM_18_2020120FT125501_2002100FT125728_D001  CS_OFFL_SIR_LRM_18_2020120FT125501_200210FT12575_D001  CS_OFFL_SIR_LRM_18_2020120FT125501_200210FT12575_D001  CS_OFFL_SIR_LRM_18_2020120FT125501_200210FT12575_D001  CS_OFFL_SIR_LRM_18_2020120FT125501_200210FT12575_D001  CS_OFFL_SIR_LRM_18_2020120FT125501_200210FT12575_D001  CS_OFFL_SIR_LRM_18_2020120FT125501_200210FT12575_D001  CS_OFFL_SIR_LRM_18_2020120FT12575_D001  CS_OFFL_SIR_LRM_18_2020120FT135701_200120FT13574_D001  CS_OFFL_SIR_LRM_18_2020120FT135701_200120FT13574_D001  CS_OFFL_SIR_LRM_18_2020120FT135701_200120FT13574_D001  CS_OFFL_SIR_LRM_18_2020120FT135701_200120FT13574_D001  CS_OFFL_SIR_LRM_18_2020120FT135701_200120FT13574_D001  CS_OFFL_SIR_LRM_18_2020120FT13571_200120FT13574_D001  CS_OFFL_SIR_LRM_18_2020120FT135732_200120FT13574_D001  CS_OFFL_SIR_LRM_18_2020120FT135732_200120FT13574_D001  CS_OFFL_SIR_LRM_18_2020120FT135732_200120FT13574_D001  CS_OFFL_SIR_LRM_18_2020120FT135732_200120FT13574_D001  CS_OFFL_SIR_LRM_18_2020120FT135732_200120FT13574_D001  CS_OFFL_SIR_LRM_18_2020120FT135732_200120FT13574_D001  CS_OFFL_SIR_LRM_18_2020120FT135732_200120FT13574_D001  CS_OFFL_SIR_LRM_18_2020120FT135732_200120FT13574_D001  CS_OFFL_SIR_LRM_18_2020120FT15323_200120FT135241_D001  CS_OFFL_SIR_LRM_18_2020120FT153			
CS_OFFL_SIR_LRM_18_20201206T112153_20201206T114451_0001			
CS_OFFL_SIR_LRM_18_20201206T114405_20201206T115332_20010  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201206T115332_2001206T115332_20011  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201206T121241_20201206T115372_0001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201206T122401_20201206T122722_0001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201206T125401_20201206T122720_0001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201206T125401_20201206T122720_0001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201206T135441_20201206T135357_0001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201206T1353630_20201206T135357_0001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201206T1353630_20201206T135364_0001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201206T135720_20201206T1357340_0001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201206T135720_20201206T135738_0001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201206T135720_20201206T135738_0001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201206T135720_20201206T135738_0001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201206T135720_20201206T135738_0001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201206T135730_20201206T135730_0001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201206T135333_20201206T153530_0001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201206T153205_20201206T15330_0001  Lo			
CS_OFFL_SIR_LRM_IB_20201206T11915S_20201206T11953L_D001			
CS_OFFL_SIR_LRM_1B_20201206T119566_20201206T149712_D001			
CS_OFFSIR_LRM_18_20201206T121341_20201206T123132_00011			
CS_OFFL_SIR_LRM_18_20201206T125413_20201206T13540_0001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201206T135401_20201206T135408_0001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201206T135401_20201206T135687_0001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201206T135593_20201206T13564_0001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201206T135593_20201206T13574_0001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201206T135720_20201206T13574_0001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201206T135720_20201206T135738_0001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201206T135720_20201206T135738_0001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201206T13573_20201206T140510_0001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201206T140512_000101  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201206T140512_0001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201206T153533_20201206T140533_0001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201206T153533_20201206T15309T_0001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201206T153533_20201206T15300001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201206T154205_20201206T154201_0001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201206T154205_20201206T154210_0001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201206T154217_20201206T154353_0001  Loss of echo The tracking echo is missing f			
CS_OFFL_SIR_LRM_18_20201206T13541_20201206T13570_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201206T13541_20201206T13567_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201206T135639_20201206T13564_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201206T135659_20201206T13564_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201206T135769_20201206T13574_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201206T135720_20201206T13573_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201206T135740_20201206T13573_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201206T135740_20201206T140510_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201206T140512_20201206T141713_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201206T142833_20201206T143833_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201206T142833_20201206T143833_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201206T1452331_20201206T145230_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201206T1452331_20201206T145230_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201206T1452405_20201206T145401_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201206T145441_20201206T145440_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201206T145441_20201206T145440_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201206T145434_20201206T145400_D001  Loss of ech			
CS_OFFL_SIR_LRM_18_20201206T135641_20201206T135640_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201206T135642_D001005T35642_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201206T135659_0202106T135642_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201206T135720_20201206T135724_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201206T135720_20201206T135724_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201206T135720_20201206T135738_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201206T145720_20201206T1401713_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201206T1420512_20201206T1401713_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201206T142033_20201206T144033_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201206T142033_20201206T145333_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201206T152333_20201206T15200T_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201206T153233_20201206T153330_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201206T153233_20201206T153330_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201206T154205_20201206T15401_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201206T154205_20201206T154040_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201206T154205_20201206T154340_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201206T154040_20201206T154040_D001  Loss o			
CS_OFFL_SIR_LRM_18_20201206T135641_20201206T135634_D001			
CS_OFFL_SIR_LRM_18_20201206T139639_20201206T13964D_001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201206T139720_20201206T139718_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201206T139726_20201206T139738_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201206T139726_20201206T139738_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201206T139740_20201206T140510_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201206T140512_20201206T149713_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201206T142833_20201206T143833_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201206T152835_20201206T152907_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201206T152332_20201206T152907_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201206T153933_20201206T153900_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201206T153932_20201206T154021_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201206T154214_20201206T154214_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201206T154214_20201206T154214_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201206T154531_20201206T15406D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201206T1546531_20201206T15406D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201206T154052_20201206T155205_0001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201206T171744_20201206T1717484_D001 Loss of echo The trackin			
CS_OFFL_SIR_LRM_1B_20201206T135720_20201206T13574_0001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201206T135726_20201206T135724_0001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201206T135726_20201206T135738_0001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201206T140512_20201206T140510_0001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201206T140512_20201206T141713_0001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201206T142833_2001206T145333_0001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201206T152835_20201206T15207_0001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201206T153331_20201206T153521_0001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201206T153928_20201206T15303_0001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201206T154205_2001206T15401_0001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201206T154214_20201206T154214_0001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201206T154214_20201206T154346_0001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201206T154313_20201206T154328_0001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201206T154313_20201206T154350_0001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201206T154313_20201206T154350_0001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201206T171343_20201206T17346_0001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201206T1717348_0001  Loss of ech			The tracking echo is missing for one or more records
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CS_OFFL_SIR_LRM_1B_20201206T140512_20201206T140513_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201206T142833_20201206T143633_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201206T152835_20201206T15322T_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201206T153231_20201206T15322T_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201206T153323_20201206T153630_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201206T153333_20201206T153630_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201206T153232_20201206T153630_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201206T154021_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201206T154214_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201206T154214_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201206T154346_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201206T154346_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201206T154805_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201206T17434_20201206T175828_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201206T171342_20201206T171648_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201206T177242_20201206T171648_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201206T177242_20201206T17648_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_			The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_IB_20201206T149512_20201206T141713_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201206T152835_20201206T152907_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201206T1533231_20201206T153321_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201206T1533232_20201206T153333_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201206T153332_20201206T154021_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201206T154305_20201206T154214_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201206T154214_20201206T154214_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201206T154214_20201206T154214_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201206T154217_20201206T154216_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201206T154217_20201206T154215_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201206T154855_20201206T154805_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201206T154855_20201206T155231_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201206T171343_02001206T171346_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201206T171343_02001206T171346_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201206T171720_20201206T17302B_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201206T171720_20201206T17302B_D001  Loss of echo  The tracking echo is missing for one or more records  The tracking echo is missing for one or more			The tracking echo is missing for one or more records
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CS_OFFL_SIR_LRM_18_20201206T152835_20201206T152907_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201206T153331_20201206T153630_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201206T153928_20201206T154021_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201206T154205_20201206T154021_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201206T154205_20201206T154211_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201206T154214_20201206T154214_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201206T154217_20201206T154346_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201206T154313_20201206T154346_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201206T154313_20201206T155231_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201206T164419_20201206T165588_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201206T171343_20201206T165588_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201206T171720_20201206T171446_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201206T177202_0201206T173028_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201206T175943_20201206T183313_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201206T18309_20201206T183333_D001  Loss of echo  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  The trackin		Loss of echo	
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CS_OFFL_SIR_LRM_1B_20201206T183419_20201206T183541_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201206T183544_20201206T183558_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201206T192937_20201206T193132_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201206T194253_20201206T200512_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201206T200925_20201206T201122_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201206T201124_20201206T201139_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201206T201144_20201206T201534_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201206T202838_20201206T204437_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201206T204721_20201206T204951_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201206T205041_20201206T205624_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201206T210814_20201206T211052_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201206T213403_20201206T213646_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201206T214112_20201206T214503_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201206T214505_20201206T214808_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201206T214811_20201206T214822_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201206T214825_20201206T214834_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201206T214836_20201206T214841_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201206T214843_20201206T214845_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201206T214849_20201206T214912_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201206T214914_20201206T214918_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201206T214928_20201206T215535_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201206T220716_20201206T220930_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201206T221053_20201206T221643_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201206T221927_20201206T224232_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201206T224604_20201206T225450_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201206T225801_20201206T232103_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201206T232428_20201206T232523_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201206T232650_20201206T233054_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201206T234547_20201206T234640_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201206T234802_20201206T235538_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201206T235541_20201207T002140_D001	Loss of echo	The tracking echo is missing for one or more records

#### 4.5 L1B Calibration Usage Check

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

0

Number of products with errors:

# 4.6 L1B 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:

#### 4.7 L1B 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.

lumber of products with errors:

#### 4.8 L1B 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.

Currently, there are several common error flags raised in the Level 1B products which are expected due to operational mode or surface type. All common flags are summarised in the list below, followed by a table of any additional issues arising from this test.

Block Degraded Flag: This flag is currently set for a number of individual records generally at the start or end of products (all modes), but this is to be expected.

Phase Perturbation Flag: This flag is currently set for all L1B SARIn products, indicating that the ADC correction application is deactivated, but this is in line with the current configuration.

Number of products with errors: 1

Product	Test Failed	Description
CS_OFFL_SIR_LRM_1B_20201206T140512_20201206T141713_D001	Lecho error IRK echo error	The tracking echo has returned an error and the Rx1 Echo Error flag is set, indicating a degraded echo

#### 5. Level 2 Data Quality Check

#### 5.1 L2 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 product file (.DBL).

Number of products with errors:

#### 5.2 L2 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:

#### 5.3 L2 Auxiliary Data File Usage Check

#### 0

#### 5.4 L2 Auxiliary Correction Error Check

CryoSat L2 data includes a correction error flag (field 30) for each measurement record. The bit value of this flag indicates any problems when set.

Number of products with errors:

#### - (

#### 5.5 L2 Measurement Quality Flag Check

CryoSat L2 data includes a quality flag (field 50) for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.

Currently, there are several common error flags raised in the Level 2 products which are expected due to operational mode or surface type. All common flags are summarised in the list below, followed by a table of any additional issues arising from this test.

Freeboard error: This flag is correctly set in all L2 SAR products that are not discriminated as sea-ice, and for which freeboard cannot be calculated.

Height and Backscatter errors: These flags are currently set for products over land, but this is to be expected. Retracker 1 Height and Backscatter error flags are also set for products over sea-ice, but this is to be expected.

Peakiness error: This flag is currently set for products over sea-ice, but this is to be expected.

SARIn X-Track Angle Error: This flag is set when the difference between the computed surface elevation and the DEM is >50 m. The DEM is only available over Greenland and Antarctica and as a result this flag is set for L2 SARIn products in all other locations as expected.

SSHA interpolation error: This flag is currently set for a number of SAR products occurring at surface type boundaries, but this is to be expected.

Number of products with errors:

56

Product	Test Failed	Description
CS_OFFL_SIR_LRM_220201205T234909_20201206T001121_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2), Surface model unavailable	There is a height and backscatter error for Retracker 2 and no DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220201206T004549_20201206T011113_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220201206T012813_20201206T015424_D001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220201206T020233_20201206T020501_D001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220201206T021814_20201206T025011_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220201206T035707_20201206T040650_D001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220201206T040853_20201206T043014_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220201206T044753_20201206T050401_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220201206T051132_20201206T051230_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220201206T053338_20201206T060904_D001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2), Surface model unavailable	There is a height and backscatter error for Retracker 2 , a height error for Retracker 3 and no DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220201206T062812_20201206T065949_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220201206T071446_20201206T072648_D001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220201206T073130_20201206T073239_D001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220201206T073241_20201206T073351_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220201206T073505_20201206T074851_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220201206T080631_20201206T081948_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220201206T082202_20201206T083836_D001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220201206T090126_20201206T090858_D001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2), Surface model unavailable	There is a height and backscatter error for Retracker 2, a height error for Retracker 3 and no DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220201206T091012_20201206T091150_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220201206T091330_20201206T092721_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records

CS_OFFL_SIR_LRM_220201206T095019_20201206T095616_D001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220201206T100237_20201206T100541_D001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220201206T100703_20201206T100737_D001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220201206T100824_20201206T101412_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_2_20201206T101534_20201206T101715_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220201206T104538_20201206T110605_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220201206T112153_20201206T114451_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220201206T122133_20201206T124517_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220201206T130130_20201206T133335_D001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220201206T135740_20201206T140510_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220201206T140512_20201206T141713_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220201206T144203_20201206T151340_D001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220201206T152658_20201206T152805_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220201206T155527_20201206T160228_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220201206T162019_20201206T164134_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220201206T164419_20201206T165558_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2), Surface model unavailable	There is a height and backscatter error for Retracker 2 and no DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220201206T170509_20201206T170938_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220201206T172424_20201206T173028_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220201206T173215_20201206T174231_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220201206T175943_20201206T182900_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220201206T183009_20201206T183313_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220201206T184824_20201206T185527_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220201206T185543_20201206T192000_D001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220201206T194253_20201206T200512_D001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220201206T200545_20201206T200659_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220201206T202838_20201206T204437_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220201206T205041_20201206T205624_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220201206T211811_20201206T213224_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records

CS_OFFL_SIR_LRM_220201206T213403_20201206T213646_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records			
CS_OFFL_SIR_LRM_220201206T214849_20201206T214912_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records			
CS_OFFL_SIR_LRM_220201206T214928_20201206T215535_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records			
CS_OFFL_SIR_LRM_220201206T220716_20201206T220930_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records			
CS_OFFL_SIR_LRM_220201206T221053_20201206T221643_D001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records			
CS_OFFL_SIR_LRM_220201206T221927_20201206T224232_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records			
CS_OFFL_SIR_LRM_220201206T225801_20201206T232103_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records			
CS_OFFL_SIR_LRM_220201206T235541_20201207T002140_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records			

## 6. 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	No. Products	No. QCC Reports	No. Valid	No. Warnings	No. Errors
SIR_LRM_1B	194	194	194	0	0
SIR_SAR_1B	107	107	107	0	0
SIR_SIN_1B	109	109	109	0	0
SIR_LRM_2	192	192	189	3	0
SIR_SAR_2	109	107	107	0	0
SIR_SIN_2	107	109	107	2	0
SIR_GDR_2	15	15	0	0	15

## 6.1 QCC Errors

Number of products with QCC errors:

15

Product Type	MPHDUTNCDF	MPHXPFNCDF	MPHXVFNCDF	MPHYPFNCDF	MPHYVFNCDF	MPHZPFNCDF	MPHZVFNCDF	EANDREAD	•	-	-	
SIR_GDR_2_	15	15	15	15	15	15	15	15				l

Test Description Key:	est Description Key:					
Abbreviation	Test name	Details				
MPHDUTNCDF	MPH_Delta_UT1_NetCDF	Delta_UT1 mismatch				
MPHXPFNCDF	MPH_X_Position_Float_v2_NetCDF	X_Position mismatch (DBL float (GDR), rounded to 100)				
MPHXVFNCDF	MPH_X_Velocity_Float_v2_NetCDF	X_Velocity mismatch (DBL float (GDR), rounded to 1)				
MPHYPFNCDF	MPH_Y_Position_Float_v2_NetCDF	Y_Position mismatch (DBL float (GDR), rounded to 100)				
MPHYVFNCDF	MPH_Y_Velocity_Float_v2_NetCDF	Y_Velocity mismatch (DBL float (GDR), rounded to 1)				
MPHZPFNCDF	MPH_Z_Position_Float_v2_NetCDF	Z_Position mismatch (DBL float (GDR), rounded to 100)				
MPHZVFNCDF	MPH_Z_Velocity_Float_v2_NetCDF	Z_Velocity mismatch (DBL float (GDR), rounded to 1)				
STRUCTURESIZEANDE	STRUCTURE_SIZE_AND_READ	Under investigation.				

#### 6.2 QCC Warnings

Number of QCC reports with warnings

6

Total number of occurrences of each warning

Product Type	AXDME	AXSMMEOCI	AXSMEOOO	AXWMME000	-	•	
SIR_LRM_2_	0	2	1	1			
SIR SIN 2	2	0	0	0			

Test Description Key:						
Abbreviation	Test name	Details				
AXDME	AttributeXrefDemMustExist	The xref_dem attribute is mandatory in SIN products over continental ice				
AXSMMEOCI	AttributeXrefSlopeModelMustExistOverContinentalIce	The xref_slope_model is mandatory in LRM products over continental ice				
AXSMEOOO	AttributeXrefSsbMustExistOverOpenOcean	The xref_ssb is mandatory in LRM products over open ocean				
AXWMMEOOO	AttributeXrefWindModelMustExistOverOpenOcean	The xref_wind_model attribute is mandatory in LRM products over open ocean				

### 6.2 Missing QCC Reports

Number of products with missing QCC reports:

0