

## <u>16/05/2021</u>



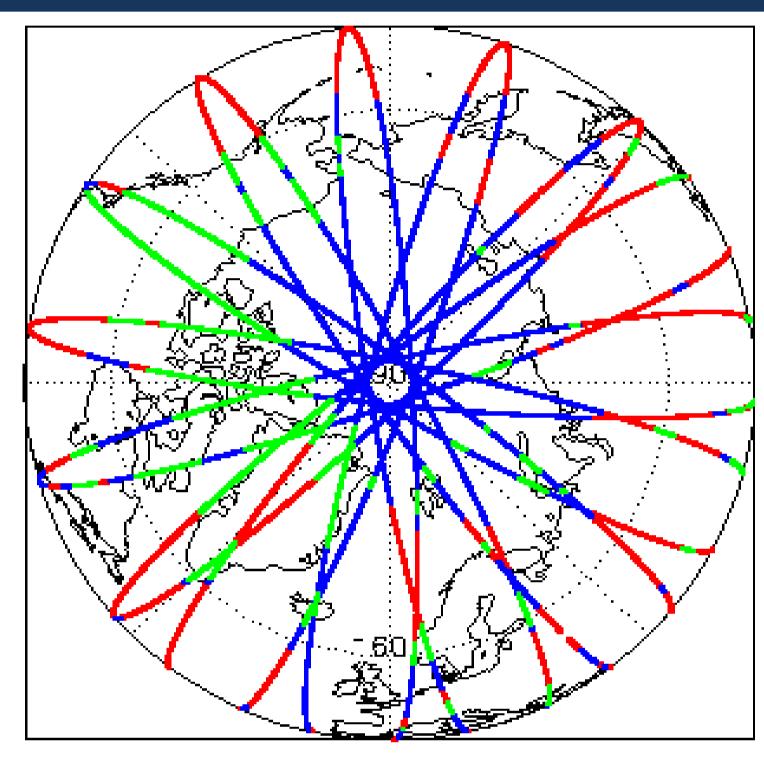
## 1. Overview

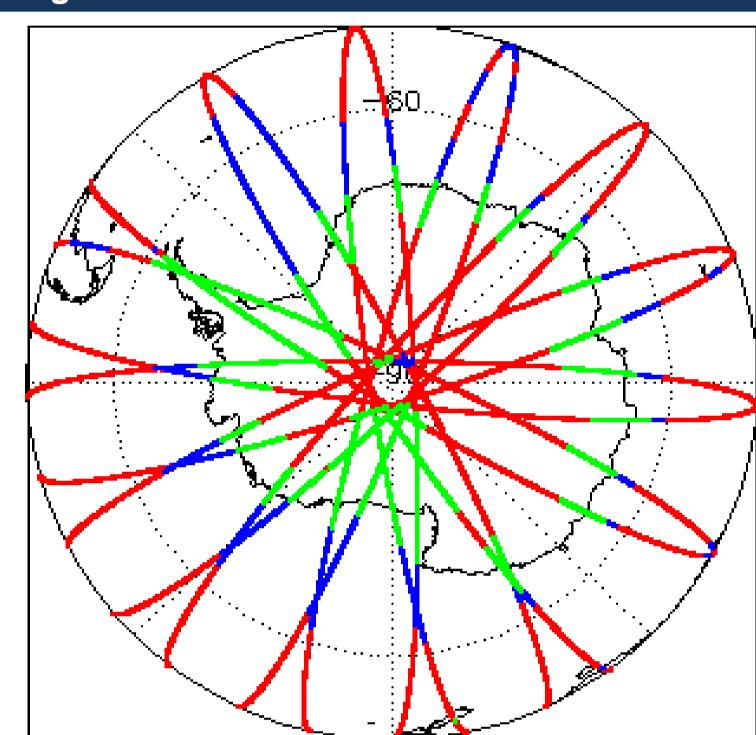
Report Production Date:	16-Jun-2021	
Processor Used:	CryoSat Ice Processor	
Data Used:	L1B and L2 OFFLINE Data	

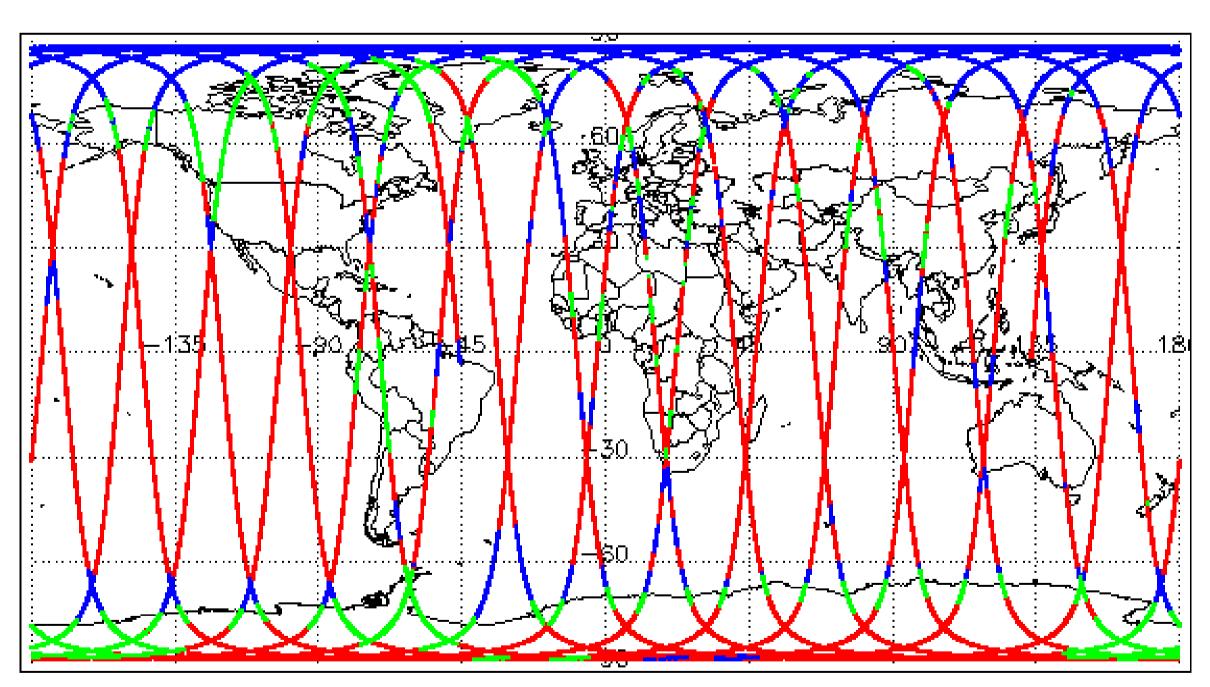
Check	Status
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	Nominal
Star Tracker Usage Check	Nominal
L1B Tracking Flag Check	See Section 4.4
L1B Calibration Usage Check	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

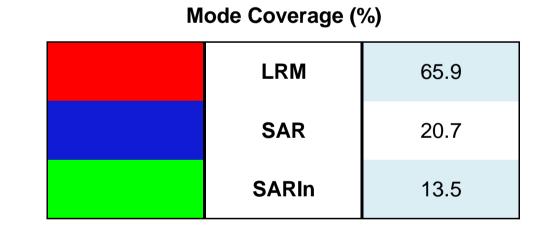
Mission / Instru	lission / Instrument News		
15-May-2021	None		
16-May-2021	None		
17-May-2021	Nothing planned		

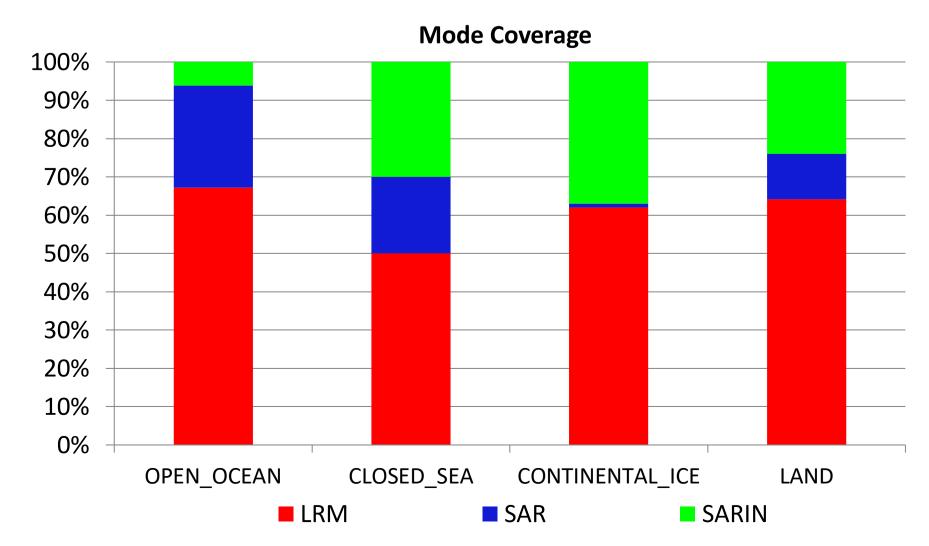
# 2. Global Coverage

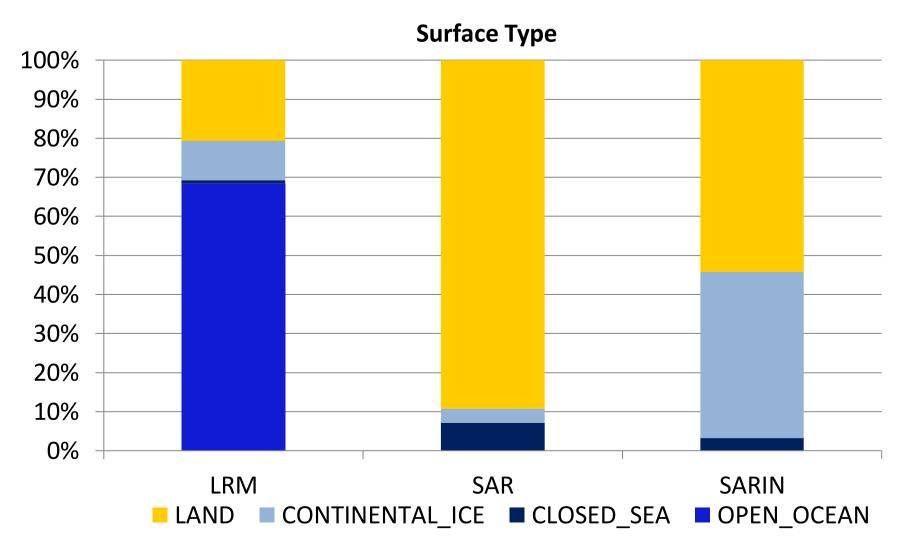












## 3. Instrument Configuration

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

SIRAL instrument(s) in use:

SIRAL - A

0

## 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:

### 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:

## 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.

Number of products with errors:

107

0

Product	Test Failed	Description
CS_OFFL_SIR_LRM_1B_20210516T003053_20210516T003149_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210516T003153_20210516T003345_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210516T003348_20210516T003633_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20210516T004031_20210516T005000_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210516T005203_20210516T005942_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210516T012737_20210516T013045_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210516T013051_20210516T013113_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210516T013116_20210516T013125_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210516T013127_20210516T013136_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210516T014025_20210516T014137_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210516T014140_20210516T014525_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210516T015009_20210516T015325_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210516T020932_20210516T021436_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210516T021438_20210516T021636_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210516T021638_20210516T021827_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210516T021829_20210516T021852_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210516T021911_20210516T021935_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210516T022204_20210516T022305_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210516T025410_20210516T025541_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210516T030027_20210516T033446_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210516T035208_20210516T035525_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210516T035615_20210516T035624_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210516T035952_20210516T042525_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210516T043310_20210516T043635_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210516T050837_20210516T051135_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210516T052932_20210516T053438_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210516T053514_20210516T053727_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210516T053729_20210516T060526_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210516T061209_20210516T061541_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210516T061932_20210516T065328_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210516T071038_20210516T071430_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210516T071520_20210516T071529_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210516T072117_20210516T072610_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210516T072633_20210516T073115_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210516T073222_20210516T073445_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20210516T073450_20210516T073552_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210516T074711_20210516T075232_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210516T085213_20210516T085240_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210516T085257_20210516T085422_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210516T085432_20210516T085444_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210516T085609_20210516T090126_D001	Loss of echo	The tracking echo is missing for one or more records

00 0551 015 1514 15 0001051050505 00010510500100 5001	l. , .	
CS_OFFL_SIR_LRM_1B_20210516T092727_20210516T093133_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210516T093827_20210516T094341_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210516T095147_20210516T101024_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210516T101309_20210516T101500_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210516T112430_20210516T113326_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210516T113329_20210516T113503_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210516T113944_20210516T114649_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210516T114809_20210516T114953_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210516T114955_20210516T115007_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210516T115031_20210516T115236_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210516T115238_20210516T115242_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210516T115244_20210516T115401_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210516T115403_20210516T115405_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210516T115410_20210516T115417_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210516T122600_20210516T122859_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210516T123005_20210516T124107_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210516T130452_20210516T131132_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210516T131312_20210516T131441_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210516T131443_20210516T132850_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210516T132936_20210516T133412_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210516T133433_20210516T133502_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210516T135007_20210516T135026_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210516T135110_20210516T135318_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210516T135838_20210516T140235_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210516T140237_20210516T140241_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210516T140243_20210516T140246_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210516T140252_20210516T140253_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210516T140256_20210516T140314_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210516T140317_20210516T140325_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210516T142524_20210516T143359_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210516T150403_20210516T150451_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210516T150610_20210516T150618_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210516T150621_20210516T150638_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210516T150712_20210516T151240_D001	Loss of echo	The tracking echo is missing for one or more records  The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210516T152727_20210516T153622_D001	Loss of echo	The tracking echo is missing for one or more records  The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210516T152727_20210516T153022_D001  CS_OFFL_SIR_LRM_1B_20210516T153625_20210516T160111_D001	Loss of echo	The tracking echo is missing for one or more records  The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210516T162026_20210516T164437_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210516T164544_20210516T164859_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210516T164859_20210516T165057_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210516T171132_20210516T171155_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210516T175423_20210516T181603_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210516T181607_20210516T182156_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210516T182213_20210516T182316_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210516T182518_20210516T182608_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210516T182658_20210516T182835_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210516T183049_20210516T183119_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210516T192550_20210516T193108_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210516T194153_20210516T194319_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210516T194323_20210516T195005_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210516T195044_20210516T195329_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210516T195842_20210516T200015_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210516T200445_20210516T200514_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210516T200515_20210516T200535_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210516T212702_20210516T213317_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210516T213343_20210516T213404_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210516T213454_20210516T213937_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210516T220136_20210516T220139_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210516T220143_20210516T220152_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210516T220154_20210516T220200_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210516T220203_20210516T220204_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210516T220209_20210516T220211_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210516T220213_20210516T220247_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210516T234008_20210516T234056_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210516T234058_20210516T234214_D001	Loss of echo	The tracking echo is missing for one or more records

CS_OFFL_SIR_LRM_1B_20210516T234216_20210516T234240_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210516T234500_20210516T235942_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.

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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.

Number 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:

Product	Test Failed	Description
CS_OFFL_SIR_LRM_1B_20210516T015009_20210516T015325_D001	TECHO 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_LRM_1B_20210516T093827_20210516T094341_D001	TECHO EHOL TRK ECHO EHOL	The tracking echo has returned an error and the Rx1 Echo Error flag is set, indicating a degraded echo
CS_OFFL_SIR_LRM_1B_20210516T135007_20210516T135026_D001	Echo error, TRK 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

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

Number of products with errors:

## 5.4 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

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**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:

Product	Test Failed	Description
CS_OFFL_SIR_LRM_220210516T000101_20210516T001828_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_220210516T003348_20210516T003633_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
	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

Additional Research Section 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 19	CS_OFFL_SIR_LRM_220210516T005203_20210516T005942_D001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records	
Hage Red Projected 2, Hage Bit 10 / 20 Appeir To Vision State (1997) Appeir To Vision State (199	CS_OFFL_SIR_LRM_220210516T012224_20210516T012444_D001	, , , , , , , , , , , , , , , , , , , ,		
Export   Section   Secti	CS_OFFL_SIR_LRM_220210516T014140_20210516T014525_D001	(Retracker 3), Backscatter Error		
Suffice Male Levelope  On OPTLOR LINE 2 - 200000 ETITO 1923 22213511732323 2000  Page First Platector 28, Best cells on single and postbooking or an interpretation of more programment of the single for own more pr	CS_OFFL_SIR_LRM_220210516T014611_20210516T014839_D001	· · · · · · · · · · · · · · · · · · ·		
Augh Face (Removed 2) Residential Part F	CS_OFFL_SIR_LRM_220210516T021438_20210516T021636_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records	
Security Security Control (1997) Security Control (199	CS_OFFL_SIR_LRM_220210516T021829_20210516T021852_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records	
Percyllen center 2)  Percyllen center 2)  Percyllen center 3)  Percyllen center 3  Percyllen center 4)  Percyllen	CS_OFFL_SIR_LRM_220210516T030027_20210516T033446_D001	, , , , , , , , , , , , , , , , , , , ,		
Pero (Materials 2)  CS_OFFL_SIR_LEM_2_20210516706037_202105167060352_0010  CS_OFFL_SIR_LEM_2_20210516706037_20210516706032_0010  CS_OFFL_SIR_LEM_2_202105167061032_0010  CS_OFFL_SIR_LEM_2_202105167061032_0010  CS_OFFL_SIR_LEM_2_202105167061032_0010  CS_OFFL_SIR_LEM_2_202105167061032_0010  CS_OFFL_SIR_LEM_2_20210516706103_0010  CS_OFFL_SIR_LEM_2_2021051670603_2001051670603_0010  CS_OFFL_SIR_LEM_2_20210516706042_2001051670603_0010  CS_OFFL_SIR_LEM_2_20210516706042_2001051670603_0010  CS_OFFL_SIR_LEM_2_20210516706042_2001051670603_0010  CS_OFFL_SIR_LEM_2_20210516706043_2001051670603_0010  CS_OFFL_SIR_LEM_2_20210516706043_2001051670603_0010  CS_OFFL_SIR_LEM_2_20210516706043_2001051670603_0010  CS_OFFL_SIR_LEM_2_20210516706043_2001051670603_0010  CS_OFFL_SIR_LEM_2_20210516706043_20010516706043_20010  CS_OFFL_SIR_LEM_2_20210516706043_20010516706042_20010  CS_OFFL_SIR_LEM_2_20210516706043_20010516706042_20010  CS_OFFL_SIR_LEM_2_20210516706043_20010516706042_20010  CS_OFFL_SIR_LEM_2_20210516706043_20010516706042_20010  CS_OFFL_SIR_LEM_2_20210516706143_2001051670642_20010  CS_OFFL_SIR_LEM_2_202105167061	CS_OFFL_SIR_LRM_220210516T035952_20210516T042525_D001	· · · · · · · · · · · · · · · · · · ·		
CS_OFF_SIR_LIM_2_20210518109382_20210619105382_D001  Fig. End (Pleasable 2)  F	CS_OFFL_SIR_LRM_220210516T043958_20210516T050636_D001	, ,		
CS_OFFL_SRL_MAL_2_222 05161709322_20210516109322_D001  CS_OFFL_SRL_MAL_2_222*0516109322_20210516109322_D001  CS_OFFL_SRL_MAL_2_222*0516109322_20210516109322_D001  CS_OFFL_SRL_MAL_2_222*0516109322_20210516109322_D001  CS_OFFL_SRL_MAL_2_222*05161070530_20210516109322_D001  CS_OFFL_SRL_MAL_2_222*05161070530_202105161070530_D001  CS_OFFL_SRL_MAL_2_222*05161070530_202105161070530_D001  CS_OFFL_SRL_MAL_2_222*05161070530_202105161070530_D001  CS_OFFL_SRL_MAL_2_222*05161070530_202105161053250_D001  CS_OFFL_SRL_MAL_2_222*05161070530_202105161053250_D001  CS_OFFL_SRL_MAL_2_222*05161070530_202105161053250_D001  CS_OFFL_SRL_MAL_2_222*05161070540_202105161053250_D001  CS_OFFL_SRL_MAL_2_222*05161070540_202105161053250_D001  CS_OFFL_SRL_MAL_2_222*05161070540_202105161053250_D001  CS_OFFL_SRL_MAL_2_222*05161070540_202105161053250_D001  CS_OFFL_SRL_MAL_2_222*05161070540_202105161053250_D001  CS_OFFL_SRL_MAL_2_222*05161070540_20210516105453_D001  CS_OFFL_SRL_MAL_2_222*05161070540_20210516105453_D001  CS_OFFL_SRL_MAL_2_222*05161070540_20210516105453_D001  CS_OFFL_SRL_MAL_2_222*05161070540_20210516105453_D001  CS_OFFL_SRL_MAL_2_222*05161070540_20210516105453_D001  CS_OFFL_SRL_MAL_2_222*05161070540_20210516105453_D001  CS_OFFL_SRL_MAL_2_222*05161070540_20210516105453_D001  CS_OFFL_SRL_MAL_2_222*05161070540_20210516105453_D001  CS_OFFL_SRL_MAL_2_222*05161070540_202105161054544_D001  CS_OFFL_SRL_MAL_2_222*05161070540_202105161054544_D001  CS_OFFL_SRL_MAL_2_222*05161070540_202105161054544_D001  CS_OFFL_SRL_MAL_2_222*05161070540_202105161054544_D001  CS_OFFL_SRL_MAL_2_222*05161070540_202105161054042_D001  CS_OFFL_SRL_MAL_2_222*05161070540_202105161054444_D001  CS_OFFL_SRL_MAL_2_222*05161070540_202105161054444_D001  CS_OFFL_SRL_MAL_2_222*05161070540_20210516105444_D001  CS_OFFL_SRL_MAL_2_222*05161070540_20210516105444_D001  CS_OFFL_SRL_MAL_2_222*05161070540_20210516105444_D001  CS_OFFL_SRL_MAL_2_222*05161070540_20210516105444_D001  CS_OFFL_SRL_MAL_2_222*05161070540_20210516105444_D001  CS_OFFL_SRL_MAL_2_222*05161070540_20210516105444_D0	CS_OFFL_SIR_LRM_220210516T050837_20210516T051135_D001	· · · · · · · · · · · · · · · · · · ·		
CS. OFFL. SIR. LRW. 2. 20210519707983 20210519709805 D001  CS. OFFL. SIR. LRW. 2. 202105197079771 20210519707923 D001  CS. OFFL. SIR. LRW. 2. 202105197079723 D001  CS. OFFL. SIR. LRW. 2. 20210519707925 20210519709243 D001  CS. OFFL. SIR. LRW. 2. 20210519707925 20210519709243 D001  CS. OFFL. SIR. LRW. 2. 2021051970925 20210519709243 D001  CS. OFFL. SIR. LRW. 2. 20210519709242 20210519709243 D001  CS. OFFL. SIR. LRW. 2. 20210519709242 20210519709243 D001  CS. OFFL. SIR. LRW. 2. 20210519709242 20210519709244 D001  CS. OFFL. SIR. LRW. 2. 20210519709242 20210519709242 20210519709242 20210519709242 20210519709242 20210519709242 20210519709242 20210519709242 20210519709242 2021051970	CS_OFFL_SIR_LRM_220210516T053729_20210516T060526_D001	(Retracker 3), Backscatter Error		
CS_OFFL_SR_LRM_2_20210516T079399_20210516T079399_D001  Referacker 2)  Referacker 3)  Referacker 2)  Referacker	CS_OFFL_SIR_LRM_220210516T061932_20210516T065328_D001	(Retracker 3), Backscatter Error		
Error (Retracker 2) records  CS_OFFL_SR_LRM_2_20210516T074711_20210516T075232_D001  Surface Mode Unavailable  No DEM or Slope Model was used for the location of one or more records  Height Error (Retracker 2), Backscatter records  There is a height and backscatter error for Retracker 2 for one or more records  CS_OFFL_SR_LRM_2_20210516T064022_20210516T082230_D001  Height Error (Retracker 2), Backscatter records  CS_OFFL_SR_LRM_2_20210516T064022_20210516T082320_D001  Height Error (Retracker 2), Backscatter records  CS_OFFL_SR_LRM_2_20210516T064022_20210516T08483_D001  Height Error (Retracker 2), Backscatter records  CS_OFFL_SR_LRM_2_20210516T064022_20210516T08484_D001  Height Error (Retracker 2), Backscatter records  CS_OFFL_SR_LRM_2_20210516T064042_20210516T080444_D001  Height Error (Retracker 2), Backscatter records  CS_OFFL_SR_LRM_2_20210516T060442_20210516T080936_D001  Height Error (Retracker 2), Backscatter records  CS_OFFL_SR_LRM_2_20210516T060442_20210516T080936_D001  Height Error (Retracker 2), Backscatter records  CS_OFFL_SR_LRM_2_20210516T090442_20210516T080936_D001  Height Error (Retracker 2), Backscatter records  CS_OFFL_SR_LRM_2_20210516T090442_20210516T080936_D001  Height Error (Retracker 2), Backscatter records  CS_OFFL_SR_LRM_2_20210516T093827_20210516T094341_D001  Height Error (Retracker 2), Backscatter records  CS_OFFL_SR_LRM_2_20210516T093827_20210516T094341_D001  Height Error (Retracker 2), Backscatter records  There is a height and backscatter error for Retracker 2 and a height error for Retracker 2 and or DEM or Retracker 2), Backscatter records  CS_OFFL_SR_LRM_2_20210516T094382_20210516T094381_D001  Height Error (Retracker 2), Backscatter records  There is a height and backscatter error for Retracker 2 and a height error for Retracker 2, Backscatter records  There is a height and backscatter error for Retracker 2 and a height error (Retracker 2), Backscatter records  CS_OFFL_SR_LRM_2_20210516T094382_20210516T094922_D001  Height Error (Retracker 2), Backscatter Terror for Retracker 2 and a	CS_OFFL_SIR_LRM_220210516T070630_20210516T070808_D001	(Retracker 3), Backscatter Error		
CS_OFFL_SIR_LRM_2_20210516T075905_20210516T082043_D001  Height Error (Retracker 2)  He	CS_OFFL_SIR_LRM_220210516T073559_20210516T073603_D001	, , , , , , , , , , , , , , , , , , , ,		
Erroi (Retracker 2) records  CS_OFFL_SIR_LRM_2_20210516T082329_20210516T082320_D001	CS_OFFL_SIR_LRM_220210516T074711_20210516T075232_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records	
Error (Retracker 2)  Ferror (Retracker 2)  F	CS_OFFL_SIR_LRM_220210516T075905_20210516T082043_D001			
GS_OFFL_SIR_LRM_2_20210516T08453_20210516T084544_D001  Figetracker 2)  Height Error (Retracker 2), Backscatter Error (Retracker 2) for one or more records  There is a height and backscatter error for Retracker 2 for one or more records  CS_OFFL_SIR_LRM_2_20210516T080449_20210516T090336_D001  Height Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), Backscatter Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), Backscatter Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), Backscatt	CS_OFFL_SIR_LRM_220210516T082329_20210516T083230_D001			
Error (Retracker 2)  Error (Retracker 2)  Error (Retracker 2)  Height Error (Retracker 2), Backscatter Error (Retracker 3), Backscatter Error (Retracker 3), Backscatter Error (Retracker 3), Backscatter Error (Retracker 3), Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), Backscatter Error (Retracker 3), Backscatter Error (Retracker 3), Backscatter Error (Retracker 3), Backscat	CS_OFFL_SIR_LRM_220210516T084502_20210516T084853_D001	(Retracker 3), Backscatter Error		
Error (Retracker 2)  CS_OFFL_SIR_LRM_2_20210516T091124_20210516T092249_D001  CS_OFFL_SIR_LRM_2_20210516T093827_20210516T092249_D001  CS_OFFL_SIR_LRM_2_20210516T093827_20210516T094341_D001  Error (Retracker 2), Height Error (Retracker 2), Backscatter Error (Retracker 3), 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  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  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 and a height error (Retracker 2), Backscatter Error (Retracker 3), Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), Backscatter Error (Retracker 3), Backscatter Error (Retracker 3), Backscatter Error (Retracker	CS_OFFL_SIR_LRM_220210516T085432_20210516T085444_D001			
CS_OFFL_SIR_LRM_2_20210516T091124_20210516T092249_D001  (Retracker 3), Backscatter Error (Retracker 2), Backscatter Error (Retracker 2) and a height error (Retracker 3) and and a height error (Retracker 3) and a height error (Retracker 3) and a height error (Retracker 3) and and a height error (Retracker 3) and a height error (Retracker 3) and an and a height e	CS_OFFL_SIR_LRM_220210516T090449_20210516T090936_D001			
CS_OFFL_SIR_LRM_2_20210516T093827_20210516T094341_D001  Error (Retracker 2), Surface model unavailable  CS_OFFL_SIR_LRM_2_20210516T094350_20210516T094922_D001  Height Error (Retracker 2), Backscatter Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), Backscatter Error (Retracker 2), Backscatter Err	CS_OFFL_SIR_LRM_220210516T091124_20210516T092249_D001	(Retracker 3), Backscatter Error		
Error (Retracker 2)  Error (Retracker 2)  Froor (Retracker 3), Backscatter Error (Retracker 3) for one or more records  Froor (Retracker 2)  Froor (Retracker 3) for one or more records  Froor (Retracker 2)  Froor (Retra	CS_OFFL_SIR_LRM_220210516T093827_20210516T094341_D001	Error (Retracker 2), Surface model		
CS_OFFL_SIR_LRM_2_20210516T102903_20210516T101024_D001  (Retracker 3), Backscatter Error (Retracker 2)  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_20210516T103619_20210516T103448_D001  Height Error (Retracker 2), Backscatter Error (Retracker 2)  Height Error (Retracker 2), Backscatter Error (Retracker 2)  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 and a height error (Retracker 2), Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error for Retracker 2 and a height error for Retracker 3 for one or more records	CS_OFFL_SIR_LRM_220210516T094350_20210516T094922_D001	· · · · · · · · · · · · · · · · · · ·		
CS_OFFL_SIR_LRM_2_20210516T102903_20210516T103448_D001  Error (Retracker 2)  Height Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter records  CS_OFFL_SIR_LRM_2_20210516T113619_20210516T105912_D001  Height Error (Retracker 2), Backscatter records  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records  CS_OFFL_SIR_LRM_2_20210516T111744_20210516T112417_D001  Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error for Retracker 2 and a height error for Retracker 3 for one or more records	CS_OFFL_SIR_LRM_220210516T095147_20210516T101024_D001	(Retracker 3), Backscatter Error		
CS_OFFL_SIR_LRM_2_20210516T103619_20210516T103912_D001  Error (Retracker 2)  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_20210516T112430_20210516T113326_D001  Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retrac	CS_OFFL_SIR_LRM_220210516T102903_20210516T103448_D001	· · · · · · · · · · · · · · · · · · ·		
CS_OFFL_SIR_LRM_2_20210516T11744_20210516T1124T7_D001  Error (Retracker 2)  Height Error (Retracker 2), Height Error (Retracker 2), Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 3), Backscatte	CS_OFFL_SIR_LRM_220210516T103619_20210516T105912_D001	, , , , , , , , , , , , , , , , , , , ,		
CS_OFFL_SIR_LRM_220210516T112430_20210516T113326_D001 (Retracker 3), Backscatter Error for Retracker 2 and a neight error for Retracker 2 and a neight error for Retracker 3 for one or more records	CS_OFFL_SIR_LRM_220210516T111744_20210516T112417_D001	,		
	CS_OFFL_SIR_LRM_220210516T112430_20210516T113326_D001	(Retracker 3), Backscatter Error		

COUNTLINE DAY APPROXISED SOFT AND CONTROL OF THE CO	CS_OFFL_SIR_LRM_220210516T113329_20210516T113503_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	ere is a height and backscatter error for Retracker 2 for one or more cords	
### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00   ### 1.00	CS_OFFL_SIR_LRM_220210516T113944_20210516T114649_D001	,		
Land provides to process  CLUP - Land LANGE_2020013112002_202 (19911241 CLUP)  Beach From Clumber 7, Process and Three countries are for the school of the s	CS_OFFL_SIR_LRM_220210516T120825_20210516T121405_D001	,		
Local Figure 1 and 2 2000 Annual Control 10 and 10	CS_OFFL_SIR_LRM_220210516T121532_20210516T122346_D001	, , , , , , , , , , , , , , , , , , , ,		
COLUMN LINE LANGE AND CONTROLLED LANGE C	CS_OFFL_SIR_LRM_220210516T123005_20210516T124107_D001	, , ,		
ES OPPL S.R. LEM 2. 2010/03/ET 104/ES 2010/03/ET 104/ES 0031  Subministration of State Month 2. 2010/03/ET 104/ES 2010/03/ET 104/ES 0031  Subministration of State Month 2. 2010/03/ET 104/ES 2010/03/ET 104/ES 0031  Subministration of State Month 2. 2010/03/ET 104/ES 2010/03/ET 104/ES 0031  Subministration of State Month 2. 2010/ET 104/ES 0031  Subministration	CS_OFFL_SIR_LRM_220210516T124110_20210516T124139_D001	(Retracker 3), Backscatter Error		
CS_OFFL_SR_LBV_2_20010519T19400_200125 6T19456_0001  Sufface Model Uniconsiste  Sufface Model Uniconsi	CS_OFFL_SIR_LRM_220210516T130452_20210516T131132_D001	, , , , , , , , , , , , , , , , , , , ,		
Fig. 1 ard (Personer 7, Borsenate)  CS_OFFL_SIR_LEAL_2_00** ON FITTISESS_20161617* 4203_DOOL  Fig. 1 ard (Personer 7, Borsenate)  Fig. 2 ard (Personer 7, Borsenate)  Fig. 3 might and backcastler error for Recoder 2 for one or more excess  Fig. 2 ard (Personer 2, Borsenate)  Fig. 3 might and backcastler error for Recoder 2 for one or more excess  Fig. 3 might and backcastler error for Recoder 2 for one or more excess  Fig. 4 might and backcastler error for Recoder 2 for one or more excess  Fig. 4 might and backcastler error for Recoder 2 for one or more excess  Fig. 4 might and backcastler error for Recoder 2 for one or more excess  Fig. 5 might and backcastler error for Recoder 2 for one or more excess  Fig. 5 might and backcastler error for Recoder 2 for one or more excess  Fig. 5 might and backcastler error for Recoder 2 for one or more excess  Fig. 6 might and backcastler error for Recoder 2 for one or more excess  Fig. 6 might and backcastler error for Recoder 2 for one or more excess  Fig. 6 might and backcastler error for Recoder 2 for one or more excess  Fig. 6 might and backcastler error for Recoder 2 for one or more excess  Fig. 6 might and backcastler error for Recoder 2 or or of Fersoner 2 are a few pitter error (Fersoner 2) are a few pitter error (Fersoner 2	CS_OFFL_SIR_LRM_220210516T131443_20210516T132850_D001	, , , , , , , , , , , , , , , , , , ,		
Servi (Retrocer 2)  Servi	CS_OFFL_SIR_LRM_220210516T134800_20210516T134845_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records	
Error (Retrocker 2) recours  CS_OPPL_SRL_MAL2_202*05161*40917_202*105161*140255_0001  Surface Mode Unavailable  No DEM or Stope Model was used for the location of one or more records  No DEM or Stope Model was used for the location of one or more records  No DEM or Stope Model was used for the location of one or more records  No DEM or Stope Model was used for the location of one or more records  No DEM or Stope Model was used for the location of one or more records  No DEM or Stope Model was used for the location of one or more records  No DEM or Stope Model was used for the location of one or more records  No DEM or Stope Model was used for the location of one or more records  No DEM or Stope Model was used for the location of one or more records  No DEM or Stope Model was used for the location of one or more records  No DEM or Stope Model was used for the location of one or more records  No DEM or Stope Model was used for the location of one or more records  No DEM or Stope Model was used for the location of one or more records  No DEM or Stope Model was used for the location of one or more records  No DEM or Stope Model was used for the location of one or more records  No DEM or Stope Model was used for the location of one or more records  No DEM or Stope Model was used for the location of the normal was recorded.  No DEM or Stope Model was used for the location of the normal was recorded.  No DEM or Stope Model was used for the location of the normal was recorded.  No DEM or Stope Model was used for the location of the normal was recorded.  No DEM or Stope Model was used for the location of the normal was recorded.  No DEM or Stope Model was used for the location of the normal was recorded.  No DEM or Stope Model was used for the location of the normal was recorded.  No DEM or Stope Model was used for the location of the normal was recorded.  No DEM or Stope Model was used for the location of the Recorded 2 or more or more recorded.  No DEM or Stope Model was used for the normal was recorded.  No DEM or St	CS_OFFL_SIR_LRM_220210516T135110_20210516T135318_D001	,		
Erro (Restacker 2) secoles  CS OFFL SIR LRM 2 20210516T140043 20210516T140221 D001  Height Error (Restacker 2) Beabsociate From (Restacker 2) and a height and backscatter error for Restacker 2 for one or more records  CS OFFL SIR LRM 2 20210516T140443 20210516T140244 D001  Height Error (Restacker 2) Height Error (Restacker 2) Beabsociater From (Restacker 2) and a height error (Restacker 2) Beabsociater From (Restacker 2) A beabsociater From (Re	CS_OFFL_SIR_LRM_220210516T135448_20210516T135715_D001	,		
Height Error (Retracker 2), Bedscatter Fror (Retracker 2), Bed	CS_OFFL_SIR_LRM_220210516T135838_20210516T140235_D001			
Error (Rotracker 2) records  CS OFFL SIR LRM 2 20210516T1436S1 20210516T145903 D001 From (Rotracker 2), Backscatter From (Rotracker 2) and backscatter error for Retracker 2 and a height error (Rotracker 2) height Error (Rotracker 3) height error (Rotracker 2) heig	CS_OFFL_SIR_LRM_220210516T140317_20210516T140325_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records	
CS_OFFL_SIR_LRM_2_20210516T152464_20210516T160111_D001  Retracker 2)  Height Error (Retracker 2), Height Error for Retracker 3), Backscanter Error for Retracker 3 for one or more necessits  Retracker 3), Backscanter Error for Retracker 3 for one or more necessits  Retracker 3), Backscanter Error for Retracker 3 for one or more necessits  Retracker 3), Backscanter Error for Retracker 3 for one or more necessits  Retracker 3), Backscanter Error for Retracker 3 for one or more necessits  Retracker 3), Backscanter Error for Retracker 3 for one or more necessits  Retracker 3), Backscanter Error for Retracker 2 and a height error for Retracker 3 for one or more necessits  Retracker 2)  Retracker 2)  Retracker 2, Backscanter Error for Retracker 2 for one or more necessits  Retracker 2, Backscanter Error for Retracker 3 for one or more necessits  Retracker 2, Backscanter Error for Retracker 2 for one or more necessits  Retracker 2, Backscanter Error for Retracker 2 for one or more necessits  Retracker 2, Backscanter Error for Retracker 2 for one or more necessits  Retracker 2, Backscanter Error for Retracker 2 for one or more necessits  Retracker 2, Backscanter Error for Retracker 2 for one or more necessits  Retracker 2, Backscanter Error for Retracker 2 for one or more necessits  Retracker 2, Backscanter Error for Retracker 2 for one or more necessits  Retracker 2, Backscanter Error for Retracker 2 for one or more necessits  Retracker 2, Backscanter Error for Retracker 2 for one or more necessits  Retracker 2, Backscanter Error for Retracker 2 for one or more necessits  Retracker 2, Backscanter Error for Retracker 2 and a height error for Retracker 2 for one or more necessits  Retracker 3, Backscanter Error for Retracker 2 and a height error	CS_OFFL_SIR_LRM_220210516T140643_20210516T142211_D001	,		
GS_OFFL_SIR_LRM_2_20210516T152454_20210516T160T11 D001  Reference 3), Bankscatter Error (Retracker 2), Height Error (Retracker 3), Bankscatter Error (Retracker 2), B	CS_OFFL_SIR_LRM_220210516T143631_20210516T145903_D001	, , , , , , , , , , , , , , , , , , , ,	1	
CS_OFFL_SIR_LRM_2_20210516T162025_20210516T164437_D001  CS_OFFL_SIR_LRM_2_20210516T162026_20210516T164437_D001  CS_OFFL_SIR_LRM_2_20210516T162026_20210516T171155_D001  CS_OFFL_SIR_LRM_2_20210516T171132_20210516T171155_D001  CS_OFFL_SIR_LRM_2_20210516T171132_20210516T171155_D001  CS_OFFL_SIR_LRM_2_20210516T171351_20210516T171155_D001  CS_OFFL_SIR_LRM_2_20210516T171351_20210516T174001_D001  CS_OFFL_SIR_LRM_2_20210516T17351_20210516T174001_D001  CS_OFFL_SIR_LRM_2_20210516T181607_20210516T18103_D001  CS_OFFL_SIR_LRM_2_20210516T181607_20210516T182156_D001  CS_OFFL_SIR_LRM_2_20210516T183049_20210516T183119_D001  CS_OFFL_SIR_LRM_2_20210516T183135_20210516T183133_D001  CS_OFFL_SIR_LRM_2_20210516T183135_20210516T183133_D001  CS_OFFL_SIR_LRM_2_20210516T183135_20210516T183133_D001  CS_OFFL_SIR_LRM_2_20210516T183135_20210516T183133_D001  CS_OFFL_SIR_LRM_2_20210516T183135_20210516T19104_D001  CS_OFFL_SIR_LRM_2_20210516T183135_20210516T19104_D001  CS_OFFL_SIR_LRM_2_20210516T184514_20210516T19104_D001  CS_OFFL_SIR_LRM_2_20210516T184514_20210516T19104_D001  CS_OFFL_SIR_LRM_2_20210516T184514_20210516T19104_D001  CS_OFFL_SIR_LRM_2_20210516T184514_20210516T20015_D001  CS_OFFL_SIR_LRM_2_20210516T185422_20210516T200445_D0015_D001  CS_OFFL_SIR_LRM_2_20210516T185422_20210516T200445_D0015_D001  CS_OFFL_SIR_LRM_2_20210516T180542_20210516T200445_D0015_D001  CS_OFFL_SIR_LRM_2_20210516T200445_20210516T20015_D001  CS_OFFL_SIR_LRM_2_20210516T20044	CS_OFFL_SIR_LRM_220210516T152454_20210516T152548_D001	(Retracker 3), Backscatter Error		
Error (Retracker 2) records  CS OFFL SIR LRM 2 20210516T171132 20210516T171155 D001 (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 3 for one or more records  CS OFFL SIR LRM 2 20210516T171351 20210516T174001 D001 Height Error (Retracker 2), Backscatter Error (Retracker 3 for one or more records  CS_OFFL_SIR_LRM_2 20210516T175423_20210516T181603_D001 Height Error (Retracker 2), Backscatter Error (Retracker 3 for one or more records  CS_OFFL_SIR_LRM_2 20210516T183149_0001 (Retracker 2), Backscatter Error (Retracker 3 for one or more records  CS_OFFL_SIR_LRM_2 20210516T183135_20210516T183139_0001 Height Error (Retracker 2), Backscatter Error (Retracker 3 for one or more records  CS_OFFL_SIR_LRM_2 20210516T183135_20210516T183233_0001 Height Error (Retracker 2), Backscatter Error (Retracker 3 for one or more records  CS_OFFL_SIR_LRM_2 20210516T184514_20210516T191904_0001 Height Error (Retracker 2), Backscatter Error (Retracker 2) Error (Retracker 2)  CS_OFFL_SIR_LRM_2 20210516T195842_20210516T200015_0001 Height Error (Retracker 2), Backscatter Error (Retracker 2) Error (Retracker 2)  CS_OFFL_SIR_LRM_2 20210516T200845_20210516T201244_0001 Height Error (Retracker 2), Backscatter Error (Retracker 2)  Height Error (Retracker 2) Error (Retracker 2) Error (Retracker 2)  Height Error (Retracker 2) Error (Retracker 2)  Height Error (Retracker 2) Error (Retracker 2) Error (Retracker 2)  Error (Retracker 2) Error (Retracker 2) Error (Retracker 2)  Height Error (Retracker 2) Error (Retracker 2) Error (Retracker 2)  Error (Retracker 2) Error (Retracker 2) Error (Retracker 2) Error (	CS_OFFL_SIR_LRM_220210516T153625_20210516T160111_D001	(Retracker 3), Backscatter Error		
CS_OFFL_SIR_LRM_2_20210516T171132_20210516T1714001_D001  Retracker 3), Backscatter Error (Retracker 2), Backscatter Error (Retracker 2) and a height error (Retracker	CS_OFFL_SIR_LRM_220210516T162026_20210516T164437_D001	· · · · · · · · · · · · · · · · · · ·		
Error (Retracker 2) records  CS_OFFL_SIR_LRM_2_20210516T175423_20210516T181603_D001 Height Error (Retracker 2), Backscatter Error (Retracker 2) and a height and backscatter error for Retracker 2 for one or more records  CS_OFFL_SIR_LRM_2_20210516T181607_20210516T182156_D001 Height Error (Retracker 2), Backscatter Error (Retracker 2) and a height error (Retracker 2) records  CS_OFFL_SIR_LRM_2_20210516T183049_20210516T183119_D001 (Retracker 3), Backscatter Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 3) for one or more records  CS_OFFL_SIR_LRM_2_20210516T183135_20210516T183233_D001 Height Error (Retracker 2), Backscatter Error (Retracker 2) records  CS_OFFL_SIR_LRM_2_20210516T184514_20210516T191904_D001 Height Error (Retracker 2), Backscatter Error (Retracker 2) records  CS_OFFL_SIR_LRM_2_20210516T195842_20210516T200015_D001 Height Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter Error (Retracker 2) records  CS_OFFL_SIR_LRM_2_20210516T195842_20210516T200015_D001 Height Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter Error (Retracker 2) records  CS_OFFL_SIR_LRM_2_20210516T200845_20210516T201244_D001 Height Error (Retracker 2), Backscatter Error (Retracker 2) records  CS_OFFL_SIR_LRM_2_20210516T200845_20210516T201244_D001 Height Error (Retracker 2), Backscatter Error (Retracker 2) records  CS_OFFL_SIR_LRM_2_20210516T200845_20210516T201244_D001 Height Error (Retracker 2), Backscatter Error (Retracker 2) records  CS_OFFL_SIR_LRM_2_20210516T200845_20210516T201244_D001 Height Error (Retracker 2), Backscatter Error for Retracker 2 for one or more records  CS_OFFL_SIR_LRM_2_20210516T200845_20210516T201244_D001 Height Error (Retracker 2), Backscatter Error for Retracker 2 for one or more records  CS_OFFL_SIR_LRM_2_20210516T200845_20210516T201244_D001 Height Error (Retracker 2), Backscatter Error for Retracker 2 for one or more records	CS_OFFL_SIR_LRM_220210516T171132_20210516T171155_D001	(Retracker 3), Backscatter Error		
Error (Retracker 2)  Error (Re				
Error (Retracker 2)  Error (Retracker 2)  Error (Retracker 2)  Height Error (Retracker 2), Height Error (Retracker 3, 19 Backscatter Error (Retracker 3 for one or more records  CS_OFFL_SIR_LRM_2_20210516T183135_20210516T183233_D001  Height Error (Retracker 2), Backscatter Error (Retracker 3 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records	CS_OFFL_SIR_LRM_220210516T171351_20210516T174001_D001	,	There is a height and backscatter error for Retracker 2 for one or more	
CS_OFFL_SIR_LRM_2_20210516T183049_20210516T183119_D001  (Retracker 3), Backscatter Error (Retracker 2) For one or more records  CS_OFFL_SIR_LRM_2_20210516T183135_20210516T183233_D001  Height Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter Error (Retracker 2) For one or more records  CS_OFFL_SIR_LRM_2_20210516T184514_20210516T191904_D001  Height Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter Error (Retracker 2) For one or more records  CS_OFFL_SIR_LRM_2_20210516T195842_20210516T200015_D001  Height Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter Error (Retracker 2) For one or more records  CS_OFFL_SIR_LRM_2_20210516T195842_20210516T200015_D001  Height Error (Retracker 2), Backscatter Error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records		Error (Retracker 2) Height Error (Retracker 2), Backscatter	There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 for one or more	
CS_OFFL_SIR_LRM_2_20210516T183135_20210516T191904_D001  Error (Retracker 2)  Height Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter records  CS_OFFL_SIR_LRM_2_20210516T195842_20210516T200015_D001  Height Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter records  There is a height and backscatter error for Retracker 2 for one or more records  CS_OFFL_SIR_LRM_2_20210516T200845_20210516T200015_D001  Height Error (Retracker 2), Backscatter records  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records	CS_OFFL_SIR_LRM_220210516T175423_20210516T181603_D001	Error (Retracker 2)  Height Error (Retracker 2), Backscatter Error (Retracker 2)  Height Error (Retracker 2), Backscatter	There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 for one or more	
CS_OFFL_SIR_LRM_2_20210516T195842_20210516T200015_D001  Error (Retracker 2)  Height Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter records  CS_OFFL_SIR_LRM_2_20210516T200845_20210516T201244_D001  Height Error (Retracker 2), Backscatter records  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records	CS_OFFL_SIR_LRM_220210516T175423_20210516T181603_D001  CS_OFFL_SIR_LRM_220210516T181607_20210516T182156_D001	Error (Retracker 2)  Height Error (Retracker 2), Backscatter Error (Retracker 2)  Height Error (Retracker 2), Backscatter Error (Retracker 2)  Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error	There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records	
CS_OFFL_SIR_LRM_2_20210516T200845_20210516T201244_D001  Error (Retracker 2)  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_20210516T200845_20210516T201244_D001  Height Error (Retracker 2), Backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 for one or more	CS_OFFL_SIR_LRM_220210516T175423_20210516T181603_D001  CS_OFFL_SIR_LRM_220210516T181607_20210516T182156_D001  CS_OFFL_SIR_LRM_220210516T183049_20210516T183119_D001	Error (Retracker 2)  Height Error (Retracker 2), Backscatter Error (Retracker 2)  Height Error (Retracker 2), Backscatter Error (Retracker 2)  Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)  Height Error (Retracker 2), Backscatter	There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records  There is a height and backscatter error for Retracker 2 for one or more	
CS_OFFL_SIR_LRM_2202105161200845_202105161201244_D001  Error (Retracker 2)  From (Retracker 2)  Height Error (Retracker 2), Backscatter  There is a height and backscatter error for Retracker 2 for one or more	CS_OFFL_SIR_LRM_220210516T175423_20210516T181603_D001  CS_OFFL_SIR_LRM_2_20210516T181607_20210516T182156_D001  CS_OFFL_SIR_LRM_2_20210516T183049_20210516T183119_D001  CS_OFFL_SIR_LRM_2_20210516T183135_20210516T183233_D001	Error (Retracker 2)  Height Error (Retracker 2), Backscatter Error (Retracker 2)  Height Error (Retracker 2), Backscatter Error (Retracker 2)  Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)  Height Error (Retracker 2), Backscatter Error (Retracker 2)  Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 for one or more	
US OFFI SIR IRM 2 202105161202501 202105161203356 D001	CS_OFFL_SIR_LRM_2_20210516T175423_20210516T181603_D001  CS_OFFL_SIR_LRM_2_20210516T181607_20210516T182156_D001  CS_OFFL_SIR_LRM_2_20210516T183049_20210516T183119_D001  CS_OFFL_SIR_LRM_2_20210516T183135_20210516T183233_D001  CS_OFFL_SIR_LRM_2_20210516T184514_20210516T191904_D001	Error (Retracker 2)  Height Error (Retracker 2), Backscatter Error (Retracker 2)  Height Error (Retracker 2), Backscatter Error (Retracker 2)  Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)  Height Error (Retracker 2), Backscatter Error (Retracker 2)  Height Error (Retracker 2), Backscatter Error (Retracker 2)  Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records	
	CS_OFFL_SIR_LRM_2_20210516T175423_20210516T181603_D001  CS_OFFL_SIR_LRM_2_20210516T181607_20210516T182156_D001  CS_OFFL_SIR_LRM_2_20210516T183049_20210516T183119_D001  CS_OFFL_SIR_LRM_2_20210516T183135_20210516T183233_D001  CS_OFFL_SIR_LRM_2_20210516T184514_20210516T191904_D001  CS_OFFL_SIR_LRM_2_20210516T195842_20210516T200015_D001	Error (Retracker 2)  Height Error (Retracker 2), Backscatter Error (Retracker 2)  Height Error (Retracker 2), Backscatter Error (Retracker 2)  Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)  Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records	

CS_OFFL_SIR_LRM_220210516T203641_20210516T205821_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_220210516T211318_20210516T212514_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_220210516T212702_20210516T213317_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_220210516T213454_20210516T213937_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_220210516T220436_20210516T223718_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_220210516T225553_20210516T232618_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_220210516T234058_20210516T234214_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records	
CS_OFFL_SIR_LRM_220210516T234500_20210516T235942_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	

# 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	179	179	179	0	0
SIR_SAR_1B	135	135	135	0	0
SIR_SIN_1B	110	110	110	0	0
SIR_LRM_2	179	179	175	4	0
SIR_SAR_2	110	135	135	0	0
SIR_SIN_2	135	110	108	2	0
SIR_GDR_2	15	15	0	0	15

### **6.1 QCC Errors**

**Number of products with QCC errors:** 

15

Product Type	NCDF MPHXPFN(	DF MPHXVFNCDF	MPHYPFNCDF	MPHYVFNCDF	MPHZPFNCDF	MPHZVFNCDF			
SIR_GDR_2_	15	15	15	15	15	15	-		

Test 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)		

## **6.2 QCC Warnings**

Number of QCC reports with warnings

6

Total number of occurrences of each warning

	Total number of occurrences of each warning						
Product Type	AXDME	AXSMMEOCI	-	-	-	-	-
SIR_LRM_2_	0	4					
SIR_SIN_2_	2	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			

## **6.2 Missing QCC Reports**

Number of products with missing QCC reports:

0