

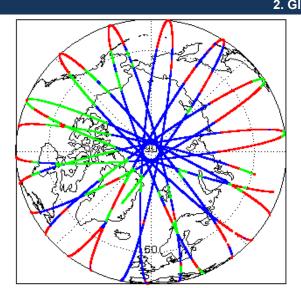
# **QA4EO Daily Report for OFFLINE data:**

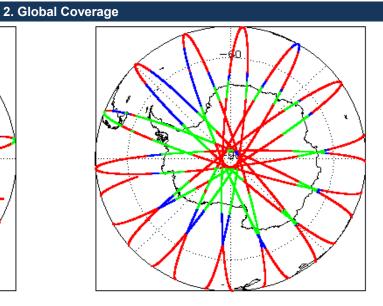
07/04/2020

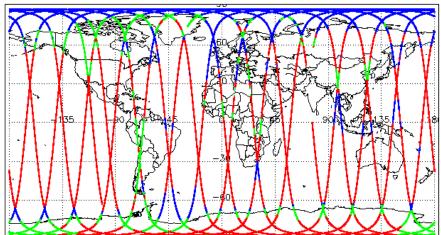
# 1. Overview

Bapart Braduation Data	07-May-2020	Check	Status
Report Production Date:		Server check: science-pds.cryosat.esa.int	Nominal
Processor Used: CrvoSat Ice Processor		Server check: calval-pds.cryosat.esa.int	Nominal
Processor Used.	CryoSat Ice Processor	Product Software Check	Nominal
Data Used:	L1B and L2 OFFLINE Data	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

Mission / Instrument News		
06-Apr-2020	None	
07-Apr-2020	None	
08-Apr-2020	Nothing planned	





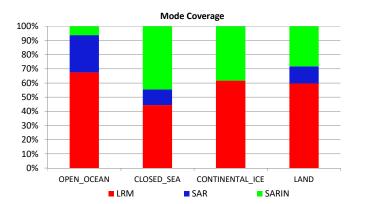


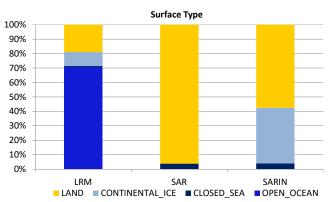
LRM 65.2 SAR 20.6

SARIn

14.2

Mode Coverage (%)





## 3. Instrument Configuration

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

SIRAL - A

SIRAL instrument(s) in use:

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. 0

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.

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#### Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_LRM_1B_20200406T235747_20200407T002632_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200407T002635_20200407T002649_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200407T002653_20200407T002656_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200407T002659_20200407T002707_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200407T004921_20200407T005812_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200407T005814_20200407T005828_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200407T005832_20200407T012412_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200407T013101_20200407T013429_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200407T022827_20200407T023111_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200407T023144_20200407T023229_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200407T023427_20200407T024257_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200407T024259_20200407T024445_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200407T024819_20200407T025359_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200407T040638_20200407T040643_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200407T041013_20200407T041050_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200407T041114_20200407T041122_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200407T041134_20200407T041137_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200407T041548_20200407T041728_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200407T041911_20200407T042247_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200407T045618_20200407T053029_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200407T053144_20200407T053253_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200407T060013_20200407T061750_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200407T063628_20200407T065301_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200407T071027_20200407T071045_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200407T071047_20200407T071048_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200407T071051_20200407T071103_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200407T071107_20200407T071107_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200407T071109_20200407T071115_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200407T071123_20200407T071126_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200407T071133_20200407T071137_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200407T071139_20200407T071143_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200407T071145_20200407T071156_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200407T071159_20200407T071215_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200407T071221_20200407T071233_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200407T071237_20200407T071253_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200407T074438_20200407T074620_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200407T074623_20200407T075825_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200407T080634_20200407T080834_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200407T081528_20200407T083055_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200407T083257_20200407T083436_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200407T083439_20200407T084220_D001	Loss of echo	The tracking echo is missing for one or more records

CS OFFL SIR LRM 1B 20200407T084518 20200407T085242 D001 CS OFFL SIR LRM 1B 20200407T090747 20200407T090818 D001 CS OFFL SIR LRM 1B 20200407T090953 20200407T092138 D001 CS\_OFFL\_SIR\_LRM\_1B\_20200407T092741\_20200407T092812\_D001 CS OFFL SIR LRM 1B 20200407T101816 20200407T101929 D001 CS\_OFFL\_SIR\_LRM\_1B\_20200407T102326\_20200407T102453\_D001 CS OFFL SIR LRM 1B 20200407T102456 20200407T102456 D001 CS OFFL SIR LRM 1B 20200407T102500 20200407T102500 D001 CS\_OFFL\_SIR\_LRM\_1B\_20200407T102502 20200407T102602 D001 CS OFFL SIR LRM 1B 20200407T102604 20200407T102624 D001 CS OFFL SIR LRM 1B 20200407T102627 20200407T102634 D001 CS\_OFFL\_SIR\_LRM\_1B\_20200407T102636\_20200407T102640\_D001 CS OFFL SIR LRM 1B 20200407T102642 20200407T103215 D001 CS\_OFFL\_SIR\_LRM\_1B\_20200407T104730\_20200407T105635\_D001 CS OFFL SIR LRM 1B 20200407T105637 20200407T105649 D001 CS\_OFFL\_SIR\_LRM\_1B\_20200407T105652\_20200407T110154\_D001 CS\_OFFL\_SIR\_LRM\_1B\_20200407T112543\_20200407T113126\_D001 CS\_OFFL\_SIR\_LRM\_1B\_20200407T120332\_20200407T120806\_D001 CS\_OFFL\_SIR\_LRM\_1B\_20200407T120820\_20200407T120938\_D001 CS\_OFFL\_SIR\_LRM\_1B\_20200407T122258\_20200407T122340\_D001 CS\_OFFL\_SIR\_LRM\_1B\_20200407T122502\_20200407T122759\_D001 CS\_OFFL\_SIR\_LRM\_1B\_20200407T123052\_20200407T123056\_D001 CS OFFL SIR LRM 1B 20200407T123058 20200407T123318 D001 CS\_OFFL\_SIR\_LRM\_1B\_20200407T123321\_20200407T125907\_D001 CS OFFL SIR LRM 1B 20200407T131259 20200407T133447 D001 CS\_OFFL\_SIR\_LRM\_1B\_20200407T133450\_20200407T134202\_D001 CS OFFL SIR LRM 1B 20200407T134206 20200407T134208 D001 CS OFFL SIR LRM 1B 20200407T134211 20200407T134249 D001 CS OFFL SIR LRM 1B 20200407T134254 20200407T134502 D001 CS OFFL SIR LRM 1B 20200407T134535 20200407T134757 D001 CS OFFL SIR LRM 1B 20200407T150130 20200407T150722 D001 CS\_OFFL\_SIR\_LRM\_1B\_20200407T150836\_20200407T151533\_D001 CS OFFL SIR LRM 1B 20200407T152108 20200407T152109 D001 CS\_OFFL\_SIR\_LRM\_1B\_20200407T152112\_20200407T152201\_D001 CS OFFL SIR LRM 1B 20200407T152214 20200407T152434 D001 CS\_OFFL\_SIR\_LRM\_1B\_20200407T154350\_20200407T161736\_D001 CS OFFL SIR LRM 1B 20200407T165348 20200407T165843 D001 CS\_OFFL\_SIR\_LRM\_1B\_20200407T165917\_20200407T170055\_D001 CS\_OFEL\_SIR\_LRM\_1B\_20200407T180350\_20200407T180749\_D001 CS OFFL SIR LRM 1B 20200407T185842 20200407T185933 D001 CS OFFL SIR LRM 1B 20200407T185935 20200407T185959 D001 CS OFFL SIR LRM 1B 20200407T190002 20200407T190040 D001 CS OFFL SIR LRM 1B 20200407T190042 20200407T190044 D001 CS\_OFFL\_SIR\_LRM\_1B\_20200407T191750\_20200407T193521\_D001 CS OFFL SIR LRM 1B 20200407T195327 20200407T200610 D001 CS\_OFFL\_SIR\_LRM\_1B\_20200407T203755\_20200407T203858\_D001 CS\_OFFL\_SIR\_LRM\_1B\_20200407T203906\_20200407T203909\_D001 CS\_OFFL\_SIR\_LRM\_1B\_20200407T203911\_20200407T204115\_D001 CS OFFL SIR LRM 1B 20200407T204119 20200407T204402 D001 CS\_OFFL\_SIR\_LRM\_1B\_20200407T204742\_20200407T205713\_D001 CS\_OFFL\_SIR\_LRM\_1B\_20200407T205948\_20200407T211429\_D001 CS\_OFFL\_SIR\_LRM\_1B\_20200407T213419\_20200407T213509\_D001 CS OFFL SIR LRM 1B 20200407T213512 20200407T213659 D001 CS\_OFFL\_SIR\_LRM\_1B\_20200407T214029\_20200407T214154\_D001 CS OFFL SIR LRM 1B 20200407T214737 20200407T214948 D001 CS\_OFFL\_SIR\_LRM\_1B\_20200407T214950\_20200407T215201\_D001 CS OFFL SIR LRM 1B 20200407T215324 20200407T220031 D001 CS OFFL SIR LRM 1B 20200407T221639 20200407T222149 D001 CS\_OFFL\_SIR\_LRM\_1B\_20200407T222151\_20200407T222206\_D001 CS OFFL SIR LRM 1B 20200407T222222 20200407T222231 D001 CS OFFL SIR LRM 1B 20200407T222233 20200407T222533 D001 CS\_OFFL\_SIR\_LRM\_1B\_20200407T222538\_20200407T222550\_D001 CS OFFL SIR LRM 1B 20200407T222852 20200407T223014 D001 CS\_OFFL\_SIR\_LRM\_1B\_20200407T225638\_20200407T230059\_D001

Loss of echo l oss of echo Loss of echo l oss of echo Loss of echo l oss of echo Loss of echo l oss of echo 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_20200407T230120_20200407T230302_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200407T230720_20200407T233151_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200407T233153_20200407T234155_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.			
Number of products with errors:	0		
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:	0		
4.7 L1B Auxiliary Correction Error Check			
ChieSat   1B data includes a correction error fla	a (field 54) for each measurement record. The hit value of this flag indicates any problems when set		

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

0

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: 0

# 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: 0

#### 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
	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for 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
	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_220200407T023427_20200407T024257_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_220200407T031710_20200407T035050_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_220200407T042356_20200407T044311_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_220200407T045618_20200407T053029_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_220200407T055457_20200407T055917_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_220200407T060013_20200407T061750_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_220200407T063628_20200407T065301_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_220200407T065340_20200407T065625_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_220200407T065825_20200407T070536_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_220200407T072528_20200407T074326_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_220200407T074623_20200407T075825_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_220200407T081528_20200407T083055_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_220200407T083257_20200407T083436_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_220200407T083439_20200407T084220_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_220200407T090747_20200407T090818_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_220200407T090953_20200407T092138_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_220200407T092741_20200407T092812_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220200407T095449_20200407T101001_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_220200407T104730_20200407T105635_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_220200407T105652_20200407T110154_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_220200407T110157_20200407T112041_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_220200407T113416_20200407T115125_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_220200407T123058_20200407T123318_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_220200407T123321_20200407T125907_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_220200407T131259_20200407T133447_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_220200407T133450_20200407T134202_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_220200407T140511_20200407T143818_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_220200407T154350_20200407T161736_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_220200407T163058_20200407T165031_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_220200407T170827_20200407T170845_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_220200407T172216_20200407T174353_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_220200407T174502_20200407T175556_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_220200407T181024_20200407T183850_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_220200407T190525_20200407T191309_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_220200407T191750_20200407T193521_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_220200407T195327_20200407T200610_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_220200407T200823_20200407T202029_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_220200407T204742_20200407T205713_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_220200407T205948_20200407T211429_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_220200407T213335_20200407T213342_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220200407T214029_20200407T214154_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_220200407T214950_20200407T215201_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_220200407T215324_20200407T220031_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_220200407T222151_20200407T222206_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220200407T222233_20200407T222533_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220200407T223326_20200407T223421_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_220200407T223634_20200407T225326_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_220200407T230720_20200407T233151_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records