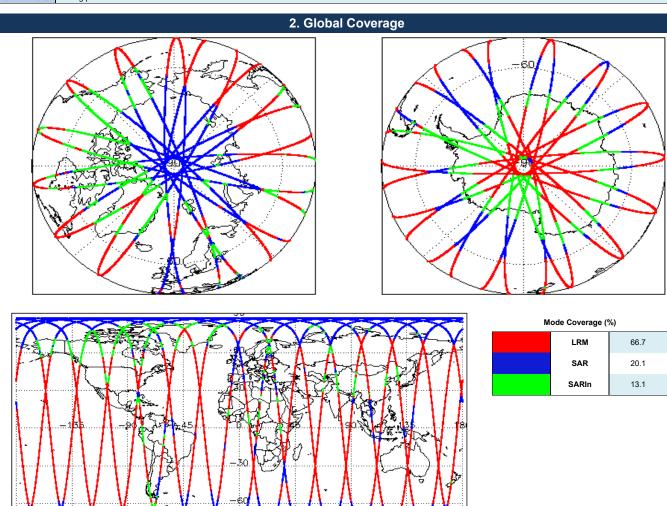


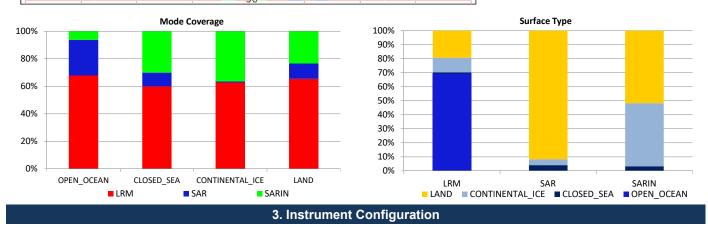
# **QA4EO Daily Report for OFFLINE data:**

<u>01/12/2019</u>

1. Overview			
Report Production Date:	03-Jan-2020	Check	Status
Report Production Date.		Server check: science-pds.cryosat.esa.int	Nominal
Processor Used:	CryoSat Ice Processor	Server check: calval-pds.cryosat.esa.int	Nominal
Processor used.		Product Software Check	Nominal
Data Used:	L1B and L2 OFFLINE Data	Product Format Check	Nominal
Data Osed:		Product Header Analysis	See Section 5.2
		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				
30-Nov-2019	None			
01-Dec-2019	None			
02-Dec-2019	Nothing planned			





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

## 4. Level 1B Data Quality Check

### 4.1 L1B Product Format Check

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

# Number of products with errors:

## 4.2 L1B Product Header Analysis

For all products, a series of pre-defined checks are carried out on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain. Number of products with errors: 0

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.

Product	Test Failed	Description
CS_OFFL_SIR_LRM_1B_20191201T000531_20191201T004049_D001	Loss of echo	The tracking echo is missing for one or more record
CS_OFFL_SIR_LRM_1B_20191201T014357_20191201T014444_D001	Loss of echo	The tracking echo is missing for one or more record
CS_OFFL_SIR_LRM_1B_20191201T014449_20191201T014517_D001	Loss of echo	The tracking echo is missing for one or more record
CS_OFFL_SIR_LRM_1B_20191201T014520_20191201T014557_D001	Loss of echo	The tracking echo is missing for one or more record
CS_OFFL_SIR_LRM_1B_20191201T014600_20191201T014603_D001	Loss of echo	The tracking echo is missing for one or more record
CS_OFFL_SIR_LRM_1B_20191201T014607_20191201T014609_D001	Loss of echo	The tracking echo is missing for one or more record
CS_OFFL_SIR_LRM_1B_20191201T014611_20191201T014615_D001	Loss of echo	The tracking echo is missing for one or more record
CS_OFFL_SIR_LRM_1B_20191201T014618_20191201T014625_D001	Loss of echo	The tracking echo is missing for one or more record
CS_OFFL_SIR_LRM_1B_20191201T014630_20191201T015833_D001	Loss of echo	The tracking echo is missing for one or more recon
CS_OFFL_SIR_LRM_1B_20191201T020314_20191201T020354_D001	Loss of echo	The tracking echo is missing for one or more record
CS_OFFL_SIR_LRM_1B_20191201T020356_20191201T020422_D001	Loss of echo	The tracking echo is missing for one or more recom
CS_OFFL_SIR_LRM_1B_20191201T020425_20191201T022031_D001	Loss of echo	The tracking echo is missing for one or more recom
CS_OFFL_SIR_LRM_1B_20191201T023755_20191201T025131_D001	Loss of echo	The tracking echo is missing for one or more recor
CS_OFFL_SIR_LRM_1B_20191201T025506_20191201T031007_D001	Loss of echo	The tracking echo is missing for one or more recom
CS_OFFL_SIR_LRM_1B_20191201T032250_20191201T032656_D001	Loss of echo	The tracking echo is missing for one or more recor
CS_OFFL_SIR_LRM_1B_20191201T032700_20191201T032728_D001	Loss of echo	The tracking echo is missing for one or more recon
CS OFFL SIR LRM 1B 20191201T032731 20191201T032750 D001	Loss of echo	The tracking echo is missing for one or more recor
CS_OFFL_SIR_LRM_1B_20191201T032752_20191201T032802_D001	Loss of echo	The tracking echo is missing for one or more recor
CS_OFFL_SIR_LRM_1B_20191201T032810_20191201T032820_D001	Loss of echo	The tracking echo is missing for one or more record
CS_OFFL_SIR_LRM_1B_20191201T032824_20191201T033033_D001	Loss of echo	The tracking echo is missing for one or more record
CS_OFFL_SIR_LRM_1B_201912011032024_20191201103033_D001	Loss of echo	The tracking echo is missing for one or more record
	Loss of echo	
CS_OFFL_SIR_LRM_1B_20191201T042023_20191201T042837_D001	Loss of echo	The tracking echo is missing for one or more record
CS_OFFL_SIR_LRM_1B_20191201T043235_20191201T043723_D001	Loss of echo	The tracking echo is missing for one or more recom
CS_OFFL_SIR_LRM_1B_20191201T044007_20191201T044554_D001		The tracking echo is missing for one or more record
CS_OFFL_SIR_LRM_1B_20191201T050109_20191201T050450_D001	Loss of echo	The tracking echo is missing for one or more record
CS_OFFL_SIR_LRM_1B_20191201T050453_20191201T050458_D001	Loss of echo	The tracking echo is missing for one or more record
CS_OFFL_SIR_LRM_1B_20191201T050502_20191201T050537_D001	Loss of echo	The tracking echo is missing for one or more recom
CS_OFFL_SIR_LRM_1B_20191201T050541_20191201T050638_D001	Loss of echo	The tracking echo is missing for one or more recon
CS_OFFL_SIR_LRM_1B_20191201T050641_20191201T050705_D001	Loss of echo	The tracking echo is missing for one or more recon
CS_OFFL_SIR_LRM_1B_20191201T050711_20191201T050725_D001	Loss of echo	The tracking echo is missing for one or more record
CS_OFFL_SIR_LRM_1B_20191201T050728_20191201T050733_D001	Loss of echo	The tracking echo is missing for one or more record
CS_OFFL_SIR_LRM_1B_20191201T050739_20191201T050745_D001	Loss of echo	The tracking echo is missing for one or more record
CS_OFFL_SIR_LRM_1B_20191201T050747_20191201T050904_D001	Loss of echo	The tracking echo is missing for one or more recon
CS_OFFL_SIR_LRM_1B_20191201T050907_20191201T050929_D001	Loss of echo	The tracking echo is missing for one or more record
CS_OFFL_SIR_LRM_1B_20191201T050945_20191201T051034_D001	Loss of echo	The tracking echo is missing for one or more recon
CS_OFFL_SIR_LRM_1B_20191201T051435_20191201T051507_D001	Loss of echo	The tracking echo is missing for one or more record
CS_OFFL_SIR_LRM_1B_20191201T054232_20191201T054616_D001	Loss of echo	The tracking echo is missing for one or more record
CS_OFFL_SIR_LRM_1B_20191201T055330_20191201T062118_D001	Loss of echo	The tracking echo is missing for one or more record
CS_OFFL_SIR_LRM_1B_20191201T062332_20191201T062346_D001	Loss of echo	The tracking echo is missing for one or more record
CS_OFFL_SIR_LRM_1B_20191201T062349_20191201T062704_D001	Loss of echo	The tracking echo is missing for one or more record
CS_OFFL_SIR_LRM_1B_20191201T064231_20191201T064302_D001	Loss of echo	The tracking echo is missing for one or more record
CS_OFFL_SIR_LRM_1B_20191201T064425_20191201T064913_D001	Loss of echo	The tracking echo is missing for one or more record
CS_OFFL_SIR_LRM_1B_20191201T065035_20191201T065051_D001	Loss of echo	The tracking echo is missing for one or more record
CS_OFFL_SIR_LRM_1B_20191201T065302_20191201T071653_D001	Loss of echo	The tracking echo is missing for one or more record
CS_OFFL_SIR_LRM_1B_20191201T082220_20191201T082547_D001	Loss of echo	The tracking echo is missing for one or more record

Loss of echo

Loss 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

The tracking echo is missing for one or more records

## CS\_OFFL\_SIR\_LRM\_1B\_20191201T082621\_20191201T082823\_D001 CS\_OFFL\_SIR\_LRM\_1B\_20191201T082826\_20191201T083612\_D001 CS\_OFFL\_SIR\_LRM\_1B\_20191201T083617\_20191201T084751\_D001

CS\_OFFL\_SIR\_LRM\_1B\_20191201T090014\_20191201T090806\_D001 CS OFFL SIR LRM 1B 20191201T091342 20191201T094531 D001 CS\_OFFL\_SIR\_LRM\_1B\_20191201T100026\_20191201T100051\_D001 CS OFFL SIR LRM 1B 20191201T100434 20191201T100653 D001 CS OFFL SIR LRM 1B 20191201T100704 20191201T100748 D001 CS\_OFFL\_SIR\_LRM\_1B\_20191201T101103\_20191201T101201\_D001 CS OFFL SIR LRM 1B 20191201T101711 20191201T102023 D001 CS OFFL SIR LRM 1B 20191201T102054 20191201T102249 D001 CS\_OFFL\_SIR\_LRM\_1B\_20191201T111556\_20191201T112639\_D001 CS OFFL SIR LRM 1B 20191201T112643 20191201T112734 D001 CS\_OFFL\_SIR\_LRM\_1B\_20191201T114646\_20191201T114827\_D001 CS\_OFFL\_SIR\_LRM\_1B\_20191201T114912\_20191201T114959\_D001 CS\_OFFL\_SIR\_LRM\_1B\_20191201T115001\_20191201T115430\_D001 CS\_OFFL\_SIR\_LRM\_1B\_20191201T115555\_20191201T120204\_D001 CS\_OFFL\_SIR\_LRM\_1B\_20191201T123121\_20191201T130507\_D001 CS OFFL SIR LRM 1B 20191201T130510 20191201T130536 D001 CS\_OFFL\_SIR\_LRM\_1B\_20191201T130541\_20191201T130601\_D001 CS\_OFFL\_SIR\_LRM\_1B\_20191201T130607\_20191201T130621\_D001 CS OFFL SIR LRM 1B 20191201T130624 20191201T130646 D001 CS OFFL SIR LRM 1B 20191201T130657 20191201T130658 D001 CS OFFL SIR LRM 1B 20191201T130701 20191201T130740 D001 CS OFFL SIR LRM 1B 20191201T133912 20191201T135146 D001 CS\_OFFL\_SIR\_LRM\_1B\_20191201T140110\_20191201T140305\_D001 CS OFFL SIR LRM 1B 20191201T141028 20191201T142532 D001 CS\_OFFL\_SIR\_LRM\_1B\_20191201T142735\_20191201T143750\_D001 CS\_OFFL\_SIR\_LRM\_1B\_20191201T144049\_20191201T144259\_D001 CS\_OFFL\_SIR\_LRM\_1B\_20191201T144302\_20191201T144334\_D001 CS\_OFFL\_SIR\_LRM\_1B\_20191201T144336\_20191201T144714\_D001 CS OFFL SIR LRM 1B 20191201T145948 20191201T151613 D001 CS\_OFFL\_SIR\_LRM\_1B\_20191201T151914\_20191201T152035\_D001 CS\_OFFL\_SIR\_LRM\_1B\_20191201T152053\_20191201T152756\_D001 CS OFFL SIR LRM 1B 20191201T153940 20191201T154225 D001 CS\_OFFL\_SIR\_LRM\_1B\_20191201T161249\_20191201T161411\_D001 CS OFFL SIR LRM 1B 20191201T161419 20191201T161544 D001 CS\_OFFL\_SIR\_LRM\_1B\_20191201T161546\_20191201T161548\_D001 CS\_OFFL\_SIR\_LRM\_1B\_20191201T161552\_20191201T161557\_D001 CS\_OFFL\_SIR\_LRM\_1B\_20191201T161602\_20191201T162025\_D001 CS OFFL SIR LRM 1B 20191201T162030 20191201T162444 D001 CS\_OFFL\_SIR\_LRM\_1B\_20191201T162446\_20191201T162709\_D001 CS\_OFFL\_SIR\_LRM\_1B\_20191201T164230\_20191201T164819\_D001 CS\_OFFL\_SIR\_LRM\_1B\_20191201T165103\_20191201T171405\_D001 CS\_OFFL\_SIR\_LRM\_1B\_20191201T171738\_20191201T172615\_D001 CS\_OFFL\_SIR\_LRM\_1B\_20191201T172939\_20191201T175349\_D001 CS OFFL SIR LRM 1B 20191201T175902 20191201T180230 D001 CS OFFL SIR LRM 1B 20191201T181726 20191201T181815 D001 CS OFFL SIR LRM 1B 20191201T181937 20191201T182415 D001 CS\_OFFL\_SIR\_LRM\_1B\_20191201T182540\_20191201T185256\_D001 CS OFFL SIR LRM 1B 20191201T190858 20191201T193508 D001 CS\_OFFL\_SIR\_LRM\_1B\_20191201T193512\_20191201T193735\_D001 CS\_OFFL\_SIR\_LRM\_1B\_20191201T193812\_20191201T194304\_D001 CS\_OFFL\_SIR\_LRM\_1B\_20191201T205706\_20191201T210319\_D001 CS\_OFFL\_SIR\_LRM\_1B\_20191201T210514\_20191201T211010 D001 CS OFFL SIR LRM 1B 20191201T211101 20191201T211151 D001 CS OFFL SIR LRM 1B 20191201T211156 20191201T211249 D001 CS\_OFFL\_SIR\_LRM\_1B\_20191201T211433\_20191201T211442\_D001 CS OFFL SIR LRM 1B 20191201T211449 20191201T211523 D001 CS OFFL SIR LRM 1B 20191201T211655 20191201T212003 D001 CS\_OFFL\_SIR\_LRM\_1B\_20191201T213748\_20191201T221103\_D001 CS\_OFFL\_SIR\_LRM\_1B\_20191201T224633\_20191201T225344\_D001 CS\_OFFL\_SIR\_LRM\_1B\_20191201T225537\_20191201T225656\_D001 CS\_OFFL\_SIR\_LRM\_1B\_20191201T234508\_20191201T235009\_D001

Loss of echo Loss of echo Loss of echo l oss of echo Loss of echo oss of echo Loss of echo l oss of echo Loss of echo 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

## 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

### 4.7 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: 0

Number of products with error

## 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: 0

## 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
CS_OFFL_SIR_LRM_220191201T000531_20191201T004049_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_220191201T005952_20191201T013132_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_220191201T014630_20191201T015833_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_220191201T020314_20191201T020354_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_220191201T020425_20191201T022031_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_220191201T023755_20191201T025131_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2), Surface Model Unavailable	There is a height and backscatter error for Retracker 2 and no DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220191201T025506_20191201T031007_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_220191201T033314_20191201T034333_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_220191201T034513_20191201T035904_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_220191201T041534_20191201T041654_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_220191201T042023_20191201T042837_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_220191201T043235_20191201T043723_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records

	Usisht Error (Datasakar 2), Daakasattar	There is a bright and backsouther area for Datasetter 2 for any array
CS_OFFL_SIR_LRM_220191201T044712_20191201T044759_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_220191201T050945_20191201T051034_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220191201T051613_20191201T053735_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_220191201T055330_20191201T062118_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_220191201T065302_20191201T071653_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_220191201T073306_20191201T080541_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_220191201T082826_20191201T083612_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2), Surface Model Unavailable	There is a height and backscatter error for Retracker 2 and no DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220191201T083617_20191201T084751_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_220191201T085204_20191201T085605_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_220191201T091342_20191201T094531_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_220191201T102054_20191201T102249_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_220191201T102516_20191201T103407_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_220191201T105157_20191201T111311_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_220191201T111556_20191201T112639_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_220191201T115555_20191201T120204_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_220191201T120300_20191201T121408_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_220191201T123121_20191201T130507_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_220191201T131937_20191201T133905_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_220191201T133912_20191201T135146_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_220191201T141028_20191201T142532_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_220191201T142735_20191201T143750_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_220191201T145948_20191201T151613_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_220191201T153236_20191201T153334_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_220191201T154948_20191201T160358_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_220191201T160538_20191201T160821_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_220191201T162030_20191201T162444_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220191201T163921_20191201T164107_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_220191201T164230_20191201T164819_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_220191201T165103_20191201T171405_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_220191201T172939_20191201T175349_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_220191201T180353_20191201T180422_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_220191201T182540_20191201T185256_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_220191201T190858_20191201T193508_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_220191201T200051_20191201T203053_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_220191201T204819_20191201T205233_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_220191201T205706_20191201T210319_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_220191201T213748_20191201T221103_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_220191201T222846_20191201T224431_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_220191201T231541_20191201T232619_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_220191201T232727_20191201T234457_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_220191201T234508_20191201T235009_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