

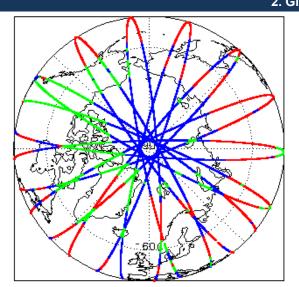
# **QA4EO Daily Report for OFFLINE data:**

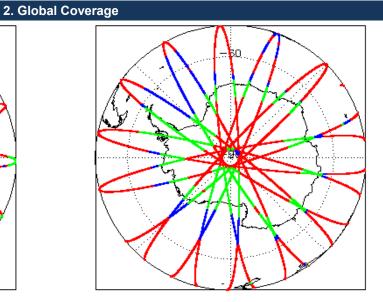
29/04/2020

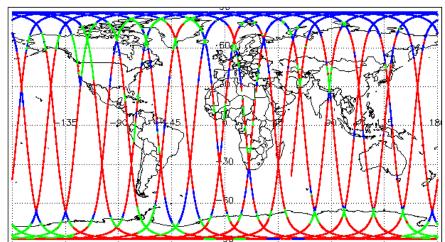
## 1. Overview

Penart Braduation Data	28-May-2020	Check	Status
Report Production Date:		Server check: science-pds.cryosat.esa.int	Nominal
Broossor Hood	cessor Used: CryoSat Ice Processor	Server check: calval-pds.cryosat.esa.int	Nominal
Processor Useu.		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	
28-Apr-2020	None
29-Apr-2020	None
30-Apr-2020	Nothing planned

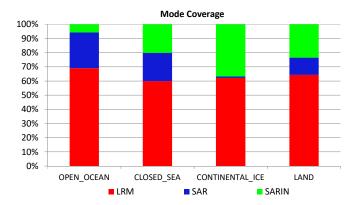


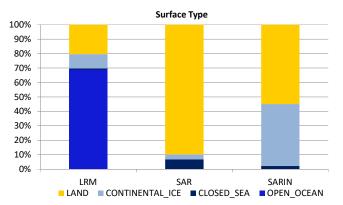






LRM	67.2
SAR	19.8
SARIn	13.0





### 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. 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_20200429T000026_20200429T000103_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200429T000118_20200429T000312_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200429T002122_20200429T002656_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200429T002709_20200429T003011_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200429T003015_20200429T005746_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200429T010406_20200429T010738_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200429T015842_20200429T020008_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200429T020221_20200429T020608_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200429T021011_20200429T021128_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200429T021311_20200429T021804_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200429T021846_20200429T022309_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200429T022431_20200429T022814_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200429T034347_20200429T034559_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200429T034757_20200429T035318_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200429T041836_20200429T042328_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200429T042934_20200429T043546_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200429T043555_20200429T050207_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200429T050502_20200429T050529_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200429T050531_20200429T050540_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200429T050542_20200429T050647_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200429T060930_20200429T061536_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200429T061618_20200429T061726_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200429T061728_20200429T062655_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200429T063135_20200429T063859_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200429T063950_20200429T064028_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200429T064232_20200429T064250_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200429T064254_20200429T064433_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200429T064436_20200429T064437_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200429T064445_20200429T064525_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200429T064529_20200429T064534_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200429T064536_20200429T064552_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200429T071750_20200429T073251_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200429T073930_20200429T074146_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200429T074832_20200429T080323_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200429T080502_20200429T080638_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200429T080641_20200429T082055_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200429T082134_20200429T082548_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200429T082635_20200429T082650_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200429T084001_20200429T084151_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200429T084305_20200429T084903_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200429T085026_20200429T085243_D001	Loss of echo	The tracking echo is missing for one or more records

CS OFFL SIR LRM 1B 20200429T085339 20200429T085417 D001 CS OFFL SIR LRM 1B 20200429T085421 20200429T085430 D001 CS OFFL SIR LRM 1B 20200429T085432 20200429T085453 D001 CS\_OFFL\_SIR\_LRM\_1B\_20200429T085456\_20200429T085508\_D001 CS OFFL SIR LRM 1B 20200429T091719 20200429T092550 D001 CS\_OFFL\_SIR\_LRM\_1B\_20200429T095754\_20200429T095846\_D001 CS OFFL SIR LRM 1B 20200429T095855 20200429T100430 D001 CS OFFL SIR LRM 1B 20200429T101638 20200429T101717 D001 CS OFFL SIR LRM 1B 20200429T101938 20200429T102417 D001 CS OFFL SIR LRM 1B 20200429T102628 20200429T102827 D001 CS OFFL SIR LRM 1B 20200429T102829 20200429T102829 D001 CS OFFL SIR LRM 1B 20200429T102831 20200429T102833 D001 CS\_OFFL\_SIR\_LRM\_1B\_20200429T102836\_20200429T103006\_D001 CS\_OFFL\_SIR\_LRM\_1B\_20200429T103008\_20200429T105339\_D001 CS OFFL SIR LRM 1B 20200429T105913 20200429T110357 D001 CS\_OFFL\_SIR\_LRM\_1B\_20200429T111132\_20200429T113309\_D001 CS\_OFFL\_SIR\_LRM\_1B\_20200429T113419\_20200429T113623\_D001 CS\_OFFL\_SIR\_LRM\_1B\_20200429T113729\_20200429T114243\_D001 CS\_OFFL\_SIR\_LRM\_1B\_20200429T124601\_20200429T131455\_D001 CS\_OFFL\_SIR\_LRM\_1B\_20200429T131701\_20200429T131811\_D001 CS\_OFFL\_SIR\_LRM\_1B\_20200429T132223\_20200429T132309\_D001 CS\_OFFL\_SIR\_LRM\_1B\_20200429T143336\_20200429T143734\_D001 CS OFFL SIR LRM 1B 20200429T143840 20200429T144204 D001 CS\_OFFL\_SIR\_LRM\_1B\_20200429T144258\_20200429T144354 D001 CS OFFL SIR LRM 1B 20200429T144356 20200429T144514 D001 CS\_OFFL\_SIR\_LRM\_1B\_20200429T145027\_20200429T145151\_D001 CS\_OFFL\_SIR\_LRM\_1B\_20200429T145610\_20200429T145621\_D001 CS OFFL SIR LRM 1B 20200429T145631 20200429T145726 D001 CS OFFL SIR LRM 1B 20200429T161847 20200429T162455 D001 CS OFFL SIR LRM 1B 20200429T162639 20200429T163120 D001 CS OFFL SIR LRM 1B 20200429T165317 20200429T165435 D001 CS OFFL SIR LRM 1B 20200429T183149 20200429T183236 D001 CS OFFL SIR LRM 1B 20200429T183239 20200429T183241 D001 CS\_OFFL\_SIR\_LRM\_1B\_20200429T183245\_20200429T183304\_D001 CS OFFL SIR LRM 1B 20200429T183309 20200429T183311 D001 CS\_OFFL\_SIR\_LRM\_1B\_20200429T183316\_20200429T183320\_D001 CS OFFL SIR LRM 1B 20200429T183323 20200429T183332 D001 CS\_OFFL\_SIR\_LRM\_1B\_20200429T183334\_20200429T183355\_D001 CS\_OFEL\_SIR\_LRM\_1B\_20200429T183401\_20200429T183407\_D001 CS OFFL SIR LRM 1B 20200429T183409 20200429T183418 D001 CS OFFL SIR LRM 1B 20200429T183741 20200429T185242 D001 CS OFFL SIR LRM 1B 20200429T185258 20200429T190838 D001 CS\_OFFL\_SIR\_LRM\_1B\_20200429T192514\_20200429T193514\_D001 CS\_OFFL\_SIR\_LRM\_1B\_20200429T193620\_20200429T193911\_D001 CS OFFL SIR LRM 1B 20200429T194133 20200429T195306 D001 CS\_OFFL\_SIR\_LRM\_1B\_20200429T195444\_20200429T195627\_D001 CS OFFL SIR LRM 1B 20200429T201028 20200429T201429 D001 CS\_OFFL\_SIR\_LRM\_1B\_20200429T201432\_20200429T201434\_D001 CS OFFL SIR LRM 1B 20200429T201436 20200429T201450 D001 CS\_OFFL\_SIR\_LRM\_1B\_20200429T201454\_20200429T201925\_D001 CS\_OFFL\_SIR\_LRM\_1B\_20200429T201927\_20200429T203120\_D001 CS\_OFFL\_SIR\_LRM\_1B\_20200429T210234\_20200429T212236\_D001 CS OFFL SIR LRM 1B 20200429T212238 20200429T212510 D001 CS\_OFFL\_SIR\_LRM\_1B\_20200429T212632\_20200429T213455 D001 CS OFFL SIR LRM 1B 20200429T213742 20200429T213809 D001 CS\_OFFL\_SIR\_LRM\_1B\_20200429T214857\_20200429T215503\_D001 CS OFFL SIR LRM 1B 20200429T215505 20200429T215513 D001 CS OFFL SIR LRM 1B 20200429T215516 20200429T215636 D001 CS\_OFFL\_SIR\_LRM\_1B\_20200429T215640\_20200429T215640\_D001 CS OFFL SIR LRM 1B 20200429T215643 20200429T215703 D001 CS OFFL SIR LRM 1B 20200429T215757 20200429T215835 D001 CS\_OFFL\_SIR\_LRM\_1B\_20200429T224015\_20200429T230908\_D001 CS OFFL SIR LRM 1B 20200429T233157 20200429T233851 D001 CS\_OFFL\_SIR\_LRM\_1B\_20200429T234009\_20200430T000631\_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

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-dete	ermined baseline and also to check the vali	dity of Auxiliary Data Files is correct.	
Number of products with errors: 0			
4.7 L1B Auxiliary Correction Error Check			
• •	The bit of the first of the first of the second s		
CryoSat L1B data includes a correction error flag (field 54) for each measurement ro Number of products with errors: 0	ecord. The bit value of this flag indicates ar	y problems when set.	
4.8 L1B Measurement Confidence Data Check			
CryoSat L1B data includes a measurement confidence flag (field 18) for each meas	urement record. The bit value of this flag in	dicates any problems when set.	
Currently, there are several common error flags raised in the Level 1B product below, followed by a table of any additional issues arising from this test.	ts which are expected due to operation	al mode or surface type. All common flags are summarised in the list	
Block Degraded Flag: This flag is currently set for a number of individual records g	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, indi	cating that the ADC correction application i	is deactivated, but this is in line with the current configuration	
Number of products with errors: 2			
Product	Test Failed	Description	
CS_OFFL_SIR_LRM_1B_20200429T071750_20200429T073251_D001	Echo error, TRK echo error	The tracking echo has returned an error and the Rx1 Echo Error flag is set,	
CS_OFFL_SIR_LRM_1B_20200429T095754_20200429T095846_D001	Echo error, TRK echo error	indicating a degraded echo The tracking echo has returned an error and the Rx1 Echo Error flag is set,	
00_01 / 2_01 (_2, 11_ / 2_0200 / 20 / 000 / 0 ,_20 / 000 / 20 / 0000 / 0_2000 /		indicating a degraded echo	
5. Le	vel 2 Data Quality Check		
5.1 L2 Product Format Check			
Each product, retrieved and unpacked from the science server, is checked to ensur	e it consists of both an XML beader file ( H	DR) and a product file ( DRI )	
Number of products with errors: 0		, and a product me (1992).	
5.2 L2 Product Header Analysis			
For all products, a series of pre-defined checks are carried out on the MPH and SP	H in order to identify any inconsistencies ar	nd/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-dete	provined baceline and also to shock the vali	ditu of Auvilianu Data Filos is correct	
Number of products with errors: 0			
5.4 L2 Auxiliary Correction Error Check			
CryoSat L2 data includes a correction error flag (field 30) for each measurement rec	ord. The hit value of this flag indicates any	nrohlems when set	
Number of products with errors: 0	ord. The bit value of this hag indicates any		
5.5 L2 Measurement Quality Flag Check			
CryoSat L2 data includes a quality flag (field 50) for each 20-Hz measurement recor			
Currently, there are several common error flags raised in the Level 2 products which are expected due to operational mode or surface type. All common flags are summarised in the list below, followed by a table of any additional issues arising from this test.			
Freeboard error: This flag is correctly set in all L2 SAR products that are not discriminated as sea-ice, and for which freeboard cannot be calculated.			
Height and Backscatter errors: These flags are currently set for products over land, but this is to be expected. Retracker 1 Height and Backscatter error flags are also set for products over sea-ice, but this is to be expected.			
Peakiness error: This flag is currently set for products over sea-ice, but this is to be expected.			
SARIN X-Track Angle Error: This flag is set when the difference between the computed surface elevation and the DEM is >50 m. The DEM is only available over Greenland and Antarctica and as a			
result this flag is set for L2 SARIn products in all other locations as expected. SSHA interpolation error: This flag is currently set for a number of SAR products occurring at surface type boundaries, but this is to be expected.			
Number of products with errors: 60			
Product	Test Failed	Description	
CS_OFFL_SIR_LRM_220200429T000026_20200429T000103_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_220200429T000118_20200429T000312_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records	
CS_OFFL_SIR_LRM_2_20200429T002709_20200429T003011_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records	
CS_OFFL_SIR_LRM_220200429T003015_20200429T005746_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_220200429T011053_20200429T014525_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records	

CS\_OFFL\_SIR\_LRM\_2\_\_20200429T015842\_20200429T020008\_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_220200429T025020_20200429T031235_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_220200429T031521_20200429T032418_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_220200429T033703_20200429T034033_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_220200429T035638_20200429T040128_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_220200429T040316_20200429T041605_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_220200429T042934_20200429T043546_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_220200429T043555_20200429T050207_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_220200429T052807_20200429T055105_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_220200429T061618_20200429T061726_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_220200429T061728_20200429T062655_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_220200429T063135_20200429T063859_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_220200429T070719_20200429T071536_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_220200429T071750_20200429T073251_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_220200429T074832_20200429T080323_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_220200429T080502_20200429T080638_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_220200429T080641_20200429T082055_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_220200429T084001_20200429T084151_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220200429T084305_20200429T084903_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_220200429T085026_20200429T085243_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_220200429T085339_20200429T085417_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220200429T085905_20200429T091427_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_220200429T092810_20200429T095051_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_220200429T095855_20200429T100430_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220200429T103008_20200429T105339_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_220200429T110702_20200429T110955_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_220200429T111132_20200429T113309_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_220200429T120535_20200429T123229_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_220200429T124601_20200429T131455_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_220200429T132223_20200429T132309_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_220200429T132314_20200429T132427_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_220200429T133706_20200429T141129_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_220200429T143336_20200429T143734_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_220200429T150035_20200429T150431_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_220200429T151700_20200429T152539_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_220200429T152825_20200429T155044_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_220200429T160350_20200429T161659_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_220200429T161847_20200429T162455_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_220200429T162639_20200429T163120_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_220200429T165550_20200429T172911_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_220200429T174739_20200429T181818_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_220200429T183245_20200429T183304_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220200429T183741_20200429T185242_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_220200429T185258_20200429T190838_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_220200429T192514_20200429T193514_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_220200429T194133_20200429T195306_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_220200429T195444_20200429T195627_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220200429T201927_20200429T203120_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_220200429T210234_20200429T212236_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_220200429T212238_20200429T212510_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_220200429T212632_20200429T213455_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_220200429T220406_20200429T222701_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_220200429T224015_20200429T230908_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_220200429T233011_20200429T233144_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_220200429T234009_20200430T000631_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