

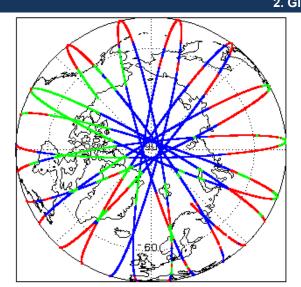
# **QA4EO Daily Report for OFFLINE data:**

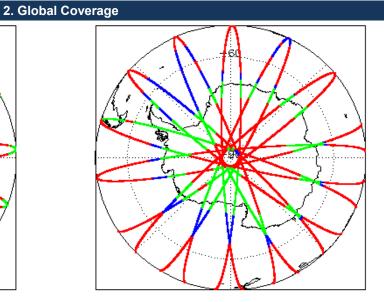
<u>17/04/2020</u>

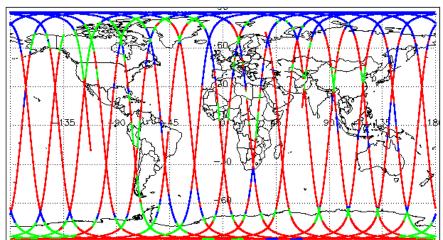
## 1. Overview

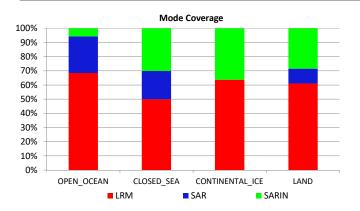
Report Production Date:	15-May-2020	Check	Status
		Server check: science-pds.cryosat.esa.int	Nominal
Processor Used:	CryoSat Ice Processor	Server check: calval-pds.cryosat.esa.int	Nominal
Processor Used.		Product Software Check	Nominal
Data Used:	L1B and L2 OFFLINE Data	Product Format Check	Nominal
		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

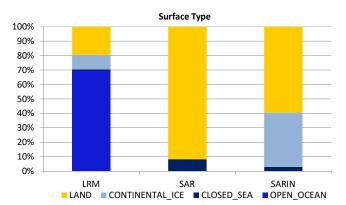
Mission / Instrument News		
16-Apr-2020	None	
17-Apr-2020	None	
18-Apr-2020	Nothing planned	











Mode Coverage (%)

LRM	66.3
SAR	19.8
SARIn	13.9

## 3. Instrument Configuration

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

SIRAL instrument(s) in use:

SIRAL - A

## 4. Level 1B Data Quality Check

#### 4.1 L1B Product Format Check

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

Number of products with errors:

#### 4.2 L1B Product Header Analysis

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

#### 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_20200416T234544_20200417T001424_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200417T003549_20200417T004114_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200417T004220_20200417T004529_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200417T004531_20200417T004605_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200417T004607_20200417T011207_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200417T021636_20200417T021901_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200417T021934_20200417T022012_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200417T022159_20200417T022315_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200417T022457_20200417T022631_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200417T022736_20200417T023037_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200417T023216_20200417T023233_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200417T023559_20200417T024237_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200417T035520_20200417T035548_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200417T035803_20200417T035901_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200417T040230_20200417T040855_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200417T043302_20200417T043807_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200417T044404_20200417T051736_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200417T051951_20200417T052055_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200417T062418_20200417T063617_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200417T063738_20200417T063910_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200417T063919_20200417T063924_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200417T063926_20200417T064133_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200417T064614_20200417T065451_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200417T065804_20200417T065845_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200417T065848_20200417T065907_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200417T065910_20200417T065947_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200417T065954_20200417T070014_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200417T070017_20200417T070037_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200417T073229_20200417T074651_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200417T075416_20200417T075622_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200417T080312_20200417T081618_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200417T081736_20200417T081839_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200417T082039_20200417T083002_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200417T083214_20200417T083609_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200417T083611_20200417T083624_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200417T083628_20200417T084026_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200417T085442_20200417T085616_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200417T085739_20200417T090926_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200417T091453_20200417T092914_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200417T093212_20200417T094026_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200417T100229_20200417T100716_D001	Loss of echo	The tracking echo is missing for one or more records

CS OFFL SIR LRM 1B 20200417T101103 20200417T101145 D001 CS OFFL SIR LRM 1B 20200417T101220 20200417T101245 D001 CS OFFL SIR LRM 1B 20200417T101247 20200417T101303 D001 CS\_OFFL\_SIR\_LRM\_1B\_20200417T101306\_20200417T101311\_D001 CS OFFL SIR LRM 1B 20200417T101313 20200417T101423 D001 CS\_OFFL\_SIR\_LRM\_1B\_20200417T101426\_20200417T101925\_D001 CS OFFL SIR LRM 1B 20200417T103431 20200417T104042 D001 CS OFFL SIR LRM 1B 20200417T104123 20200417T110825 D001 CS OFFL SIR LRM 1B 20200417T111343 20200417T111859 D001 CS OFFL SIR LRM 1B 20200417T114917 20200417T114938 D001 CS OFFL SIR LRM 1B 20200417T115015 20200417T115733 D001 CS OFFL SIR LRM 1B 20200417T121824 20200417T121836 D001 CS OFFL SIR LRM 1B 20200417T121838 20200417T121853 D001 CS\_OFFL\_SIR\_LRM\_1B\_20200417T121855\_20200417T121922\_D001 CS OFFL SIR LRM 1B 20200417T121925 20200417T124658 D001 CS\_OFFL\_SIR\_LRM\_1B\_20200417T130039\_20200417T132847\_D001 CS\_OFFL\_SIR\_LRM\_1B\_20200417T132850\_20200417T133006\_D001 CS\_OFFL\_SIR\_LRM\_1B\_20200417T133017\_20200417T133032\_D001 CS\_OFFL\_SIR\_LRM\_1B\_20200417T133034\_20200417T133251\_D001 CS\_OFFL\_SIR\_LRM\_1B\_20200417T144827\_20200417T145801\_D001 CS\_OFFL\_SIR\_LRM\_1B\_20200417T145822\_20200417T145835\_D001 CS\_OFFL\_SIR\_LRM\_1B\_20200417T145839\_20200417T150323\_D001 CS OFFL SIR LRM 1B 20200417T150933 20200417T151048 D001 CS\_OFFL\_SIR\_LRM\_1B\_20200417T151059\_20200417T151216\_D001 CS OFFL SIR LRM 1B 20200417T151506 20200417T151520 D001 CS\_OFFL\_SIR\_LRM\_1B\_20200417T164138\_20200417T164623\_D001 CS OFFL SIR LRM 1B 20200417T164712 20200417T164846 D001 CS OFFL SIR LRM 1B 20200417T170753 20200417T170849 D001 CS OFFL SIR LRM 1B 20200417T170851 20200417T170858 D001 CS OFFL SIR LRM 1B 20200417T184628 20200417T184736 D001 CS OFFL SIR LRM 1B 20200417T184743 20200417T184747 D001 CS\_OFFL\_SIR\_LRM\_1B\_20200417T184750\_20200417T184826\_D001 CS OFFL SIR LRM 1B 20200417T184828 20200417T184829 D001 CS\_OFFL\_SIR\_LRM\_1B\_20200417T184833\_20200417T184847\_D001 CS OFFL SIR LRM 1B 20200417T190538 20200417T190647 D001 CS\_OFFL\_SIR\_LRM\_1B\_20200417T190649\_20200417T190749\_D001 CS OFFL SIR LRM 1B 20200417T190830 20200417T192312 D001 CS\_OFFL\_SIR\_LRM\_1B\_20200417T194033\_20200417T195358\_D001 CS\_OFEL\_SIR\_LRM\_1B\_20200417T195612\_20200417T195725\_D001 CS OFFL SIR LRM 1B 20200417T202514 20200417T203217 D001 CS OFFL SIR LRM 1B 20200417T203219 20200417T203240 D001 CS OFFL SIR LRM 1B 20200417T203535 20200417T204404 D001 CS\_OFFL\_SIR\_LRM\_1B\_20200417T204406\_20200417T204424\_D001 CS\_OFFL\_SIR\_LRM\_1B\_20200417T204426\_20200417T204557\_D001 CS OFFL SIR LRM 1B 20200417T212354 20200417T213033 D001 CS\_OFFL\_SIR\_LRM\_1B\_20200417T213500\_20200417T213509\_D001 CS OFFL SIR LRM 1B 20200417T213519 20200417T213950 D001 CS\_OFFL\_SIR\_LRM\_1B\_20200417T214233\_20200417T214820\_D001 CS OFFL SIR LRM 1B 20200417T220322 20200417T220800 D001 CS\_OFFL\_SIR\_LRM\_1B\_20200417T220804\_20200417T220907\_D001 CS\_OFFL\_SIR\_LRM\_1B\_20200417T220909\_20200417T220921\_D001 CS OFFL SIR LRM 1B 20200417T220923 20200417T221030 D001 CS OFFL SIR LRM 1B 20200417T221033 20200417T221114 D001 CS\_OFFL\_SIR\_LRM\_1B\_20200417T221121\_20200417T221130 D001 CS OFFL SIR LRM 1B 20200417T221134 20200417T221148 D001 CS\_OFFL\_SIR\_LRM\_1B\_20200417T221153\_20200417T221157\_D001 CS OFFL SIR LRM 1B 20200417T221200 20200417T221253 D001 CS\_OFFL\_SIR\_LRM\_1B\_20200417T221653\_20200417T221741\_D001 CS\_OFFL\_SIR\_LRM\_1B\_20200417T225502\_20200417T232253\_D001 CS OFFL SIR LRM 1B 20200417T232257 20200417T232338 D001 CS OFFL SIR LRM 1B 20200417T232341 20200417T232342 D001 CS\_OFFL\_SIR\_LRM\_1B\_20200417T232548\_20200417T232942\_D001 CS OFFL SIR LRM 1B 20200417T234648 20200417T235130 D001 CS\_OFFL\_SIR\_LRM\_1B\_20200417T235305\_20200417T235309\_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-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			
CryoSat L1B data includes a correction error flag (field 54) for each measurement rone of products with errors: 0	ecord. The bit value of this flag indicates ar	ny problems when set.	
4.8 L1B Measurement Confidence Data Check			
CryoSat L1B data includes a measurement confidence flag (field 18) for each meas Currently, there are several common error flags raised in the Level 1B produc 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 of	ts which are expected due to operation	al mode or surface type. All common flags are summarised in the list	
Phase Perturbation Flag: This flag is currently set for all L1B SARIn products, indi	cating that the ADC correction application	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_20200417T073229_20200417T074651_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	
CS_OFFL_SIR_LRM_1B_20200417T151059_20200417T151216_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. Le	evel 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 header file (.H	DR) 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 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	ermined baseline and also to check the vali	dity of Auxiliary Data Files 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	cord. The bit value of this flag indicates any	problems when set.	
Number of products with errors: 0			
5.5 L2 Measurement Quality Flag Check			
CryoSat L2 data includes a quality flag (field 50) for each 20-Hz measurement record	d. The bit value of this flag indicates any p	roblems when set.	
Currently, there are several common error flags raised in the Level 2 products below, followed by a table of any additional issues arising from this test.	s which are expected due to operational	mode or surface type. All common flags are summarised in the list	
Freeboard error: This flag is correctly set in all L2 SAR products that are not discri	minated as sea-ice, and for which freeboar	d 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: 52			
Product	Test Failed	Description	
CS_OFFL_SIR_LRM_220200416T234544_20200417T001424_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_220200417T004607_20200417T011207_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_220200417T012539_20200417T020022_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_220200417T022159_20200417T022315_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records	
CS_OFFL_SIR_LRM_220200417T030500_20200417T033838_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	

Height Error (Retracker 2), Backscatter Error (Retracker 2)

CS\_OFFL\_SIR\_LRM\_2\_\_20200417T035204\_20200417T035340\_D001

There is a height and backscatter error for Retracker 2 for one or more records

CS_OFFL_SIR_LRM_220200417T040230_20200417T040855_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_220200417T041121_20200417T043052_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_220200417T044404_20200417T051736_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_220200417T054300_20200417T060542_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_220200417T062418_20200417T063617_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_220200417T063738_20200417T063910_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_220200417T063926_20200417T064133_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_220200417T064614_20200417T065451_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_220200417T065804_20200417T065845_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220200417T071333_20200417T073029_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_220200417T073229_20200417T074651_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_220200417T080312_20200417T081618_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_220200417T081736_20200417T081839_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_220200417T082039_20200417T083002_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_220200417T085442_20200417T085616_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220200417T085739_20200417T090926_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_220200417T091453_20200417T092914_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_220200417T094246_20200417T095846_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_220200417T100229_20200417T100716_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_220200417T101247_20200417T101303_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220200417T104123_20200417T110825_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_220200417T112148_20200417T114654_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_220200417T121925_20200417T124658_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_220200417T130039_20200417T132847_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_220200417T133715_20200417T133824_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_220200417T135221_20200417T142604_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_220200417T151626_20200417T151927_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_220200417T153140_20200417T154019_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_220200417T154303_20200417T160528_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_220200417T161836_20200417T163811_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_220200417T171005_20200417T174339_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_220200417T180221_20200417T183345_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_220200417T185352_20200417T190056_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_220200417T190538_20200417T190647_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_220200417T190830_20200417T192312_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_220200417T194033_20200417T195358_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_220200417T195612_20200417T195725_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_220200417T195806_20200417T200829_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_220200417T203535_20200417T204404_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_20200417T204737_20200417T210208_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_220200417T212354_20200417T213033_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_20200417T213519_20200417T213950_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_220200417T214233_20200417T214820_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_20200417T221909_20200417T224126_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_20200417T225502_20200417T232253_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_220200417T235538_20200418T002112_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records