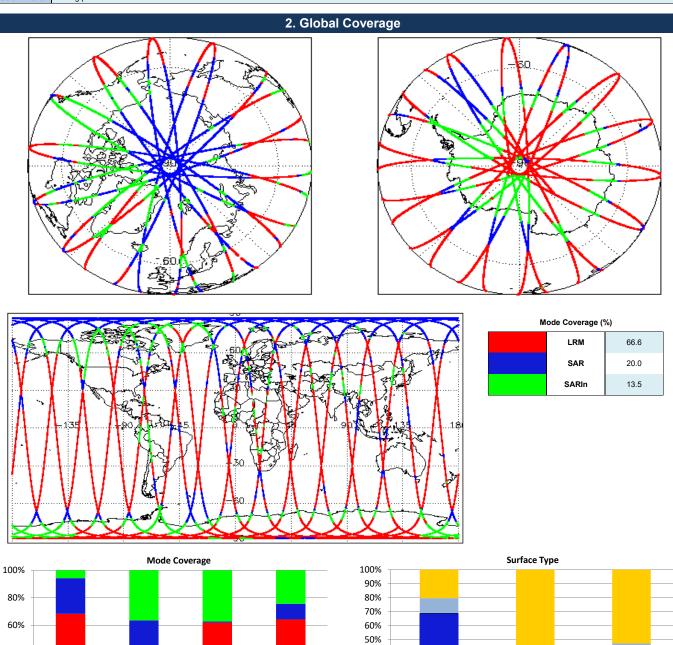


## **QA4EO Daily Report for OFFLINE data:**

<u>08/01/2020</u>

1. Overview				
			I	
Report Production Date:	06-Feb-2020	Check	Status	
Report Froduction Date.		Server check: science-pds	s.cryosat.esa.int Nominal	
Processor Used:	CryoSat Ice Processor	Server check: calval-pds.	.cryosat.esa.int Nominal	
		Product Software	Check Nominal	
Data Used:	L1B and L2 OFFLINE Data	Product Format 0	Check Nominal	
Data Osed:		Product Header A	Analysis Nominal	
		Star Tracker Usage	e Check Nominal	
		L1B Tracking Flag	g Check See Section 4.4	
		L1B Calibration Usa	ge Check Nominal	
		L1B & L2 Auxiliary Data Fil	ile Usage Check Nominal	
		L1B & L2 Auxiliary Correct	tion Error Check Nominal	
		L1B & L2 Measurement Confi	idence Data Check See Section 4.8 and 5.5	

Mission / Instrument News		
07-Jan-2020	None	
08-Jan-2020	None	
09-Jan-2020	Nothing planned	



40% 30%

20% 10%

0%

3. Instrument Configuration

LRM SAR SARIN LAND CONTINENTAL\_ICE CLOSED\_SEA OPEN\_OCEAN

OPEN\_OCEAN

LRM

CLOSED\_SEA

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

40%

20%

0%

SIRAL - A

CONTINENTAL\_ICE

SAR

LAND

SARIN

### 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.

CS\_OFFL\_SIR\_LRM\_1B\_20200108T091900\_20200108T091943\_D001

CS\_OFFL\_SIR\_LRM\_1B\_20200108T091951\_20200108T092113\_D001

CS\_OFFL\_SIR\_LRM\_1B\_20200108T092122\_20200108T092133\_D001

roduct	Test Failed	Description
S_OFFL_SIR_LRM_1B_20200108T000246_20200108T000452_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20200108T001340_20200108T002602_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20200108T005750_20200108T005759_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20200108T005805_20200108T005809_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20200108T005812_20200108T005820_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20200108T005826_20200108T005914_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20200108T005916_20200108T010037_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20200108T010040_20200108T010040_D001	Loss of echo	The tracking echo is missing for one or more records
S OFFL SIR LRM 1B 20200108T010047 20200108T010120 D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20200108T010127_20200108T010128_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20200108T010131_20200108T010328_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20200108T010732_20200108T011703_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20200108T011905_20200108T012624_D001	Loss of echo	The tracking echo is missing for one or more records
S OFFL SIR LRM 1B 20200108T015529 20200108T015905 D001	Loss of echo	The tracking echo is missing for one or more records
	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20200108T015910_20200108T015920_D001 S_OFFL_SIR_LRM_1B_20200108T020056_20200108T020127_D001	Loss of echo	
		The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20200108T020729_20200108T020852_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20200108T020858_20200108T020904_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20200108T020906_20200108T021542_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20200108T021712_20200108T022026_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20200108T023632_20200108T024043_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20200108T024046_20200108T024050_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20200108T024053_20200108T024102_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20200108T024113_20200108T024119_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20200108T024122_20200108T024147_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20200108T024201_20200108T024530_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20200108T024533_20200108T024547_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20200108T024550_20200108T024650_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20200108T024905_20200108T025005_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20200108T032115_20200108T032242_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20200108T032707_20200108T040146_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20200108T040309_20200108T040352_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20200108T041912_20200108T042244_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20200108T042650_20200108T045309_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20200108T045505_20200108T045954_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20200108T055629_20200108T060140_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20200108T060213_20200108T061134_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20200108T061137_20200108T063247_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20200108T063911_20200108T064243_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20200108T073324_20200108T073516_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20200108T073733_20200108T074118_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20200108T074514_20200108T074632_D001	Loss of echo	The tracking echo is missing for one or more records
S OFFL SIR LRM 1B 20200108T074816 20200108T075309 D001	Loss of echo	The tracking echo is missing for one or more records
S OFFL SIR LRM 1B 20200108T075334 20200108T075814 D001	Loss of echo	The tracking echo is missing for one or more records
	1	<b>C C C C</b>

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\_20200108T092303\_20200108T092822\_D001 CS OFFL SIR LRM 1B 20200108T095406 20200108T095833 D001 CS\_OFFL\_SIR\_LRM\_1B\_20200108T100447\_20200108T101046\_D001 CS OFFL SIR LRM 1B 20200108T104008 20200108T104011 D001 CS\_OFFL\_SIR\_LRM\_1B\_20200108T104016\_20200108T104156\_D001 CS\_OFFL\_SIR\_LRM\_1B\_20200108T114414\_20200108T115050\_D001 CS OFFL SIR LRM 1B 20200108T115127 20200108T120037 D001 CS OFFL SIR LRM 1B 20200108T120040 20200108T120201 D001 CS OFFL SIR LRM 1B 20200108T120641 20200108T121352 D001 CS OFFL SIR LRM 1B 20200108T121500 20200108T121526 D001 CS\_OFFL\_SIR\_LRM\_1B\_20200108T121529\_20200108T121540\_D001 CS\_OFFL\_SIR\_LRM\_1B\_20200108T121730\_20200108T121731\_D001 CS\_OFFL\_SIR\_LRM\_1B\_20200108T121733\_20200108T121746\_D001 CS\_OFFL\_SIR\_LRM\_1B\_20200108T121749\_20200108T121806\_D001 CS\_OFFL\_SIR\_LRM\_1B\_20200108T121810\_20200108T121813\_D001 CS\_OFFL\_SIR\_LRM\_1B\_20200108T121817\_20200108T122015\_D001 CS\_OFFL\_SIR\_LRM\_1B\_20200108T122018\_20200108T122020\_D001 CS\_OFFL\_SIR\_LRM\_1B\_20200108T122024\_20200108T122026\_D001 CS OFFL SIR LRM 1B 20200108T122031 20200108T122103 D001 CS OFFL SIR LRM 1B 20200108T124225 20200108T125041 D001 CS\_OFFL\_SIR\_LRM\_1B\_20200108T125255\_20200108T130800\_D001 CS OFFL SIR LRM 1B 20200108T133153 20200108T133829 D001 CS OFFL SIR LRM 1B 20200108T134009 20200108T135507 D001 CS OFFL SIR LRM 1B 20200108T135510 20200108T135513 D001 CS\_OFFL\_SIR\_LRM\_1B\_20200108T135517\_20200108T135520\_D001 CS\_OFFL\_SIR\_LRM\_1B\_20200108T135523\_20200108T135536\_D001 CS\_OFFL\_SIR\_LRM\_1B\_20200108T135540\_20200108T135548\_D001 CS\_OFFL\_SIR\_LRM\_1B\_20200108T135639\_20200108T140053\_D001 CS OFFL SIR LRM 1B 20200108T140131 20200108T140156 D001 CS OFFL SIR LRM 1B 20200108T141508 20200108T141550 D001 CS OFFL SIR LRM 1B 20200108T141700 20200108T141712 D001 CS OFFL SIR LRM 1B 20200108T141815 20200108T142049 D001 CS\_OFFL\_SIR\_LRM\_1B\_20200108T142531\_20200108T142841\_D001 CS OFFL SIR LRM 1B 20200108T142844 20200108T142912 D001 CS\_OFFL\_SIR\_LRM\_1B\_20200108T142915\_20200108T142918\_D001 CS\_OFFL\_SIR\_LRM\_1B\_20200108T142922\_20200108T142938\_D001 CS\_OFFL\_SIR\_LRM\_1B\_20200108T142941\_20200108T143020\_D001 CS OFFL SIR LRM 1B 20200108T145222 20200108T150055 D001 CS\_OFFL\_SIR\_LRM\_1B\_20200108T153101\_20200108T153146\_D001 CS\_OFFL\_SIR\_LRM\_1B\_20200108T153302\_20200108T153319\_D001 CS\_OFFL\_SIR\_LRM\_1B\_20200108T153321\_20200108T153323\_D001 CS\_OFFL\_SIR\_LRM\_1B\_20200108T153403\_20200108T153430\_D001 CS\_OFFL\_SIR\_LRM\_1B\_20200108T153433\_20200108T153934\_D001 CS OFFL SIR LRM 1B 20200108T155145 20200108T155232 D001 CS OFFL SIR LRM 1B 20200108T155428 20200108T160309 D001 CS\_OFFL\_SIR\_LRM\_1B\_20200108T160314\_20200108T160403\_D001 CS\_OFFL\_SIR\_LRM\_1B\_20200108T160406\_20200108T162857\_D001 CS OFFL SIR LRM 1B 20200108T163420 20200108T163859 D001 CS\_OFFL\_SIR\_LRM\_1B\_20200108T164718\_20200108T170823\_D001 CS\_OFFL\_SIR\_LRM\_1B\_20200108T170923\_20200108T171129\_D001 CS\_OFFL\_SIR\_LRM\_1B\_20200108T171235\_20200108T171749\_D001 CS\_OFFL\_SIR\_LRM\_1B\_20200108T182106\_20200108T184244\_D001 CS OFFL SIR LRM 1B 20200108T184250 20200108T184256 D001 CS OFFL SIR LRM 1B 20200108T184259 20200108T185004 D001 CS OFFL SIR LRM 1B 20200108T185209 20200108T185317 D001 CS OFFL SIR LRM 1B 20200108T185727 20200108T185812 D001 CS OFFL SIR LRM 1B 20200108T200839 20200108T201240 D001 CS\_OFFL\_SIR\_LRM\_1B\_20200108T201346\_20200108T201703\_D001 CS\_OFFL\_SIR\_LRM\_1B\_20200108T201750\_20200108T202020\_D001 CS OFFL SIR LRM 1B 20200108T202534 20200108T202701 D001 CS\_OFFL\_SIR\_LRM\_1B\_20200108T203116\_20200108T203126\_D001

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

Loss of echo

4.6 L1B Auxilary Data File Usage Check				
Each product is checked for missing Data Set Descriptors with respect to a pre-det Number of products with errors: 0	ermined baseline and also to check the vali	dity of Auxiliary Data Files is correct.		
4.7 L1B Auxiliary Correction Error Check				
CryoSat L1B data includes a correction error flag (field 54) for each measurement r Number of products with errors: 0	ecord. The bit value of this flag indicates ar	ly problems when set.		
4.8 L1B Measurement Confidence Data Check				
CryoSat L1B data includes a measurement confidence flag (field 18) for each meas	surement 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 produc below, followed by a table of any additional issues arising from this test.	cts 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	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, ind	icating that the ADC correction application	is deactivated, but this is in line with the current configuration.		
Number of products with errors: 1				
Product	Test Failed	Description		
CS_OFFL_SIR_LRM_1B_20200108T203136_20200108T203244_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 ensu	re 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-det Number of products with errors: 0	ermined baseline and also to check the vali	dity of Auxiliary Data Files is correct.		
5.4 L2 Auxiliary Correction Error Check				
CryoSat L2 data includes a correction error flag (field 30) for each measurement re	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 reco	rd. The bit value of this flag indicates any p	roblems when set.		
Currently, there are several common error flags raised in the Level 2 product 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 discr				
Height and Backscatter errors: These flags are currently set for products over lar this is to be expected.	nd, but this is to be expected. Retracker 1 H	leight and Backscatter error flags are also set for products over sea-ice, but		
Peakiness error: This flag is currently set for products over sea-ice, but this is to be SARIN X-Track Angle Error: This flag is set when the difference between the com result this flag is set for L2 SARIn products in all other locations as expected.	•	0 m. The DEM is only available over Greenland and Antarctica and as a		
SSHA interpolation error: This flag is currently set for a number of SAR products	occurring at surface type boundaries, but the	nis is to be expected.		
Number of products with errors: 57				
Product	Test Failed	Description		
CS_OFFL_SIR_LRM_220200108T001340_20200108T002602_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_220200108T002759_20200108T003630_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_220200108T003758_20200108T004127_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_220200108T010732_20200108T011703_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_220200108T011905_20200108T012624_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_220200108T012736_20200108T013420_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_20200108T020056_20200108T020127_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records		
CS_OFFL_SIR_LRM_2_20200108T020906_20200108T021542_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_2_20200108T021712_20200108T022026_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_20200108T024550_20200108T024650_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records		

CS_OFFL_SIR_LRM_220200108T025717_20200108T031329_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_220200108T032707_20200108T040146_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_220200108T042650_20200108T045309_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_220200108T050606_20200108T053336_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_220200108T053537_20200108T053827_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_220200108T060213_20200108T061134_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_220200108T061137_20200108T063247_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_220200108T064637_20200108T072029_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_220200108T073324_20200108T073516_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_220200108T082521_20200108T084742_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_220200108T085028_20200108T085945_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_220200108T093144_20200108T093633_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_220200108T093821_20200108T095138_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_220200108T100447_20200108T101046_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_220200108T101056_20200108T101624_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_220200108T101650_20200108T103648_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_220200108T110313_20200108T112610_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_220200108T114414_20200108T115050_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_220200108T115127_20200108T120037_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_220200108T120040_20200108T120201_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_220200108T120641_20200108T121352_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_220200108T124225_20200108T125041_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_220200108T125255_20200108T130800_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_220200108T132331_20200108T133033_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_220200108T133153_20200108T133829_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_220200108T134009_20200108T135507_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_220200108T141508_20200108T141550_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220200108T141815_20200108T142049_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_220200108T142140_20200108T142408_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_220200108T142531_20200108T142841_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_220200108T143354_20200108T144932_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_220200108T150311_20200108T152557_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_220200108T155145_20200108T155232_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_220200108T160406_20200108T162857_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_220200108T164718_20200108T170823_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_220200108T174041_20200108T180652_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_220200108T182106_20200108T184244_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_220200108T184259_20200108T185004_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_220200108T185727_20200108T185812_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_220200108T191208_20200108T194639_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_2_20200108T205210_20200108T210044_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_220200108T210330_20200108T212543_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_220200108T213901_20200108T215205_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_20200108T215353_20200108T220004_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_220200108T220145_20200108T220626_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_220200108T223125_20200108T230439_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_220200108T232244_20200108T235323_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records