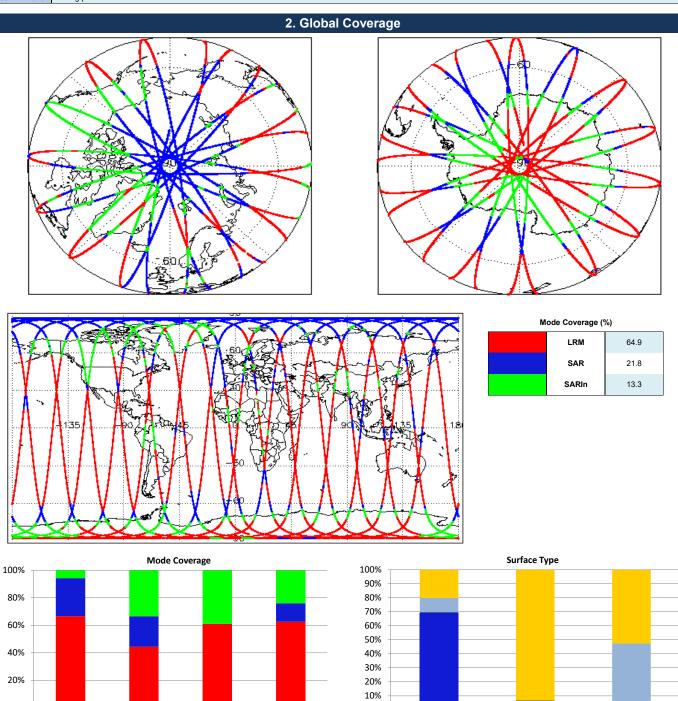


QA4EO Daily Report for OFFLINE data:

<u>02/12/2019</u>

1. Overview				
Report Production Date:	03-Jan-2020	Check	Status	
•		Server check: science-pds.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 Check	Nominal	
		Product Header Analysis	See Section 4.2	
		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	See Section 4.6, 5.3 and 6.3	
		L1B & L2 Auxiliary Correction Error Check	Nominal	
		L1B & L2 Measurement Confidence Data Check	See Section 4.8 and 5.5	

Mission / Instrument News			
01-Dec-2019	None		
02-Dec-2019	None		
03-Dec-2019	Nothing planned		



3. Instrument Configuration

LAND

SARIN

0%

LRM SAR SARIN LAND CONTINENTAL_ICE CLOSED_SEA OPEN_OCEAN

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

LRM

CLOSED_SEA

OPEN_OCEAN

0%

SIRAL - A

CONTINENTAL_ICE

SAR

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:
 1

 Product
 Test Failed

 CS_OFFL_SIR_SAR_1B_20191202T135057_20191202T135057_D001
 Percentage of processing errors detected greater than minimum acceptable threshold.

4.3 Star Tracker Usage Check	

Each product is checked in order to ensure a valid star tracker file has been used in processing. Number of products with errors: 0

0

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.

Number of	products v	with errors:

106

Product	Test Failed	Description
S_OFFL_SIR_LRM_1B_20191202T005333_20191202T005349_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20191202T005357_20191202T005402_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20191202T005405_20191202T005417_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20191202T005421_20191202T005429_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20191202T005431_20191202T005444_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20191202T005819_20191202T011228_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20191202T011628_20191202T012319_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20191202T012342_20191202T012947_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20191202T014814_20191202T020032_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20191202T020035_20191202T020041_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20191202T023226_20191202T023252_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20191202T023255_20191202T023315_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20191202T023322_20191202T023324_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20191202T023327_20191202T023331_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20191202T023333_20191202T023359_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20191202T023405_20191202T023521_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20191202T023527_20191202T023527_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20191202T023530_20191202T023601_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20191202T023717_20191202T023728_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20191202T023730_20191202T023745_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20191202T023748_20191202T023820_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20191202T025342_20191202T030843_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20191202T032452_20191202T033005_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20191202T033022_20191202T033645_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20191202T034229_20191202T035402_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20191202T035412_20191202T035505_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20191202T041105_20191202T041547_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20191202T041633_20191202T041720_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20191202T041722_20191202T041723_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20191202T041728_20191202T042303_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20191202T042327_20191202T042446_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20191202T045556_20191202T045711_D001	Loss of echo	The tracking echo is missing for one or more records
S OFFL SIR LRM 1B 20191202T050207 20191202T052017 D001	Loss of echo	The tracking echo is missing for one or more records
S OFFL SIR LRM 1B 20191202T052020 20191202T052839 D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20191202T053102_20191202T053625_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 20191202T055034 20191202T055704 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_20191202T055903_20191202T0559595_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 20191202T073058 20191202T074031 D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20191202T074034_20191202T080606_D001	Loss of echo	The tracking echo is missing for one or more records
S OFFL SIR LRM 1B 20191202T081352 20191202T081721 D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20191202T090754_20191202T090958_D001	Loss of echo	The tracking echo is missing for one or more records
S OFFL SIR LRM 1B 20191202T091155 20191202T091412 D001	Loss of echo	The tracking echo is missing for one or more records

CS OFFL SIR LRM 1B 20191202T091446 20191202T091535 D001 CS OFFL SIR LRM 1B 20191202T091721 20191202T091825 D001 CS_OFFL_SIR_LRM_1B_20191202T092019_20191202T092904_D001 CS OFFL SIR LRM 1B 20191202T092958 20191202T093748 D001 CS OFFL SIR LRM 1B 20191202T094849 20191202T095415 D001 CS_OFFL_SIR_LRM_1B_20191202T105407_20191202T105450_D001 CS OFFL SIR LRM 1B 20191202T105741 20191202T110318 D001 CS_OFFL_SIR_LRM_1B_20191202T112813_20191202T113312_D001 CS OFFL SIR LRM 1B 20191202T113943 20191202T121305 D001 CS OFFL SIR LRM 1B 20191202T121509 20191202T121529 D001 CS_OFFL_SIR_LRM_1B_20191202T121532_20191202T121533_D001 CS_OFFL_SIR_LRM_1B_20191202T121536_20191202T121622_D001 CS OFFL SIR LRM 1B 20191202T131025 20191202T131217 D001 CS_OFFL_SIR_LRM_1B_20191202T131927_20191202T132630_D001 CS_OFFL_SIR_LRM_1B_20191202T132633_20191202T133501_D001 CS OFFL SIR LRM 1B 20191202T133503 20191202T133640 D001 CS_OFFL_SIR_LRM_1B_20191202T134122_20191202T134949_D001 CS_OFFL_SIR_LRM_1B_20191202T134952_20191202T135010_D001 CS OFFL SIR LRM 1B 20191202T135254 20191202T135308 D001 CS OFFL SIR LRM 1B 20191202T135313 20191202T135317 D001 CS_OFFL_SIR_LRM_1B_20191202T135320_20191202T135331_D001 CS OFFL SIR LRM 1B 20191202T135334 20191202T135340 D001 CS OFFL SIR LRM 1B 20191202T135343 20191202T135447 D001 CS_OFFL_SIR_LRM_1B_20191202T135450_20191202T135458_D001 CS_OFFL_SIR_LRM_1B_20191202T135503_20191202T135512_D001 CS_OFFL_SIR_LRM_1B_20191202T135515_20191202T135550_D001 CS OFFL SIR LRM 1B 20191202T142736 20191202T144214 D001 CS_OFFL_SIR_LRM_1B_20191202T144919_20191202T145128_D001 CS OFFL SIR LRM 1B 20191202T145823 20191202T151344 D001 CS_OFFL_SIR_LRM_1B_20191202T151544_20191202T152506_D001 CS OFFL SIR LRM 1B 20191202T152621 20191202T153030 D001 CS OFFL SIR LRM 1B 20191202T153035 20191202T153050 D001 CS_OFFL_SIR_LRM_1B_20191202T153053_20191202T153148_D001 CS_OFFL_SIR_LRM_1B_20191202T153150_20191202T153536_D001 CS OFFL SIR LRM 1B 20191202T155235 20191202T160436 D001 CS_OFFL_SIR_LRM_1B_20191202T160940_20191202T162349_D001 CS_OFFL_SIR_LRM_1B_20191202T170139_20191202T170214_D001 CS OFFL SIR LRM 1B 20191202T170604 20191202T170639 D001 CS_OFFL_SIR_LRM_1B_20191202T170735_20191202T170809_D001 CS_OFFL_SIR_LRM_1B_20191202T170817_20191202T170845_D001 CS OFFL SIR LRM 1B 20191202T170848 20191202T171429 D001 CS_OFFL_SIR_LRM_1B_20191202T172936_20191202T173510_D001 CS_OFFL_SIR_LRM_1B_20191202T173634_20191202T180251_D001 CS OFFL SIR LRM 1B 20191202T180854 20191202T181354 D001 CS OFFL SIR LRM 1B 20191202T181720 20191202T184223 D001 CS_OFFL_SIR_LRM_1B_20191202T184418_20191202T185243_D001 CS_OFFL_SIR_LRM_1B_20191202T191404_20191202T191502_D001 CS_OFFL_SIR_LRM_1B_20191202T195636_20191202T202444_D001 CS_OFFL_SIR_LRM_1B_20191202T202544_20191202T202630_D001 CS_OFFL_SIR_LRM_1B_20191202T202639_20191202T202800_D001 CS_OFFL_SIR_LRM_1B_20191202T202833_20191202T203024_D001 CS_OFFL_SIR_LRM_1B_20191202T203210_20191202T203414_D001 CS OFFL SIR LRM 1B 20191202T212724 20191202T213247 D001 CS OFFL SIR LRM 1B 20191202T214331 20191202T214702 D001 CS OFFL SIR LRM 1B 20191202T214825 20191202T215309 D001 CS_OFFL_SIR_LRM_1B_20191202T215330_20191202T215556_D001 CS OFFL SIR LRM 1B 20191202T215645 20191202T215830 D001 CS_OFFL_SIR_LRM_1B_20191202T220500_20191202T220539_D001 CS_OFFL_SIR_LRM_1B_20191202T220649_20191202T220724_D001 CS_OFFL_SIR_LRM_1B_20191202T220947_20191202T221001_D001 CS_OFFL_SIR_LRM_1B_20191202T233640_20191202T234106_D001

Loss of echo Loss of echo Loss of echo Loss of echo oss of echo Loss of echo oss of echo Loss of echo 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_220191202T000710_20191202T002640_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_220191202T002711_20191202T004058_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_220191202T005819_20191202T011228_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_220191202T011628_20191202T012319_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_220191202T012342_20191202T012947_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_220191202T014814_20191202T020032_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_220191202T020154_20191202T021843_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_220191202T023333_20191202T023359_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220191202T024110_20191202T025139_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_220191202T025342_20191202T030843_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_220191202T032452_20191202T033005_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_220191202T033022_20191202T033645_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_220191202T034229_20191202T035402_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_20191202T035629_20191202T035724_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220191202T043302_20191202T044801_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_220191202T050207_20191202T052017_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_220191202T052020_20191202T052839_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_220191202T060210_20191202T062226_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_220191202T062318_20191202T062712_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_220191202T064133_20191202T070817_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_220191202T074034_20191202T080606_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_220191202T082209_20191202T085524_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_220191202T090754_20191202T090958_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_20191202T091721_20191202T091825_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_220191202T100052_20191202T102220_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_220191202T102507_20191202T103432_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_220191202T104650_20191202T104948_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_220191202T110619_20191202T112322_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_220191202T113943_20191202T121305_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_220191202T123757_20191202T130050_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_220191202T131927_20191202T132630_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_220191202T132633_20191202T133501_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_220191202T133503_20191202T133640_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_220191202T134122_20191202T134949_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_220191202T140907_20191202T142522_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_220191202T142736_20191202T144214_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_220191202T145823_20191202T151344_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_220191202T151544_20191202T152506_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_220191202T155235_20191202T160436_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_20191202T160940_20191202T162349_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_220191202T163811_20191202T165448_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_20191202T165703_20191202T165915_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_220191202T170817_20191202T170845_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_2_20191202T170848_20191202T171429_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220191202T173634_20191202T180251_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_20191202T181720_20191202T184223_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_20191202T191404_20191202T191502_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

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CS_OFFL_SIR_LRM_220191202T191523_20191202T194048_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_220191202T195636_20191202T202444_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_220191202T203210_20191202T203414_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_220191202T204716_20191202T212022_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_220191202T220500_20191202T220539_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_220191202T222642_20191202T223527_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_220191202T223812_20191202T230004_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_220191202T231626_20191202T232645_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_220191202T232833_20191202T233315_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records