

# QA4EO Daily Report for OFFLINE data:

26/08/2021

		1. Overview	
	04.0 - 0004	Check	Status
port Production Date:	24-Sep-2021	Server check: science-pds.cryosat.esa.int	Nominal
Processor Llood	ChuoSat loo Broossor	Server check: calval-pds.cryosat.esa.int	Nominal
Processor Used:	CryoSat Ice Processor	Product Software Check	Nominal
Data Used:	L1B and L2 OFFLINE Data	Product Format Check	Nominal
Data OSCU.	ETD and EZ OFF LINE Data	Product Header Analysis	See Section 5.2
		Star Tracker Usage Check	Nominal
		L1B Tracking Flag Check	See Section 4.4
		L1B Calibration Usage Check	Nominal
		L1B & L2 Auxiliary Data File Usage Check	See Section 4.6, 5.3 and 6.3 Nominal
		L1B & L2 Auxiliary Correction Error Check L1B & L2 Measurement Confidence Data Check	See Section 4.8 and 5.5
		QCC Errors/ Warnings	See Section 4.5 and 5.5 See Section 6.1, 6.2 and 6.3
ug-2021 Nothing planned		2. Global Coverage	
			LRM67.4SAR19.9SARin12.7
	Mada Causara	100%	Surface Type
1%	Mode Coverage	200/0	
0%		90%	
9%		90%	
)% )%		90% 80% 70%	
1%		90% 80% 70% 60%	
1% 1% 1% 1%		90% 80% 70% 60% 50%	
1% 1% 1% 1%		90% 80% 70% 60%	
1%		90% 80% 70% 60% 50%	
1%		90% 80% 70% 60% 50% 40% 30%	
%		90% 80% 70% 60% 50% 40% 30% 20%	
%		90% 80% 70% 60% 50% 40% 30%	

### 3. Instrument Configuration

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

SIRAL - A

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97

SIRAL instrument(s) in use:

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.

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.

#### Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_LRM_1B_20210826T003159_20210826T003822_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210826T003915_20210826T004114_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210826T004117_20210826T004119_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210826T004121_20210826T010729_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210826T011550_20210826T011924_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210826T012432_20210826T015659_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210826T021118_20210826T021212_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210826T021434_20210826T021824_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210826T021841_20210826T021857_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210826T021859_20210826T021915_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210826T022500_20210826T022953_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210826T023012_20210826T023458_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210826T023604_20210826T023818_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210826T032712_20210826T033845_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210826T035624_20210826T035738_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210826T035743_20210826T035801_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210826T035811_20210826T035848_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210826T040003_20210826T040503_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210826T043154_20210826T043515_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210826T044237_20210826T044709_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210826T044719_20210826T050942_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210826T051012_20210826T051900_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210826T061228_20210826T061422_E002	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210826T062746_20210826T063452_E002	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210826T063635_20210826T063734_E002	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210826T063736_20210826T063746_E002	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210826T063748_20210826T063846_E002	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210826T064159_20210826T064921_E002	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210826T065200_20210826T065749_E002	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210826T072943_20210826T073242_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210826T073348_20210826T074405_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210826T075114_20210826T075339_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210826T081654_20210826T083218_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210826T083251_20210826T083324_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210826T083326_20210826T083423_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210826T083425_20210826T083758_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210826T085026_20210826T085225_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210826T085348_20210826T085701_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210826T090220_20210826T090707_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210826T100312_20210826T100346_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210826T100732_20210826T100828_E001	Loss of echo	The tracking echo is missing for one or more records

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CS_OFFL_SIR_LRM_1B_20210826T100956_20210826T101319_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210826T101509_20210826T101613_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210826T102836_20210826T102937_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210826T103059_20210826T110436_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210826T112036_20210826T114409_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210826T114411_20210826T114517_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210826T114522_20210826T114522_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210826T114524_20210826T114541_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210826T114544_20210826T114608_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210826T114610_20210826T114615_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210826T114618_20210826T114640_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210826T114643_20210826T114819_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210826T114925_20210826T115228_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210826T115228_20210826T115601_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210826T121340_20210826T121533_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210826T125930_20210826T131849_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210826T131915_20210826T132146_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210826T132150_20210826T132324_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210826T132327_20210826T132443_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210826T132554_20210826T132601_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210826T132604_20210826T132644_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210826T132648_20210826T132706_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210826T132850_20210826T132945_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210826T132945_20210826T133006_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210826T133040_20210826T133209_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210826T133410_20210826T133500_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210826T133522_20210826T133654_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210826T144807_20210826T144839_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210826T144843_20210826T145331_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210826T145358_20210826T145711_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210826T145723_20210826T150041_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210826T150225_20210826T150413_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210826T154024_20210826T160130_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210826T163044_20210826T163802_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210826T163844_20210826T164319_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210826T170526_20210826T174025_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210826T174853_20210826T175135_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210826T175935_20210826T181206_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210826T184346_20210826T185012_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210826T185047_20210826T190257_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210826T190501_20210826T191949_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210826T193700_20210826T194713_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210826T194820_20210826T195041_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210826T195333_20210826T200941_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210826T202240_20210826T203614_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210826T211443_20210826T215012_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210826T220114_20210826T220859_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210826T221011_20210826T221101_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210826T221501_20210826T223621_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210826T224624_20210826T224952_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210826T225316_20210826T232023_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210826T232026_20210826T232103_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210826T232107_20210826T232122_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210826T232126_20210826T232131_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210826T234340_20210826T235103_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210826T235106_20210827T001652_E001	Loss of echo	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.

0

Number of products with errors:

### 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. 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.

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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:

Product	Test Failed	Description
CS_OFFL_SIR_LRM_1B_20210826T072943_20210826T073242_E001	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_20210826T103059_20210826T110436_E001	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_20210826T234340_20210826T235103_E001	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. Level 2 Data Quality Ch	eck

#### 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:

#### 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_220210825T234359_20210826T001054_E001	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_220210826T001219_20210826T001538_E001	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_220210826T003159_20210826T003822_E001	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_220210826T004121_20210826T010729_E001	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_220210826T012432_20210826T015659_E001	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_220210826T020845_20210826T021108_E001	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_220210826T021118_20210826T021212_E001	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_220210826T030319_20210826T032426_E001	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_220210826T032712_20210826T033845_E001	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_220210826T034815_20210826T035247_E001	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_220210826T044237_20210826T044709_E001	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_220210826T044719_20210826T050942_E001	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_220210826T051012_20210826T051900_E001	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_220210826T053901_20210826T060254_E002	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_220210826T062158_20210826T062652_E002	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_220210826T062746_20210826T063452_E002	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_220210826T063635_20210826T063734_E002	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_220210826T063748_20210826T063846_E002	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_220210826T064159_20210826T064921_E002	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_220210826T065200_20210826T065749_E002	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220210826T071151_20210826T072535_E001	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_220210826T073348_20210826T074405_E001	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_220210826T080739_20210826T081515_E001	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_220210826T081654_20210826T083218_E001	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_220210826T085026_20210826T085225_E001	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_220210826T085348_20210826T085701_E001	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_220210826T085819_20210826T090057_E001	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_220210826T090220_20210826T090707_E001	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_220210826T090939_20210826T092500_E001	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_220210826T094104_20210826T100228_E001	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_220210826T103059_20210826T110436_E001	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_220210826T112036_20210826T114409_E001	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_220210826T115228_20210826T115601_E001	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_220210826T115634_20210826T115809_E001	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_220210826T121340_20210826T121533_E001	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_220210826T121658_20210826T124244_E001	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_220210826T125930_20210826T131849_E001	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_220210826T132150_20210826T132324_E001	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_220210826T133522_20210826T133654_E001	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_220210826T134847_20210826T142212_E001	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_220210826T151216_20210826T151632_E001	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_220210826T152459_20210826T153738_E001	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_220210826T154024_20210826T160130_E001	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_220210826T161858_20210826T162856_E001	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_220210826T163044_20210826T163802_E001	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_220210826T163844_20210826T164319_E001	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_220210826T170526_20210826T174025_E001	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_220210826T175935_20210826T181206_E001	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_220210826T181210_20210826T182947_E001	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_220210826T184346_20210826T185012_E001	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_220210826T185047_20210826T190257_E001	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_220210826T190501_20210826T191949_E001	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_220210826T193700_20210826T194713_E001	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_220210826T195333_20210826T200941_E001	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_220210826T204039_20210826T204201_E001	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_220210826T204501_20210826T205822_E001	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_220210826T211443_20210826T215012_E001	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_220210826T220114_20210826T220859_E001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220210826T221501_20210826T223621_E001	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_220210826T225316_20210826T232023_E001	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_220210826T235106_20210827T001652_E001	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_SAR_220210826T001054_20210826T001219_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and Retracker3 for one or more records
CS_OFFL_SIR_SAR_220210826T002112_20210826T002851_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and Retracker3 for one or more records
CS_OFFL_SIR_SAR_220210826T002911_20210826T003006_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and Retracker3 for one or more records
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CS_OFFL_SIR_SAR_220210826T003117_20210826T003135_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and Retracker3 for one or more records
CS_OFFL_SIR_SAR_220210826T010729_20210826T010950_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and Retracker3 for one or more records
CS_OFFL_SIR_SAR_220210826T012038_20210826T012431_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and Retracker3 for one or more records
CS_OFFL_SIR_SAR_220210826T020045_20210826T020709_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and Retracker3 for one or more records
CS_OFFL_SIR_SAR_220210826T020709_20210826T020845_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and Retracker3 for one or more records
CS_OFFL_SIR_SAR_220210826T021405_20210826T021434_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and Retracker3 for one or more records
CS_OFFL_SIR_SAR_220210826T022121_20210826T022152_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and Retracker3 for one or more records
CS_OFFL_SIR_SAR_220210826T023819_20210826T024039_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and Retracker3 for one or more records
CS_OFFL_SIR_SAR_220210826T024512_20210826T024929_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and Retracker3 for one or more records
CS_OFFL_SIR_SAR_220210826T025922_20210826T030319_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and Retracker3 for one or more records
CS_OFFL_SIR_SAR_220210826T032426_20210826T032712_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and Retracker3 for one or more records
CS_OFFL_SIR_SAR_220210826T033846_20210826T034609_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and Retracker3 for one or more records
CS_OFFL_SIR_SAR_220210826T034609_20210826T034748_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and Retracker3 for one or more records
CS_OFFL_SIR_SAR_220210826T035247_20210826T035624_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and Retracker3 for one or more records
CS_OFFL_SIR_SAR_220210826T035849_20210826T040003_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and Retracker3 for one or more records
CS_OFFL_SIR_SAR_220210826T041319_20210826T041506_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and Retracker3 for one or more records
CS_OFFL_SIR_SAR_220210826T042516_20210826T042913_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and Retracker3 for one or more records
CS_OFFL_SIR_SAR_220210826T043850_20210826T044237_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and Retracker3 for one or more records
CS_OFFL_SIR_SAR_220210826T050942_20210826T051012_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and Retracker3 for one or more records
CS_OFFL_SIR_SAR_220210826T051900_20210826T052007_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and Retracker3 for one or more records
CS_OFFL_SIR_SAR_220210826T052020_20210826T052507_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and Retracker3 for one or more records
CS_OFFL_SIR_SAR_220210826T052507_20210826T052630_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and Retracker3 for one or more records
CS_OFFL_SIR_SAR_220210826T052700_20210826T052753_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and Retracker3 for one or more records
CS_OFFL_SIR_SAR_220210826T052838_20210826T053039_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and Retracker3 for one or more records
CS_OFFL_SIR_SAR_220210826T053838_20210826T053901_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and Retracker3 for one or more records
CS_OFFL_SIR_SAR_220210826T060254_20210826T060954_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and Retracker3 for one or more records
CS_OFFL_SIR_SAR_220210826T062047_20210826T062158_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and Retracker3 for one or more records
CS_OFFL_SIR_SAR_220210826T062652_20210826T062746_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and Retracker3 for one or more records
CS_OFFL_SIR_SAR_220210826T063453_20210826T063554_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and Retracker3 for one or more records
CS_OFFL_SIR_SAR_220210826T063554_20210826T063635_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and Retracker3 for one or more records
CS_OFFL_SIR_SAR_220210826T063846_20210826T064159_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and Retracker3 for one or more records

CS_OFFL_SIR_SAR_220210826T064921_20210826T065019_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and Retracker3 for one or more records
CS_OFFL_SIR_SAR_220210826T065750_20210826T070503_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and Retracker3 for one or more records
CS_OFFL_SIR_SAR_220210826T072535_20210826T072942_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and Retracker3 for one or more records
CS_OFFL_SIR_SAR_220210826T074405_20210826T074527_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and Retracker3 for one or more records
CS_OFFL_SIR_SAR_220210826T080010_20210826T080120_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and Retracker3 for one or more records
CS_OFFL_SIR_SAR_220210826T080722_20210826T080739_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and Retracker3 for one or more records
CS_OFFL_SIR_SAR_220210826T081515_20210826T081654_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and Retracker3 for one or more records
CS_OFFL_SIR_SAR_220210826T083833_20210826T083933_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and Retracker3 for one or more records
CS_OFFL_SIR_SAR_220210826T084030_20210826T084435_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and Retracker3 for one or more records
CS_OFFL_SIR_SAR_220210826T084646_20210826T084756_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and Retracker3 for one or more records
CS_OFFL_SIR_SAR_220210826T085701_20210826T085818_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and Retracker3 for one or more records
CS_OFFL_SIR_SAR_220210826T092500_20210826T092719_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and Retracker3 for one or more records
CS_OFFL_SIR_SAR_220210826T093952_20210826T094104_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and Retracker3 for one or more records
CS_OFFL_SIR_SAR_220210826T100229_20210826T100312_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and Retracker3 for one or more records
CS_OFFL_SIR_SAR_220210826T101613_20210826T102349_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and Retracker3 for one or more records
CS_OFFL_SIR_SAR_220210826T110436_20210826T110655_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and Retracker3 for one or more records
CS_OFFL_SIR_SAR_220210826T111758_20210826T112036_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and Retracker3 for one or more records
CS_OFFL_SIR_SAR_220210826T115809_20210826T115833_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and Retracker3 for one or more records
CS_OFFL_SIR_SAR_220210826T115849_20210826T120418_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and Retracker3 for one or more records
CS_OFFL_SIR_SAR_220210826T121533_20210826T121658_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and Retracker3 for one or more records
CS_OFFL_SIR_SAR_220210826T124244_20210826T124631_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and Retracker3 for one or more records
CS_OFFL_SIR_SAR_220210826T125743_20210826T125929_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and Retracker3 for one or more records
CS_OFFL_SIR_SAR_220210826T132443_20210826T132554_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and Retracker3 for one or more records
CS_OFFL_SIR_SAR_220210826T132706_20210826T132850_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and Retracker3 for one or more records
CS_OFFL_SIR_SAR_220210826T133654_20210826T133707_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and Retracker3 for one or more records
CS_OFFL_SIR_SAR_220210826T133725_20210826T133732_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and Retracker3 for one or more records
CS_OFFL_SIR_SAR_220210826T133759_20210826T134551_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and Retracker3 for one or more records
CS_OFFL_SIR_SAR_220210826T142212_20210826T142619_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and Retracker3 for one or more records
CS_OFFL_SIR_SAR_220210826T143558_20210826T144130_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and Retracker3 for one or more records
CS_OFFL_SIR_SAR_220210826T144410_20210826T144807_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and Retracker3 for one or more records
CS_OFFL_SIR_SAR_220210826T150413_20210826T150431_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and Retracker3 for one or more records
CS_OFFL_SIR_SAR_220210826T150510_20210826T150711_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and Retracker3 for one or more records
CS_OFFL_SIR_SAR_220210826T150918_20210826T151055_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and Retracker3 for one or more records
CS_OFFL_SIR_SAR_220210826T151632_20210826T152459_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and Retracker3 for one or more records

CS_OFFL_SIR_SAR_220210826T153738_20210826T154024_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and Retracker3 for one or more records
CS_OFFL_SIR_SAR_220210826T160130_20210826T160358_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and Retracker3 for one or more records
CS_OFFL_SIR_SAR_220210826T161514_20210826T161858_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and Retracker3 for one or more records
CS_OFFL_SIR_SAR_220210826T162857_20210826T163044_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and Retracker3 for one or more records
CS_OFFL_SIR_SAR_220210826T164319_20210826T165035_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and Retracker3 for one or more records
CS_OFFL_SIR_SAR_220210826T165036_20210826T165140_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and Retracker3 for one or more records
CS_OFFL_SIR_SAR_220210826T165253_20210826T165325_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and Retracker3 for one or more records
CS_OFFL_SIR_SAR_220210826T165729_20210826T170526_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and Retracker3 for one or more records
CS_OFFL_SIR_SAR_220210826T174025_20210826T174144_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and Retracker3 for one or more records
CS_OFFL_SIR_SAR_220210826T175320_20210826T175935_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and Retracker3 for one or more records
CS_OFFL_SIR_SAR_220210826T181206_20210826T181210_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and Retracker3 for one or more records
CS_OFFL_SIR_SAR_220210826T183626_20210826T184207_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and Retracker3 for one or more records
CS_OFFL_SIR_SAR_220210826T184256_20210826T184346_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and Retracker3 for one or more records
CS_OFFL_SIR_SAR_220210826T190257_20210826T190501_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and Retracker3 for one or more records
CS_OFFL_SIR_SAR_220210826T191949_20210826T192049_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and Retracker3 for one or more records
CS_OFFL_SIR_SAR_220210826T193154_20210826T193659_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and Retracker3 for one or more records
CS_OFFL_SIR_SAR_220210826T201238_20210826T201328_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and Retracker3 for one or more records
CS_OFFL_SIR_SAR_220210826T201541_20210826T202240_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and Retracker3 for one or more records
CS_OFFL_SIR_SAR_220210826T203614_20210826T204039_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and Retracker3 for one or more records
CS_OFFL_SIR_SAR_220210826T204202_20210826T204500_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and Retracker3 for one or more records
CS_OFFL_SIR_SAR_220210826T205822_20210826T205947_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and Retracker3 for one or more records
CS_OFFL_SIR_SAR_220210826T211308_20210826T211442_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and Retracker3 for one or more records
CS_OFFL_SIR_SAR_220210826T215405_20210826T215922_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and Retracker3 for one or more records
CS_OFFL_SIR_SAR_220210826T215955_20210826T220114_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and Retracker3 for one or more records
CS_OFFL_SIR_SAR_220210826T223622_20210826T223635_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and Retracker3 for one or more records
CS_OFFL_SIR_SAR_220210826T223708_20210826T224000_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and Retracker3 for one or more records
CS_OFFL_SIR_SAR_220210826T225136_20210826T225316_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and Retracker3 for one or more records
CS_OFFL_SIR_SAR_220210826T233212_20210826T234221_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and Retracker3 for one or more records
CS_OFFL_SIR_SIN_220210826T001539_20210826T002112_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X- track Angle Error, Surface model Backscitatiler Error (Retracker 2),	There is a backscatter error for Retracker 2 and Retracker 3, an ambiguous angle was detected for SARIn mode, and no DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_SIN_220210826T002851_20210826T002910_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X- track Angle Error, Surface model BackScatter Error (Retracker 2),	There is a backscatter error for Retracker 2 and Retracker 3, an ambiguous angle was detected for SARIn mode, and no DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_SIN_220210826T003024_20210826T003116_E001	Backscatter Error (Ketracker 2), Backscatter Error (Retracker 3), SARIn X- track Angle Error, Surface model BackScatter Error (Ketracker 2),	There is a backscatter error for Retracker 2 and Retracker 3, an ambiguous angle was detected for SARIn mode, and no DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_SIN_220210826T003136_20210826T003159_E001	Backscatter Error (Retracker 3), SARIn X- track Angle Error, Surface model unavailable	There is a backscatter error for Retracker 2 and Retracker 3, an ambiguous angle was detected for SARIn mode, and no DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_SIN_220210826T010951_20210826T011114_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X- track Angle Error	There is a backscatter error for Retracker 2 and Retracker 3, and an ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220210826T011548_20210826T011550_E001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records

CS_OFFL_SIR_SIN_2_20210826T011925_20210826T012038_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X- track Angle Error	There is a backscatter error for Retracker 2 and Retracker 3, and an ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220210826T015659_20210826T015834_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X- track Angle Error, Surface model unavailable	There is a backscatter error for Retracker 2 and Retracker 3, an ambiguous angle was detected for SARIn mode, and no DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_SIN_220210826T015911_20210826T020045_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X- track Angle Error	There is a backscatter error for Retracker 2 and Retracker 3, and an ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220210826T021108_20210826T021118_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and Retracker3 for one or more records
CS_OFFL_SIR_SIN_220210826T021242_20210826T021405_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and Retracker3 for one or more records
CS_OFFL_SIR_SIN_220210826T021915_20210826T022120_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and Retracker3 for one or more records
CS_OFFL_SIR_SIN_220210826T024929_20210826T025054_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X- track Angle Error	There is a backscatter error for Retracker 2 and Retracker 3, and an ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220210826T025614_20210826T025921_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X- track Angle Error	There is a backscatter error for Retracker 2 and Retracker 3, and an ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220210826T034748_20210826T034815_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X- track Angle Error, Surface model unavailable	There is a backscatter error for Retracker 2 and Retracker 3, an ambiguous angle was detected for SARIn mode, and no DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_SIN_220210826T040503_20210826T040834_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and Retracker3 for one or more records
CS_OFFL_SIR_SIN_220210826T042914_20210826T043154_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X- track Angle Error	There is a backscatter error for Retracker 2 and Retracker 3, and an ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220210826T043515_20210826T043850_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X- track Angle Error	There is a backscatter error for Retracker 2 and Retracker 3, and an ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220210826T052007_20210826T052019_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X- track Angle Error, Surface model unavailable	There is a backscatter error for Retracker 2 and Retracker 3, an ambiguous angle was detected for SARIn mode, and no DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_SIN_220210826T052630_20210826T052700_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and Retracker3 for one or more records
CS_OFFL_SIR_SIN_2_20210826T052753_20210826T052838_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and Retracker3 for one or more records
CS_OFFL_SIR_SIN_220210826T053052_20210826T053137_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X- track Angle Error, Surface model unavailable	There is a backscatter error for Retracker 2 and Retracker 3, an ambiguous angle was detected for SARIn mode, and no DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_SIN_220210826T060954_20210826T061228_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X- track Angle Error	There is a backscatter error for Retracker 2 and Retracker 3, and an ambiguous angle was detected for SARIn mode for one or more records

## 6. QCC Report Analysis

The Quality Control for CryoSat (QCC) facility performs a primary survey of data products immediately after production by the PDS and LTA processing facilities. A list of the tests which raised errors or warnings is provided below.

Product type	No. Products	No. QCC Reports	No. Valid	No. Warnings	No. Errors
SIR_LRM_1B	159	0	0	0	0
SIR_SAR_1B	115	0	0	0	0
SIR_SIN_1B	111	0	0	0	0
SIR_LRM_2	159	0	0	0	0
SIR_SAR_2	111	0	0	0	0
SIR_SIN_2	115	0	0	0	0
SIR_GDR_2	15	0	0	0	0

6.1	QCC	Errors	

Number of products with QCC errors:	0	
6.2 QCC Warnings		
Number of QCC reports with warnings	0	
6.2 Missing QCC Reports		
Number of products with missing QCC reports:	0	