

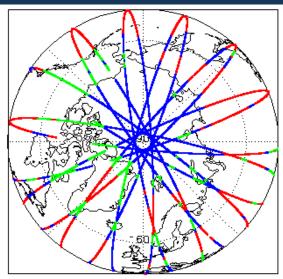
## 1. Overview

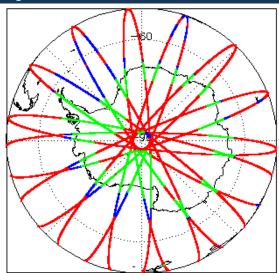
Report Production Date:	03-Apr-2020	
Processor Used:	CryoSat Ice Processor	
Data Used:	L1B and L2 OFFLINE Data	

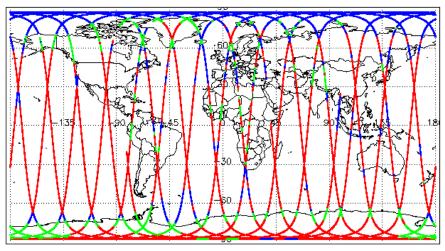
Check	Status
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	Nominal
Star Tracker Usage Check	Nominal
L1B Tracking Flag Check	See Section 4.4
L1B Calibration Usage Check	Nominal
L1B & L2 Auxiliary Data File Usage Check	Nominal
L1B & L2 Auxiliary Correction Error Check	Nominal
L1B & L2 Measurement Confidence Data Check	See Section 4.8 and 5.5

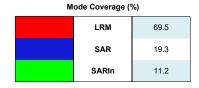
Mission / Instrument News	
05-Mar-2020	None
06-Mar-2020	None
07-Mar-2020	Nothing planned

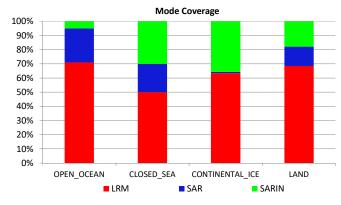
# 2. Global Coverage

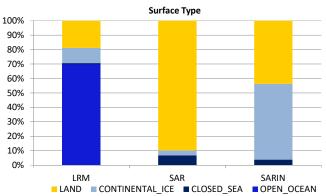












## 3. Instrument Configuration

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

SIRAL instrument(s) in use:

SIRAL - A

## 4. Level 1B Data Quality Check

### 4.1 L1B Product Format Check

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

Number of products with errors:

4.2 L1B Product Header Analysis

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

Number of products with errors:

Λ

#### 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

## 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.

umber of products with errors: 10

Product	Test Failed	Description
CS_OFFL_SIR_LRM_1B_20200305T235910_20200306T000009_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200306T002616_20200306T003053_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200306T003115_20200306T003245_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200306T003640_20200306T011149_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200306T012912_20200306T013231_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200306T013654_20200306T020326_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200306T021013_20200306T021338_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200306T030649_20200306T031141_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200306T031217_20200306T031440_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200306T031445_20200306T032041_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200306T032044_20200306T034301_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200306T034911_20200306T035243_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200306T035516_20200306T043029_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200306T044326_20200306T044518_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200306T044738_20200306T045131_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200306T045517_20200306T045637_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200306T045820_20200306T050305_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200306T050335_20200306T050817_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200306T050923_20200306T051147_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200306T051151_20200306T051257_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200306T052413_20200306T052933_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200306T062912_20200306T062941_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200306T062957_20200306T063123_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200306T063132_20200306T063144_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200306T063309_20200306T063826_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200306T070424_20200306T070833_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200306T071352_20200306T072041_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200306T072050_20200306T072621_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200306T075009_20200306T075200_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200306T084545_20200306T084738_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200306T090129_20200306T091201_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200306T091642_20200306T092347_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200306T092505_20200306T092541_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200306T092726_20200306T092803_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200306T092807_20200306T092808_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200306T092811_20200306T092945_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200306T092951_20200306T093012_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200306T093016_20200306T093110_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200306T100259_20200306T100610_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200306T100704_20200306T101804_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200306T104149_20200306T104829_D001	Loss of echo	The tracking echo is missing for one or more records

CS_OFFL_SIR_LRM_1B_20200306T105008_20200306T105028_D001	Loss of echo	The tracking echo is missing for one or more records
CS OFFL SIR LRM 1B 20200306T105031 20200306T110512 D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200306T110517_20200306T110529_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200306T110531_20200306T110542_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200306T110634_20200306T111103_D001	Loss of echo	The tracking echo is missing for one or more records
	Loss of echo	
CS_OFFL_SIR_LRM_1B_20200306T111130_20200306T111158_D001		The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200306T112504_20200306T112542_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200306T112704_20200306T112723_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200306T112810_20200306T113015_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200306T113535_20200306T113942_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200306T113945_20200306T114016_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200306T114019_20200306T114023_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200306T120221_20200306T121055_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200306T124305_20200306T124315_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200306T124318_20200306T124323_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200306T124326_20200306T124333_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200306T124407_20200306T124917_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200306T130150_20200306T130245_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200306T130422_20200306T131328_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200306T131335_20200306T131501_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200306T131503_20200306T131510_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200306T131512_20200306T133913_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200306T135721_20200306T142131_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200306T142237_20200306T142737_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200306T144829_20200306T144850_D001	Loss of echo	The tracking echo is missing for one or more records
CS OFFL SIR LRM 1B 20200306T153058 20200306T154917 D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200306T155906_20200306T160008_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200306T160211_20200306T160319_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200306T160353_20200306T160529_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200306T160732_20200306T160812_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200306T171843_20200306T172010_D001	Loss of echo	The tracking echo is missing for one or more records
CS OFFL SIR LRM 1B 20200306T172015 20200306T172611 D001	Loss of echo	
		The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200306T172614_20200306T172645_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200306T172738_20200306T172826_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200306T172829_20200306T173021_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200306T173533_20200306T173706_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200306T174117_20200306T174126_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200306T174137_20200306T174227_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200306T190353_20200306T191007_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200306T191037_20200306T191056_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200306T191144_20200306T191628_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200306T193827_20200306T193839_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200306T193843_20200306T193845_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200306T193848_20200306T193905_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200306T193910_20200306T193939_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200306T194129_20200306T201437_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200306T211656_20200306T211736_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200306T211747_20200306T211800_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200306T211802_20200306T211821_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200306T211827_20200306T211830_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200306T211836_20200306T211841_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200306T211844_20200306T211931_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200306T212315_20200306T213641_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200306T213808_20200306T215355_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200306T221010_20200306T222020_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200306T222126_20200306T222402_D001	Loss of echo	The tracking echo is missing for one or more records
	Loss of echo	
CS_OFFL_SIR_LRM_1B_20200306T222639_20200306T223803_D001		The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200306T223953_20200306T224136_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200306T225538_20200306T225911_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200306T225916_20200306T225944_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200306T225947_20200306T230008_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200306T230011_20200306T230018_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200306T230022_20200306T230033_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200306T230043_20200306T230045_D001	Loss of echo	The tracking echo is missing for one or more records

CS\_OFFL\_SIR\_LRM\_1B\_20200306T231048\_20200306T231224\_D001 Loss of echo The tracking echo is missing for one or more records

CS\_OFFL\_SIR\_LRM\_1B\_20200306T231347\_20200306T231629\_D001 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.

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.

Number of products with errors:

#### 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:

## 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:

#### 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:

#### 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: 0

## 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.

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: 5

Product	Test Failed	Description
CS_OFFL_SIR_LRM_220200306T000709_20200306T002352_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_220200306T003640_20200306T011149_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_220200306T013654_20200306T020326_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_220200306T021557_20200306T024337_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_220200306T024538_20200306T024836_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_220200306T031445_20200306T032041_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_220200306T032044_20200306T034301_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 20200306T035516 20200306T043029 D001	Height Error (Retracker 2), Backscatter Error (Retracker 2), Surface model	There is a height and backscatter error for Retracker 2 and no DEM or
CS_OFFL_SIR_LRM_220200306T044326_20200306T044518_D001	unavailable Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error	Slope Model was used for the location of one or more records  There is a height and backscatter error for Retracker 2 and a height error
	(Retracker 2) Height Error (Retracker 2), Backscatter	for Retracker 3 for one or more records  There is a height and backscatter error for Retracker 2 for one or more
CS_OFFL_SIR_LRM_220200306T051437_20200306T051721_D001	Error (Retracker 2)	records
CS_OFFL_SIR_LRM_220200306T053444_20200306T055743_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_220200306T060029_20200306T060940_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_20200306T062207_20200306T062553_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_220200306T064149_20200306T064637_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_220200306T064824_20200306T070130_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_220200306T071352_20200306T072041_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_220200306T072050_20200306T072621_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_220200306T072846_20200306T074659_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_220200306T081318_20200306T083612_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_220200306T085416_20200306T090119_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_220200306T090129_20200306T091201_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_220200306T091642_20200306T092347_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_220200306T095230_20200306T100045_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_220200306T100704_20200306T101804_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_220200306T104149_20200306T104829_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_220200306T105008_20200306T105028_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_220200306T105031_20200306T110512_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_20200306T112504_20200306T112542_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220200306T112810_20200306T113015_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_220200306T113145_20200306T113413_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_220200306T113535_20200306T113942_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_220200306T114343_20200306T115955_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_220200306T121301_20200306T123558_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_220200306T130150_20200306T130245_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_220200306T131512_20200306T133913_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_220200306T135721_20200306T142131_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_220200306T145046_20200306T151816_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_220200306T153058_20200306T154917_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_220200306T160732_20200306T160812_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_220200306T162209_20200306T165715_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_220200306T174537_20200306T174812_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_20200306T19409T_20200306T191049_D001  CS_OFFL_SIR_LRM_2_20200306T180241_20200306T181049_D001  CS_OFFL_SIR_LRM_2_20200306T181334_20200306T183084_D001  CS_OFFL_SIR_LRM_2_20200306T181334_20200306T183084_D001  CS_OFFL_SIR_LRM_2_20200306T184332_20200306T190205_D001  CS_OFFL_SIR_LRM_2_20200306T184332_20200306T190205_D001  CS_OFFL_SIR_LRM_2_20200306T190353_20200306T190007_D001  CS_OFFL_SIR_LRM_2_20200306T19144_20200306T191007_D001  CS_OFFL_SIR_LRM_2_20200306T19144_20200306T191628_D001  CS_OFFL_SIR_LRM_2_20200306T19142_20200306T291628_D001  CS_OFFL_SIR_LRM_2_20200306T19142_20200306T291628_D001  CS_OFFL_SIR_LRM_2_20200306T19142_20200306T29167_D001  CS_OFFL_SIR_LRM_2_20200306T19142_20200306T29167_D001  CS_OFFL_SIR_LRM_2_20200306T291325_D001  CS_OFFL_SIR_LRM_2_20200306T291325_D001  CS_OFFL_SIR_LRM_2_20200306T291325_D001  CS_OFFL_SIR_LRM_2_20200306T29315_20200306T293001  CS_OFFL_SIR_LRM_2_20200306T29315_20200306T293001  CS_OFFL_SIR_LRM_2_20200306T29315_20200306T293001  CS_OFFL_SIR_LRM_2_20200306T29352_20200306T293803_D001  CS_OFFL_SIR_LRM_2_20200306T29352_20200306T223803_D001  CS_OFFL_SIR_LRM_2_20200306T29353_20200306T223803_D001  CS_OFFL_SIR_LRM_2_20200306T29353_20200306T223803_D001  CS_OFFL_SIR_LRM_2_20200306T29353_20200306T223803_D001  CS_OFFL_SIR_LRM_2_20200306T29353_20200306T223803_D001  CS_OFFL_SIR_LRM_2_20200306T29353_20200306T223803_D001  CS_OFFL_SIR_LRM_2_20200306T29353_20200306T223803_D001  CS_OFFL_SIR_LRM_2_20200306T29353_20200306T223803_D001  CS_OFFL_SIR_LRM_2_20200306T230048_20200306T231024_D001  C		Usinta Ferra (Batarahan 0), Baraharatta	-
Error (Retracker 2)  Error (Retracker 2)  Error (Retracker 2)  Height Error (Retracker	CS_OFFL_SIR_LRM_220200306T174907_20200306T174938_D001		· ·
CS_OFFL_SIR_LRM_2_20200306T184332_20200306T190205_D001	CS_OFFL_SIR_LRM_220200306T180214_20200306T181049_D001		· ·
Error (Retracker 2)  CS_OFFL_SIR_LRM_2_20200306T190353_20200306T191007_D001  Error (Retracker 2). Backscatter Error (Retracker 2). B	CS_OFFL_SIR_LRM_220200306T181334_20200306T183634_D001	(Retracker 3), Backscatter Error	
records    Figure   CS_OFFL_SIR_LRM_2_20200306T191144_20200306T191628_D001   Height Error (Retracker 2)   Height Error (Retracker 3), Backscatter Error (Retracker 3)   Backscatter Error (Retracker 3)   Figure   There is a height and backscatter error for Retracker 2 and a height error for Retracker 3   Figure   There is a height and backscatter error for Retracker 2 and a height error (Retracker 2)   Backscatter Error (Retracker 3)   Backscatter Error (Retracker 2)   Height Error (Retracker 2)   Backscatter Error (Retracker 3)   Backscatter Error (Retracker 2)   Height Error (Retracker 2)   Height Error (Retracker 2)   Height Error (Retracker 2)   Height Error (Retracker 2)   Backscatter Error (Retracker 2)   Height Error (Retracker 2)   Backscatter Error (Retracker 3)   Backscatter Error (Retracker 3)   Backscatter Error (Retracker 3)   Backscatter Error (Retracker 3)   Backscatter Error (Retracker 2)   Height Error (Retracker 3)   Backscatter E	CS_OFFL_SIR_LRM_220200306T184832_20200306T190205_D001		· ·
CS_OFFL_SIR_LRM_2_20200306T191144_20200306T201437_D001  CS_OFFL_SIR_LRM_2_20200306T203243_20200306T201437_D001  CS_OFFL_SIR_LRM_2_20200306T203243_20200306T20301_D001  CS_OFFL_SIR_LRM_2_20200306T203243_20200306T213001_D001  CS_OFFL_SIR_LRM_2_20200306T212315_20200306T213641_D001  CS_OFFL_SIR_LRM_2_20200306T212315_20200306T213641_D001  CS_OFFL_SIR_LRM_2_20200306T213808_20200306T213655_D001  CS_OFFL_SIR_LRM_2_20200306T213808_20200306T215355_D001  CS_OFFL_SIR_LRM_2_20200306T212010_20200306T222020_D001  CS_OFFL_SIR_LRM_2_20200306T220101_20200306T22303_D001  CS_OFFL_SIR_LRM_2_20200306T22303_20200306T223803_D001  CS_OFFL_SIR_LRM_2_20200306T223953_20200306T224136_D001  CS_OFFL_SIR_LRM_2_20200306T223953_20200306T224136_D001  CS_OFFL_SIR_LRM_2_20200306T223953_20200306T224136_D001  CS_OFFL_SIR_LRM_2_20200306T223953_20200306T224136_D001  CS_OFFL_SIR_LRM_2_20200306T223953_20200306T2231224_D001  CS_OFFL_SIR_LRM_2_20200306T230048_20200306T231224_D001  CS_OFFL_SIR_LRM_2_20200306T2313472_20200306T231224_D001  CS_OFFL_SIR_LRM_2_20200306T2313472_20200306T231224_D001  CS_OFFL_SIR_LRM_2_20200306T2313472_20200306T231224_D001  CS_OFFL_SIR_LRM_2_20200306T2313472_20200306T231224_D001  CS_OFFL_SIR_LRM_2_20200306T2313472_20200306T231224_D001  CS_OFFL_SIR_LRM_2_20200306T230048_20200306T231224_D001  CS_OFFL_SIR_LRM_2_20200306T230048_20200306T231224_D001  CS_OFFL_SIR_LRM_2_20200306T230048_20200306T231224_D001  CS_OFFL_SIR_LRM_2_20200306T230048_20200306T231224_D001  CS_OFFL_SIR_LRM_2_20200306T	CS_OFFL_SIR_LRM_220200306T190353_20200306T191007_D001	, ,	· ·
Error (Retracker 2)  CS_OFFL_SIR_LRM_2_20200306T203243_20200306T210301_D001  CS_OFFL_SIR_LRM_2_20200306T203243_20200306T21301_D001  CS_OFFL_SIR_LRM_2_20200306T212315_20200306T213641_D001  CS_OFFL_SIR_LRM_2_20200306T213808_20200306T213555_D001  CS_OFFL_SIR_LRM_2_20200306T213808_20200306T215355_D001  CS_OFFL_SIR_LRM_2_20200306T21010_20200306T222020_D001  CS_OFFL_SIR_LRM_2_20200306T221010_20200306T222020_D001  CS_OFFL_SIR_LRM_2_20200306T222639_20200306T223803_D001  CS_OFFL_SIR_LRM_2_20200306T223953_20200306T224136_D001  Error (Retracker 2)  Height Error (Retracker 2). Height Error (Retracker 3). Backscatter Error (Retracke	CS_OFFL_SIR_LRM_220200306T191144_20200306T191628_D001	(Retracker 3), Backscatter Error	
CS_OFFL_SIR_LRM_2_20200306T203243_20200306T21301_D001  (Retracker 3), Backscatter Error (Retracker 2) and a neight error for Retracker 2 and a neight error for Retracker 2). Backscatter Error (Retracker 2), Surface model unavailable  CS_OFFL_SIR_LRM_2_20200306T213808_20200306T215355_D001  CS_OFFL_SIR_LRM_2_20200306T213808_20200306T215355_D001  CS_OFFL_SIR_LRM_2_20200306T221010_20200306T222002_D001  CS_OFFL_SIR_LRM_2_20200306T221010_20200306T222002_D001  CS_OFFL_SIR_LRM_2_20200306T222039_20200306T223803_D001  CS_OFFL_SIR_LRM_2_20200306T223953_20200306T223803_D001  CS_OFFL_SIR_LRM_2_20200306T223953_20200306T224136_D001  CS_OFFL_SIR_LRM_2_20200306T230048_20200306T231224_D001  CS_OFFL_SIR_LRM_2_20200306T230048_20200306T231224_D001  CS_OFFL_SIR_LRM_2_20200306T233048_20200306T231224_D001  CS_OFFL_SIR_LRM_2_20200306T2331247_20200306T231224_D001  CS_OFFL_SIR_LRM_2_20200306T2331247_20200306T231224_D001  CS_OFFL_SIR_LRM_2_20200306T231247_20200306T231224_D001  CS_OFFL_SIR_LRM_2_20200306T231247_20200306T231224_D001  CS_OFFL_SIR_LRM_2_20200306T231247_20200306T231224_D001  CS_OFFL_SIR_LRM_2_20200306T231247_20200306T231224_D001  CS_OFFL_SIR_LRM_2_20200306T231247_20200306T231224_D001  CS_OFFL_SIR_LRM_2_20200306T231247_20200306T231247_20200306T231247_20200306	CS_OFFL_SIR_LRM_220200306T194129_20200306T201437_D001		
CS_OFFL_SIR_LRM_2_20200306T213315_20200306T213641_D001  Error (Retracker 2), Surface model unavailable  CS_OFFL_SIR_LRM_2_20200306T213808_20200306T215355_D001  CS_OFFL_SIR_LRM_2_20200306T2213808_20200306T2215355_D001  CS_OFFL_SIR_LRM_2_20200306T221010_20200306T222020_D001  Error (Retracker 2), Height Error (Retracker 2), Backscatter Error (Retracker 3) for one or more records  There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records  There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records  There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records  There is a height and backscatter error for Retracker 2 and a height error (Retracker 2). Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error for Retracker 3 for one or more records  CS_OFFL_SIR_LRM_2_20200306T223639_20200306T223803_D001  CS_OFFL_SIR_LRM_2_20200306T223953_20200306T224136_D001  Surface Model Unavailable  No DEM or Slope Model was used for the location of one or more records  There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records  There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records	CS_OFFL_SIR_LRM_220200306T203243_20200306T210301_D001	(Retracker 3), Backscatter Error	
CS_OFFL_SIR_LRM_2_20200306T213808_20200306T22555_D001  (Retracker 3), Backscatter Error (Retracker 2)	CS_OFFL_SIR_LRM_220200306T212315_20200306T213641_D001	Error (Retracker 2), Surface model	
CS_OFFL_SIR_LRM_2_20200306T223639_20200306T223803_D001  Error (Retracker 2)  Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2),	CS_OFFL_SIR_LRM_220200306T213808_20200306T215355_D001	(Retracker 3), Backscatter Error	
CS_OFFL_SIR_LRM_220200306T222639 _20200306T223803 _D001	CS_OFFL_SIR_LRM_220200306T221010_20200306T222020_D001		
CS_OFFL_SIR_LRM_2_20200306T230048_20200306T231224_D001  Height Error (Retracker 2), Backscatter Error (Retracker 2)  Height Error (Retracker 2)  Height Error (Retracker 2), Backscatter records  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records	CS_OFFL_SIR_LRM_220200306T222639_20200306T223803_D001	(Retracker 3), Backscatter Error	
Error (Retracker 2)  Error (Retracker 2)  Ferror (Retracker 2)  Ferror (Retracker 2)  Ferror (Retracker 2), Backscatter  There is a height and backscatter error for Retracker 2 for one or more	CS_OFFL_SIR_LRM_220200306T223953_20200306T224136_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
	CS_OFFL_SIR_LRM_220200306T230048_20200306T231224_D001		
	CS_OFFL_SIR_LRM_220200306T231347_20200306T231629_D001		
CS_OFFL_SIR_LRM_2_20200306T231808_20200306T233252_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_220200306T231808_20200306T233252_D001		· ·
CS_OFFL_SIR_LRM_2_20200306T234625_20200307T001016_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_220200306T234625_20200307T001016_D001		