

# IDEAS+ Daily Report for OFFLINE data:

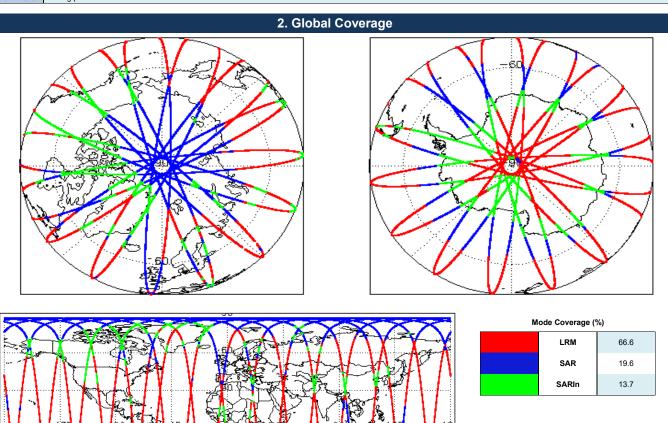
## <u>08/06/2019</u>

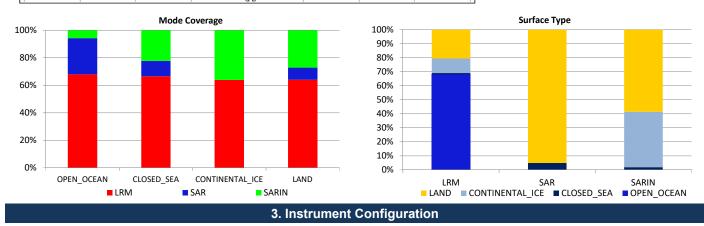


## 1. Overview

Bonort Broduction Data	09-Jul-2019	Check	Status	
Report Production Date:		Server check: science-pds.cryosat.esa.int	Nominal	
Processor Used:	CryoSat Ice Processor	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 Osed:	LIB and L2 OFFLINE 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	Nominal	
		L1B & L2 Auxiliary Correction Error Check	Nominal	
		L1B & L2 Measurement Confidence Data Check	See Section 4.8 and 5.5	

Mission / Instrument News			
07-Jun-2019	None		
08-Jun-2019	None		
09-Jun-2019	Nothing planned		





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

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: 0

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.

roduct	Test Failed	Description
S_OFFL_SIR_LRM_1B_20190608T000235_20190608T001025_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20190608T002448_20190608T002616_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20190608T002650_20190608T003930_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20190608T004510_20190608T005314_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20190608T010222_20190608T011030_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20190608T013541_20190608T013712_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20190608T013715_20190608T013729_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20190608T014111_20190608T014154_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20190608T014220_20190608T014221_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20190608T014225_20190608T014303_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20190608T014306_20190608T014341_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20190608T014344_20190608T014408_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20190608T014410_20190608T014949_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20190608T020441_20190608T021111_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20190608T021114_20190608T023737_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20190608T024345_20190608T024910_D001	Loss of echo	The tracking echo is missing for one or more record
S_OFFL_SIR_LRM_1B_20190608T025311_20190608T031659_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20190608T031925_20190608T031934_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20190608T032046_20190608T032623_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20190608T032708_20190608T032738_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20190608T034826_20190608T034838_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20190608T034847_20190608T034904_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20190608T034907_20190608T035014_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20190608T035017_20190608T040011_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20190608T043146_20190608T050254_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20190608T050328_20190608T050845_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20190608T061841_20190608T062742_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20190608T062826_20190608T063326_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20190608T063926_20190608T063940_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20190608T063943_20190608T064047_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20190608T064059_20190608T064234_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20190608T064523_20190608T064533_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20190608T070125_20190608T071226_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20190608T081145_20190608T081543_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20190608T081545_20190608T081550_D001	Loss of echo	The tracking echo is missing for one or more record
S_OFFL_SIR_LRM_1B_20190608T081553_20190608T081640_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20190608T081700_20190608T081846_D001	Loss of echo	The tracking echo is missing for one or more record
	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20190608T081849_20190608T081849_D001		
S_OFFL_SIR_LRM_1B_20190608T081849_20190608T081849_D001 S_OFFL_SIR_LRM_1B_20190608T083753_20190608T083850_D001	Loss of echo	The tracking echo is missing for one or more records
		The tracking echo is missing for one or more records The tracking echo is missing for one or more records

Loss of echo

The tracking echo is missing for one or more records

The tracking echo is missing for one or more records

The tracking echo is missing for one or more records

The tracking echo is missing for one or more records

The tracking echo is missing for one or more records

The tracking echo is missing for one or more records

The tracking echo is missing for one or more records

cno Flag: This flag is currently set for some products

CS\_OFFL\_SIR\_LRM\_1B\_20190608T101625\_20190608T103100\_D001

CS\_OFFL\_SIR\_LRM\_1B\_20190608T103542\_20190608T103700\_D001

CS\_OFFL\_SIR\_LRM\_1B\_20190608T103703\_20190608T105257\_D001

CS\_OFFL\_SIR\_LRM\_1B\_20190608T111048\_20190608T112401\_D001

CS\_OFFL\_SIR\_LRM\_1B\_20190608T112615\_20190608T113940\_D001

CS\_OFFL\_SIR\_LRM\_1B\_20190608T115533\_20190608T120228\_D001

CS\_OFFL\_SIR\_LRM\_1B\_20190608T120537\_20190608T121601\_D001

CS_OFFL_SIR_LRM_1B_20190608T125026_20190608T125219_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190608T125500_20190608T130019_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190608T130505_20190608T130550_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190608T130558_20190608T130953_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190608T131116_20190608T131825_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190608T133325_20190608T133402_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190608T133417_20190608T134127_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190608T134130_20190608T134133_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190608T134138_20190608T134142_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190608T134145_20190608T134254_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190608T134648_20190608T134810_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190608T141911_20190608T142128_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190608T142546_20190608T145344_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190608T145543_20190608T145946_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190608T150108_20190608T150150_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190608T151651_20190608T152131_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190608T155809_20190608T160135_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190608T165442_20190608T165817_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190608T165850_20190608T170005_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190608T170036_20190608T170059_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190608T170102_20190608T170104_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190608T170108_20190608T170150_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190608T170153_20190608T172137_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190608T173239_20190608T174041_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190608T183240_20190608T183326_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190608T183615_20190608T183929_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190608T183944_20190608T184017_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190608T184020_20190608T184036_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190608T184315_20190608T184427_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190608T184938_20190608T185154_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190608T185256_20190608T190813_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190608T194827_20190608T195850_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190608T195925_20190608T200007_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190608T201914_20190608T202053_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190608T202125_20190608T202623_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190608T202832_20190608T203432_D001	Loss of echo	The tracking echo is missing for one or more records
CS OFFL SIR LRM 1B 20190608T210348 20190608T214003 D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190608T223342_20190608T223536_D001	Loss of echo	The tracking echo is missing for one or more records
CS OFFL SIR LRM 1B 20190608T224301 20190608T231109 D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190608T231328_20190608T231936_D001	Loss of echo	The tracking echo is missing for one or more records
CS OFFL SIR LRM 1B 20190608T232733 20190608T233123 D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190608T233252_20190608T234840_D001	Loss of echo	The tracking echo is missing for one or more records
CS OFFL SIR LRM 1B 201906087235119 201906087235353 D001	Loss of echo	The tracking echo is missing for one or more records
CS OFFL SIR LRM 1B 20190608T235500 20190609T000027 D001	Loss of echo	The tracking echo is missing for one or more records
00_0.1.2_0.1(_1.10_20100001200000_201000001000021_D001		

## 4.5 L1B Calibration Usage Check

Each product is checked in order to ensure that the necessary calibration files have been used in processing.

 Number of products with errors:
 0

### 4.6 L1B Auxilary Data File Usage Check

Each product is checked for missing Data Set Descriptors with respect to a pre-determined baseline and also to check the validity of Auxiliary Data Files is correct. Number of products with errors: 0

### 4.7 L1B Auxiliary Correction Error Check

CryoSat L1B data includes a correction error flag (field 54) for each measurement record. The bit value of this flag indicates any problems when set.
Number of products with errors:
0

#### 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. Number of products with errors: 1	indicating that the ADC correction application	n is deactivated, but this is in line with the current configuration.
-		Percelution
Product CS_OFFL_SIR_LRM_1B_20190608T061841_20190608T062742_D001	Test Failed Echo error, TRK echo error	Description           The tracking echo has returned an error and the Rx1 Echo Error flag is set,
		indicating a degraded echo
5.	Level 2 Data Quality Chec	k
5.1 L2 Product Format Check		
Each product, retrieved and unpacked from the science server, is checked to e	nsure it consists of both an XML header file (.	HDR) and a product file (.DBL).
Number of products with errors: 0		
5.2 L2 Product Header Analysis		
For all products, a series of pre-defined checks are carried out on the MPH and	SPH in order to identify any inconsistencies	and/or errors raised by the ground-segment processing chain.
Number of products with errors: 0		
5.3 L2 Auxiliary Data File Usage Check		
Each product is checked for missing Data Set Descriptors with respect to a pre	-determined baseline and also to check the va	alidity 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 measuremer	t record. The bit value of this flag indicates ar	ny problems when set
Number of products with errors: 0	5	
5.5 L2 Measurement Quality Flag Check		
CryoSat L2 data includes a quality flag (field 50) for each 20-Hz measurement r	ecord. The bit value of this flag indicates any	problems when set.
Currently, there are several common error flags raised in the Level 2 proc 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 d	iscriminated as sea-ice, and for which freeboa	ard cannot be calculated.
Height and Backscatter errors: These flags are currently set for products ove this is to be expected.	r land, but this is to be expected. Retracker 1	Height and Backscatter error flags are also set for products over sea-ice, but
Peakiness error: This flag is currently set for products over sea-ice, but this is	to be expected.	
SARIN X-Track Angle Error: This flag is set when the difference between the result this flag is set for L2 SARIn products in all other locations as expected.	computed surface elevation and the DEM is >	50 m. The DEM is only available over Greenland and Antarctica and as a
SSHA interpolation error: This flag is currently set for a number of SAR produ	icts occurring at surface type boundaries, but	this is to be expected.
Number of products with errors: 50		
Product	Test Failed	Description
CS_OFFL_SIR_LRM_220190608T002448_20190608T002616_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220190608T002650_20190608T003930_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_220190608T004510_20190608T005314_D001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error	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_220190608T005425_20190608T005739_D001	(Retracker 2) 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 20190608T014225 20190608T014303 D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
00_0112_0112_11W_2201000001014220_201000001014300_2001	Height Error (Retracker 2), Backscatter	There is a height and backscatter error for Retracker 2 for one or more
CS_OFFL_SIR_LRM_220190608T021114_20190608T023737_D001	Error (Retracker 2) Height Error (Retracker 2), Height Error	records
CS_OFFL_SIR_LRM_220190608T025311_20190608T031659_D001	(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_220190608T035017_20190608T040011_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_220190608T043146_20190608T050254_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_220190608T050328_20190608T050845_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_220190608T052235_20190608T055502_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_220190608T064638_20190608T064926_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records

Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2), Surface Model Unavailable or more records

records

Height Error (Retracker 2), Backscatter

Error (Retracker 2)

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

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

CS\_OFFL\_SIR\_LRM\_2\_\_20190608T070125\_20190608T071226\_D001

CS\_OFFL\_SIR\_LRM\_2\_\_20190608T071308\_20190608T073458\_D001

CS_OFFL_SIR_LRM_220190608T075046_20190608T080817_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_220190608T082618_20190608T082627_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_220190608T083906_20190608T091318_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_220190608T093226_20190608T100348_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_220190608T101625_20190608T103100_D001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2), Surface Model Unavailable	There is a height and backscatter error for Retracker 2 , a height error for Retracker 3 and no DEM or Slope Model was used for the location of one e or more records
CS_OFFL_SIR_LRM_220190608T103542_20190608T103700_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_220190608T103703_20190608T105257_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_220190608T111048_20190608T112401_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_220190608T112615_20190608T113940_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_220190608T114048_20190608T114250_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_220190608T120537_20190608T121601_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_220190608T121741_20190608T123146_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_220190608T124806_20190608T124904_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_220190608T125500_20190608T130019_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_220190608T130505_20190608T130550_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220190608T130558_20190608T130953_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_220190608T131116_20190608T131825_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_220190608T135002_20190608T141022_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_220190608T142546_20190608T145344_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_220190608T152541_20190608T155000_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_220190608T160514_20190608T161604_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_220190608T162142_20190608T163739_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_220190608T170153_20190608T172137_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_220190608T174507_20190608T181752_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_220190608T183114_20190608T183214_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_220190608T185256_20190608T190813_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_220190608T192415_20190608T194542_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 20190608T194827 20190608T195850 D001	Using the Emery (Distance laws 0), Using the Emery	
	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_220190608T200921_20190608T201405_D001	(Retracker 3), Backscatter Error	
	(Retracker 3), Backscatter 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_220190608T200921_20190608T201405_D001	(Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter 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 records There is a height and backscatter error for Retracker 2 for one or more
CS_OFFL_SIR_LRM_220190608T200921_20190608T201405_D001 CS_OFFL_SIR_LRM_220190608T202832_20190608T203432_D001	(Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter 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 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
CS_OFFL_SIR_LRM_220190608T200921_20190608T201405_D001 CS_OFFL_SIR_LRM_220190608T202832_20190608T203432_D001 CS_OFFL_SIR_LRM_220190608T203620_20190608T204649_D001	(Retracker 3), Backscatter Error         (Retracker 2)         Height Error (Retracker 2), Backscatter         Error (Retracker 2)         Height Error (Retracker 2), Backscatter         Error (Retracker 2), Backscatter         Error (Retracker 2)         Height Error (Retracker 2), Backscatter         Error (Retracker 2)         Height Error (Retracker 2), Backscatter         Error (Retracker 2)         Height Error (Retracker 2), Height Error         (Retracker 3), Backscatter 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 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 There is a height and backscatter error for Retracker 2 and a height error
CS_OFFL_SIR_LRM_220190608T200921_20190608T201405_D001 CS_OFFL_SIR_LRM_220190608T202832_20190608T203432_D001 CS_OFFL_SIR_LRM_220190608T203620_20190608T204649_D001 CS_OFFL_SIR_LRM_220190608T210348_20190608T214003_D001	(Retracker 3), Backscatter Error         (Retracker 2)         Height Error (Retracker 2), Backscatter         Error (Retracker 2)         Height Error (Retracker 2), Backscatter         Error (Retracker 2)         Height Error (Retracker 2), Backscatter         Error (Retracker 2)         Height Error (Retracker 2), Backscatter         Error (Retracker 2)         Height Error (Retracker 2), Height Error         (Retracker 3), Backscatter Error         (Retracker 2)         Height Error (Retracker 2), Backscatter Error         Height Error (Retracker 2), Backscatter Error         Height Error (Retracker 2), Backscatter Error         Height Error (Retracker 2)	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 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

CS_OFFL_SIR_LRM_220190608T224301_20190608T231109_D001	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
CS OFEL SIR LRM 2 201906081233252 201906081234840 D001	There is a height and backscatter error for Retracker 2 for one or more records