



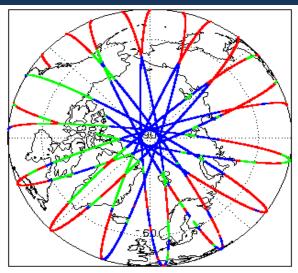
1. Overview

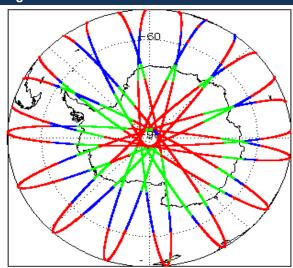
Report Production Date:	12-Aug-2019	
Processor Used:	CryoSat Ice Processor	
Data Used:	L1B and L2 OFFLINE Data	

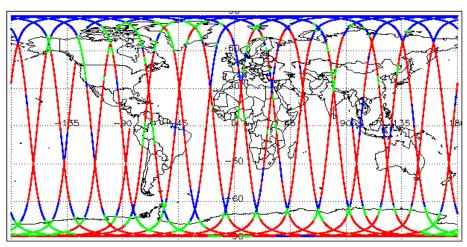
Check	Status
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	Nominal
Star Tracker Usage Check	Nominal
L1B Tracking Flag Check	See Section 4.4
L1B Calibration Usage Check	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

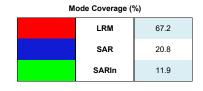
Mission / Instrument News		
11-Jul-2019	None	
12-Jul-2019	None	
13-Jul-2019	Nothing planned	

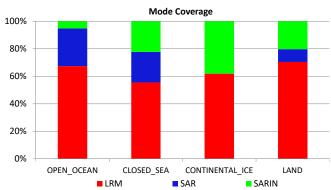
2. Global Coverage

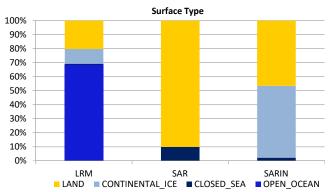












3. Instrument Configuration

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

SIRAL instrument(s) in use:	SIRAL - A
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4. Level 1B Data Quality Check

4.1 L1B Product Format Check

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

Number of products with errors:

4.2 L1B Product Header Analysis

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

Number of products with errors:

4.3 Star Tracker Usage Check

Each product is checked in order to ensure a valid star tracker file has been used in processing.

0

Number of products with errors: 0

4.4 L1B Tracking Flags Check

CryoSat L1B data includes a tracking flag for each measurement record. The bit value of this flag indicates any problems when set.

Loss of Echo Flag: This flag is currently set for some products over land, but this is to be expected.

Number of products with errors: 71

Product	Test Failed	Description
CS_OFFL_SIR_LRM_1B_20190712T002010_20190712T002849_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190712T003208_20190712T005612_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190712T005842_20190712T005923_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190712T010039_20190712T010458_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190712T012207_20190712T012708_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190712T012808_20190712T012854_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190712T012857_20190712T015543_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190712T021127_20190712T023739_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190712T023743_20190712T024003_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190712T024040_20190712T024849_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190712T035910_20190712T040549_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190712T040744_20190712T041240_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190712T041346_20190712T041418_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190712T041702_20190712T041755_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190712T041928_20190712T042247_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190712T042518_20190712T042547_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190712T054847_20190712T055613_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190712T055808_20190712T055920_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190712T055936_20190712T055957_D001	Loss of echo	The tracking echo is missing for one or more records
CS OFFL SIR LRM 1B 20190712T061725 20190712T062850 D001	Loss of echo	The tracking echo is missing for one or more records
CS OFFL SIR LRM 1B 20190712T063109 20190712T064727 D001	Loss of echo	The tracking echo is missing for one or more records
CS OFFL SIR LRM 1B 20190712T064737 20190712T065240 D001	Loss of echo	The tracking echo is missing for one or more records
CS OFFL SIR LRM 1B 20190712T075617 20190712T083155 D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190712T084000_20190712T084218_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190712T085046_20190712T090312_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190712T093505_20190712T094053_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190712T094254_20190712T095412_D001	Loss of echo	
		The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190712T095615_20190712T101049_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190712T102741_20190712T103958_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190712T104439_20190712T105734_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190712T105858_20190712T110023_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190712T111347_20190712T111806_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190712T111900_20190712T111932_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190712T111936_20190712T112240_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190712T112244_20190712T112547_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190712T112556_20190712T112718_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190712T115830_20190712T115945_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190712T120536_20190712T122715_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190712T122719_20190712T123109_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190712T123328_20190712T123854_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190712T124017_20190712T124109_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190712T125229_20190712T125955_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190712T130133_20190712T130231_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190712T130447_20190712T132838_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190712T143256_20190712T150830_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190712T151626_20190712T151955_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190712T160957_20190712T161333_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190712T161423_20190712T161643_D001	Loss of echo	The tracking echo is missing for one or more records

CS_OFFL_SIR_LRM_1B_20190712T161716_20190712T161803_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190712T161950_20190712T162056_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190712T162326_20190712T163200_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190712T163246_20190712T164021_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190712T172735_20190712T173900_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190712T175559_20190712T175618_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190712T175643_20190712T175718_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190712T180012_20190712T180600_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190712T183046_20190712T183546_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190712T184253_20190712T191840_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190712T201258_20190712T201451_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190712T202234_20190712T202855_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190712T202858_20190712T203714_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190712T203716_20190712T203910_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190712T204351_20190712T205226_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190712T205229_20190712T205810_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190712T213009_20190712T214445_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190712T220121_20190712T221614_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190712T221815_20190712T222736_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190712T222916_20190712T222942_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190712T222944_20190712T223755_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190712T225153_20190712T230708_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190712T231218_20190712T232521_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:

Product	Test Failed	Description
CS_OFFL_SIR_LRM_1B_20190712T143256_20190712T150830_D001		The tracking echo has returned an error and the Rx1 Echo Error flag is set, indicating a degraded echo
CS_OFFL_SIR_LRM_1B_20190712T222944_20190712T223755_D001	IECHO EFFOR TEK ECHO EFFOR	The tracking echo has returned an error and the Rx1 Echo Error flag is set, indicating a degraded echo

5. Level 2 Data Quality Check

5.1 L2 Product Format Check

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

Number of products with errors: 0

5.2 L2 Product Header Analysis

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

Number of products with errors:

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:

0

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: 54			
Product	Test Failed	Description	
CS_OFFL_SIR_LRM_2_20190711T235334_20190712T001638_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_20190712T003208_20190712T005612_D001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records	
CS_OFFL_SIR_LRM_2_20190712T010622_20190712T010703_D001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records	
CS_OFFL_SIR_LRM_2_20190712T012857_20190712T015543_D001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records	
CS_OFFL_SIR_LRM_2_20190712T021127_20190712T023739_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_220190712T024040_20190712T024849_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_220190712T030325_20190712T031839_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_220190712T035910_20190712T040549_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_220190712T042627_20190712T042759_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_220190712T044015_20190712T051334_D001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records	
CS_OFFL_SIR_LRM_2_20190712T053117_20190712T054700_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_220190712T060526_20190712T060707_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_220190712T061725_20190712T062850_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_220190712T063109_20190712T064727_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_220190712T064737_20190712T065240_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_220190712T070954_20190712T072910_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_220190712T072945_20190712T073423_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_220190712T073447_20190712T074344_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_220190712T075617_20190712T083155_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_220190712T085046_20190712T090312_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_220190712T090418_20190712T092110_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_220190712T094254_20190712T095412_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_220190712T095615_20190712T101049_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_220190712T102741_20190712T103958_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_220190712T104439_20190712T105734_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_220190712T105858_20190712T110023_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records	
CS_OFFL_SIR_LRM_220190712T111936_20190712T112240_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records	
CS_OFFL_SIR_LRM_220190712T113535_20190712T114942_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_220190712T120536_20190712T122715_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_LEM_2_20190712713048_20190712713038_D010 CS_OFFL_SIR_LEM_2_20190712713049_20190712713032_D010 CS_OFFL_SIR_LEM_2_20190712714005_20190712713030_D010 CS_OFFL_SIR_LEM_2_20190712714005_20190712713030_D010 CS_OFFL_SIR_LEM_2_20190712713036_20190712713030_D010 CS_OFFL_SIR_LEM_2_20190712713036_20190712713030_D010 CS_OFFL_SIR_LEM_2_20190712713036_20190712713030_D010 CS_OFFL_SIR_LEM_2_20190712713036_20190712713030_D010 CS_OFFL_SIR_LEM_2_20190712713036_D0100712713030_D010 CS_OFFL_SIR_LEM_2_20190712713030_D0100712713030_D010 CS_OFFL_SIR_LEM_2_20190712713030_D0100712713000_D010 CS_OFFL_SIR_LEM_2_20190712713030_D0100712713000_D010 CS_OFFL_SIR_LEM_2_20190712713000_D0100712713000_D010 CS_OFFL_SIR_LEM_2_20190712713000_D0100712713000_D010 CS_OFFL_SIR_LEM_2_20190712713000_D0100712713000_D010 CS_OFFL_SIR_LEM_2_20190712713000_D0100712713000_D010 CS_OFFL_SIR_LEM_2_20190712713000_D0100712713000_D010 CS_OFFL_SIR_LEM_2_20190712713000_D0100712713000_D010 CS_OFFL_SIR_LEM_2_20190712713000_D0100712713000_D010 CS_OFFL_SIR_LEM_2_20190712713000_D0100712713000_D010 CS_OFFL_SIR_LEM_2_20190712713000_D01007127130000_D0100712713000_D0100712713000_D0100712713000_D01007127130000_D0100712713000_D0100712713000_D01007127130000_D0100	CS_OFFL_SIR_LRM_220190712T122719_20190712T123109_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
Error (Restacker 2) CS OFFL, SIR LEM 2, 20180712T140054 0001 CS OFFL, SIR LEM 2, 20180712T140054 20180712T150830 0001 CS OFFL, SIR LEM 2, 20180712T150835 20180712T150835 0001 CS OFFL, SIR LEM 2, 20180712T150835 20180712T150835 0001 CS OFFL, SIR LEM 2, 20180712T150835 20180712T150835 0001 CS OFFL, SIR LEM 2, 20180712T160857 20180712T150333 0001 CS OFFL, SIR LEM 2, 20180712T170805 20180712T160333 0001 CS OFFL, SIR LEM 2, 20180712T170305 20180712T170300 0001 CS OFFL, SIR LEM 2, 20180712T110085 20180712T100300 0001 CS OFFL, SIR LEM 2, 20180712T1100300 20180712T100300 0001 CS OFFL, SIR LEM 2, 20180712T1100300 20180712T100300 0001 CS OFFL, SIR LEM 2, 20180712T200300 00000 CS OFFL,	CS_OFFL_SIR_LRM_220190712T130447_20190712T132838_D001		
Error (Retroacter 2) G. GFFL_SR_LRM_2_20190712T14926_20190712T15936_00001 G. GFFL_SR_LRM_2_20190712T159436_20190712T159436_00001 G. GFFL_SR_LRM_2_20190712T159436_00190712T159436_00001 G. GFFL_SR_LRM_2_20190712T159436_00190712T1595436_00001 G. GFFL_SR_LRM_2_20190712T159436_00190712T159546_0001 G. GFFL_SR_LRM_2_20190712T15956_0001 G. GFFL_SR_LRM_2_20190712T15956_0001 G. GFFL_SR_LRM_2_20190712T15956_0001 G. GFFL_SR_LRM_2_20190712T17956_00001 G. GFFL_SR_LRM_2_20190712T17956_00001 G. GFFL_SR_LRM_2_20190712T17956_00001 G. GFFL_SR_LRM_2_20190712T17956_00001 G. GFFL_SR_LRM_2_20190712T17956_00001 G. GFFL_SR_LRM_2_20190712T17956_00001 G. GFFL_SR_LRM_2_20190712T17956_000001 G. GFFL_SR_LRM_2_20190712T17956_000001 G. GFFL_SR_LRM_2_20190712T17956_000000000000000000000000000000000000	CS_OFFL_SIR_LRM_220190712T134419_20190712T135523_D001		•
Error (Retracker 2) Error (Re	CS_OFFL_SIR_LRM_220190712T140053_20190712T141054_D001		
CS_OFFL_SIR_LRM_2_20190712T154008_20190712T15545_D001 Refortance 7). Backscatter Error (Retrouber 2). Backscatter Error (Retrouber 2). Backscatter Error (Retrouber 2). Backscatter Error (Retrouber 3) are height Error (Retrouber 2). Backscatter Error (Retrouber 3). Backscatter Error (Retrouber 2). Backscatter Error (Retrouber 2)	CS_OFFL_SIR_LRM_220190712T143256_20190712T150830_D001		
Error (Retracker 2) Report Retracker 2) Report Error (Retracker 2) Report Error (Re	CS_OFFL_SIR_LRM_220190712T152435_20190712T153435_D001	(Retracker 3), Backscatter Error	
GS_OFFL_SIR_LRM_2_20190712T10369_20190712T17500_D001 CS_OFFL_SIR_LRM_2_20190712T17256_20190712T17500_D001 CS_OFFL_SIR_LRM_2_20190712T17255_20190712T17500_D001 CS_OFFL_SIR_LRM_2_20190712T17255_20190712T17500_D001 CS_OFFL_SIR_LRM_2_20190712T174511_20190712T175200_D001 CS_OFFL_SIR_LRM_2_20190712T160852_20190712T162538_D001 CS_OFFL_SIR_LRM_2_20190712T184253_20190712T182538_D001 CS_OFFL_SIR_LRM_2_20190712T184253_20190712T191840_D001 CS_OFFL_SIR_LRM_2_20190712T184253_20190712T191840_D001 CS_OFFL_SIR_LRM_2_20190712T184253_20190712T191840_D001 CS_OFFL_SIR_LRM_2_20190712T194028_20190712T200334_D001 CS_OFFL_SIR_LRM_2_20190712T202524_20190712T200354_D001 CS_OFFL_SIR_LRM_2_20190712T202524_20190712T200354_D001 CS_OFFL_SIR_LRM_2_20190712T202525_20190712T200354_D001 CS_OFFL_SIR_LRM_2_20190712T202525_20190712T200354_D001 CS_OFFL_SIR_LRM_2_20190712T202525_20190712T200354_D001 CS_OFFL_SIR_LRM_2_20190712T202525_20190712T200354_D001 CS_OFFL_SIR_LRM_2_20190712T202525_20190712T200354_D001 CS_OFFL_SIR_LRM_2_20190712T202525_20190712T200354_D001 CS_OFFL_SIR_LRM_2_20190712T202525_20190712T200354_D001 CS_OFFL_SIR_LRM_2_20190712T202525_20190712T200354_D001 CS_OFFL_SIR_LRM_2_20190712T202525_20190712T200510_D001 CS_OFFL_SIR_LRM_2_20190712T200510_20190712T200510_D001 CS_OFFL_SIR_LRM_2_20190712T200510_20190712T200510_D001 CS_OFFL_SIR_LRM_2_20190712T200520_20190712T200510_D001 CS_OFFL_SIR_LRM_2_20190712T200520_20190712T20550_D001 CS_OFFL_SIR_LRM_2_20190712T200520_20190712T20550_D001 CS_OFFL_SIR_LRM_2_20190712T200520_20190712T20550_D001 CS_OFFL_SIR_LRM_2_20190712T201116_20190712T214445_D001 CS_OFFL_SIR_LRM_2_20190712T201116_20190712T21445_D001 CS_OFFL_SIR_LRM_2_20190712T201116_20190712T20550_D001 CS_OFFL_SIR_LRM_2_20190712T201116_20190712T20550_D001 CS_OFFL_SIR_LRM_2_20190712T201116_20190712T20550_D001 CS_OFFL_SIR_LRM_2_20190712T201116_20190712T20550_D001 CS_OFFL_SIR_LRM_2_20190712T201116_20190712T20550_D001 CS_OFFL_SIR_LRM_2_20190712T201116_20190712T20510_D001 CS_OFFL_SIR_LRM_2_20190712T201116_20190712T20510	CS_OFFL_SIR_LRM_220190712T154008_20190712T155754_D001		
Error (Retracker 2) #ecords CS_OFFL_SIR_LRM_2_20190712T17295_0190712T175209_D001 #elight Error (Retracker 2). Backscatter Error (Retracker 2). Backscatter Error (Retracker 2). Backscatter Error (Retracker 3). Backscatter Error (Retracker 2). Backscatter Error (Re	CS_OFFL_SIR_LRM_220190712T160957_20190712T161333_D001	(Retracker 3), Backscatter Error	
Error (Retracker 2) Fror (Retracker 3) Fror (Retrac	CS_OFFL_SIR_LRM_220190712T170356_20190712T172506_D001		
Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 3), Backscatter Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 3), Backscatter Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 3), Backscatter Error (Retracker 3), Height Error (Retracker 3), Heig	CS_OFFL_SIR_LRM_220190712T172735_20190712T173900_D001		
CS_OFFL_SIR_LRM_2_20190712T180852_20190712T191840_D001 (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 2) Height Error (Retracker 3), Backscatter Error (Retracker 3) for one or more records (Retracker 3) Height Error (Retracker 3), Height Error (Retracker 3) for one or more records (Retracker 3) Height Error (Retracker 3), Height Error (Retracker 3) for one or more records (Retracker 3) Backscatter Error (Retracker 3) Height Error (Retracker 3) Backscatter Error (Retracker 3) Backscatter Error (Retracker 3) Backscatter Error (Retracker 4) Backsca	CS_OFFL_SIR_LRM_220190712T174911_20190712T175209_D001		•
(Retracker 3), Backscatter Error (Retracker 4) and backscatter error for Retracker 2 and a height error (Retracker 2). Height Error (Retracker 2). Backscatter error for Retracker 2 for one or more records CS_OFFL_SIR_LRM_2_20190712T202342_0190712T202355_D001 CS_OFFL_SIR_LRM_2_20190712T202358_20190712T203714_D001 CS_OFFL_SIR_LRM_2_20190712T202358_20190712T203714_D001 CS_OFFL_SIR_LRM_2_20190712T203716_0190712T203714_D001 CS_OFFL_SIR_LRM_2_20190712T203716_0190712T203910_D001 CS_OFFL_SIR_LRM_2_20190712T203716_0190712T203910_D001 CS_OFFL_SIR_LRM_2_20190712T203716_0190712T20526_D001 CS_OFFL_SIR_LRM_2_20190712T203716_0190712T20526_D001 CS_OFFL_SIR_LRM_2_20190712T203510_D001 CS_OFFL_SIR_LRM_2_20190712T20529_0190712T205210_D001 CS_OFFL_SIR_LRM_2_20190712T20529_0190712T205210_D001 CS_OFFL_SIR_LRM_2_20190712T20529_0190712T205210_D001 CS_OFFL_SIR_LRM_2_20190712T20529_0190712T20510_D001 CS_OFFL_SIR_LRM_2_20190712T20529_0190712T20510_D001 CS_OFFL_SIR_LRM_2_20190712T20529_0190712T20510_D001 CS_OFFL_SIR_LRM_2_20190712T20529_0190712T20510_D001 CS_OFFL_SIR_LRM_2_20190712T20510_0190712T211116_0190712T2111116_0190712	CS_OFFL_SIR_LRM_220190712T180852_20190712T182538_D001	(Retracker 3), Backscatter Error	
CS_OFFL_SIR_LRM_2_20190712T20234_20190712T202855_D001 Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) S_OFFL_SIR_LRM_2_20190712T202858_20190712T203714_D001 CS_OFFL_SIR_LRM_2_20190712T203716_20190712T203910_D001 CS_OFFL_SIR_LRM_2_20190712T203716_20190712T203910_D001 CS_OFFL_SIR_LRM_2_20190712T203716_20190712T203910_D001 CS_OFFL_SIR_LRM_2_20190712T203512_20190712T205226_D001 CS_OFFL_SIR_LRM_2_20190712T203512_20190712T205226_D001 CS_OFFL_SIR_LRM_2_20190712T205229_20190712T205210_D001 CS_OFFL_SIR_LRM_2_20190712T205229_20190712T205810_D001 CS_OFFL_SIR_LRM_2_20190712T205229_20190712T205810_D001 CS_OFFL_SIR_LRM_2_20190712T205229_20190712T205810_D001 CS_OFFL_SIR_LRM_2_20190712T205229_20190712T205810_D001 CS_OFFL_SIR_LRM_2_20190712T2011116_20190712T212755_D001 CS_OFFL_SIR_LRM_2_20190712T211116_20190712T212755_D001 CS_OFFL_SIR_LRM_2_20190712T213009_20190712T214445_D001 CS_OFFL_SIR_LRM_2_20190712T213009_20190712T214445_D001 CS_OFFL_SIR_LRM_2_20190712T221815_20190712T221614_D001 CS_OFFL_SIR_LRM_2_20190712T221815_20190712T221614_D001 CS_OFFL_SIR_LRM_2_20190712T221815_20190712T221614_D001 CS_OFFL_SIR_LRM_2_20190712T221815_20190712T222736_D001 CS_OFFL_SIR_LRM_2_20190712T221815_20190712T222736_D001 CS_OFFL_SIR_LRM_2_20190712T221815_20190712T222736_D001 CS_OFFL_SIR_LRM_2_20190712T221815_20190712T222736_D001 CS_OFFL_SIR_LRM_2_20190712T221815_20190712T223780_D001 CS_OFFL_SIR_LRM_2_20190712T221815_20190712T223780_D001 CS_OFFL_SIR_LRM_2_20190712T221815_20190712T223780_D001 CS_OFFL_SIR_LRM_2_20190712T221815_20190712T223780_D001 CS_OFFL_SIR_LRM_2_20190712T221815_20190712T230708_D001 CS_OFFL_SIR_LRM_2_20190712T221815_20190712T230708_D001 CS_OFFL_SIR_LRM_2_20190712T221815_20190712T230708_D001 CS_OFFL_SIR_LRM_2_20190712T221815_20190712T230708_D001 CS_OFFL_SIR_LRM_2_20190712T221815_20190712T230708_D001 CS_OFFL_SIR_LRM_2_20190712T221815_20190712T230708_D001 CS_OFFL_SIR_LRM_2_20190712T221815_20190712T230708_D001 CS_OFFL_SIR_LRM_2_20190712T221815_20	CS_OFFL_SIR_LRM_220190712T184253_20190712T191840_D001	(Retracker 3), Backscatter Error	
Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 3), Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), Backscatter Error (Retracker 3), Backscatter Error (Retracker 3), Backscatter Error (Retracker 3), Backscatter	CS_OFFL_SIR_LRM_220190712T194028_20190712T200324_D001	(Retracker 3), Backscatter Error	
Error (Retracker 2) Error (Re	CS_OFFL_SIR_LRM_220190712T202234_20190712T202855_D001		
Error (Retracker 2) CS_OFFL_SIR_LRM_2_20190712T204351_20190712T205226_D001 Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), Backscatter Error (Retracker 3)	CS_OFFL_SIR_LRM_220190712T202858_20190712T203714_D001		
Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 3) for one or more records CS_OFFL_SIR_LRM_2_20190712T211116_20190712T212755_D001 CS_OFFL_SIR_LRM_2_20190712T211116_20190712T212755_D001 CS_OFFL_SIR_LRM_2_20190712T213009_20190712T214445_D001 CS_OFFL_SIR_LRM_2_20190712T213009_20190712T214445_D001 CS_OFFL_SIR_LRM_2_20190712T220121_20190712T221614_D001 CS_OFFL_SIR_LRM_2_20190712T220121_20190712T221614_D001 CS_OFFL_SIR_LRM_2_20190712T221815_20190712T222736_D001 CS_OFFL_SIR_LRM_2_20190712T221815_20190712T222736_D001 CS_OFFL_SIR_LRM_2_20190712T221815_20190712T220708_D001 CS_OFFL_SIR_LRM_2_20190712T225153_20190712T230708_D001 CS_OFFL_SIR_LRM_2_20190712T225153_20190712T230708_D001 CS_OFFL_SIR_LRM_2_20190712T225153_20190712T230708_D001 Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retr	CS_OFFL_SIR_LRM_220190712T203716_20190712T203910_D001		
CS_OFFL_SIR_LRM_2_20190712T205229_20190712T205810_D001 (Retracker 3), Backscatter Error (Retracker 2), Backscatter Error (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 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 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 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, a height error for Retracker 3, Backscatter error for Retracker 3, Backscatter error for Retracker 2, a height error for Retracker 2, a height error for Retracker 2, and a neight error for Retracker 2 for one or more records	CS_OFFL_SIR_LRM_220190712T204351_20190712T205226_D001		
Error (Retracker 2) Error (Re	CS_OFFL_SIR_LRM_220190712T205229_20190712T205810_D001	(Retracker 3), Backscatter Error	
CS_OFFL_SIR_LRM_2_20190712T220121_20190712T221614_D001 Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter Error (Retracker 2) CS_OFFL_SIR_LRM_2_20190712T221815_20190712T222736_D001 CS_OFFL_SIR_LRM_2_20190712T225153_20190712T220708_D001 CS_OFFL_SIR_LRM_2_20190712T225153_20190712T230708_D001 CS_OFFL_SIR_LRM_2_20190712T225153_20190712T230708_D001 Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), Backscatter E	CS_OFFL_SIR_LRM_220190712T211116_20190712T212755_D001		
Error (Retracker 2) records CS_OFFL_SIR_LRM_2_20190712T221815_20190712T222736_D001 Error (Retracker 2), Backscatter Error (Retrack	CS_OFFL_SIR_LRM_220190712T213009_20190712T214445_D001		
Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 3), Backscatter Error (Retracker 2), Surface Model Unavailable or more records CS_OFFL_SIR_LRM_2_20190712T225153_20190712T230708_D001 Error (Retracker 2), Height Error (Retracker 2), Height Error (Retracker 3) and no DEM or Slope Model was used for the location of one or more records Height Error (Retracker 2), Backscatter	CS_OFFL_SIR_LRM_220190712T220121_20190712T221614_D001		
CS_OFFL_SIR_LRM_2_20190712T225153_20190712T230708_D001 (Retracker 3), Backscatter Error (Retracker 3 and no DEM or Slope Model was used for the location of one or more records Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 for one or more	CS_OFFL_SIR_LRM_2_20190712T221815_20190712T222736_D001		
	CS_OFFL_SIR_LRM_220190712T225153_20190712T230708_D001	(Retracker 3), Backscatter Error	Retracker 3 and no DEM or Slope Model was used for the location of one
	CS_OFFL_SIR_LRM_220190712T231218_20190712T232521_D001		