



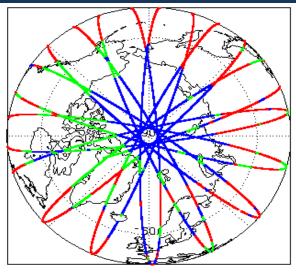
1. Overview

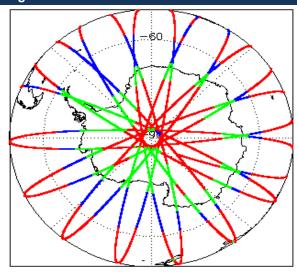
Report Production Date:	24-Jul-2019	
Processor Used:	CryoSat Ice Processor	
Data Used:	L1B and L2 OFFLINE Data	

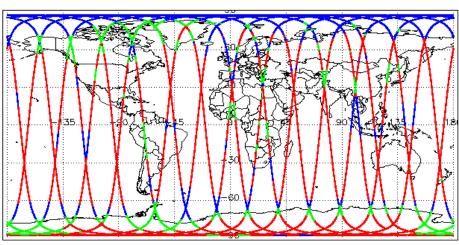
Check	Status
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	See Section 5.2
Star Tracker Usage Check	Nominal
L1B Tracking Flag Check	See Section 4.4
L1B Calibration 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

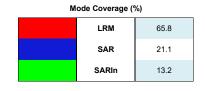
Mission / Instrument News	
22-Jun-201	9 None
23-Jun-201	9 None
24-Jun-201	9 Nothing planned

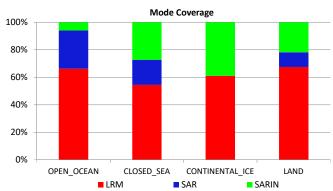
2. Global Coverage

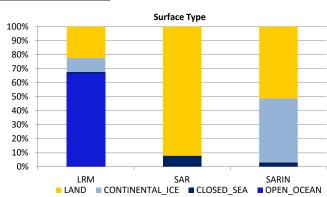












3. Instrument Configuration

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: 88

Product	Test Failed	Description
CS_OFFL_SIR_LRM_1B_20190623T002810_20190623T002915_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190623T003228_20190623T003428_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190623T003431_20190623T003806_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190623T003809_20190623T004222_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190623T005750_20190623T010502_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190623T010522_20190623T012951_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190623T013305_20190623T013521_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190623T013525_20190623T014129_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190623T014505_20190623T020954_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190623T021315_20190623T021749_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190623T021911_20190623T021945_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190623T023455_20190623T023841_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190623T024054_20190623T024155_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190623T024157_20190623T024246_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190623T024249_20190623T025214_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190623T032356_20190623T035037_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190623T035040_20190623T035235_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190623T035319_20190623T035452_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190623T035525_20190623T035921_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190623T041531_20190623T043127_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190623T051229_20190623T051702_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190623T052036_20190623T052823_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190623T053106_20190623T053141_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190623T053159_20190623T053507_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190623T053805_20190623T053815_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190623T070335_20190623T070855_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190623T071003_20190623T071040_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190623T071050_20190623T071109_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190623T071130_20190623T071219_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190623T073111_20190623T080528_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190623T081337_20190623T081750_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190623T090841_20190623T092305_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190623T092745_20190623T092923_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190623T092926_20190623T092946_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190623T092953_20190623T094453_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190623T100342_20190623T101603_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190623T104759_20190623T105329_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190623T105734_20190623T110705_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190623T110907_20190623T112347_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190623T114534_20190623T114839_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190623T114842_20190623T114910_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190623T114914_20190623T114923_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190623T114926_20190623T114929_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190623T115058_20190623T115128_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190623T115730_20190623T115858_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190623T115901_20190623T115908_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190623T115911_20190623T120141_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190623T120144_20190623T121027_D001	Loss of echo	The tracking echo is missing for one or more records
		•

CS_OFFL_SIR_LRM_1B_20190623T122638_20190623T123148_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190623T123204_20190623T123655_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190623T123907_20190623T124007_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190623T131118_20190623T131245_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190623T131759_20190623T134036_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190623T134040_20190623T135147_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190623T135310_20190623T135354_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190623T140612_20190623T140859_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190623T140914_20190623T141318_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190623T141653_20190623T144208_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190623T145016_20190623T145341_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190623T152533_20190623T152826_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190623T154629_20190623T155143_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190623T155215_20190623T155439_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190623T155443_20190623T155525_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190623T155529_20190623T162133_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190623T162914_20190623T163246_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190623T172332_20190623T172545_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190623T172732_20190623T173119_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190623T173517_20190623T173635_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190623T173818_20190623T174311_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190623T174340_20190623T174817_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190623T174923_20190623T175315_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190623T190901_20190623T190948_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190623T190951_20190623T191110_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190623T191305_20190623T191824_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190623T194400_20190623T194835_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190623T195541_20190623T200049_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190623T200058_20190623T203200_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190623T213514_20190623T215035_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190623T215039_20190623T215202_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190623T215642_20190623T220356_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190623T220500_20190623T221056_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190623T224257_20190623T225802_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190623T231425_20190623T232831_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190623T233010_20190623T234439_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190623T234441_20190623T234509_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190623T234512_20190623T234551_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190623T234642_20190623T235057_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190623T235131_20190623T235156_D001	Loss of echo	The tracking echo is missing for one or more records
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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:

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_20190623T092926_20190623T092946_D001	Echo error, TRK echo error	The tracking echo has returned an error and the Rx1 Echo Error flag is set, indicating a degraded echo
CS_OFFL_SIR_LRM_1B_20190623T120144_20190623T121027_D001	Echo error, TRK echo error	The tracking echo has returned an error and the Rx1 Echo Error flag is set, indicating a degraded echo

5. Level 2 Data Quality 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:

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.

0

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:

SG_OFFL_SIR_LRM_2_20190623T001928_20190623T001924_D001 Fleight Error (Retracker 2). Backscatter Three is a height and backscatter error for Retracker 2 for one or more error (Retracker 2). Backscatter Three is a height and backscatter error for Retracker 2 for one or more error (Retracker 2). Backscatter Three is a height and backscatter error for Retracker 2 for one or more error (Retracker 2). Backscatter Three is a height and backscatter error for Retracker 2 for one or more error (Retracker 2). Backscatter Three is a height and backscatter error for Retracker 2 for one or more error for Ret	Product	Test Failed	Description
Emor (Retracker 2) Surface Model Unavailable No DEM or Slope Model was used for the location of one or more records Ferror (Retracker 2) Begin Emor (Retracker 2) Begin Emor (Retracker 2) Bedsecatter Emor (Retracker 2	CS_OFFL_SIR_LRM_220190623T000518_20190623T001922_D001		
Height Error (Retracker 2). Backscatter Error (Retracker 2). Backs	CS_OFFL_SIR_LRM_220190623T001928_20190623T001954_D001		
CS_OFFL_SIR_LRM_2_20190623T019522_20190623T02954_D001 Enror (Retracker 2) Height Error (Retracker 2). Backscatter Error (Retracker	CS_OFFL_SIR_LRM_220190623T003228_20190623T003428_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
Error (Retracker 2) CS_OFFL_SIR_LRM_2_20190623T014505_20190623T021945_D001 Error (Retracker 2) Error (Retracker 2) Finer 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 (Retracker 3). Backscatter error for Retracker 3). Backscatter error for Retracker 3 for one or more records CS_OFFL_SIR_LRM_2_20190623T025748_20190623T035037_D001 Error (Retracker 2). Backscatter error (Retracker 3). Backscatter error (Retracker 3). Backscatter error for Retracker 3 for one or more records CS_OFFL_SIR_LRM_2_20190623T035339_20190623T035037_D001 Error (Retracker 2). Backscatter error (Retracker 2). Backscatter error for Retracker 2 for one or more records CS_OFFL_SIR_LRM_2_20190623T035339_20190623T040036_D001 Error (Retracker 2). Backscatter error (Retracker 3). Backscatter error for Retracker 2 for one or more records CS_OFFL_SIR_LRM_2_20190623T041531_20190623T043127_D001 Error (Retracker 2). Backscatter error (Retracker 2). Backscatter error (Retracker 3). Backscatter error for Retracker 2 for one or more records Error (Retracker 2). Backscatter error (Retracker 3). Backscatter error for Retracker 2 for one or more records Error (Retracker 2). Backscatter error (Retracker 3). Backscatter error for Retracker 2 for one or more records Error (Retracker 2). Backscatter error for Retracker 2 for one or more records Error (Retracker 2). Backscatter error for Retracker 2 for one or more records Error (Retracker 2). Backscatter error for Retracker 2 for one or more records Error (Retracker 2). Backscatter error for Retracker 2 for one or more records Error (Retracker 2). Backscatter error for Retracker 2 for one or more records Error (Retracker 2). Backscatter error for Retracker 2 for one or more records Error (Retracker 2). Backscatter error for Retracke	CS_OFFL_SIR_LRM_2_20190623T005750_20190623T010502_D001	,	9
Error (Retracker 2). Backscatter error for Retracker 2 on one or more records CS_OFFL_SIR_LRM_2_20190623T024249_20190623T025214_D001	CS_OFFL_SIR_LRM_220190623T010522_20190623T012951_D001		
Error (Retracker 2) Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 3 for one or more records CS_OFFL_SIR_LRM_2_20190623T025748_20190623T030839_D001 Height 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 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 The	CS_OFFL_SIR_LRM_220190623T014505_20190623T020954_D001		
(Retracker 3), Backscatter Error (Retracker 3) for Retracker 3 for one or more records for Retracker 3 and a neight error (Retracker 3) for Retracker 3 for one or more records for Retracker 2 for one or more records for Retracker 3 for one or more records for Retracker 2 for one or more records for Retracker 3 for one or mor	CS_OFFL_SIR_LRM_2_20190623T021911_20190623T021945_D001		
Error (Retracker 2) CS_OFFL_SIR_LRM_2_20190623T032356_20190623T040036_D001 Error (Retracker 2), Backscatter Error (Retracker 3), Backscatter Error (Retracker 2), B	CS_OFFL_SIR_LRM_220190623T024249_20190623T025214_D001	(Retracker 3), Backscatter Error	o o
Error (Retracker 2) Height Error (Retracker 3) Backscatter Error (Retracker 3) For Retracker 3 for one or more records There is a height and backscatter error for Retracker 2 and a height error (Retracker 3) There is a height and backscatter error for Retracker 2 and a height error (Retracker 3) 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 and a height error (Retracker 2). Backscatter error for Retracker 2 and a height error (Retracker 2). Backscatter error for Retracker 2 and a height error (Retracker 2). Backscatter error for Retracker 2 and a height error (Retracker 2). Backscatter error for Retracker 2 and a height error (Retracker 2). Backscatter error for Retracker 2 and a height error (Retracker 2). Backscatter error for Retracker 2 and a height error (Retracker 2). Backscatter error for Retracker 2 and a height error (Retracker 2). Backscatter e	CS_OFFL_SIR_LRM_2_20190623T025748_20190623T030839_D001		
Error (Retracker 2) Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), Backsc	CS_OFFL_SIR_LRM_2_20190623T032356_20190623T035037_D001		
CS_OFFL_SIR_LRM_2_20190623T041531_20190623T04715_D001 (Retracker 3), Backscatter Error (Retracker 2) and a neight error (Retracker 3) 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_2_20190623T053906_20190623T054027_D001 Elight Error (Retracker 2), Backscatter Error (Retracker 3), Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), Backscatter Error (Retracker 2), Backscatter Error (Ret	CS_OFFL_SIR_LRM_2_20190623T035939_20190623T040036_D001		
Error (Retracker 2) records CS_OFFL_SIR_LRM_2_20190623T053906_20190623T054027_D001	CS_OFFL_SIR_LRM_2_20190623T041531_20190623T043127_D001	(Retracker 3), Backscatter Error	
Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter Error (Retracker 2) Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter Error (Retracker 2) Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter Error (Retracker 2) Error (Retracker 2) Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter Error (Retracker 2), Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 3), Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), Backscatter Error (Retracker 2), Bac	CS_OFFL_SIR_LRM_2_20190623T043458_20190623T044715_D001		
Error (Retracker 2) records CS_OFFL_SIR_LRM_2_20190623T064233_20190623T070017_D001	CS_OFFL_SIR_LRM_2_20190623T053906_20190623T054027_D001		
Error (Retracker 2) CS_OFFL_SIR_LRM_2_20190623T073111_20190623T080528_D001 CS_OFFL_SIR_LRM_2_20190623T082232_20190623T080528_D001 CS_OFFL_SIR_LRM_2_20190623T082232_20190623T085615_D001 CS_OFFL_SIR_LRM_2_20190623T082232_20190623T092305_D001 CS_OFFL_SIR_LRM_2_20190623T090841_20190623T092305_D001 CS_OFFL_SIR_LRM_2_20190623T090841_20190623T092305_D001 CS_OFFL_SIR_LRM_2_20190623T090841_20190623T092305_D001 CS_OFFL_SIR_LRM_2_20190623T090841_20190623T092305_D001 CS_OFFL_SIR_LRM_2_20190623T092375_20190623T09233_D001 Error (Retracker 2), Height Error (Retracker 2), Backscatter Error (Retracker 2), Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 3)	CS_OFFL_SIR_LRM_2_20190623T055333_20190623T062651_D001		
CS_OFFL_SIR_LRM_2_20190623T073111_20190623T080528_D001 (Retracker 3), Backscatter Error (Retracker 2) for Retracker 3 for one or more records CS_OFFL_SIR_LRM_2_20190623T082232_20190623T085615_D001 CS_OFFL_SIR_LRM_2_20190623T092305_D001 CS_OFFL_SIR_LRM_2_20190623T090841_20190623T092305_D001 CS_OFFL_SIR_LRM_2_20190623T092305_D001 CS_OFFL_SIR_LRM_2_20190623T092	CS_OFFL_SIR_LRM_2_20190623T064233_20190623T070017_D001		
Error (Retracker 2) records CS_OFFL_SIR_LRM_2_20190623T092341_20190623T092305_D001 Error (Retracker 2), Height Error (Retracker 2), Height Error (Retracker 3), 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 CS_OFFL_SIR_LRM_2_20190623T092345_20190623T092335_D001 Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 for one or more	CS_OFFL_SIR_LRM_220190623T073111_20190623T080528_D001	(Retracker 3), Backscatter Error	
CS_OFFL_SIR_LRM_2_20190623T090841_20190623T092305_D001 (Retracker 3), Backscatter Error (Retracker 3 for one or more records (Retracker 2) Height Error (Retracker 2), Backscatter 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 neight error for Retracker 2 and a neight error for Retracker 3 for one or more records	CS_OFFL_SIR_LRM_2_20190623T082232_20190623T085615_D001		
	CS_OFFL_SIR_LRM_220190623T090841_20190623T092305_D001	(Retracker 3), Backscatter Error	
	CS_OFFL_SIR_LRM_220190623T092745_20190623T092923_D001		9

	Height Error (Retracker 2), Height Error	
CS_OFFL_SIR_LRM_220190623T092953_20190623T094453_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_2_20190623T100342_20190623T101603_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_20190623T101759_20190623T103518_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_20190623T105734_20190623T110705_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_20190623T110907_20190623T112347_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_20190623T114006_20190623T114225_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_20190623T115058_20190623T115128_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_2_20190623T115911_20190623T120141_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_20190623T120144_20190623T121027_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_20190623T123204_20190623T123655_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220190623T124721_20190623T130238_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_220190623T131759_20190623T134036_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_220190623T134040_20190623T135147_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_220190623T141653_20190623T144208_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_20190623T145710_20190623T150811_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_20190623T151344_20190623T152338_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_220190623T152533_20190623T152826_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_20190623T155529_20190623T162133_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_20190623T163707_20190623T171031_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_20190623T172332_20190623T172545_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_20190623T181625_20190623T183743_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_20190623T184029_20190623T185114_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_20190623T192146_20190623T192636_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_220190623T192824_20190623T193853_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_220190623T195541_20190623T200049_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_220190623T200058_20190623T203200_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_220190623T204709_20190623T211613_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_220190623T213514_20190623T215035_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_220190623T215039_20190623T215202_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_20190623T215642_20190623T220356_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_220190623T222523_20190623T224043_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_220190623T224257_20190623T225802_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_220190623T231425_20190623T232831_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_220190623T233010_20190623T234439_D001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
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