







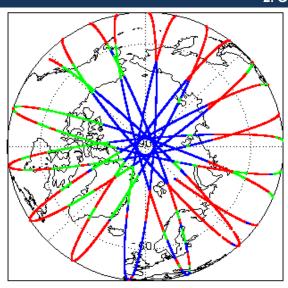
1. Overview

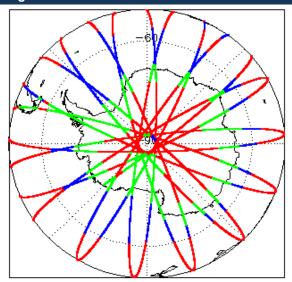
Report Production Date:	08-Oct-2019
Processor Used:	CryoSat Ice Processor
Data Used:	L1B and L2 OFFLINE Data

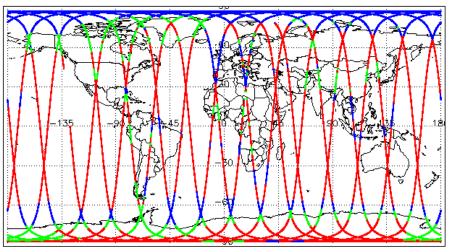
Check	Status
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	Nominal
Star Tracker Usage Check	Nominal
L1B Tracking Flag Check	See Section 4.4
L1B Calibration Usage Check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

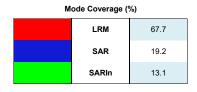
Mission / Instrument News	
06-Sep-2019	None
07-Sep-2019	None
08-Sep-2019	Nothing planned

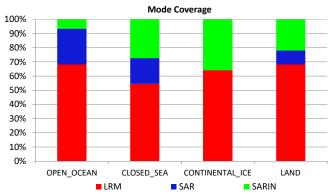
2. Global Coverage

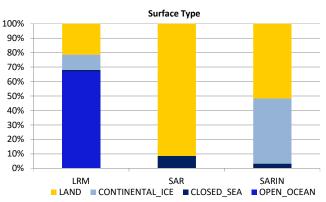












3. Instrument Configuration

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

SIRAL instrument(s) in use:

SIRAL - A

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:

0

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

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:

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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:

02

roduct	Test Failed	Description
S_OFFL_SIR_LRM_1B_20190907T001230_20190907T003933_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20190907T004024_20190907T004249_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20190907T004322_20190907T005019_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20190907T015822_20190907T020153_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20190907T020315_20190907T020803_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20190907T020820_20190907T021319_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20190907T021939_20190907T022040_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20190907T022101_20190907T022223_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20190907T022447_20190907T022502_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20190907T035132_20190907T035602_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20190907T035710_20190907T035800_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20190907T041803_20190907T045306_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20190907T055632_20190907T061055_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20190907T061535_20190907T061646_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20190907T061649_20190907T063219_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20190907T065018_20190907T070247_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20190907T070250_20190907T070252_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20190907T070254_20190907T070355_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20190907T070727_20190907T072256_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20190907T073521_20190907T074256_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20190907T074535_20190907T075555_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20190907T083242_20190907T084105_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20190907T084459_20190907T084947_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20190907T085231_20190907T085817_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20190907T091407_20190907T091955_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20190907T092002_20190907T092116_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20190907T092118_20190907T092126_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20190907T092129_20190907T092136_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20190907T092140_20190907T092151_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20190907T092206_20190907T092214_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20190907T092216_20190907T092256_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20190907T092657_20190907T092728_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20190907T095455_20190907T095840_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20190907T100610_20190907T103341_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20190907T103556_20190907T103609_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20190907T103611_20190907T103612_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20190907T103614_20190907T103924_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20190907T105647_20190907T110137_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20190907T110255_20190907T110312_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20190907T110522_20190907T112904_D001	Loss of echo	The tracking echo is missing for one or more records

CS_OFFL_SIR_LRM_1B_20190907T123108_20190907T123809_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190907T123842_20190907T124836_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190907T124839_20190907T125036_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190907T125038_20190907T130011_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190907T131237_20190907T131828_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190907T131831_20190907T132030_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190907T132621_20190907T135754_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190907T141248_20190907T141322_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190907T141635_20190907T141914_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190907T141925_20190907T142009_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190907T142324_20190907T142422_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190907T142932_20190907T143246_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190907T143316_20190907T143511_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190907T152820_20190907T153947_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190907T155907_20190907T160047_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190907T160135_20190907T160644_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190907T160816_20190907T161426_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190907T164354_20190907T171945_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190907T175133_20190907T180409_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190907T181333_20190907T181529_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190907T182305_20190907T183756_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190907T183959_20190907T185011_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190907T185311_20190907T185931_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190907T191208_20190907T192834_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190907T193137_20190907T193256_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190907T193314_20190907T193329_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190907T193332_20190907T194018_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190907T195203_20190907T195449_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190907T202512_20190907T202635_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190907T202645_20190907T202821_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190907T202824_20190907T202831_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190907T202833_20190907T203915_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190907T205109_20190907T205328_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190907T205451_20190907T210040_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190907T210324_20190907T212610_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190907T213000_20190907T213839_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190907T214221_20190907T220614_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190907T221126_20190907T221452_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190907T222947_20190907T223036_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190907T223158_20190907T223633_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190907T223758_20190907T230532_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190907T232143_20190907T234959_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20190907T235035_20190907T235922_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: 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. 0

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_20190907T055632_20190907T061055_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_20190907T164354_20190907T171945_D001		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

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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:

Product	Test Failed	Description
CS_OFFL_SIR_LRM_220190907T001230_20190907T003933_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_220190907T004322_20190907T005019_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_220190907T010209_20190907T013417_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_220190907T022101_20190907T022223_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_220190907T022553_20190907T022929_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_220190907T024108_20190907T025016_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2), Surface Model Unavailable	There is a height and backscatter error for Retracker 2 and no DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220190907T025300_20190907T031422_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_220190907T033200_20190907T034244_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_220190907T034323_20190907T034806_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_220190907T041803_20190907T045306_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_220190907T051216_20190907T054358_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_20190907T055632_20190907T061055_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2), Surface Model	There is a height and backscatter error for Retracker 2 and no DEM or Slope Model was used for the location of one or more records

Unavailable

Slope Model was used for the location of one or more records

COUNT, SPELIAN 2, 20000007100000, 20000007100000, 2000007110000, 20000007110000, 20000007110000, 20000007110000, 20000007110000, 20000007110000, 20000007110000, 200000071100000, 2000000000000000000000000000000	CS_OFFL_SIR_LRM_2_20190907T061535_20190907T061646_D001	Height Error (Retracker 2), Backscatter	There is a height and backscatter error for Retracker 2 for one or more
Compression (1994) 2, 20100007100001, 20100007100001 (1994) 2010007100001 (1994) 20100007100001 (1994) 20100007100001 (1994) 20100007100001 (1994) 20100007100001 (1994) 20100007100001 (1994) 20100007100001 (1994) 20100007100001 (1994) 201000071000001 (1994) 201000071000001 (1994) 201000071000001 (1994) 201000071000001 (1994) 201000071000001 (1994) 201000071000001 (1994) 201000071000001 (1994) 201000071000001 (1994) 2010000710000001 (1994) 2010000710000001 (1994) 201000007100000001 (1994) 201000007100000000000000000000000000000	CS OFFI SIR I RM 2 20190907T061649 20190907T063219 D001		
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Detail (Programme 2). Security of the Steps thoder was used for the Section of one or more records. CE CEFFL SRE LINE 2_201000007101202 (201000071012000, DBS) Analysis (Line (Personer 2). Security of the Section of the Certain of Section of the Certain of Section of Sectio	CS_OFFL_SIR_LRM_220190907T070727_20190907T072256_D001	(Retracker 3), Backscatter Error	
Hays From (National 2), Nays From (Received 2) are a height and baseacone over for Necessian 2 are a height and seasone even for Necessian 2 are a height and se	CS_OFFL_SIR_LRM_220190907T072403_20190907T072545_D001		· ·
CS_OFFL_SRL_EM_2_20100007T045052_01000007T045052_0100007T045052_0100007T045052_0100007T045052_0100007T045052_0100007T045052_0100007T045052_0100007T045052_0100007T045052_0100007T045052_0100007T045052_0100007T045052_0100007T045052_0100007T045052_0100007T045052_0100007T045052_0100007T045052_01000007T045052_0100007T045052_0100007T045052_0100007T045052_0100007T045052_0100007T045052_0100007T045052_0100007T045052_0100007T045052_0100007T045052_0100007T045052_0100007T045052_0100007T045052_0100007T045052_0100007T045052_0100007T045052_0100007T045052_01000007T045052_0100007T045052_0100007T045052_0100007T045052_0100007T045052_0100007T045052_0100007T045052_0100007T045052_0100007T045052_0100007T045052_0100007T045052_0100007T045052_0100007T045052_0100007T045052_0100007T045052_0100007T045052_0100007T045052_01000007T045052_0100007T045052_0100007T045052_0100007T045052_0100007T045052_0100007T045052_0100007T045052_0100007T045052_0100007T045052_0100007T045052_0100007T045052_0100007T045052_0100007T045052_0100007T045052_0100007T045052_0100007T045052_0100007T045052_01000007T045052_0100007T045052_0100007T045052_0100007T045052_0100007T045052_0100007T045052_0100007T045052_0100007T045052_0100007T045052_0100007T045052_0100007T045052_0100007T045052_0100007T045052_0100007T045052_0100007T045052_0100007T045052_0100007T045052_01000007T045052_0100007T045052_0100007T045052_0100007T045052_0100007T045052_0100007T045052_0100007T045052_0100007T045052_0100007T0450	CS_OFFL_SIR_LRM_2_20190907T073521_20190907T074256_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
Exp. (Pert., Set Lien.)	CS_OFFL_SIR_LRM_220190907T074535_20190907T075555_D001	(Retracker 3), Backscatter Error	
CS_OFFL_SRL_FM1_2_20100007T109459_201900007T109459_201900007T109459_201900007T109459_201900007T109459_201900007T109459_201900007T109459_2019000007T109459_2019000007T109459_2019000007T109459_2019000007T109459_2019000007T109	CS_OFFL_SIR_LRM_2_20190907T075735_20190907T081107_D001		*
CS_OFFL_SIR_LENI_2_0100007110930_20100007110934_0001 CS_OFFL_SIR_LENI_2_0100007110932_20100007112934_0001 CS_OFFL_SIR_LENI_2_0100007110932_20100007112934_0001 CS_OFFL_SIR_LENI_2_0100007110932_20100007112934_00001 CS_OFFL_SIR_LENI_2_0100007110932_20100007112934_00001 CS_OFFL_SIR_LENI_2_0100007112934_000001 CS_OFFL_SIR_LENI_2_0100007112934_000001 CS_OFFL_SIR_LENI_2_0100007112934_000007112934_00001 CS_OFFL_SIR_LENI_2_0100007112934_000007112934_000001 CS_OFFL_SIR_LENI_2_0100007112934_000007112934_000001 CS_OFFL_SIR_LENI_2_0100007112934_000007112934_000001 CS_OFFL_SIR_LENI_2_0100007112934_000007112934_000001 CS_OFFL_SIR_LENI_2_0100007112934_000007112934_000001 CS_OFFL_SIR_LENI_2_01000077129342_01000077129345_00001 CS_OFFL_SIR_LENI_2_01000077129342_01000077129345_00001 CS_OFFL_SIR_LENI_2_01000077129342_01000077129345_00001 CS_OFFL_SIR_LENI_2_01000077129345_00001 CS_OFFL_SIR_LENI_2_01000077129345_0000077129345_00001 CS_OFFL_SIR_LENI_2_01000077129345_0000077129345_00001 CS_OFFL_SIR_LENI_2_01000077129345_0000077129345_00001 CS_OFFL_SIR_LENI_2_01000077129345_0000077129345	CS_OFFL_SIR_LRM_220190907T083242_20190907T084105_D001	(Retracker 3), Backscatter Error (Retracker 2)	
CS_OFFL_SIR_LBM_2_201000071100342_201000071100344_D001 CS_OFFL_SIR_LBM_2_20100007100340_201000071100341_D001 CS_OFFL_SIR_LBM_2_201000071100342_201000071100344_D001 CS_OFFL_SIR_LBM_2_201000071100342_201000071100344_D001 CS_OFFL_SIR_LBM_2_201000071100342_201000071100344_D001 CS_OFFL_SIR_LBM_2_201000071100342_201000071100344_D001 CS_OFFL_SIR_LBM_2_201000071100342_201000071100344_D001 CS_OFFL_SIR_LBM_2_201000071100342_201000071100344_D001 CS_OFFL_SIR_LBM_2_201000071100342_20100007112009_D001 CS_OFFL_SIR_LBM_2_20100007112009_D001 CS_OFFL_SIR_LBM_2_20100007112009_D0001 CS_OFFL_SIR_LBM_2_20100007112009_D0001 CS_OFFL_SIR_LBM_2_20100007112009_D00007112009_D001 CS_OFFL_SIR_LBM_2_20100007112009_D00007112009_D001 CS_OFFL_SIR_LBM_2_20100007112009_D00007112009_D001 CS_OFFL_SIR_LBM_2_20100007112009_D000007112009_D00007112009_D00007112009_D00007112009_D00007112009_D00007112009_D00007112009_D00007112009_D00007112009_D00007112009_D00007112009_D00007112009_D00007112009_D00007112009_D00007112009_D00007112009_D00007112009_D00007112009_D00007112009_D00007112009_	CS_OFFL_SIR_LRM_220190907T084459_20190907T084947_D001	(Retracker 3), Backscatter Error	
CS_OFFL_SIR_LEM_2_20190007T10924_20190007T105341_D001 Signific Fror (Retroker 2) Backscatter from from its analyst and backscatter error for Retroker 2 for one or more records. CS_OFFL_SIR_LEM_2_20190007T105252_00190007T105254_D001 CS_OFFL_SIR_LEM_2_20190007T105252_00190007T105254_D001 CS_OFFL_SIR_LEM_2_20190007T105252_00190007T105259_D001 CS_OFFL_SIR_LEM_2_20190007T105252_00190007T105059_D001 CS_OFFL_SIR_LEM_2_20190007T105007_00190007T105004_D001 Height Error (Retroker 2) Backscatter error for Retroker 2 for one or more records. CS_OFFL_SIR_LEM_2_20190007T105007_00190007T105004_D001 Height Error (Retroker 2) Backscatter error for Retroker 2 for one or more records. CS_OFFL_SIR_LEM_2_20190007T105007_00190007T105004_D001 Height Error (Retroker 2) Backscatter error for Retroker 2 for one or more records. CS_OFFL_SIR_LEM_2_20190007T105007_00190007T105004_D001 Height Error (Retroker 2) Backscatter error for Retroker 2 for one or more records. CS_OFFL_SIR_LEM_2_20190007T105007_00190007T105004_D001 CS_OFFL_SIR_LEM_2_20190007T105007_00190007T105004_D001 CS_OFFL_SIR_LEM_2_20190007T105007_00190007T105004_D001 CS_OFFL_SIR_LEM_2_20190007T105007_00190007T105004_D001 CS_OFFL_SIR_LEM_2_20190007T105004_D0010007T105004_D001 CS_OFFL_SIR_LEM_2_20190007T105004_D0010007T105004_D001 Height Error (Retroker 2) Backscatter error for Retroker 2 for one or more records. CS_OFFL_SIR_LEM_2_20190007T105004_D00100007T105004_D00100007T105004_D00100007T105004_D00100007T105004_D00100007T105004_D00100007T105004_D001000007T105004_D00100000000000000000000	CS_OFFL_SIR_LRM_220190907T085930_20190907T090154_D001	(Retracker 3), Backscatter Error (Retracker 2)	
Exit (Retracker 2) Exit (Retracker 2) Bediscated Force F	CS_OFFL_SIR_LRM_2_20190907T092834_20190907T094927_D001	(Retracker 3), Backscatter Error	
Envir (Retracker 2). Backscatter cross is a height and backscatter error for Retracker 2 for one or more cross. CS_OFFL_SIR_LRM_2_20190807T112507_20190907T12804_D001 CS_OFFL_SIR_LRM_2_20190807T12507_20190907T12809_D001 CS_OFFL_SIR_LRM_2_20190807T12102_20190907T12809_D001 CS_OFFL_SIR_LRM_2_20190907T12804_D001 CS_OFFL_SIR_LRM_2_20190907T12804_20190907T12809_D001 CS_OFFL_SIR_LRM_2_20190907T12803_20190907T12809_D001 CS_OFFL_SIR_LRM_2_20190907T12803_20190907T12809_D001 CS_OFFL_SIR_LRM_2_20190907T12903_20190907T12809_D001 CS_OFFL_SIR_LRM_2_20190907T12903_20190907T12809_D001 CS_OFFL_SIR_LRM_2_20190907T12903_20190907T12809_D001 CS_OFFL_SIR_LRM_2_20190907T12903_20190907T12809_D001 CS_OFFL_SIR_LRM_2_20190907T140132_20190907T140142_D001 CS_OFFL_SIR_LRM_2_20190907T140132_20190907T140142_D001 CS_OFFL_SIR_LRM_2_20190907T140132_20190907T140142_D001 CS_OFFL_SIR_LRM_2_20190907T140132_20190907T140142_D001 CS_OFFL_SIR_LRM_2_20190907T14033_20190907T140142_D001 CS_OFFL_SIR_LRM_2_20190907T14033_20190907T140142_D001 CS_OFFL_SIR_LRM_2_20190907T14033_20190907T140142_D001 CS_OFFL_SIR_LRM_2_20190907T14033_20190907T140142_D001 CS_OFFL_SIR_LRM_2_20190907T14033_20190907T140142_D001 CS_OFFL_SIR_LRM_2_20190907T14033_20190907T14034_D001 CS_OFFL_SIR_LRM_2_20190907T14033_20190907T14034_D001 CS_OFFL_SIR_LRM_2_20190907T14033_20190907T14034_D001 CS_OFFL_SIR_LRM_2_20190907T14033_20190907T14034_D001 CS_OFFL_SIR_LRM_2_20190907T14033_20190907T14034_D001 CS_OFFL_SIR_LRM_2_20190907T14034_D001 CS_OFFL_SIR_LRM_2_20190907T14034_D0010 CS_OFFL_SIR_LRM_2_20190907T16034_20190907T160361_D001 CS_OFFL_SIR_LRM_2_20190907T16034_20190907T160361_D	CS_OFFL_SIR_LRM_2_20190907T100610_20190907T103341_D001		
Exp (Fetracker 2), Backscatter From (Fetracker 2), Backscatter	CS_OFFL_SIR_LRM_220190907T105254_20190907T105524_D001		
Error (Retracker 2). Backscatter error for Retracker 2 for one or more records CS_OFFL_SIR_LRM_2_20190907T123108_20190907T123804_D001 Error (Retracker 2). 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 CS_OFFL_SIR_LRM_2_20190907T123804_20190907T124830_D001 Error (Retracker 2). 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 CS_OFFL_SIR_LRM_2_20190907T125038_20190907T138754_D001 CS_OFFL_SIR_LRM_2_20190907T140322_20190907T139554_D001 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 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 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	CS_OFFL_SIR_LRM_220190907T110522_20190907T112904_D001		
Error (Retracker 2) Backscatter Ferror (Retracker 2) Backscatter F	CS_OFFL_SIR_LRM_220190907T114520_20190907T120259_D001		•
Error (Retracker 2). Height Error (Retracker 2). Backscatter Error (Retracker 2) error (Retracker 2). Backscatter Error (Retracker 2	CS_OFFL_SIR_LRM_220190907T121507_20190907T121804_D001		· ·
recods recodes	CS_OFFL_SIR_LRM_220190907T123108_20190907T123809_D001		*
(Retracker 2), Backscatter Error (Retracker 2) and a relight error (Retracker 2) regint and backscatter error for Retracker 2 and a relight error (Retracker 2) regint arror (retracker 3) for more records CS_OFFL_SIR_LRM_2_20190907T140132_20190907T140142_D001 CS_OFFL_SIR_LRM_2_20190907T140132_20190907T140142_D001 CS_OFFL_SIR_LRM_2_20190907T140952_20190907T14107D001 CS_OFFL_SIR_LRM_2_20190907T140952_20190907T1410D001 CS_OFFL_SIR_LRM_2_20190907T140952_20190907T1410D001 CS_OFFL_SIR_LRM_2_20190907T140952_20190907T1410D001 CS_OFFL_SIR_LRM_2_20190907T140952_20190907T1410D001 CS_OFFL_SIR_LRM_2_20190907T140952_20190907T1410D001 CS_OFFL_SIR_LRM_2_20190907T143036_20190907T143016_D001 CS_OFFL_SIR_LRM_2_20190907T143036_20190907T143050_D001 CS_OFFL_SIR_LRM_2_20190907T143036_20190907T143050_D001 CS_OFFL_SIR_LRM_2_20190907T150438_20190907T15200_D0001 CS_OFFL_SIR_LRM_2_20190907T150438_20190907T150407_D001 CS_OFFL_SIR_LRM_2_20190907T150438_20190907T150407_D001 CS_OFFL_SIR_LRM_2_20190907T160408_20190907T150407_D001 CS_OFFL_SIR_LRM_2_20190907T160408_20190907T160408_D001 CS_OFFL_SIR_LRM_2_20190907T160408_20190907T160408_D001 CS_OFFL_SIR_LRM_2_20190907T160408_20190907T160408_D001 CS_OFFL_SIR_LRM_2_20190907T160408_20190907T160408_D001 CS_OFFL_SIR_LRM_2_20190907T160408_20190907T160408_D001 CS_OFFL_SIR_LRM_2_20190907T160408_20190907T160408_D001 CS_OFFL_SIR_LRM_2_20190907T160408_20190907T179145_D001 CS_OFFL_SIR_LRM_2_20190907T160408_20190907T179140_D001 CS_OFFL_SIR_LRM_2_20190907T160408_20190907T179126_D001 CS_OFFL_SIR_LRM_2_20190907T160408_20190907T179126_D001 CS_OFFL_SIR_LRM_2_20190907T160408_20190907T179126_D001 CS_OFFL_SIR_LRM_2_20190907T160408_20190907T179126_D001 CS_OFFL_SIR_LRM_2_20190907T179130_20190907T179126_D001 CS_OFFL_SIR_LRM_2_20190907T160408_20190907T179126_D001 CS_OFFL_SIR_LRM_2_20190907T160408_20190907T179126_D001 CS_OFFL_SIR_LRM_2_20190907T160408_20190907T179126_D001 CS_OFFL_SIR_LRM_2_20190907T160408_20190907T179126_D001 CS_OFFL_SIR_LRM_2_20190907T160408_20190907T179126_D001 CS_OFFL_SI	CS_OFFL_SIR_LRM_2_20190907T123842_20190907T124836_D001		
CS_OFFL_SIR_LRM_2_20190907T140132_20190907T140142_D001	CS_OFFL_SIR_LRM_2_20190907T125038_20190907T130011_D001	(Retracker 3), Backscatter Error (Retracker 2)	
Error (Retracker 2) records CS_OFFL_SIR_LRM_2_20190907T140952_20190907T141207_D001 Height Error (Retracker 2). Backscatter Error (R	CS_OFFL_SIR_LRM_220190907T132621_20190907T135754_D001	(Retracker 3), Backscatter Error (Retracker 2), Surface Model	Retracker 3 and no DEM or Slope Model was used for the location of one
Error (Retracker 2) CS_OFFL_SIR_LRM_2_20190907T141635_20190907T141914_D001 Error (Retracker 2). Backscatter Error (Retracker 2). B	CS_OFFL_SIR_LRM_2_20190907T140132_20190907T140142_D001		*
Error (Retracker 2) CS_OFFL_SIR_LRM_2_20190907T143316_20190907T143511_0001 Error (Retracker 2), Backscatter Error (Retracker 2), B	CS_OFFL_SIR_LRM_2_20190907T140952_20190907T141207_D001	,	•
CS_OFFL_SIR_LRM_2_20190907T143734_20190907T144636_D001 CS_OFFL_SIR_LRM_2_20190907T150438_20190907T152535_D001 CS_OFFL_SIR_LRM_2_20190907T150438_20190907T152535_D001 CS_OFFL_SIR_LRM_2_20190907T152820_20190907T152947_D001 CS_OFFL_SIR_LRM_2_20190907T152820_20190907T153947_D001 CS_OFFL_SIR_LRM_2_20190907T160816_20190907T162612_D001 CS_OFFL_SIR_LRM_2_20190907T161512_20190907T162612_D001 CS_OFFL_SIR_LRM_2_20190907T164354_20190907T17945_D001 CS_OFFL_SIR_LRM_2_20190907T164354_20190907T17945_D001 CS_OFFL_SIR_LRM_2_20190907T164354_20190907T17945_D001 CS_OFFL_SIR_LRM_2_20190907T164354_20190907T17945_D001 CS_OFFL_SIR_LRM_2_20190907T164354_20190907T17945_D001 CS_OFFL_SIR_LRM_2_20190907T164354_20190907T17945_D001 CS_OFFL_SIR_LRM_2_20190907T164354_20190907T17945_D001 CS_OFFL_SIR_LRM_2_20190907T173128_20190907T17945_D001 CS_OFFL_SIR_LRM_2_20190907T173128_20190907T17945_D001 CS_OFFL_SIR_LRM_2_20190907T173128_20190907T17945_D001 CS_OFFL_SIR_LRM_2_20190907T173128_20190907T175126_D001 CS_OFFL_SIR_LRM_2_20190907T175133_20190907T175126_D001 CS_OFFL_SIR_LRM_2_20190907T175133_20190907T180409_D001 CS_OFFL_SIR_LRM_2_10190907T180409_D001	CS_OFFL_SIR_LRM_2_20190907T141635_20190907T141914_D001		· ·
Error (Retracker 2) CS_OFFL_SIR_LRM_2_20190907T150438_20190907T152535_D001 Error (Retracker 2), Backscatter Error (Retracker 2), B	CS_OFFL_SIR_LRM_2_20190907T143316_20190907T143511_D001		-
Error (Retracker 2) Error (Re	CS_OFFL_SIR_LRM_2_20190907T143734_20190907T144636_D001		
Error (Retracker 2) CS_OFFL_SIR_LRM_2_20190907T160816_20190907T161426_D001 CS_OFFL_SIR_LRM_2_20190907T161512_20190907T162612_D001 CS_OFFL_SIR_LRM_2_20190907T164354_20190907T17945_D001 CS_OFFL_SIR_LRM_2_20190907T173128_20190907T175126_D001 CS_OFFL_SIR_LRM_2_20190907T173128_20190907T175126_D001 CS_OFFL_SIR_LRM_2_20190907T173128_20190907T175133_20190907T180409_D001 CS_OFFL_SIR_LRM_2_20190907T175133_20190907T180409_D001 CS_OFFL_SIR_LRM_2_20190907T175133_20190907T180409_D001 CS_OFFL_SIR_LRM_2_20190907T175133_20190907T180409_D001 CS_OFFL_SIR_LRM_2_20190907T175133_20190907T180409_D001 CS_OFFL_SIR_LRM_2_20190907T175133_20190907T180409_D001 CS_OFFL_SIR_LRM_2_20190907T180409_D001 CS_OFFL_SIR_LRM_2_20190907T180409_	CS_OFFL_SIR_LRM_2_20190907T150438_20190907T152535_D001		
Error (Retracker 2) CS_OFFL_SIR_LRM_2_20190907T161512_20190907T162612_D001 Error (Retracker 2), Backscatter Error (Retracker 2), Height Error (Retracker 2), Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2), Backscatter Erro	CS_OFFL_SIR_LRM_220190907T152820_20190907T153947_D001		
Error (Retracker 2) Reignt Error (Retracker 2) Retracker 3), Backscatter Error (Retracker 3 and no DEM or Slope Model was used for the location of one or more records CS_OFFL_SIR_LRM_2_20190907T173128_20190907T175126_D001 CS_OFFL_SIR_LRM_2_20190907T173128_20190907T175126_D001 Error (Retracker 2) Reignt Error (Retracker 2), Heignt Error (Retracker 3 and no DEM or Slope Model was used for the location of one or more records There is a height and backscatter error for Retracker 2 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	CS_OFFL_SIR_LRM_2_20190907T160816_20190907T161426_D001		
CS_OFFL_SIR_LRM_2_20190907T164354_20190907T171945_D001 (Retracker 3), Backscatter Error (Retracker 2), Surface Model I Inavailable CS_OFFL_SIR_LRM_2_20190907T173128_20190907T175126_D001 CS_OFFL_SIR_LRM_2_20190907T175133_20190907T180409_D001 CS_OFFL_SIR_LRM_2_20190907T175133_20190907T180409_D001 CS_OFFL_SIR_LRM_2_20190907T175133_20190907T180409_D001 CS_OFFL_SIR_LRM_2_20190907T182305_20190907T183756_D001 Height Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter Error (Retracker 2) 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	CS_OFFL_SIR_LRM_2_20190907T161512_20190907T162612_D001	Error (Retracker 2)	
CS_OFFL_SIR_LRM_2_20190907T173128_20190907T175126_D001 Height Error (Retracker 2), Backscatter records CS_OFFL_SIR_LRM_2_20190907T175133_20190907T180409_D001 Height Error (Retracker 2), Backscatter records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records	CS_OFFL_SIR_LRM_220190907T164354_20190907T171945_D001	(Retracker 3), Backscatter Error (Retracker 2), Surface Model	Retracker 3 and no DEM or Slope Model was used for the location of one
Error (Retracker 2) records CS_OFFL_SIR_LRM_2_201909071183305_201909071183409_D001 Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 for one or more	CS_OFFL_SIR_LRM_2_20190907T173128_20190907T175126_D001	Height Error (Retracker 2), Backscatter	
	CS_OFFL_SIR_LRM_2_20190907T175133_20190907T180409_D001		
	CS_OFFL_SIR_LRM_220190907T182305_20190907T183756_D001		

CS_OFFL_SIR_LRM_2_20190907T183959_20190907T185011_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_220190907T185311_20190907T185931_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220190907T191208_20190907T192834_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_220190907T200236_20190907T201622_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_220190907T201802_20190907T202036_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_220190907T202645_20190907T202821_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220190907T202833_20190907T203915_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records