



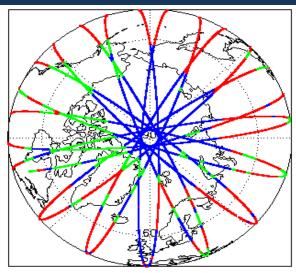
1. Overview

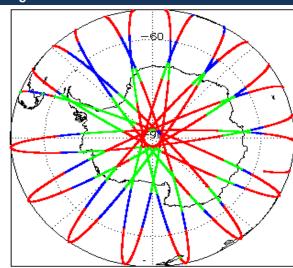
| Report Production Date: | 30-Jul-2019 | |
|-------------------------|-------------------------|--|
| Processor Used: | CryoSat Ice Processor | |
| Data Used: | L1B and L2 OFFLINE Data | |

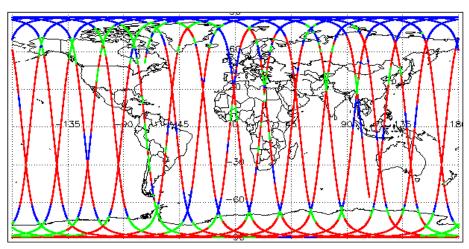
| Check | Status |
|--|-------------------------|
| Server check: science-pds.cryosat.esa.int | Nominal |
| Server check: calval-pds.cryosat.esa.int | Nominal |
| Product Software Check | Nominal |
| Product Format Check | Nominal |
| Product Header Analysis | Nominal |
| Star Tracker Usage Check | Nominal |
| 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 | See Section 5.4 |
| L1B & L2 Measurement Confidence Data Check | See Section 4.8 and 5.5 |

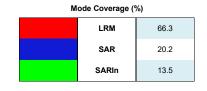
| I | Mission / Instrument News | | |
|---|---------------------------|-----------------|--|
| | 28-Jun-2019 | None | |
| | 29-Jun-2019 | None | |
| | 30-Jun-2019 | Nothing planned | |

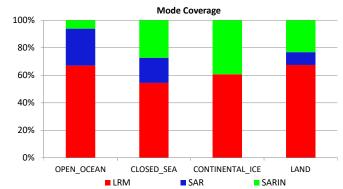
2. Global Coverage

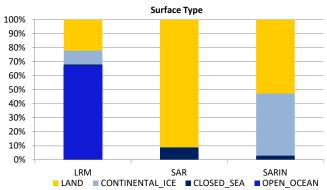












3. Instrument Configuration

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:

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: 81

| Product | Test Failed | Description |
|---|--------------|--|
| CS_OFFL_SIR_LRM_1B_20190629T002048_20190629T002200_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20190629T002558_20190629T002724_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20190629T002728_20190629T002730_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20190629T002736_20190629T003454_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20190629T005011_20190629T005927_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20190629T005930_20190629T010431_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20190629T012818_20190629T013401_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20190629T013748_20190629T020200_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20190629T020549_20190629T021037_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20190629T022532_20190629T022613_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20190629T022736_20190629T023036_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20190629T023327_20190629T023555_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20190629T023558_20190629T024455_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20190629T031637_20190629T034435_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20190629T034438_20190629T034444_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20190629T034447_20190629T034518_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20190629T034529_20190629T034733_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20190629T034807_20190629T035312_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20190629T050405_20190629T050803_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20190629T050805_20190629T050951_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20190629T051107_20190629T051804_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20190629T052340_20190629T052343_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20190629T052346_20190629T052433_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20190629T052446_20190629T052724_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20190629T054624_20190629T061937_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20190629T065620_20190629T070115_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20190629T070150_20190629T070327_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20190629T072234_20190629T072240_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20190629T080625_20190629T081025_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20190629T090109_20190629T091544_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20190629T092025_20190629T093737_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20190629T095601_20190629T100842_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20190629T101056_20190629T102804_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20190629T104039_20190629T104635_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20190629T105016_20190629T105948_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20190629T110224_20190629T111629_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20190629T113654_20190629T113937_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS OFFL SIR LRM 1B 20190629T114311 20190629T114426 D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20190629T115009_20190629T115136_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20190629T115142_20190629T115433_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20190629T115555_20190629T120258_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20190629T121912_20190629T122440_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS OFFL SIR LRM 1B 20190629T122453 20190629T122824 D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20190629T123128_20190629T123248_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20190629T125913_20190629T130334_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20190629T130356_20190629T130537_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20190629T131034_20190629T133421_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20190629T133423_20190629T133552_D001 | Loss of echo | The tracking echo is missing for one or more records |
| | | 3 3 |

| CS_OFFL_SIR_LRM_1B_20190629T133555_20190629T134427_D001 | Loss of echo | The tracking echo is missing for one or more records |
|---|--------------|--|
| CS_OFFL_SIR_LRM_1B_20190629T134549_20190629T134629_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20190629T140137_20190629T140607_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20190629T141005_20190629T143445_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20190629T144254_20190629T144619_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20190629T153915_20190629T154420_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20190629T154512_20190629T161409_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20190629T161716_20190629T162526_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20190629T162947_20190629T170255_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20190629T171714_20190629T171808_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20190629T172030_20190629T172421_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20190629T172438_20190629T172512_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20190629T173056_20190629T173552_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20190629T173610_20190629T174057_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20190629T174203_20190629T174536_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20190629T184439_20190629T184449_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20190629T190219_20190629T190327_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20190629T190350_20190629T190444_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20190629T190558_20190629T191059_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20190629T193754_20190629T194114_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20190629T194827_20190629T195307_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20190629T195317_20190629T202444_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20190629T211826_20190629T212020_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20190629T212748_20190629T214327_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20190629T214330_20190629T214441_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20190629T214754_20190629T215613_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20190629T215754_20190629T220356_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20190629T223537_20190629T223837_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20190629T223943_20190629T225049_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20190629T225710_20190629T225935_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20190629T232249_20190629T233809_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20190629T233843_20190629T234432_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20190629T235706_20190629T235817_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_20190629T133555_20190629T134427_D001 | IECHO 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.

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.

Number of products with errors:

2

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:

55

| CS_OFFL_SIR_LRM_2_20190629T010434_20190629T02200_D001 Elegiht Error (Retracker 2). Backscatter Error (for Retracker 3) 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 3). Backscatter Error (Retracker 2). | Product | Test Failed | Description |
|--|---|--|--|
| Enror (Retracker 2). Backscatter | CS_OFFL_SIR_LRM_220190628T235757_20190629T001234_D001 | | · · · · · · · · · · · · · · · · · · · |
| (Retracker 2) Backscatter Error (Retracker 2) Backscatter Erro | CS_OFFL_SIR_LRM_220190629T005011_20190629T005927_D001 | | |
| Error (Retracker 2) Surface Model Unavailable Surface Model Unavailable No DEM or Slope Model was used for the location of one or more records Surface Model Unavailable No DEM or Slope Model was used for the location of one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 and a height error (Retracker 2). Height Error (Retracker 3) for one or more records Surface Model Unavailable No DEM or Slope Model was used for the location of one or more records There is a height and backscatter error for Retracker 2 and a height error (Retracker 2). Backscatter Error (Retracker 2) for one or more records Surface Model Unavailable Surface Model Unavailable No DEM or Slope Model was used for the location of one or more records There is a height and backscatter error for Retracker 2 and a height error (Retracker 2). Backscatter error (Retracker 3 for one or more records Surface Model Unavailable Error (Retracker 2). Backscatter Error (Ret | CS_OFFL_SIR_LRM_220190629T005930_20190629T010431_D001 | (Retracker 3), Backscatter Error | There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records |
| Enror (Retracker 2) No DEM or Slope Model was used for the location of one or more records Retracker 2) No DEM or Slope Model was used for the location of one or more records Retracker 2) There is a height and backscatter error for Retracker 2 and a height error (Retracker 2). Backscatter Error (Retracker 2) Enror (Retracker 2). Backscatter Error (Retracker 3). Backscatter Error (Retracker 2). Backscat | CS_OFFL_SIR_LRM_220190629T010434_20190629T012230_D001 | | |
| Height Error (Retracker 2). Backscatter Error (Retracker 2). Backs | CS_OFFL_SIR_LRM_220190629T013748_20190629T020200_D001 | | |
| (Retracker 2), Backscatter Error (Retracker 2) and a height error | CS_OFFL_SIR_LRM_220190629T020549_20190629T021037_D001 | Surface Model Unavailable | No DEM or Slope Model was used for the location of one or more records |
| Error (Retracker 2) Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker | CS_OFFL_SIR_LRM_220190629T023327_20190629T023555_D001 | (Retracker 3), Backscatter Error | There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records |
| Error (Retracker 2) records CS_OFFL_SIR_LRM_2_20190629T034807_20190629T035312_D001 | CS_OFFL_SIR_LRM_220190629T023558_20190629T024455_D001 | | |
| Error (Retracker 2) CS_OFFL_SIR_LRM_2_20190629T040745_20190629T043951_D001 Error (Retracker 2), Backscatter Error (Retracker 2), B | CS_OFFL_SIR_LRM_220190629T031637_20190629T034435_D001 | | |
| Error (Retracker 2) CS_OFFL_SIR_LRM_2_20190629T053135_20190629T061937_D001 Error (Retracker 2), Backscatter Error (Retracker 3), B | CS_OFFL_SIR_LRM_220190629T034807_20190629T035312_D001 | | |
| Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 3), | CS_OFFL_SIR_LRM_220190629T040745_20190629T043951_D001 | , | · · · · · · · · · · · · · · · · · · · |
| CS_OFFL_SIR_LRM_2_20190629T054624_20190629T061937_D001 Error (Retracker 2), Surface Model Unavailable CS_OFFL_SIR_LRM_2_20190629T063519_20190629T065304_D001 Height Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter Error (Retracker 2), Surface Model Unavailable CS_OFFL_SIR_LRM_2_20190629T071059_20190629T071113_D001 CS_OFFL_SIR_LRM_2_20190629T072356_20190629T075805_D001 CS_OFFL_SIR_LRM_2_20190629T072356_20190629T075805_D001 CS_OFFL_SIR_LRM_2_20190629T081508_20190629T084121_D001 CS_OFFL_SIR_LRM_2_20190629T084136_20190629T084844_D001 CS_OFFL_SIR_LRM_2_20190629T084136_20190629T084844_D001 CS_OFFL_SIR_LRM_2_20190629T090109_20190629T091544_D001 CS_OFFL_SIR_LRM_2_20190629T090109_20190629T091544_D001 CS_OFFL_SIR_LRM_2_20190629T090205_20190629T093737_D001 Error (Retracker 2), Surface Model Unavailable Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 3), Backscatter Error (Retracker 3), Backscatter Error (Retracker 3), Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), Ba | CS_OFFL_SIR_LRM_220190629T053135_20190629T053357_D001 | | |
| Error (Retracker 2) CS_OFFL_SIR_LRM_2_20190629T071059_20190629T071113_D001 Error (Retracker 2) Height Error (Retracker 2), Surface Model Unavailable Height Error (Retracker 2), Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), Backscatter Error (Retracker | CS_OFFL_SIR_LRM_220190629T054624_20190629T061937_D001 | Error (Retracker 2), Surface Model | |
| CS_OFFL_SIR_LRM_2_20190629T071059_20190629T075805_D001 CS_OFFL_SIR_LRM_2_20190629T072356_20190629T075805_D001 CS_OFFL_SIR_LRM_2_20190629T0841508_20190629T084121_D001 CS_OFFL_SIR_LRM_2_20190629T084136_20190629T084844_D001 CS_OFFL_SIR_LRM_2_20190629T084136_20190629T084844_D001 CS_OFFL_SIR_LRM_2_20190629T090109_20190629T091544_D001 CS_OFFL_SIR_LRM_2_20190629T090109_20190629T091544_D001 CS_OFFL_SIR_LRM_2_20190629T090109_20190629T091544_D001 CS_OFFL_SIR_LRM_2_20190629T090205_20190629T093737_D001 Error (Retracker 2), Surface Model Unavailable Slope Model was used for the location of one or more records There is a height and backscatter error for Retracker 2 and a height error for Retracker 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 | CS_OFFL_SIR_LRM_220190629T063519_20190629T065304_D001 | | |
| CS_OFFL_SIR_LRM_2_20190629T072356_20190629T084121_D001 CS_OFFL_SIR_LRM_2_20190629T081508_20190629T084121_D001 CS_OFFL_SIR_LRM_2_20190629T084136_20190629T084844_D001 CS_OFFL_SIR_LRM_2_20190629T090109_20190629T091544_D001 CS_OFFL_SIR_LRM_2_20190629T090109_20190629T091544_D001 CS_OFFL_SIR_LRM_2_20190629T090109_20190629T091544_D001 CS_OFFL_SIR_LRM_2_20190629T090109_20190629T093737_D001 CS_OFFL_SIR_LRM_2_20190629T092025_20190629T093737_D001 | CS_OFFL_SIR_LRM_220190629T071059_20190629T071113_D001 | Error (Retracker 2), Surface Model Unavailable | |
| Error (Retracker 2) records CS_OFFL_SIR_LRM_2_20190629T084136_20190629T084844_D001 Error (Retracker 2), Backscatter records Height Error (Retracker 2), Backscatter records Height Error (Retracker 2), Height Error (Retracker 2), Height Error (Retracker 3), Backscatter records CS_OFFL_SIR_LRM_2_20190629T090109_20190629T091544_D001 (Retracker 3), Backscatter Error (Retracker 2), Surface Model Unavailable or more records CS_OFFL_SIR_LRM_2_20190629T092025_20190629T093737_D001 Height Error (Retracker 2), Backscatter Error (| CS_OFFL_SIR_LRM_220190629T072356_20190629T075805_D001 | (Retracker 3), Backscatter Error | There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records |
| Error (Retracker 2) CS_OFFL_SIR_LRM_2_20190629T090109_20190629T091544_D001 Error (Retracker 2), Height Error (Retracker 2), Height Error (Retracker 3), Backscatter | CS_OFFL_SIR_LRM_220190629T081508_20190629T084121_D001 | | |
| CS_OFFL_SIR_LRM_2_20190629T090109_20190629T091544_D001 (Retracker 3), Backscatter Error (Retracker 3 and no DEM or Slope Model was used for the location of one (Retracker 2), Surface Model Unavailable or more records CS_OFFL_SIR_LRM_2_20190629T092025_20190629T093737_D001 Height Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 for 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_220190629T084136_20190629T084844_D001 | | |
| Error (Retracker 2) records CS_OFFL_SIR_LRM_2_201906291092025_201906291093737_D001 Error (Retracker 2) records There is a height and backscatter error for Retracker 2 for one or more | CS_OFFL_SIR_LRM_220190629T090109_20190629T091544_D001 | (Retracker 3), Backscatter Error | Retracker 3 and no DEM or Slope Model was used for the location of one |
| | CS_OFFL_SIR_LRM_220190629T092025_20190629T093737_D001 | | |
| | CS_OFFL_SIR_LRM_220190629T095601_20190629T100842_D001 | | |
| CS_OFFL_SIR_LRM_2_20190629T101056_20190629T102804_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_220190629T101056_20190629T102804_D001 | | |
| Height Error (Retracker 2), Height Error (Retracker 2) and a height error (Retracker 3), Backscatter Error (Retracker 3) for one or more records | CS_OFFL_SIR_LRM_220190629T105016_20190629T105948_D001 | (Retracker 3), Backscatter Error | There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records |
| CS_OFFL_SIR_LRM_2_20190629T110224_20190629T111629_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_220190629T110224_20190629T111629_D001 | | _ |
| CS_OFFL_SIR_LRM_2_20190629T113249_20190629T113346_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_220190629T113249_20190629T113346_D001 | | · · · · · · · · · · · · · · · · · · · |

| CS_OFFL_SIR_LRM_220190629T114311_20190629T114426_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_220190629T115142_20190629T115433_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_220190629T115555_20190629T120258_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_20190629T122453_20190629T122824_D001 | Surface Model Unavailable | No DEM or Slope Model was used for the location of one or more records |
| CS_OFFL_SIR_LRM_220190629T123911_20190629T125511_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_220190629T131034_20190629T133421_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_20190629T141005_20190629T143445_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_220190629T150623_20190629T152137_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_20190629T154512_20190629T161409_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_220190629T162947_20190629T170255_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_20190629T171604_20190629T171704_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_20190629T171714_20190629T171808_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_20190629T174203_20190629T174536_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_220190629T180906_20190629T183023_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_20190629T183308_20190629T184323_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_220190629T185411_20190629T185842_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_220190629T191431_20190629T191917_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_220190629T194827_20190629T195307_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_220190629T195317_20190629T202444_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_220190629T203731_20190629T204432_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_220190629T204455_20190629T210852_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_220190629T212748_20190629T214327_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_20190629T214330_20190629T214441_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_20190629T214754_20190629T215613_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_20190629T215754_20190629T220356_D001 | Surface Model Unavailable | No DEM or Slope Model was used for the location of one or more records |
| CS_OFFL_SIR_LRM_220190629T221756_20190629T223324_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_20190629T223943_20190629T225049_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_220190629T230715_20190629T232109_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_20190629T232249_20190629T233809_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_220190629T235706_20190629T235817_D001 | Surface Model Unavailable | No DEM or Slope Model was used for the location of one or more records |