



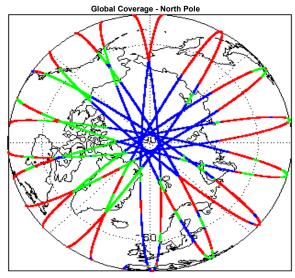
## 1. Overview

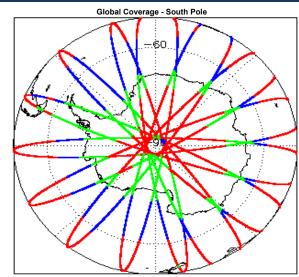
| Report Production Date: | 12-Sep-2016             |  |
|-------------------------|-------------------------|--|
| Processor Used:         | CryoSat Ice Processor   |  |
| Data Used:              | L1B and L2 OFFLINE Data |  |

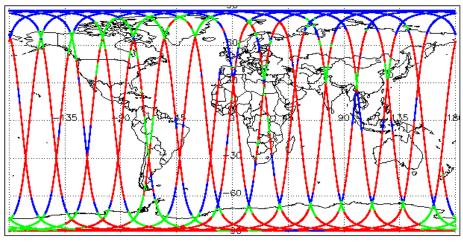
| Check                                      | Status                  |
|--|-------------------------|
| Server check: science-pds.cryosat.esa.int  | Nominal                 |
| Server check: calval-pds.cryosat.esa.int   | Nominal                 |
| Product Software Check                     | Nominal                 |
| Product Format Check                       | Nominal                 |
| Product Header Analysis                    | See Section 4.2 and 5.2 |
| Star Tracker Usage Check                   | Nominal                 |
| 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 4.7 and 5.5 |

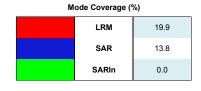
| Mission / Instru | ment News       |
|------------------|-----------------|
| 09-Aug-2016      | None            |
| 10-Aug-2016      | None            |
| 11-Aug-2016      | Nothing planned |

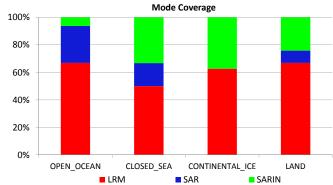
# 2. Global Coverage

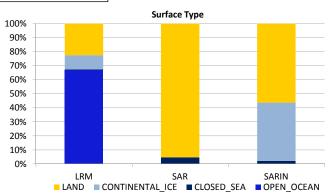












# 3. Instrument Configuration

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:

| Product   | Test Failed   |
|---|---|
| CS_OFFL_SIR_SAR_1B_20160810T164201_20160810T164201_C001 | Percentage of processing errors detected greater than minimum acceptable threshold. |

#### 4.3 Star Tracker Usage Check

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

Number of products with errors:

### 4.4 L1B 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:

### 4.5 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

#### 4.6 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:

#### 4.7 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.

umber of products with errors:

| Product   | Test Failed | Description  |
|---|-------------|--|
| CS_OFFL_SIR_LRM_1B_20160810T042911_20160810T043856_C001 |             | The tracking echo has returned an error and the Rx1 Echo Error flag is set, indicating a degraded echo |
| CS_OFFL_SIR_LRM_1B_20160810T045432_20160810T052606_C001 |             | The tracking echo has returned an error and the Rx1 Echo Error flag is set, indicating a degraded echo |
| CS_OFFL_SIR_LRM_1B_20160810T090854_20160810T091342_C001 |             | The tracking echo has returned an error and the Rx1 Echo Error flag is set, indicating a degraded echo |
| CS_OFFL_SIR_LRM_1B_20160810T212416_20160810T212808_C001 |             | 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: 1

| Product  | Test Failed   |  |
|--|---|--|
| CS_OFFL_SIR_SAR_2_20160810T164201_20160810T164201_C001 | Percentage of processing errors detected greater than minimum acceptable threshold. |  |

### 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: 0

### 5.5 L2 Measurement Quality Flag Check

CryoSat L2 data includes a quality flag (field 50) for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.

Currently, there are several common error flags raised in the Level 2 products which are expected due to operational mode or surface type. All common flags are summarised in the list below, followed by a table of any additional issues arising from this test.

Freeboard error: This flag is correctly set in all L2 SAR products that are not discriminated as sea-ice, and for which freeboard cannot be calculated.

Height and Backscatter errors: These flags are currently set for products over land, but this is to be expected. Retracker 1 Height and Backscatter error flags are also set for products over sea-ice, but this is to be expected.

Peakiness error: This flag is currently set for products over sea-ice, but this is to be expected.

SARIn X-Track Angle Error: This flag is set when the difference between the computed surface elevation and the DEM is >50 m. The DEM is only available over Greenland and Antarctica and as a result this flag is set for L2 SARIn products in all other locations as expected.

SSHA interpolation error: This flag is currently set for a number of SAR products occurring at surface type boundaries, but this is to be expected.

Number of products with errors:

| EQUITY DEPOSITION DEPO | Product  | Test Failed   | Description  |
|--|--|---|--|
| Helpit from (Personal Ca.), He | CS_OFFL_SIR_LRM_220160810T000133_20160810T002425_C001  |   |  |
| EQ. CHI. SEL. LONG. 2. DISCONTINUOUS COST. CHI.  CO. CHI. SEL. LONG. 2. DISCONTINUOUS  | CS_OFFL_SIR_LRM_220160810T003352_20160810T003601_C001  |   | No DEM or Slope Model was used for the location of one or more records   |
| COURT_SR_UNA_2_DOCCORRESTORDS_200000102000_COURT_ SR_UNA_2_DOCCORRESTORDS_200000102000_COURT_ SR_UNA_2_DOCCORRESTORDS_2000001020000_COURT_ SR_UNA_2_DOCCORRESTORDS_200000102000_COURT_ SR_UNA_2_DOCCOR | CS_OFFL_SIR_LRM_220160810T004344_20160810T011935_C001  | (Retracker 3), Backscatter Error  | o o  |
| Co. CPTL_SRIT_LINE_2_0000001013114_201000101100100000000000000000000000  | CS_OFFL_SIR_LRM_220160810T013117_20160810T015025_C001  | Error (Retracker 2)   |  |
| Helps Envir (Newtone 2). Helps Envir (Newtone 2) and a height envir (Newtone 2) and a height envir (Newtone 2). Helps Envir (Newtone 2) and a height envir  | CS_OFFL_SIR_LRM_220160810T015116_20160810T020440_C001  | (Retracker 3), Backscatter Error  |  |
| SQ_OPE_SR_LENPROMOMEROTORISE_COLORS (COLORS )  Reliance 2), Executative French Processor 2 and a register of processor 2       | CS_OFFL_SIR_LRM_220160810T021312_20160810T021510_C001  |   | No DEM or Slope Model was used for the location of one or more records   |
| Reliance 6), Basecate Error Pulpulpul Processor 10 page 1 page 2  | CS_OFFL_SIR_LRM_220160810T022238_20160810T023730_C001  | (Retracker 3), Backscatter Error (Retracker 2)                            |  |
| So_OFF_SRL_EMOrderstriates/sp_corres     | CS_OFFL_SIR_LRM_220160810T023932_20160810T024854_C001  | (Retracker 3), Backscatter Error  |  |
| Sept. Comp.   19-10   Comp.    | CS_OFFL_SIR_LRM_220160810T031056_20160810T032815_C001  | (Retracker 3), Backscatter Error  |  |
| Enror (Retaboser 2)  Enror (Re | CS_OFFL_SIR_LRM_220160810T035129_20160810T035436_C001  | Surface Model Unavailable   | No DEM or Slope Model was used for the location of one or more records   |
| Erro (Retacker 2) Ferro (Retacke | CS_OFFL_SIR_LRM_220160810T040211_20160810T041633_C001  |   |  |
| CS_OFFL_SRL_PIM_2_20160810T054212_20160810T053205_0001  CS_OFFL_SRL_PIM_2_20160810T053207_20160810T053207_0001  Surface Model Unevalable  Surface Model Unevalable  No DEM or Slope Model was used for the location of one or more records  Respit Error (Retroace 2). Height Error (Retroace 2). Responsible Er | CS_OFFL_SIR_LRM_220160810T045051_20160810T045308_C001  | Error (Retracker 2)   |  |
| Surface Model Unavailable  No DEM or Stope Model was used for the location of one or more records  Regil Error (Retracker 2), Heigh Error (Retracker 2), Heigh Error (Retracker 3), Heigh Error (Retracker 3), Heigh Error (Retracker 3), Heigh Error (Retracker 2), Heigh Error (Retracker 3), Heigh Error (Retracker 2), Heigh Error (Retracker 3), Hei | CS_OFFL_SIR_LRM_220160810T045432_20160810T052606_C001  | (Retracker 3), Backscatter Error  |  |
| Neight Error (Rentacher 2). Height Error (Rentacher 3) and a height error for Retracher 2 and a height error for Retracher 3 and a height error for Retrache | CS_OFFL_SIR_LRM_220160810T052947_20160810T053201_C001  | Surface Model Unavailable   | No DEM or Slope Model was used for the location of one or more records   |
| (Refrancher 2). Backscatter Error (Retracker 2). Beside and backscatter error for Retracker 2 and a height error for Retracker 2. Beside and backscatter error for Retracker 2 and a height error for Retracker 2. Beside and backscatter error for Retracker 2 and a height error for Retracker 2. Beside and backscatter error for Retracker 2 and a height error for Retracker 2. Beside and backscatter error for Retracker 2 and a height error for Retracker 2. Beside and backscatter error for Retracker 2 and a height error for Retracker 2. Beside and backscatter error for Retracker 2 and a height error for Retracker 2. Beside and backscatter error for Retracker 2 and a height error for Retracker 2. Beside and backscatter error for Retracker 2 and a height error for Retracker 2. Beside and backscatter error for Retracker 2 and a height error for Retracker 2. Beside and backscatter error for Retracker 2 and a height error for Retracker 2. Beside and backscatter error for Retracker 2 and a height error for Retracker 2. Beside and backscatter error for Retracker 2 and a height error for Retracker 2. Beside and backscatter error for Retracker 2 and a height error for Retracker 2. Beside and backscatter error for Retracker 2 and a height error for Retracker 3. Beside and backscatter error for Retracker 2 and a height error for Retracker 3. Beside and backscatter error for Retracker 2 and a height error for Retracker 3. Beside and backscatter error for Retracker 2. Beside and the Retracker 3. Beside and backscatter error for Retracker 2. Beside and the Retracker 3. Beside and backscatter error for Retracker 2. Beside and the Retracker 3. Beside | CS_OFFL_SIR_LRM_220160810T053210_20160810T053807_C001  |   | No DEM or Slope Model was used for the location of one or more records   |
| CS_OFFL_SIR_LRM_2_20100810706137_20160810706135_CO01  Richardoxer 2). Redscatter proving from the fresh of th | CS_OFFL_SIR_LRM_220160810T054207_20160810T060629_C001  | (Retracker 3), Backscatter Error (Retracker 2)                            |  |
| CS_OFFL_SIR_LRM_2_20100810T072112_20100810T07902_C001  Meight Error (Retracker 2)  Meight Error (Retracker 3)  Backscatter Error (Retracker 3)  Backscatter Error (Retracker 3)  Merchander 3)  Backscatter Error (Retracker 3)  Meight Error (Retracker 3)  Meight Error (Retracker 3)  Meight Error (Retracker 2)  Meight Error (Retracker 3)  Meight Error (Retracker 3)  Meight Error (Retracker 2)  M | CS_OFFL_SIR_LRM_220160810T061537_20160810T061623_C001  | (Retracker 3), Backscatter Error (Retracker 2)                            | for Retracker 3 for one or more records  |
| Econ (Retracker 2). Height Error (Retracker 2). Height Error (Retracker 3). Backscatter Error (Retracker 2). Backscatter Error (Retracker 2). Backscatter Error (Retr | CS_OFFL_SIR_LRM_220160810T063735_20160810T064855_C001  |   |  |
| GS_OFFL_SIR_LRM_2_20160810T08495_20160810T08209_CO01  GRefrancker 2)  Height Error (Retrancker 2)  Grefrancker 2)  GRefrancker 3)  GRefrancker 3)  GRefrancker 3)  GRefrancker 3)  Height Error (Retrancker 2)  GRefrancker 3)  Height Error (Retrancker 2)  GRefrancker 3)  Height Error (Retrancker 2)  GRefrancker 3)  Height Error (Retrancker 2)  Height Error | CS_OFFL_SIR_LRM_220160810T072112_20160810T074701_C001  |   |  |
| (Retracker 3), Backscatter Error (Retracker 2), Eleght Err | CS_OFFL_SIR_LRM_2_20160810T074955_20160810T075902_C001 | (Retracker 3), Backscatter Error  |  |
| Error (Retracker 2) Error (Retracker 3) Error (Retracker 2) Error (Retracker 3) Error  | CS_OFFL_SIR_LRM_220160810T081207_20160810T082809_C001  | (Retracker 3), Backscatter Error  |  |
| GS_OFFL_SIR_LRM_2_20160810T1093736_C001  (Retracker 3), Backscatter Error  (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 3) for ne or more records  There is a height and backscatter error for Retracker 2 or neor or more records  There is a height and backscatter error for Retracker 2 or neor or more records  There is a height and backscatter error for Retracker 2 or neor or more records  There is a height and backscatter error for Retracker 2 or neor or more records  There is a height and backscatter error for Retracker 2 or neor or more records  There is a height and backscatter error for Retracker 2 or neor or more records  There is a height and backscatter error for Retracker 2 or neor or more records  There is a height and backscatter error for Retracker 2 or neor or more records  There is a height and backscatter error for Retracker 2 or neor or more records  There is a height and backscatter error for Retracker 2 or neor or more records  Sole of the structure of the location of one or more records  Sole of the structure of the location of one or more records  There is a height and backscatter error for Retracker 2 or neor or more records  Sole of the structure of the location of one or more records  There is a height and backscatter error for Retracker 2 or neor or more records  There is a height and backscatter error for Retracker 2 or neor or more records  There is a height and backscatter error for Retracker 2 or neor more records  There is a height and backscatter error for Retracker 2 or neor or more records  There is a height and backscatter error for Retracker 2 or neor or more records  There is a height and backscatter error for Retracker 2 or neor or more records  There is a height and backscatter error for Retracker 2 or neor or more records  There is a height and backscatter error for Retracker 2 or neor or more records  There is a height and backscatter error for Retracker 2 or neor or more records  There is a height and backscatter error for Retracker 2 or neor or more rec | CS_OFFL_SIR_LRM_220160810T083015_20160810T084241_C001  |   |  |
| (Retracker 3), Backscatter Error (Retracker 2) and backscatter error for Retracker 2 and a height error (Retracker 2). Backscatter Error (Retracker 2) and backscatter error for Retracker 2 for one or more records.  CS_OFFL_SIR_LRM_2_20160810T110539_20160810T110722_C001  CS_OFFL_SIR_LRM_2_20160810T112648_20160810T120155_C001  CS_OFFL_SIR_LRM_2_20160810T112648_20160810T120155_C001  CS_OFFL_SIR_LRM_2_20160810T12015_C001  CS_OFFL_SIR_LRM_2_20160810T12017_20160810T121429_C001  CS_OFFL_SIR_LRM_2_20160810T121017_20160810T12429_C001  CS_OFFL_SIR_LRM_2_20160810T12934_20160810T124456_C001  CS_OFFL_SIR_LRM_2_20160810T125325_C001  CS_OFFL_SIR_LRM_2_20160810T125325_C001  CS_OFFL_SIR_LRM_2_20160810T130521_20160810T133052_001  CS_OFFL_SIR_LRM_2_20160810T130521_20160810T133208_C001  CS_OFFL_SIR_LRM_2_20160810T130527_20160810T13208_C001  CS_OFFL_SIR_LRM_2_20160810T130527_20160810T13208_C001  CS_OFFL_SIR_LRM_2_20160810T130527_20160810T13208_C001  CS_OFFL_SIR_LRM_2_20160810T14003_20160810T14242_C001  CS_OFFL_SIR_LRM_2_20160810T14003_20160810T143208_C001  CS_OFFL_SIR_LRM_2_20160810T14003_20160810T150348_C001  CS_OFFL_SIR_LRM_2_20160810T144545_20160810T150348_C001  CS_OFFL_SIR_LRM_2_20160810T145416_20160810T150348_C001  CS_OFFL_SIR_LRM_2_20160810T145416_20160810T150348_C001  CS_OFFL_SIR_LRM_2_20160810T145416_20160810T150348_C001  CS_OFFL_SIR_LRM_2_20160810T145416_20160810T150348_C001  CS_OFFL_SIR_LRM_2_20160810T145416_20160810T150348_C001  CS_OFFL_SIR_LRM_2_20160810T145416_20160810T150348_C001  CS_OFFL_SIR_LRM_2_20160810T150550_20160810T150348_C001  CS_OFFL_SIR_LRM_2_20160810T150550_20160810T150348_C001  CS_OFFL_SIR_LRM_2_20160810T150550_20160810T150341_C001  CS_OFFL_SIR_LRM_2_20160810T150550_20160810T150341_C001  CS_OFFL_SIR_LRM_2_20160810T150550_20160810T150341_C001  CS_OFFL_SIR_LRM_2_20160810T150550_20160810T150341_C001  CS_OFFL_SIR_LRM_2_20160810T150550_20160810T150341_C001  CS_OFFL_SIR_LRM_2_20160810T150550_20160810T150341_C001  CS_OFFL_SIR_LRM_2_20160810T150550_20160810T150341_C001  CS_OFFL_SIR_LRM_2_20160810T150550_20160810T | CS_OFFL_SIR_LRM_220160810T093544_20160810T093736_C001  | (Retracker 3), Backscatter Error  |  |
| Error (Retracker 2)  Height Error (Retracker 2), Backscatter Error (Retracker 2)  Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2), Backscatt | CS_OFFL_SIR_LRM_220160810T095019_20160810T102303_C001  | (Retracker 3), Backscatter Error  |  |
| Error (Retracker 2) Height Error (Retracker 2) Height Error (Retracker 3) Height Error (Retracker 2) H | CS_OFFL_SIR_LRM_220160810T104059_20160810T110529_C001  |   |  |
| CS_OFFL_SIR_LRM_2_20160810T112648_20160810T120155_C001  (Retracker 3), Backscatter Error (Retracker 3 for one or more records for Retracker 2 for one or more records of Retracker 2 for one or more records of Retracker 3 for one or more records (Retracker 2). Backscatter Error (Retracker 3 for one or more records of Retracker 2). Backscatter Error (Retracker 3 for one or more records of Retracker 2). Backscatter Error (Retracker 3 for one or more records of Retracker 2). Backscatter Error (Retracker 3 for one or more records of Retracker 3 for for Retracker 2 for one or more records of Retracker 3 for for one or more records of Retrack | CS_OFFL_SIR_LRM_220160810T110633_20160810T110722_C001  |   |  |
| Height Error (Retracker 2), Height Error (Retracker 2) and a height error (Retracker 3), Backscatter Error (Retracker 2) theight Error (Retrac | CS_OFFL_SIR_LRM_2_20160810T112648_20160810T120155_C001 | (Retracker 3), Backscatter Error  | o o  |
| CS_OFFL_SIR_LRM_2_20160810T124934_20160810T12435C_CO01  CS_OFFL_SIR_LRM_2_20160810T124520_20160810T125325_CO01  CS_OFFL_SIR_LRM_2_20160810T130521_20160810T13946_CO01  CS_OFFL_SIR_LRM_2_20160810T130521_20160810T131946_CO01  CS_OFFL_SIR_LRM_2_20160810T130521_20160810T132608_CO01  CS_OFFL_SIR_LRM_2_20160810T132427_20160810T132608_CO01  CS_OFFL_SIR_LRM_2_20160810T132627_20160810T132608_CO01  CS_OFFL_SIR_LRM_2_20160810T132627_20160810T134123_CO01  CS_OFFL_SIR_LRM_2_20160810T140023_20160810T141242_CO01  CS_OFFL_SIR_LRM_2_20160810T140023_20160810T141242_CO01  CS_OFFL_SIR_LRM_2_20160810T144023_20160810T143208_CO01  CS_OFFL_SIR_LRM_2_20160810T144445_20160810T143208_CO01  CS_OFFL_SIR_LRM_2_20160810T145416_20160810T150348_CO01  CS_OFFL_SIR_LRM_2_20160810T150550_20160810T150348_CO01  CS_OFFL_SIR_LRM_2_20160810T150550_20160810T150540_CO01  CS_OFFL_SIR_LRM_2_20160810T150550_20160810T150348_CO01  CS_OFFL_SIR_LRM_2_20160810T150550_20160810T150348_CO01  CS_OFFL_SIR_LRM_2_20160810T150550_20160810T150348_CO01  CS_OFFL_SIR_LRM_2_20160810T150550_20160810T150348_CO01  CS_OFFL_SIR_LRM_2_20160810T150550_20160810T150348_CO01  CS_OFFL_SIR_LRM_2_20160810T150550_20160810T150348_CO01  CS_OFFL_SIR_LRM_2_20160810T150550_20160810T150348_CO01  CS_OFFL_SIR_LRM_2_20160810T150550_20160810T150550_20160810T150050_CO0160810T150050_C | CS_OFFL_SIR_LRM_220160810T121017_20160810T121429_C001  | Surface Model Unavailable   | No DEM or Slope Model was used for the location of one or more records   |
| Height Error (Retracker 2), Backscatter Error (Retracker 2) and a height error for Retracker 2 and a height error for Ret | CS_OFFL_SIR_LRM_220160810T121934_20160810T124456_C001  | (Retracker 3), Backscatter Error  |  |
| Height Error (Retracker 2), Height Error (Retracker 2) and a height error (Retracker 3) ackscatter error for Retracker 2 and a height error (Retracker 3) ackscatter error for Retracker 2 and a height error for Retracker 3 for one or more records  There is a height and backscatter error for Retracker 2 and a height error (Retracker 3) ackscatter 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 and a height error (Retracker 3). 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 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 fo | CS_OFFL_SIR_LRM_220160810T124520_20160810T125325_C001  | Height Error (Retracker 2), Backscatter                                   | o a constant of the constant o |
| CS_OFFL_SIR_LRM_2_20160810T132427_20160810T132608_C001  CS_OFFL_SIR_LRM_2_20160810T132627_20160810T134123_C001  CS_OFFL_SIR_LRM_2_20160810T132627_20160810T134123_C001  CS_OFFL_SIR_LRM_2_20160810T140023_20160810T141242_C001  CS_OFFL_SIR_LRM_2_20160810T140023_20160810T141242_C001  CS_OFFL_SIR_LRM_2_20160810T141445_20160810T143208_C001  CS_OFFL_SIR_LRM_2_20160810T145416_20160810T150348_C001  CS_OFFL_SIR_LRM_2_20160810T145416_20160810T150348_C001  CS_OFFL_SIR_LRM_2_20160810T150550_20160810T150348_C001  CS_OFFL_SIR_LRM_2_20160810T150550_20160810T153841_C001  CS_OFFL_SIR_LRM_2_20160810T150550_20160810T153841_C001  CS_OFFL_SIR_LRM_2_20160810T155544_20160810T153841_C001  CS_OFFL_SIR_LRM_2_20160810T155544_20160810T153841_C001  Height Error (Retracker 2), Backscatter Error (Retracker 2), Bac | CS_OFFL_SIR_LRM_220160810T130521_20160810T131946_C001  | Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error | There is a height and backscatter error for Retracker 2 and a height error   |
| CS_OFFL_SIR_LRM_2_20160810T132627_20160810T134123_C001  Height Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter Error (Retracker 2)  CS_OFFL_SIR_LRM_2_20160810T140023_20160810T141242_C001  CS_OFFL_SIR_LRM_2_20160810T141445_20160810T143208_C001  CS_OFFL_SIR_LRM_2_20160810T145416_20160810T150348_C001  CS_OFFL_SIR_LRM_2_20160810T145416_20160810T150348_C001  CS_OFFL_SIR_LRM_2_20160810T150550_20160810T150348_C001  CS_OFFL_SIR_LRM_2_20160810T150550_20160810T152022_C001  CS_OFFL_SIR_LRM_2_20160810T150550_20160810T153841_C001  CS_OFFL_SIR_LRM_2_20160810T150550_20160810T153841_C001  CS_OFFL_SIR_LRM_2_20160810T155544_20160810T153841_C001  CS_OFFL_SIR_LRM_2_20160810T155544_20160810T153841_C001  Height Error (Retracker 2), Backscatter Error (Re | CS_OFFL_SIR_LRM_220160810T132427_20160810T132608_C001  | Height Error (Retracker 2), Backscatter                                   | -  |
| CS_OFFL_SIR_LRM_2_20160810T140023_20160810T141242_C001  CS_OFFL_SIR_LRM_2_20160810T141445_20160810T143208_C001  CS_OFFL_SIR_LRM_2_20160810T145416_20160810T150348_C001  CS_OFFL_SIR_LRM_2_20160810T150550_20160810T150348_C001  CS_OFFL_SIR_LRM_2_20160810T150550_20160810T152022_C001  CS_OFFL_SIR_LRM_2_20160810T150550_20160810T153841_C001  CS_OFFL_SIR_LRM_2_20160810T150550_20160810T153841_C001  CS_OFFL_SIR_LRM_2_20160810T150550_20160810T153841_C001  CS_OFFL_SIR_LRM_2_20160810T150550_20160810T153841_C001  CS_OFFL_SIR_LRM_2_20160810T155544_20160810T153841_C001  CS_OFFL_SIR_LRM_2_20160810T155544_20160810T155941_C001  Height Error (Retracker 2), Backscatter Erro | CS_OFFL_SIR_LRM_220160810T132627_20160810T134123_C001  | Height Error (Retracker 2), Backscatter                                   | There is a height and backscatter error for Retracker 2 for one or more  |
| CS_OFFL_SIR_LRM_2_20160810T141445_20160810T143208_C001  Height Error (Retracker 2), Backscatter Error (Retracker 2), Height Error (Retracker 2)  Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 3), Backscatter Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), Backscatter Error (Retracker 2), Ba | CS_OFFL_SIR_LRM_220160810T140023_20160810T141242_C001  | Height Error (Retracker 2), Backscatter                                   | There is a height and backscatter error for Retracker 2 for one or more  |
| Height Error (Retracker 2), Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2), Backscatter Err | CS_OFFL_SIR_LRM_220160810T141445_20160810T143208_C001  | Height Error (Retracker 2), Backscatter                                   | There is a height and backscatter error for Retracker 2 for one or more  |
| CS_OFFL_SIR_LRM_2_20160810T150550_20160810T152022_C001  Height Error (Retracker 2), Backscatter Err | CS_OFFL_SIR_LRM_220160810T145416_20160810T150348_C001  | Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error |  |
| CS_OFFL_SIR_LRM_2_20160810T153724_20160810T153841_C001  Height Error (Retracker 2), Backscatter Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 2), Height Error (Retracker 2), Height Error (Retracker 2), Backscatter Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 3), Backscat | CS_OFFL_SIR_LRM_220160810T150550_20160810T152022_C001  | Height Error (Retracker 2), Backscatter                                   |  |
| Height Error (Retracker 2), Height Error  CS_OFFL_SIR_LRM_2_20160810T155544_20160810T155941_C001  Height Error (Retracker 2), Height Error  (Retracker 3), Backscatter Error  There is a height and backscatter error for Retracker 2 and a height error  for Retracker 3 for one or more records  | CS_OFFL_SIR_LRM_220160810T153724_20160810T153841_C001  | Height Error (Retracker 2), Backscatter                                   | There is a height and backscatter error for Retracker 2 for one or more  |
|  | CS_OFFL_SIR_LRM_220160810T155544_20160810T155941_C001  | Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error | There is a height and backscatter error for Retracker 2 and a height error   |

| CC OFFI CID IDM 2. 204400440T4FF0FF 204400440T460707 C004   | Height Error (Retracker 2), Backscatter   | There is a height and backscatter error for Retracker 2 for one or more  |
|---|---|--|
| CS_OFFL_SIR_LRM_220160810T155955_20160810T160707_C001   | Error (Retracker 2) Height Error (Retracker 2), Height Error                                  | records  |
| CS_OFFL_SIR_LRM_220160810T160830_20160810T161106_C001   | (Retracker 3), Backscatter Error<br>(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_20160810T164353_20160810T165915_C001  | Height Error (Retracker 2), Backscatter<br>Error (Retracker 2)                                | There is a height and backscatter error for Retracker 2 for one or more records  |
| CS_OFFL_SIR_LRM_220160810T170758_20160810T170927_C001   | Surface Model Unavailable   | No DEM or Slope Model was used for the location of one or more records   |
| CS_OFFL_SIR_LRM_220160810T171507_20160810T174827_C001   | Height Error (Retracker 2), Backscatter<br>Error (Retracker 2)                                | There is a height and backscatter error for Retracker 2 for one or more records  |
| CS_OFFL_SIR_LRM_220160810T181332_20160810T183814_C001   | Height Error (Retracker 2), Height Error<br>(Retracker 3), Backscatter Error<br>(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_220160810T184657_20160810T185021_C001   | Surface Model Unavailable   | No DEM or Slope Model was used for the location of one or more records   |
| CS_OFFL_SIR_LRM_220160810T191024_20160810T192017_C001   | Height Error (Retracker 2), Backscatter<br>Error (Retracker 2)                                | There is a height and backscatter error for Retracker 2 for one or more records  |
| CS_OFFL_SIR_LRM_2_20160810T192113_20160810T192513_C001  | Height Error (Retracker 2), Backscatter<br>Error (Retracker 2)                                | There is a height and backscatter error for Retracker 2 for one or more records  |
| CS_OFFL_SIR_LRM_220160810T194201_20160810T194820_C001   | Height Error (Retracker 2), Backscatter<br>Error (Retracker 2)                                | There is a height and backscatter error for Retracker 2 for one or more records  |
| CS_OFFL_SIR_LRM_220160810T194856_20160810T201734_C001   | Height Error (Retracker 2), Backscatter<br>Error (Retracker 2)                                | There is a height and backscatter error for Retracker 2 for one or more records  |
| CS_OFFL_SIR_LRM_2_20160810T202554_20160810T202926_C001  | Surface Model Unavailable   | No DEM or Slope Model was used for the location of one or more records   |
| CS_OFFL_SIR_LRM_220160810T203424_20160810T210709_C001   | Height Error (Retracker 2), Height Error<br>(Retracker 3), Backscatter Error<br>(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_220160810T211844_20160810T212222_C001   | Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error                     | There is a height and backscatter error for Retracker 2 and a height error   |
|   | (Retracker 2)<br>Height Error (Retracker 2), Height Error                                     | for Retracker 3 for one or more records  There is a height and backscatter error for Retracker 2 and a height error  |
| CS_OFFL_SIR_LRM_220160810T213157_20160810T213317_C001   | (Retracker 3), Backscatter Error<br>(Retracker 2)   | for Retracker 3 for one or more records  |
| CS_OFFL_SIR_LRM_2_20160810T215122_20160810T215403_C001  | Height Error (Retracker 2), Backscatter<br>Error (Retracker 2)                                | There is a height and backscatter error for Retracker 2 for one or more records  |
| CS_OFFL_SIR_LRM_220160810T221321_20160810T223423_C001   | Height Error (Retracker 2), Backscatter<br>Error (Retracker 2)                                | There is a height and backscatter error for Retracker 2 for one or more records  |
| CS_OFFL_SIR_LRM_220160810T223709_20160810T224838_C001   | 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_220160810T225816_20160810T230230_C001   | Height Error (Retracker 2), Backscatter<br>Error (Retracker 2), Surface Model<br>Unavailable  | There is a height and backscatter error for Retracker 2 and no surface model available for one or more records   |
| CS_OFFL_SIR_LRM_2_20160810T230948_20160810T231507_C001  | Height Error (Retracker 2), Backscatter<br>Error (Retracker 2)                                | There is a height and backscatter error for Retracker 2 for one or more records  |
| CS_OFFL_SIR_LRM_2_20160810T231514_20160810T232318_C001  | Height Error (Retracker 2), Backscatter<br>Error (Retracker 2)                                | There is a height and backscatter error for Retracker 2 for one or more records  |
| CS_OFFL_SIR_LRM_2_20160810T232506_20160810T233514_C001  | Height Error (Retracker 2), Backscatter<br>Error (Retracker 2)                                | There is a height and backscatter error for Retracker 2 for one or more records  |
| CS_OFFL_SIR_LRM_220160810T234104_20160810T234516_C001   | Surface Model Unavailable   | No DEM or Slope Model was used for the location of one or more records   |
| CS_OFFL_SIR_LRM_220160810T235232_20160810T235724_C001   | Height Error (Retracker 2), Backscatter<br>Error (Retracker 2)                                | There is a height and backscatter error for Retracker 2 for one or more records  |
| CS_OFFL_SIR_LRM_220160810T235734_20160811T002409_C001   | 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_SIN_220160810T003057_20160810T003351_C001   | SARIn X-track Angle Error   | An ambiguous angle was detected for SARIn mode for one or more records   |
| CS_OFFL_SIR_SIN_220160810T003601_20160810T004123_C001   | SARIn X-track Angle Error   | An ambiguous angle was detected for SARIn mode for one or more records   |
| CS_OFFL_SIR_SIN_220160810T012654_20160810T013117_C001   | SARIn X-track Angle Error   | An ambiguous angle was detected for SARIn mode for one or more records   |
| CS_OFFL_SIR_SIN_220160810T021037_20160810T021312_C001   | SARIn X-track Angle Error   | An ambiguous angle was detected for SARIn mode for one or more records   |
| CS_OFFL_SIR_SIN_220160810T021510_20160810T021633_C001   | SARIn X-track Angle Error   | An ambiguous angle was detected for SARIn mode for one or more records   |
| CS_OFFL_SIR_SIN_220160810T022012_20160810T022150_C001   | SARIn X-track Angle Error   | An ambiguous angle was detected for SARIn mode for one or more records   |
| CS_OFFL_SIR_SIN_220160810T030550_20160810T030702_C001   | SARIn X-track Angle Error   | An ambiguous angle was detected for SARIn mode for one or more records   |
| CS_OFFL_SIR_SIN_220160810T030833_20160810T030927_C001   | SARIn X-track Angle Error   | An ambiguous angle was detected for SARIn mode for one or more records   |
| CS_OFFL_SIR_SIN_220160810T030930_20160810T031056_C001   | SARIn X-track Angle Error   | An ambiguous angle was detected for SARIn mode for one or more records   |
| CS_OFFL_SIR_SIN_220160810T034742_20160810T035129_C001   | SARIn X-track Angle Error   | An ambiguous angle was detected for SARIn mode for one or more records   |
| CS_OFFL_SIR_SIN_220160810T035913_20160810T040058_C001   | SARIn X-track Angle Error   | An ambiguous angle was detected for SARIn mode for one or more records   |
| CS_OFFL_SIR_SIN_220160810T044511_20160810T044734_C001   | SARIn X-track Angle Error, Surface<br>Model Unavailable                                       | An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records  |
| CS_OFFL_SIR_SIN_220160810T044750_20160810T044935_C001   | SARIn X-track Angle Error, Surface<br>Model Unavailable                                       | An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records  |
| CS_OFFL_SIR_SIN_220160810T052756_20160810T052946_C001   | SARIn X-track Angle Error   | An ambiguous angle was detected for SARIn mode for one or more records   |
| CS_OFFL_SIR_SIN_220160810T053202_20160810T053209_C001   | SARIn X-track Angle Error   | An ambiguous angle was detected for SARIn mode for one or more records   |
| CS_OFFL_SIR_SIN_220160810T053808_20160810T054019_C001   | SARIn X-track Angle Error   | An ambiguous angle was detected for SARIn mode for one or more records   |
| CS_OFFL_SIR_SIN_220160810T061849_20160810T061905_C001   | SARIn X-track Angle Error, Surface<br>Model Unavailable<br>SARIn X-track Angle Error, Surface | An ambiguous angle was detected for SARIn mode and no DEM or Slope<br>Model was used for one or more records  An ambiguous angle was detected for SARIn mode and no DEM or Slope |
| CS_OFFL_SIR_SIN_220160810T062007_20160810T062036_C001   | Model Unavailable   | An ambiguous angle was detected for SARIII mode and no DEM or Siope Model was used for one or more records  An ambiguous angle was detected for SARIII mode for one or more      |
| CS_OFFL_SIR_SIN_220160810T070732_20160810T070910_C001   | SARIn X-track Angle Error   | An ambiguous angle was detected for SARIn mode for one or more records  An ambiguous angle was detected for SARIn mode for one or more   |
| CS_OFFL_SIR_SIN_220160810T071028_20160810T071157_C001   | SARIn X-track Angle Error   | records  An ambiguous angle was detected for SARIII mode for one or more   |
| CS_OFFL_SIR_SIN_220160810T071614_20160810T071907_C001   | SARIn X-track Angle Error   | An ambiguous angle was detected for SARIII mode for one or more  An ambiguous angle was detected for SARIII mode for one or more   |
|   |   |  |
| CS_OFFL_SIR_SIN_2_20160810T084727_20160810T085107_C001 CS_OFFL_SIR_SIN_2_20160810T085648_20160810T085802_C001 | SARIn X-track Angle Error SARIn X-track Angle Error   | records  An ambiguous angle was detected for SARIH mode for one or more  |

|   | SARIn X-track Angle Error, Surface                      | An ambiguous angle was detected for SARIn mode and no DEM or Slope  |
|---|---|---|
| CS_OFFL_SIR_SIN_220160810T093737_20160810T093827_C001 | Model Unavailable                                       | Model was used for one or more records  |
| CS_OFFL_SIR_SIN_220160810T102654_20160810T103011_C001 | SARIn X-track Angle Error                               | An ambiguous angle was detected for SARIn mode for one or more records                                    |
| CS_OFFL_SIR_SIN_220160810T103523_20160810T103649_C001 | SARIn X-track Angle Error                               | An ambiguous angle was detected for SARIn mode for one or more records                                    |
| CS_OFFL_SIR_SIN_220160810T120408_20160810T120755_C001 | SARIn X-track Angle Error                               | An ambiguous angle was detected for SARIn mode for one or more records                                    |
| CS_OFFL_SIR_SIN_220160810T121430_20160810T121536_C001 | SARIn X-track Angle Error                               | An ambiguous angle was detected for SARIn mode for one or more records                                    |
| CS_OFFL_SIR_SIN_220160810T125326_20160810T125508_C001 | SARIn X-track Angle Error                               | An ambiguous angle was detected for SARIn mode for one or more records                                    |
| CS_OFFL_SIR_SIN_220160810T125647_20160810T125802_C001 | SARIn X-track Angle Error                               | An ambiguous angle was detected for SARIn mode for one or more records                                    |
| CS_OFFL_SIR_SIN_220160810T134214_20160810T134350_C001 | SARIn X-track Angle Error                               | An ambiguous angle was detected for SARIn mode for one or more records                                    |
| CS_OFFL_SIR_SIN_220160810T135134_20160810T135319_C001 | SARIn X-track Angle Error                               | An ambiguous angle was detected for SARIn mode for one or more records                                    |
| CS_OFFL_SIR_SIN_220160810T143209_20160810T143706_C001 | SARIn X-track Angle Error, Surface<br>Model Unavailable | An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records |
| CS_OFFL_SIR_SIN_220160810T152130_20160810T152315_C001 | SARIn X-track Angle Error                               | An ambiguous angle was detected for SARIn mode for one or more records                                    |
| CS_OFFL_SIR_SIN_220160810T152838_20160810T152844_C001 | SARIn X-track Angle Error                               | An ambiguous angle was detected for SARIn mode for one or more records                                    |
| CS_OFFL_SIR_SIN_220160810T153001_20160810T153612_C001 | SARIn X-track Angle Error                               | An ambiguous angle was detected for SARIn mode for one or more records                                    |
| CS_OFFL_SIR_SIN_220160810T161155_20160810T161601_C001 | SARIn X-track Angle Error, Surface<br>Model Unavailable | An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records |
| CS_OFFL_SIR_SIN_220160810T170041_20160810T170259_C001 | SARIn X-track Angle Error                               | An ambiguous angle was detected for SARIn mode for one or more records                                    |
| CS_OFFL_SIR_SIN_220160810T170737_20160810T170742_C001 | SARIn X-track Angle Error                               | An ambiguous angle was detected for SARIn mode for one or more records                                    |
| CS_OFFL_SIR_SIN_220160810T170927_20160810T171243_C001 | SARIn X-track Angle Error                               | An ambiguous angle was detected for SARIn mode for one or more records                                    |
| CS_OFFL_SIR_SIN_220160810T184016_20160810T184133_C001 | SARIn X-track Angle Error                               | An ambiguous angle was detected for SARIn mode for one or more records                                    |
| CS_OFFL_SIR_SIN_220160810T184637_20160810T184640_C001 | SARIn X-track Angle Error                               | An ambiguous angle was detected for SARIn mode for one or more records                                    |
| CS_OFFL_SIR_SIN_220160810T185021_20160810T185137_C001 | SARIn X-track Angle Error                               | An ambiguous angle was detected for SARIn mode for one or more records                                    |
| CS_OFFL_SIR_SIN_220160810T194017_20160810T194052_C001 | SARIn X-track Angle Error, Surface<br>Model Unavailable | An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records |
| CS_OFFL_SIR_SIN_220160810T201949_20160810T202112_C001 | SARIn X-track Angle Error                               | An ambiguous angle was detected for SARIn mode for one or more records                                    |
| CS_OFFL_SIR_SIN_220160810T202926_20160810T203043_C001 | SARIn X-track Angle Error                               | An ambiguous angle was detected for SARIn mode for one or more records                                    |
| CS_OFFL_SIR_SIN_220160810T215929_20160810T220055_C001 | SARIn X-track Angle Error                               | An ambiguous angle was detected for SARIn mode for one or more records                                    |
| CS_OFFL_SIR_SIN_220160810T220617_20160810T220925_C001 | SARIn X-track Angle Error                               | An ambiguous angle was detected for SARIn mode for one or more records                                    |
| CS_OFFL_SIR_SIN_220160810T225741_20160810T225816_C001 | SARIn X-track Angle Error, Surface<br>Model Unavailable | An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records |
| CS_OFFL_SIR_SIN_220160810T233911_20160810T234104_C001 | SARIn X-track Angle Error                               | An ambiguous angle was detected for SARIn mode for one or more records                                    |
| CS_OFFL_SIR_SIN_220160810T234516_20160810T234845_C001 | SARIn X-track Angle Error                               | An ambiguous angle was detected for SARIn mode for one or more records                                    |
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