

# IDEAS+ Daily Report for OFFLINE data:

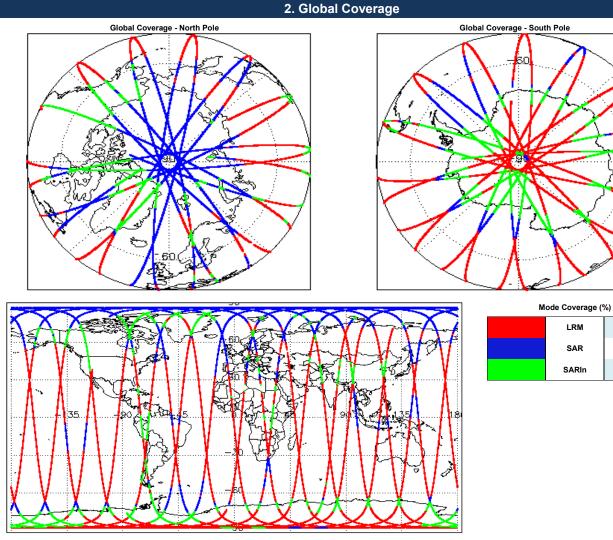
<u>01/04/2016</u>

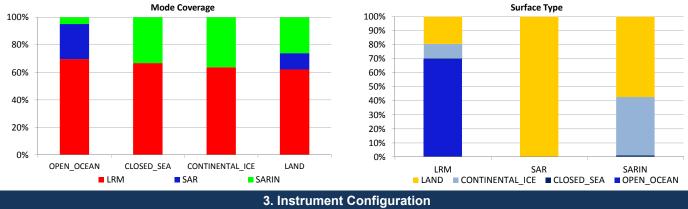
19.8

12.9

0.0

| 1. Overview                 |                         |  |                         |  |
|-----------------------------|-------------------------|--|-------------------------|--|
|                             | 00.4 00.40              | Check                                      | Status                  |  |
| Report Production Date:     | 29-Apr-2016             | Server check: science-pds.cryosat.esa.int  | Nominal                 |  |
| Processor Used:             | CryoSat Ice Processor   | Server check: calval-pds.cryosat.esa.int   | Nominal                 |  |
|                             |                         | Product Software Check                     | Nominal                 |  |
| Data Used:                  | L1B and L2 OFFLINE Data | 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 / Instrument News   |                         |  |                         |  |
| 31-Mar-2016 None            |                         |  |                         |  |
| 01-Apr-2016 None            |                         |  |                         |  |
| 02-Apr-2016 Nothing planned |                         |  |                         |  |





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

# 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 ord  | er to identify any inconsistencies and/or errors raised by the ground-segment processing chain. |  |  |  |
| Number of products with errors: 2   |   |  |  |  |
| Product   | Test Failed   |  |  |  |
| CS_OFFL_SIR_SAR_1B_20160401T080158_20160401T080202_C001   | Percentage of processing errors detected greater than minimum acceptable threshold.             |  |  |  |
| CS_OFFL_SIR_SAR_1B_20160401T080150_20160401T080151_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: 0   |   |  |  |  |
| 4.4 L1B Calibration Usage Check   |   |  |  |  |
| Each product is checked in order to ensure that the necessary calibration files have been u   | sed in processing.  |  |  |  |
| Number of products with errors: 0   |   |  |  |  |
| 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.

2

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_20160401T143516_20160401T143647_C001 | IECDO EFFOR LEK ECDO EFFOR | The tracking echo has returned an error and the Rx1 Echo Error flag is set, indicating a degraded echo |
| CS_OFFL_SIR_LRM_1B_20160401T161549_20160401T161638_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: 2

| Product  | Test Failed   |
|--|---|
| CS_OFFL_SIR_SAR_220160401T080150_20160401T080151_C001  | Percentage of processing errors detected greater than minimum acceptable threshold. |
| CS_OFFL_SIR_SAR_2_20160401T080158_20160401T080202_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:

#### 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.

| Product   | Test Failed   | Description   |
|---|---|---|
| CS_OFFL_SIR_LRM_220160401T001449_20160401T003605_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_220160401T003610_20160401T003925_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_220160401T004624_20160401T004952_C001   | Surface Model Unavailable   | No DEM or Slope Model was used for the location of one or more record   |
| CS_OFFL_SIR_LRM_220160401T005213_20160401T011955_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_220160401T015042_20160401T021848_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 err<br>for Retracker 3 for one or more records   |
| S_OFFL_SIR_LRM_220160401T023146_20160401T024328_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   |
| S_OFFL_SIR_LRM_220160401T024904_20160401T030649_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   |
| S_OFFL_SIR_LRM_220160401T033127_20160401T033305_C001  | Height Error (Retracker 2), Backscatter<br>Error (Retracker 2)<br>Height Error (Retracker 2), Backscatter | There is a height and backscatter error for Retracker 2 for one or more records<br>There is a height and backscatter error for Retracker 2 for one or more    |
| S_OFFL_SIR_LRM_220160401T041056_20160401T044508_C001  | Error (Retracker 2)<br>Height Error (Retracker 2), Backscatter  | records<br>There is a height and backscatter error for Retracker 2 for one or more  |
| S_OFFL_SIR_LRM_220160401T050859_20160401T051152_C001  | Error (Retracker 2)<br>Height Error (Retracker 2), Backscatter  | records<br>There is a height and backscatter error for Retracker 2 for one or more  |
| S_OFFL_SIR_LRM_220160401T051335_20160401T053750_C001  | Error (Retracker 2)<br>Surface Model Unavailable  | records   |
| S_OFFL_SIR_LRM_220160401T053934_20160401T054443_C001<br>S_OFFL_SIR_LRM_2_20160401T055000_20160401T062433_C001 | Height Error (Retracker 2), Height Error<br>(Retracker 3), Backscatter Error                              | No DEM or Slope Model was used for the location of one or more recor<br>There is a height and backscatter error for Retracker 2 and a height error            |
| S_OFFL_SIR_LRM_2_20160401T064919_20160401T071215_C001   | (Retracker 2)<br>Height Error (Retracker 2), Backscatter  | for Retracker 3 for one or more records<br>There is a height and backscatter error for Retracker 2 for one or more  |
| S_OFFL_SIR_LRM_220160401T073032_20160401T074807_C001  | Error (Retracker 2)<br>Height Error (Retracker 2), Backscatter  | records<br>There is a height and backscatter error for Retracker 2 for one or more<br>records   |
| S_OFFL_SIR_LRM_220160401T075248_20160401T080005_C001  | Error (Retracker 2)<br>Height Error (Retracker 2), Backscatter<br>Error (Retracker 2)                     | records<br>There is a height and backscatter error for Retracker 2 for one or more<br>records   |
| S_OFFL_SIR_LRM_220160401T083901_20160401T085311_C001  | Height Error (Retracker 2), Backscatter<br>Error (Retracker 2)  | There is a height and backscatter error for Retracker 2 for one or more<br>records  |
| S_OFFL_SIR_LRM_220160401T090937_20160401T092515_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 er<br>for Retracker 3 for one or more records  |
| S_OFFL_SIR_LRM_220160401T092716_20160401T093638_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 e<br>for Retracker 3 for one or more records   |
| S_OFFL_SIR_LRM_220160401T100438_20160401T101540_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   |
| S_OFFL_SIR_LRM_220160401T102146_20160401T102911_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 e for Retracker 3 for one or more records  |
| S_OFFL_SIR_LRM_220160401T103114_20160401T103606_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   |
| S_OFFL_SIR_LRM_220160401T103855_20160401T104701_C001  | Surface Model Unavailable   | No DEM or Slope Model was used for the location of one or more reco<br>There is a height and backscatter error for Retracker 2 for one or more                |
| S_OFFL_SIR_LRM_220160401T104852_20160401T110435_C001  | Height Error (Retracker 2), Backscatter<br>Error (Retracker 2)<br>Height Error (Retracker 2), Backscatter | There is a height and backscatter error for Retracker 2 for one or more<br>There is a height and backscatter error for Retracker 2 for one or more            |
| S_OFFL_SIR_LRM_220160401T114108_20160401T121503_C001  | Error (Retracker 2)   | records   |
| S_OFFL_SIR_LRM_220160401T122014_20160401T122543_C001  | Surface Model Unavailable<br>Height Error (Retracker 2), Backscatter                                      | No DEM or Slope Model was used for the location of one or more reco<br>There is a height and backscatter error for Retracker 2 for one or more                |
| S_OFFL_SIR_LRM_220160401T122810_20160401T125330_C001<br>S_OFFL_SIR_LRM_2_20160401T132600_20160401T133642_C001 | Error (Retracker 2)<br>Height Error (Retracker 2), Backscatter  | records<br>There is a height and backscatter error for Retracker 2 for one or more  |
| S_OFFL_SIR_LRM_220160401T134219_20160401T135356_C001  | Error (Retracker 2)<br>Height Error (Retracker 2), Backscatter  | records<br>There is a height and backscatter error for Retracker 2 for one or more  |
| S_OFFL_SIR_LRM_2_20160401T140707_20160401T143513_C001   | Error (Retracker 2)<br>Height Error (Retracker 2), Backscatter<br>Error (Retracker 2)                     | records<br>There is a height and backscatter error for Retracker 2 for one or more<br>records   |
| S_OFFL_SIR_LRM_220160401T144402_20160401T144508_C001  | Height Error (Retracker 2)<br>Error (Retracker 2), Backscatter<br>Error (Retracker 2)                     | There is a height and backscatter error for Retracker 2 for one or more<br>records  |
| S_OFFL_SIR_LRM_220160401T145909_20160401T153320_C001  | Height Error (Retracker 2), Backscatter<br>Error (Retracker 2)  | There is a height and backscatter error for Retracker 2 for one or more<br>records  |
| S_OFFL_SIR_LRM_220160401T154549_20160401T155212_C001  | Height Error (Retracker 2), Backscatter<br>Error (Retracker 2)  | There is a height and backscatter error for Retracker 2 for one or more<br>records  |
| S_OFFL_SIR_LRM_220160401T161549_20160401T161638_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   |
| S_OFFL_SIR_LRM_220160401T162312_20160401T162518_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   |
| S_OFFL_SIR_LRM_220160401T163831_20160401T171247_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 e<br>for Retracker 3 for one or more records   |
| S_OFFL_SIR_LRM_220160401T172448_20160401T174802_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   |
| S_OFFL_SIR_LRM_220160401T181650_20160401T185030_C001  | Height Error (Retracker 2), Backscatter<br>Error (Retracker 2)  | There is a height and backscatter error for Retracker 2 for one or more<br>records  |
| S_OFFL_SIR_LRM_220160401T185813_20160401T190208_C001  | Surface Model Unavailable   | No DEM or Slope Model was used for the location of one or more reco   |
| S_OFFL_SIR_LRM_220160401T190409_20160401T194022_C001  | Height Error (Retracker 2), Backscatter<br>Error (Retracker 2)<br>Height Error (Retracker 2), Backscatter | There is a height and backscatter error for Retracker 2 for one or more<br>records<br>There is a height and backscatter error for Retracker 2 for one or more |
| S_OFFL_SIR_LRM_2_20160401T200011_20160401T200730_C001   | Error (Retracker 2)<br>Height Error (Retracker 2), Height Error   | records<br>There is a height and backscatter error for Retracker 2 and a height e   |
| S_OFFL_SIR_LRM_220160401T201212_20160401T202957_C001  | (Retracker 3), Backscatter Error<br>(Retracker 2)<br>Height Error (Retracker 2), Height Error             | for Retracker 3 for one or more records   |
| S_OFFL_SIR_LRM_220160401T204724_20160401T210032_C001  | (Retracker 3), Backscatter Error<br>(Retracker 2)   | There is a height and backscatter error for Retracker 2 and a height e<br>for Retracker 3 for one or more records   |

Height Error (Retracker 2), Backscatter Error (Retracker 2)

CS\_OFFL\_SIR\_LRM\_2\_\_20160401T210245\_20160401T211444\_C001

CS OFFL SIR LRM 2 20160401T214206 20160401T215231 C001 CS\_OFFL\_SIR\_LRM\_2\_\_20160401T215411\_20160401T220912\_C001 CS OFFL SIR LRM 2 20160401T223159 20160401T223646 C001 CS OFFL SIR LRM 2 20160401T224316 20160401T224623 C001 CS\_OFFL\_SIR\_LRM\_2\_\_20160401T224746\_20160401T225455\_C001 CS\_OFFL\_SIR\_LRM\_2\_\_20160401T232341\_20160401T234816\_C001 CS\_OFFL\_SIR\_SIN\_2\_\_20160401T003957\_20160401T004230\_C001 CS OFFL SIR SIN 2 20160401T004602 20160401T004609 C001 CS OFFL SIR SIN 2 20160401T004618 20160401T004624 C001 CS OFFL SIR SIN 2 20160401T004952 20160401T005135 C001 CS\_OFFL\_SIR\_SIN\_2\_\_20160401T021848\_20160401T022017\_C001 CS\_OFFL\_SIR\_SIN\_2\_\_20160401T022851\_20160401T023029\_C001 CS OFFL SIR SIN 2 20160401T031732 20160401T031756 C001 CS\_OFFL\_SIR\_SIN\_2\_\_20160401T035857\_20160401T040015\_C001 CS\_OFFL\_SIR\_SIN\_2\_\_20160401T040547\_20160401T040905\_C001 CS OFFL SIR SIN 2 20160401T045657 20160401T045743 C001 CS\_OFFL\_SIR\_SIN\_2\_\_20160401T054443\_20160401T054756\_C001 CS\_OFFL\_SIR\_SIN\_2\_\_20160401T071915\_20160401T072150\_C001 CS OFFL SIR SIN 2 20160401T072347 20160401T072923 C001 CS\_OFFL\_SIR\_SIN\_2\_\_20160401T081433\_20160401T081936\_C001 CS\_OFFL\_SIR\_SIN\_2\_\_20160401T085806\_20160401T090053\_C001 CS OFFL SIR SIN 2 20160401T090257 20160401T090357 C001 CS OFFL SIR SIN 2 20160401T090759 20160401T090937 C001 CS\_OFFL\_SIR\_SIN\_2\_\_20160401T095341\_20160401T095449\_C001 CS OFFL SIR SIN 2 20160401T095549 20160401T095701 C001 CS\_OFFL\_SIR\_SIN\_2\_\_20160401T103641\_20160401T103855\_C001 CS OFFL SIR SIN 2 20160401T104701 20160401T104849 C001 CS\_OFFL\_SIR\_SIN\_2\_\_20160401T113256\_20160401T113849\_C001 CS\_OFFL\_SIR\_SIN\_2\_\_20160401T121548\_20160401T121735\_C001 CS OFFL SIR SIN 2 20160401T121942 20160401T122014 C001 CS\_OFFL\_SIR\_SIN\_2\_\_20160401T122543\_20160401T122810\_C001 CS\_OFFL\_SIR\_SIN\_2\_\_20160401T130624\_20160401T130648\_C001 CS OFFL SIR SIN 2 20160401T130747 20160401T130815 C001 CS\_OFFL\_SIR\_SIN\_2\_\_20160401T135513\_20160401T135656\_C001 CS\_OFFL\_SIR\_SIN\_2\_\_20160401T135758\_20160401T135944\_C001 CS OFFL SIR SIN 2 20160401T140544 20160401T140707 C001 CS\_OFFL\_SIR\_SIN\_2\_\_20160401T153523\_20160401T153853\_C001 CS\_OFFL\_SIR\_SIN\_2\_\_20160401T154423\_20160401T154540\_C001 CS OFFL SIR SIN 2 20160401T171433 20160401T171754 C001 CS\_OFFL\_SIR\_SIN\_2\_\_20160401T172309\_20160401T172433\_C001 CS OFFL SIR SIN 2 20160401T180453 20160401T180641 C001 CS\_OFFL\_SIR\_SIN\_2\_\_20160401T185141\_20160401T185333\_C001 CS\_OFFL\_SIR\_SIN\_2\_\_20160401T190208\_20160401T190317\_C001 CS OFFL SIR SIN 2 20160401T194046 20160401T194151 C001 CS\_OFFL\_SIR\_SIN\_2\_\_20160401T194439\_20160401T194546\_C001 CS\_OFFL\_SIR\_SIN\_2\_\_20160401T202957\_20160401T203135\_C001 CS OFFL SIR SIN 2 20160401T203908 20160401T204105 C001 CS\_OFFL\_SIR\_SIN\_2\_\_20160401T212244\_20160401T212500\_C001 CS\_OFFL\_SIR\_SIN\_2\_\_20160401T220912\_20160401T221100\_C001 CS OFFL SIR SIN 2 20160401T221622 20160401T221628 C001

Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) SARIn X-track Angle Error SARIn X-track Angle Error, Surface Model Unavailable SARIn X-track Angle Error SARIn X-track Angle Error SARIn X-track Angle Error, Surface Model Unavailable SARIn X-track Angle Error SARIn X-track Angle Error, Surface Model Unavailable SARIn X-track Angle Error SARIn X-track Angle Error SARIn X-track Angle Error SARIn X-track Angle Error, Surface Model Unavailable SARIn X-track Angle Error, Surface Model Unavailable SARIn X-track Angle Error SARIn X-track Angle Error, Surface Model Unavailable SARIn X-track Angle Error SARIn X-track Angle Error

There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records There is a height and backscatter error for Retracker 2 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 for Retracker 3 for one or more records 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 records 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 records 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 records An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records 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 records An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records 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 records 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 records 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 records 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 records 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 records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records 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 records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records 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 records 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 records 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 records 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 records 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 records 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 records 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 records An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records 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 records

| CS_OFFL_SIR_SIN_220160401T221742_20160401T222436_C001 |                           | An ambiguous angle was detected for SARIn mode for one or more<br>records                                 |
|---|---------------------------|---|
| CS_OFFL_SIR_SIN_220160401T225825_20160401T230337_C001 |                           | 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_220160401T234818_20160401T235119_C001 | SARID X-TRACK ADDIE ETFOR | An ambiguous angle was detected for SARIn mode for one or more<br>records                                 |
| CS_OFFL_SIR_SIN_220160401T235520_20160401T235526_C001 | SARIN X-frack Angle Error | An ambiguous angle was detected for SARIn mode for one or more<br>records                                 |
| CS_OFFL_SIR_SIN_220160401T235751_20160402T000035_C001 | SARIN X-track Angle Error | An ambiguous angle was detected for SARIn mode for one or more<br>records                                 |
|   |                           |   |