





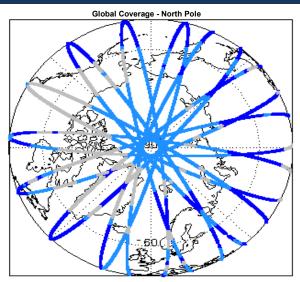
# 1. Overview

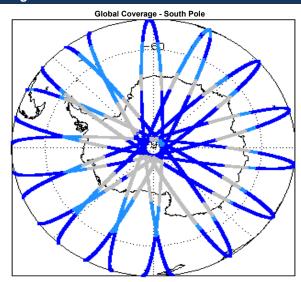
| Report Production Date: | 15-Jan-2016             |  |
|-------------------------|-------------------------|--|
| Processor Used:         | CryoSat Ice Processor   |  |
| Data Used:              | L1B and L2 OFFLINE Data |  |

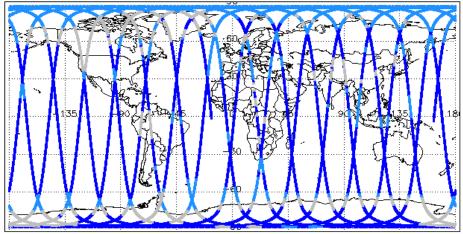
| Check                                      | Status                  |
|--|-------------------------|
| Server check: science-pds.cryosat.esa.int  | Nominal                 |
| Server check: calval-pds.cryosat.esa.int   | Nominal                 |
| Product Software Check                     | Nominal                 |
| 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 |

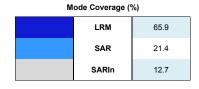
| Mission / Instrument News |                 |
|---------------------------|-----------------|
| 18-Dec-2015               | None            |
| 19-Dec-2015               | None            |
| 20-Dec-2015               | Nothing planned |

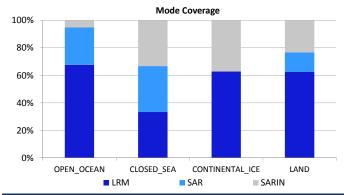
# 2. Global Coverage

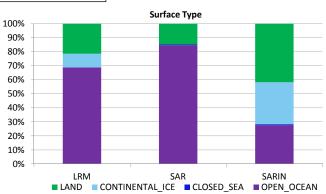












# 3. Instrument Configuration

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_20151219T064614_20151219T064616_C001 | Percentage of processing errors detected greater than minimum acceptable threshold. |
| CS_OFFL_SIR_SAR_1B_20151219T021312_20151219T021314_C001 | Percentage of processing errors detected greater than minimum acceptable threshold. |
| CS_OFFL_SIR_SAR_1B_20151219T132657_20151219T132658_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.

lumber 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.

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:

## 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:

| Product   | Test Failed   |
|---|---|
| CS_OFFL_SIR_SAR_220151219T064614_20151219T064616_C001 | Percentage of processing errors detected greater than minimum acceptable threshold. |
| CS_OFFL_SIR_SAR_220151219T021312_20151219T021314_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_2_20151218T234358_20151219T001741_C001 | Height Error (Retracker 2), Backscatter   | There is a height and backscatter error for Retracker 2 for one or more   |
| CS_OFFL_SIR_LRM_220151219T003509_20151219T010635_C001  | Error (Retracker 2) Height Error (Retracker 2), Backscatter                                   | records There is a height and backscatter error for Retracker 2 for one or more   |
|  | Error (Retracker 2) Height Error (Retracker 2), Backscatter                                   | records There is a height and backscatter error for Retracker 2 for one or more   |
| CS_OFFL_SIR_LRM_2_20151219T012503_20151219T013729_C001 | Error (Retracker 2)<br>Height Error (Retracker 2), Backscatter                                | records There is a height and backscatter error for Retracker 2 for one or more   |
| CS_OFFL_SIR_LRM_2_20151219T013844_20151219T015529_C001 | Error (Retracker 2) Height Error (Retracker 2), Backscatter                                   | records There is a height and backscatter error for Retracker 2 for one or more   |
| CS_OFFL_SIR_LRM_2_20151219T021713_20151219T022825_C001 | Error (Retracker 2) Height Error (Retracker 2), Height Error                                  | records   |
| CS_OFFL_SIR_LRM_220151219T023028_20151219T024531_C001  | (Retracker 3), Backscatter Error<br>(Retracker 2)<br>Height Error (Retracker 2), Height 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_20151219T030140_20151219T030639_C001 | (Retracker 3), Backscatter Error<br>(Retracker 2)<br>Height Error (Retracker 2), Backscatter  | There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records  There is a height and backscatter error for Retracker 2 for one or more |
| CS_OFFL_SIR_LRM_2_20151219T030710_20151219T031332_C001 | Error (Retracker 2) Height Error (Retracker 2), Height Error                                  | records   |
| CS_OFFL_SIR_LRM_2_20151219T031916_20151219T033047_C001 | (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_220151219T040947_20151219T042449_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_220151219T043244_20151219T043400_C001  | Surface Model Unavailable   | No DEM or Slope Model was used for the location of one or more records  |
| CS_OFFL_SIR_LRM_220151219T043855_20151219T050523_C001  | 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_20151219T054444_20151219T060400_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_220151219T061142_20151219T061508_C001  | Surface Model Unavailable   | No DEM or Slope Model was used for the location of one or more records  |
| CS_OFFL_SIR_LRM_220151219T061822_20151219T064503_C001  | 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_20151219T071722_20151219T074253_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_220151219T075040_20151219T075410_C001  | Surface Model Unavailable   | No DEM or Slope Model was used for the location of one or more records  |
| CS_OFFL_SIR_LRM_2_20151219T075859_20151219T083208_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_220151219T084438_20151219T084642_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_220151219T092538_20151219T093103_C001  | Surface Model Unavailable   | No DEM or Slope Model was used for the location of one or more records  |
| CS_OFFL_SIR_LRM_220151219T093740_20151219T095907_C001  | 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_220151219T100153_20151219T101118_C001  | 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_220151219T103427_20151219T110012_C001  | 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_220151219T110502_20151219T111001_C001  | Surface Model Unavailable   | No DEM or Slope Model was used for the location of one or more records  |
| CS_OFFL_SIR_LRM_2_20151219T111632_20151219T114950_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_2_20151219T121442_20151219T123737_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_20151219T125615_20151219T131148_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_220151219T131159_20151219T131328_C001  | 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_20151219T131809_20151219T132640_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_220151219T134556_20151219T140207_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_220151219T140422_20151219T141904_C001  | 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_220151219T143513_20151219T145031_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_220151219T145231_20151219T150151_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_20151219T152920_20151219T154014_C001 | 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_220151219T154624_20151219T160037_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_220151219T160359_20151219T161221_C001  | Surface Model Unavailable   | No DEM or Slope Model was used for the location of one or more records  |
| CS_OFFL_SIR_LRM_2_20151219T161459_20151219T163142_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_220151219T163313_20151219T163721_C001  | 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_220151219T171321_20151219T171641_C001  | 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_220151219T171706_20151219T173938_C001  | 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_220151219T174543_20151219T175042_C001  | Surface Model Unavailable   | No DEM or Slope Model was used for the location of one or more records  |
| CS_OFFL_SIR_LRM_2_20151219T175408_20151219T181741_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_220151219T181743_20151219T181912_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  |
|  | ((1000000012)   |   |

| Comparison   1.0   2016/09/2013000   Comparison   Compa   | 00.0551.010.100.0.004540405405000.004540405405705.0004 | Height Error (Retracker 2), Backscatter        | There is a height and backscatter error for Retracker 2 for one or more |
|--|--|--|---|
| Part   | CS_OFFL_SIR_LRM_2_20151219T185208_20151219T191735_C001 | Error (Retracker 2)                            | records   |
| CG CPPS, SPR 1941 2. 2015191700000 25915191700000 25915191700000 25915191700000 25915191700000 25915191700000 25915191700000 25915191700000 25915191700000 25915191700000 25915191700000 25915191700000 25915191700000 25915191700000 25915191700000 259151917000000 25915191700000 25915191700000 25915191700000 25915191700000 25915191700000 25915191700000 25915191700000 25915191700000 25915191700000 25915191700000 25915191700000 25915191700000 25915191700000 25915191700000 25915191700000 25915191700000 259151917000000 25915191700000 25915191700000 25915191700000 25915191700000 25915191700000 25915191700000 25915191700000 25915191700000 25915191700000 25915191700000 25915191700000 25915191700000 259151917000000 259151917000000 259151917000000 259151917000000 259151917000000 259151917000000 259151917000000 259151917000000 2591519170000000 2591519170000000 2591519170000000 2591519170000000 2591519170000000 25915191700000000000000000000000000000000  | CS_OFFL_SIR_LRM_2201512191193324_201512191200130_C001  | Error (Retracker 2)                            | records   |
| CONTRACTOR DELICATION  | CS_OFFL_SIR_LRM_220151219T200854_20151219T201059_C001  | (Retracker 3), Backscatter Error (Retracker 2) |   |
| Compage   Test   Compage   Test   Compage   Test    | CS_OFFL_SIR_LRM_220151219T202358_20151219T205710_C001  | (Retracker 3), Backscatter Error               |   |
| Co. (Pers. Jan.) 1.00 / 2.00 15 15 17 17 16 10 17 16 1 | CS_OFFL_SIR_LRM_220151219T212019_20151219T212350_C001  | Height Error (Retracker 2), Backscatter        |   |
| Comput. Biol. 2012   2015/2017/2017/2017/2017/2017/2017/2017/2017  | CS_OFFL_SIR_LRM_2_20151219T214149_20151219T214221_C001 | (Retracker 3), Backscatter Error               |   |
| Completed   Comp   | CS_OFFL_SIR_LRM_220151219T220324_20151219T221212_C001  | Height Error (Retracker 2), Backscatter        |   |
| Company   Comp   | CS_OFFL_SIR_LRM_2_20151219T221457_20151219T223652_C001 |  |   |
| Comp.   Mil.     | CS_OFFL_SIR_LRM_220151219T225315_20151219T230333_C001  |  |   |
| Confest   Conf   | CS_OFFL_SIR_LRM_220151219T230520_20151219T231752_C001  |  |   |
| Schiller, 1991. 2015/21/07/05/22, 2015/21/07/05/22, 0.1015/21/07/05/2015/2015/2015/2015/2015/2015/2015/2   | CS_OFFL_SIR_LRM_220151219T234202_20151220T001527_C001  |  | · ·   |
| Section Assists Agric Entry  Section Assists Agric Entry  Section Assists Agric Entry  As antilippoca angle was deeded for SARs mode for one or more  As ant | CS_OFFL_SIR_SIN_2_20151219T001823_20151219T002050_C001 | SARIn X-track Angle Error                      |   |
| Section Full State 2, 2015/21/071092 | CS_OFFL_SIR_SIN_220151219T002127_20151219T002248_C001  | SARIn X-track Angle Error                      | -   |
| SOPPL_SIR_SIN_2_20151219702004_20151219702015_C001  SARIN Krisak Angle Error  An embiguous argin was delected for SARIn mode for one or more records.  SARIN Krisak Angle Error  An embiguous argin was delected for SARIn mode for one or more records.  SARIN Krisak Angle Error  An embiguous argin was delected for SARIn mode for one or more records.  SARIN Krisak Angle Error  An embiguous argin was delected for SARIn mode for one or more records.  SARIN Krisak Angle Error  An embiguous argin was delected for SARIn mode for one or more records.  SARIN Krisak Angle Error  An embiguous argin was delicated for SARIN mode for one or more records.  SARIN Krisak Angle Error  SARIN Krisak Angle Error  An embiguous argin was delicated for SARIN mode for one or more records.  SARIN Krisak Angle Error  An embiguous argin was delicated for SARIN mode for one or more records.  SARIN Krisak Angle Error  An embiguous argin was delicated for SARIN mode for one or more records.  SARIN Krisak Angle Error  An embiguous argin was delicated for SARIN mode for one or  | CS_OFFL_SIR_SIN_2_20151219T010705_20151219T010831_C001 | SARIn X-track Angle Error                      |   |
| Seyoff, Sink Sink 2_2015/219704494, 2015/2197049777_C001  SARIA X-rack Angle Error  An ambiguous angle was detected for SARIa mode for one or more excess.  SARIA X-rack Angle Error  An ambiguous angle was detected for SARIa mode for one or more excess.  SARIA X-rack Angle Error  An ambiguous angle was detected for SARIa mode for one or more excess.  SARIA X-rack Angle Error  An ambiguous angle was detected for SARIa mode for one or more excess.  SARIA X-rack Angle Error  An ambiguous angle was detected for SARIa mode for one or more excess.  SARIA X-rack Angle Error  An ambiguous angle was detected for SARIa mode for one or more excess.  SARIA X-rack Angle Error  An ambiguous angle was detected for SARIa mode for one or more excess.  SARIA X-rack Angle Error  An ambiguous angle was detected for SARIa mode for one or more excess.  SARIA X-rack Angle Error  An ambiguous angle was detected for SARIa mode or one or more excess.  An ambiguous angle was detected for SARIa mode and no DEM or Steps Model Useralizable.  SARIA X-rack Angle Error  SARIA X-rack Angle Error  An ambiguous angle was detected for SARIa mode or or or or more excess.  An ambiguous angle was detected for SARIa mode or or or or more excess.  SARIA X-rack Angle Error  An ambiguous angle was detected for SARIa mode for one or more excess.  SARIA X-rack Angle Error  An ambiguous angle was detected for SARIa mode for one or more excess.  SARIA X-rack Angle Error  An ambiguous angle was detected for SARIa mode for one or more excess.  SARIA X-rack Angle Error  An ambiguous angle was detected for SARIa mode for one or more excess.  SARIA X-rack Angle Error  An ambiguous angle was detected for SARIa mode for one or more excess.  SARIA X-rack Angle Error  An ambiguous angle was detected for SARIa mode for one or more excess.  SARIA X-rack Angle Error  An ambiguous angle was detected for SARIa mode for one or more excess.  SARIA X-rack Angle Error  An ambiguous angle was detected for SARIa mode for one or more excess.  SARIA X-rack Angle Error  An ambiguou | CS_OFFL_SIR_SIN_2_20151219T011631_20151219T011816_C001 | SARIn X-track Angle Error                      |   |
| South Market Angle Error  An enthogous angle was detected for SAAfin mode for one or more excelled.  South Market Angle Error  South Market Angle Error  An enthogous angle was detected for SAAfin mode for one or more excelled.  South Market Angle Error  An enthogous angle was detected for SAAfin mode for one or more excelled.  South Market Angle Error  S | CS_OFFL_SIR_SIN_2_20151219T015529_20151219T015953_C001 | SARIn X-track Angle Error                      |   |
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| S. OFFL, SIR, SIN, 2_201512191029392, 2015129103903, 2001  CS. OFFL, SIR, SIN, 2_201512191039392, 2015129103903, 2001  SARIn X-track Angle Error  CS. OFFL, SIR, SIN, 2_201512191043922, 2015129103928, 2001  SARIn X-track Angle Error  CS. OFFL, SIR, SIN, 2_20151291043922, 2015129104278, 2001  SARIn X-track Angle Error  CS. OFFL, SIR, SIN, 2_20151291039392, 2015129104278, 2001  SARIn X-track Angle Error  An armibiguous angle was delected for SARIn mode for one or more conditions of the condition of the c | CS_OFFL_SIR_SIN_220151219T024614_20151219T024757_C001  | SARIn X-track Angle Error                      |   |
| SARIA NERGA Angle Error  CS_OFFL_SIR_SIN_2_20151219705825_20151219704293_C001  SARIA NERGA Angle Error  CS_OFFL_SIR_SIN_2_20151219705825_20151219704293_C001  SARIA NERGA Angle Error  CS_OFFL_SIR_SIN_2_20151219705825_20151219705825_C001  SARIA NERGA Angle Error  CS_OFFL_SIR_SIN_2_20151219705825_C001  SARIA NERGA Angle Error  CS_OFFL_SIR_SIN_2_20151219705925_C001  SARIA NERGA Angle Error  An antibipuous angle was detected for SARIA mode for one or more records  CS_OFFL_SIR_SIN_2_20151219705925_C001  SARIA NERGA Angle Error  An antibipuous angle was detected for SARIA mode for one or more records  An antibipuous angle was detected for SARIA mode for one or more records  An antibipuous angle was detected for SARIA mode for one or more records  An antibipuous angle was detected for SARIA mode for one or more records  An antibipuous angle was detected for SARIA mode for one or more records  An antibipuous angle was detected for SARIA mode for one or more records  An antibipuous angle was detected for SARIA mode for one or more records  An antibipuous angle was detected for SARIA mode for one or | CS_OFFL_SIR_SIN_220151219T025324_20151219T025330_C001  | SARIn X-track Angle Error                      |   |
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| SARIN X-track Angle Error  SARIN X-track Angle E | CS_OFFL_SIR_SIN_220151219T033625_20151219T034053_C001  |  |   |
| SARIN X-rack Angle Error  SC OFFL_SIR_SIN_2_201512191063400_20151219106372_C001  SARIN X-rack Angle Error, Surface 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.  SARIN X-rack Angle Error  SARIN X-rack 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 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 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  | CS_OFFL_SIR_SIN_220151219T042535_20151219T042731_C001  | SARIn X-track Angle Error                      |   |
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| CS_OFFL_SIR_SIN_2_20151219T06036_20151219T060132_C001  SARIN X-track Angle Error encords  An ambiguous angle was detected for SARIn mode for one or more records  CS_OFFL_SIR_SIN_2_20151219T074419_20151219T074543_C001  SARIN X-track Angle Error  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 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  SARIN X-track Angle Error  SARIN X-track Angle | CS_OFFL_SIR_SIN_2_20151219T052420_20151219T052459_C001 |  |   |
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| CS_OFFL_SIR_SIN_2_20151219T120533_20151219T120603_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 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 ambiguo | CS_OFFL_SIR_SIN_220151219T110347_20151219T110502_C001  | SARIn X-track Angle Error                      | records   |
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| CS_OFFL_SIR_SIN_2_20151219T124906_20151219T125332_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 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 detec | CS_OFFL_SIR_SIN_220151219T120533_20151219T120603_C001  |  | Model was used for one or more records                                  |
| CS_OFFL_SIR_SIN_2_20151219T133948_20151219T134109_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 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   | CS_OFFL_SIR_SIN_220151219T124436_20151219T124713_C001  | SARIn X-track Angle Error                      | records   |
| CS_OFFL_SIR_SIN_2_20151219T134359_20151219T134526_C001  SARIN X-track Angle Error  CS_OFFL_SIR_SIN_2_20151219T142150_20151219T142606_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 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  | CS_OFFL_SIR_SIN_220151219T124906_20151219T125532_C001  | SARIn X-track Angle Error                      | records   |
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| CS_OFFL_SIR_SIN_2_20151219T143321_20151219T143455_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 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   | CS_OFFL_SIR_SIN_2_20151219T142150_20151219T142606_C001 | SARIn X-track Angle Error                      | records   |
| CS_OFFL_SIR_SIN_2_20151219T152049_20151219T152039_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 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   | CS_OFFL_SIR_SIN_220151219T142817_20151219T142904_C001  | SARIn X-track Angle Error                      | records   |
| CS_OFFL_SIR_SIN_2_20151219T152049_20151219T152036_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 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  | CS_OFFL_SIR_SIN_2_20151219T143321_20151219T143455_C001 | SARIn X-track Angle Error                      | records   |
| CS_OFFL_SIR_SIN_2_20151219T152049_20151219T152533_C001  SARIN X-track Angle Error records  An ambiguous angle was detected for SARIn mode for one or more records  CS_OFFL_SIR_SIN_2_20151219T160205_20151219T160359_C001  SARIN X-track Angle Error Angle Error seconds  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   | CS_OFFL_SIR_SIN_220151219T151904_20151219T152009_C001  | SARIn X-track Angle Error                      | records   |
| CS_OFFL_SIR_SIN_2_201512191152326_20151219115233_C001  SARIN X-track Angle Error  CS_OFFL_SIR_SIN_2_201512191160205_201512191160359_C001  SARIN X-track Angle Error  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_2_20151219T152049_20151219T152136_C001 | SARIn X-track Angle Error                      | records   |
| CS_OFFL_SIR_SIN_2_201512191160205_201512191160359_C001  SARIN X-track Angle Error  An ambiguous angle was detected for SARIn mode for one or more  | CS_OFFL_SIR_SIN_220151219T152326_20151219T152533_C001  | SARIn X-track Angle Error                      | records   |
|  | CS_OFFL_SIR_SIN_2_20151219T160205_20151219T160359_C001 | SARIn X-track Angle Error                      | records   |
| 100000   | CS_OFFL_SIR_SIN_2_20151219T161221_20151219T161409_C001 | SARIn X-track Angle Error                      | An ambiguous angle was detected for SARIn mode for one or more records  |

| CS_OFFL_SIR_SIN_2_20151219T165817_20151219T170319_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_220151219T174138_20151219T174257_C001  | SARIn X-track Angle Error                               | An ambiguous angle was detected for SARIn mode for one or more records                                    |
| CS_OFFL_SIR_SIN_220151219T174456_20151219T174542_C001  | SARIn X-track Angle Error                               | An ambiguous angle was detected for SARIn mode for one or more records                                    |
| CS_OFFL_SIR_SIN_220151219T175042_20151219T175312_C001  | SARIn X-track Angle Error                               | An ambiguous angle was detected for SARIn mode for one or more records                                    |
| CS_OFFL_SIR_SIN_220151219T183120_20151219T183154_C001  | SARIn X-track Angle Error, Surface 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_220151219T192102_20151219T192223_C001  | SARIn X-track Angle Error                               | An ambiguous angle was detected for SARIn mode for one or more records                                    |
| CS_OFFL_SIR_SIN_220151219T192301_20151219T192504_C001  | SARIn X-track Angle Error                               | An ambiguous angle was detected for SARIn mode for one or more records                                    |
| CS_OFFL_SIR_SIN_220151219T193104_20151219T193234_C001  | SARIn X-track Angle Error                               | An ambiguous angle was detected for SARIn mode for one or more records                                    |
| CS_OFFL_SIR_SIN_220151219T210051_20151219T210412_C001  | SARIn X-track Angle Error                               | An ambiguous angle was detected for SARIn mode for one or more records                                    |
| CS_OFFL_SIR_SIN_220151219T210935_20151219T211054_C001  | SARIn X-track Angle Error                               | An ambiguous angle was detected for SARIn mode for one or more records                                    |
| CS_OFFL_SIR_SIN_220151219T223946_20151219T224306_C001  | SARIn X-track Angle Error                               | An ambiguous angle was detected for SARIn mode for one or more records                                    |
| CS_OFFL_SIR_SIN_2_20151219T224828_20151219T224952_C001 | SARIn X-track Angle Error                               | An ambiguous angle was detected for SARIn mode for one or more records                                    |
| CS_OFFL_SIR_SIN_220151219T232913_20151219T233203_C001  | SARIn X-track Angle Error                               | An ambiguous angle was detected for SARIn mode for one or more records                                    |