



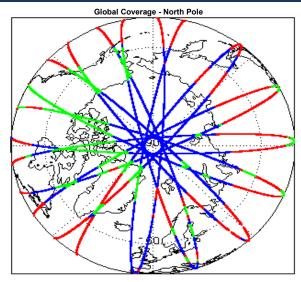
1. Overview

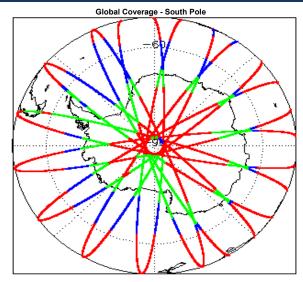
| Report Production Date: | 19-Jan-2018 | | |
|-------------------------|-------------------------|--|--|
| Processor Used: | CryoSat Ice Processor | | |
| Data Used: | L1B and L2 OFFLINE Data | | |

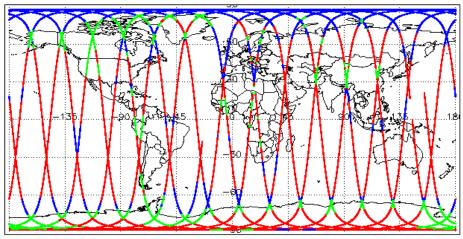
| Check | Status |
|--|-------------------------|
| Server check: science-pds.cryosat.esa.int | Nominal |
| Server check: calval-pds.cryosat.esa.int | Nominal |
| Product Software Check | Nominal |
| Product Format Check | Nominal |
| Product Header Analysis | See Section 4.2 and 5.2 |
| Star Tracker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

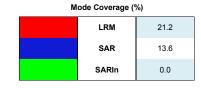
| Mission / Instru | Mission / Instrument News | | | |
|------------------|---------------------------|--|--|--|
| 22-Dec-2017 | None | | | |
| 23-Dec-2017 | None | | | |
| 24-Dec-2017 | Nothing planned | | | |

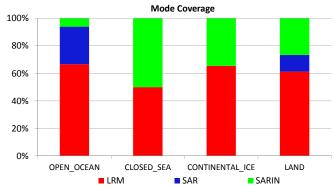
2. Global Coverage

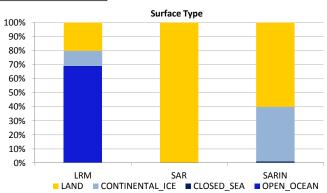












3. Instrument Configuration

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_20171223T005841_20171223T005843_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:

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_2_20171223T005841_20171223T005843_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

Number of products with errors:

| Product | Test Failed | Description |
|--|--|---|
| CS_OFFL_SIR_LRM_2_20171222T234532_20171223T000828_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_220171223T001804_20171223T001956_C001 | Surface Model Unavailable | No DEM or Slope Model was used for the location of one or more records |
| CS_OFFL_SIR_LRM_2_20171223T002709_20171223T004225_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_220171223T004228_20171223T004419_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_20171223T004900_20171223T005736_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_220171223T011630_20171223T013258_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_20171223T013512_20171223T014948_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_20171223T020602_20171223T022123_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_220171223T022323_20171223T022341_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_220171223T022344_20171223T022532_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_220171223T022535_20171223T023244_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_220171223T030007_20171223T031212_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_220171223T031723_20171223T033127_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_220171223T033452_20171223T034312_C001 | Surface Model Unavailable | No DEM or Slope Model was used for the location of one or more records |
| CS_OFFL_SIR_LRM_220171223T034551_20171223T040211_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_220171223T040441_20171223T040653_C001 | Height Error (Retracker 2), Backscatter Error (Retracker 2) Height Error (Retracker 2), Height Error | There is a height and backscatter error for Retracker 2 for one or more records |
| CS_OFFL_SIR_LRM_220171223T044408_20171223T051031_C001 | (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_220171223T051632_20171223T052136_C001 | Surface Model Unavailable Height Error (Retracker 2), Backscatter | No DEM or Slope Model was used for the location of one or more records |
| CS_OFFL_SIR_LRM_220171223T052500_20171223T054953_C001 | Error (Retracker 2) Height Error (Retracker 2), Height Error | There is a height and backscatter error for Retracker 2 for one or more records |
| CS_OFFL_SIR_LRM_220171223T062148_20171223T063253_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_220171223T063832_20171223T064827_C001 | Height Error (Retracker 2), Backscatter Error (Retracker 2) Height Error (Retracker 2), Height Error | 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 |
| CS_OFFL_SIR_LRM_220171223T070415_20171223T072521_C001 | (Retracker 3), Backscatter Error (Retracker 2) | for Retracker 3 for one or more records |
| CS_OFFL_SIR_LRM_220171223T073947_20171223T074151_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_220171223T075455_20171223T082759_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_220171223T084402_20171223T084821_C001 | Height Error (Retracker 2), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter | 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 |
| CS_OFFL_SIR_LRM_220171223T091838_20171223T092215_C001 | Error (Retracker 2) Height Error (Retracker 2), Backscatter | There is a height and backscatter error for Retracker 2 for one or more |
| CS_OFFL_SIR_LRM_220171223T093420_20171223T094303_C001 | Error (Retracker 2) Height Error (Retracker 2), Backscatter | There is a height and backscatter error for Retracker 2 for one or more |
| CS_OFFL_SIR_LRM_220171223T094548_20171223T100744_C001 | Error (Retracker 2) Height Error (Retracker 2), Backscatter | There is a height and backscatter error for Retracker 2 for one or more |
| CS_OFFL_SIR_LRM_220171223T102405_20171223T103502_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_220171223T103612_20171223T104054_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_220171223T111251_20171223T114618_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_220171223T120505_20171223T123632_C001 | Error (Retracker 2) Height Error (Retracker 2), Height Error | records |
| CS_OFFL_SIR_LRM_220171223T125514_20171223T130342_C001 | (Retracker 3), Backscatter Error (Retracker 2) 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_220171223T130823_20171223T132553_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_220171223T134306_20171223T135643_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_220171223T135857_20171223T141229_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_220171223T143823_20171223T144843_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_220171223T145023_20171223T150433_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_20171223T152522_20171223T153400_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_220171223T153747_20171223T154235_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_220171223T162121_20171223T164348_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_220171223T165151_20171223T165442_C001 | Surface Model Unavailable | No DEM or Slope Model was used for the location of one or more records |
| CS_OFFL_SIR_LRM_220171223T165809_20171223T172552_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_220171223T174742_20171223T174810_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_CFF_SR_LRM_2_201712237183048_201712237180440_CO11 Surface Model Unavailable Surface Model Unavail |
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| Sept Ser Limbu 2, 2017 12311 18484 2, 2017 12311 18484 2, 2017 12311 18484 2, 2017 12311 18484 2, 2017 12311 18484 2, 2017 12311 18672 2, 2017 12311 18672 2, 2017 12311 18672 2, 2017 12311 18672 2, 2017 12311 18672 2, 2017 12311 18672 2, 2017 12311 18672 2, 2017 12311 18672 2, 2017 12311 18672 2, 2017 12311 18672 2, 2017 12311 18672 2, 2017 12311 12311 18672 2, 2017 12311 12311 12311 18672 2, 2017 12311 1 |
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| CS_OFFL_SIR_LRM |
| Surface Model Unavailable Surface Model Unavailable No DEM or Slope Model was used for the location of one or more records Regill Error (Retracker 2), Height Error (Retracker 2), Height Error (Retracker 2), Height Error (Retracker 2), Height Error (Retracker 2), Backscatter (Retracker 2) |
| Height Error (Retrocker 2). Height Error (Retrocker 3) to row or more records from the part of the par |
| (Reinacker 2), Backscatter from (Retracker 2), Backscatter from Retracker 2), Backscatter from Retracker 2), Backscatter from Retracker 2, Backsca |
| Error (Retracker 2) Ferror (Retracker 2) F |
| Error (Retracker 2) Height Error (Retracker 2) Height Error (Retracker 3) Height Error (Retracker 3) Backscatter Error (Retracker 2) Backscatter Error (Retracker 3) Groen or more records CS_OFFL_SIR_LRM_2_201712237232644_201712237232910_C001 Surface Model Unavailable Mo DEM or Slope Model was used for the location of one or more records There is a height and backscatter error for Retracker 2 or one or more records There is a height and backscatter error for Retracker 2 or one or more records There is a height and backscatter error for Retracker 2 or one or more records There is a height and backscatter error for Retracker 2 or 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 or one or more records No DEM or Slope Model was used for the location of one or more records No DEM or Slope Model was used for the location of one or more records Saria X-track Angle Error A nambiguous angle was detected for SARIn mode for one or more records Saria X-track Angle Error A nambiguous angle was detected for SARIn mode for one or more records SARIn X-track Angle Error A nambiguous angle was detected for SARIn mode for one or more records SARIn X-track Angle Error A nambiguous angle was detected for SARIn mode for one or more records SARIn X-track Angle Error A nambiguous an |
| GS_OFFL_SIR_IRM_2_20171223T22108_20171223T22904_C001 CS_OFFL_SIR_IRM_2_20171223T222108_20171223T22904_C001 CS_OFFL_SIR_IRM_2_20171223T229108_20171223T23074_C001 CS_OFFL_SIR_IRM_2_20171223T230103_20171223T23074_C001 CS_OFFL_SIR_IRM_2_20171223T230103_20171223T231932_C001 CS_OFFL_SIR_IRM_2_20171223T23078_20171223T231932_C001 CS_OFFL_SIR_IRM_2_20171223T23078_20171223T231932_C001 CS_OFFL_SIR_IRM_2_20171223T23044_20171223T23929_C001 CS_OFFL_SIR_IRM_2_20171223T2300120_20171224T000017_C001 CS_OFFL_SIR_IRM_2_20171223T2300120_20171224T000017_C001 CS_OFFL_SIR_IRM_2_20171223T2300120_20171224T000017_C001 CS_OFFL_SIR_IRM_2_20171223T2300120_20171224T000017_C001 CS_OFFL_SIR_IRM_2_20171223T2300120_20171224T000017_C001 CS_OFFL_SIR_IRM_2_20171223T001507_20171223T000202_C001 SARIN_X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records CS_OFFL_SIR_IRM_2_20171223T011041_20171223T011500_C001 SARIN_X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records CS_OFFL_SIR_IRM_2_20171223T015000_20171223T015000_C001 SARIN_X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records CS_OFFL_SIR_IRM_2_20171223T015000_20171223T015000_C001 SARIN_X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records SARIN_X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records SARIN_X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records SARIN_X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records SARIN_X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records SARIN_X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records SARIN_X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records SARIN_X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records SARIN_X-t |
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| (Retracker 3), Backscatter Error (Retracker 2) (Retracker 2), Backscatter Error (Retracker 2) (Retra |
| Error (Retracker 2) Surface Model Unavailable No DBM or Slope Model was used for the location of one or more records Height Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter Error (Retracker 2) Error (Retracker 2) Error (Retracker 2) SARIN X-track Angle Error Error (Retracker 2), Backscatter Error (Retracker 2) SARIN X-track Angle Error SARIN X-tra |
| Height Error (Retracker 2), Backscatter Error (Retracker 2), Backs |
| CS_OFFL_SIR_SIN_2_20171223T001527_20171223T001604_C001 SARIN X-track Angle Error SARIN X-track Angle |
| SARIN X-track Angle Error SARIN X-track Angle E |
| CS_OFFL_SIR_SIN_2_20171223T01041_20171223T011201_CO01 SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records CS_OFFL_SIR_SIN_2_20171223T011505_20171223T015658_CO01 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 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 CS_OFFL_SIR_SIN_2_20171223T0325423_20171223T033452_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 An ambiguous an |
| CS_OFFL_SIR_SIN_2_20171223T011446_20171223T015658_C001 CS_OFFL_SIR_SIN_2_20171223T015005_20171223T015658_C001 CS_OFFL_SIR_SIN_2_20171223T015005_20171223T015658_C001 CS_OFFL_SIR_SIN_2_20171223T015908_20171223T015957_C001 SARIN X-track Angle Error CS_OFFL_SIR_SIN_2_20171223T020411_20171223T020546_C001 CS_OFFL_SIR_SIN_2_20171223T020411_20171223T020546_C001 SARIN X-track Angle Error CS_OFFL_SIR_SIN_2_20171223T020411_20171223T020546_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 CS_OFFL_SIR_SIN_2_20171223T025144_20171223T025234_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 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 Unavailable 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 or more records An ambiguous angle was detect |
| CS_OFFL_SIR_SIN_2_20171223T015305_20171223T015695_C001 CS_OFFL_SIR_SIN_2_20171223T015305_20171223T015695_C001 CS_OFFL_SIR_SIN_2_20171223T015908_20171223T015957_C001 SARIN X-track Angle Error SARIN X-track Angle Error CS_OFFL_SIR_SIN_2_20171223T020411_20171223T020546_C001 SARIN X-track Angle Error SARIN X-track Angle Error SARIN X-track Angle Error CS_OFFL_SIR_SIN_2_20171223T024955_20171223T025100_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 o |
| CS_OFFL_SIR_SIN_2_20171223T015908_20171223T015957_C001 SARIN X-track Angle Error An ambiguous angle was detected for SARIN mode and no DEM or Slope Model Unavailable 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 |
| CS_OFFL_SIR_SIN_2_20171223T024915_20171223T020546_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 SARIN X-track Angle Error SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode |
| CS_OFFL_SIR_SIN_2_20171223T024955_20171223T025234_C001 SARIN X-track Angle Error CS_OFFL_SIR_SIN_2_20171223T025144_20171223T025234_C001 SARIN X-track Angle Error CS_OFFL_SIR_SIN_2_20171223T025144_20171223T025234_C001 SARIN X-track Angle Error SARIN X-track Angle Error CS_OFFL_SIR_SIN_2_20171223T025423_20171223T025629_C001 SARIN X-track Angle Error SARIN X-track Angle Error CS_OFFL_SIR_SIN_2_20171223T033256_20171223T033452_C001 SARIN X-track Angle Error SARIN X-track Angle Error SARIN X-track Angle Error CS_OFFL_SIR_SIN_2_20171223T034312_20171223T034500_C001 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 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 |
| CS_OFFL_SIR_SIN_2_20171223T025144_20171223T025234_C001 SARIN X-track Angle Error SARIN X-track Angle Error CS_OFFL_SIR_SIN_2_20171223T025423_20171223T025629_C001 SARIN X-track Angle Error CS_OFFL_SIR_SIN_2_20171223T033256_20171223T033452_C001 SARIN X-track Angle Error An ambiguous angle was detected for SARIN mode for one or more records SARIN X-track Angle Error, Surface Model Unavailable An ambiguous angle was detected for SARIN mode and no DEM or Slope Model Unavailable |
| CS_OFFL_SIR_SIN_2_20171223T025423_20171223T033452_C001 SARIN X-track Angle Error SARIN X-track Angle Error, Surface Model Unavailable SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records SARIN X-track Angle Error SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records 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 and no DEM or Slope Model Unavailable |
| CS_OFFL_SIR_SIN_2_20171223T033256_20171223T03450_C001 SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records SARIN X-track Angle Error SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode and no DEM or Slope Model Unavailable |
| CS_OFFL_SIR_SIN_2_20171223T034312_20171223T043414_C001 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 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, Surface Model Unavailable |
| CS_OFFL_SIR_SIN_2_20171223T042908_20171223T043414_C001 CS_OFFL_SIR_SIN_2_20171223T042908_20171223T043414_C001 CS_OFFL_SIR_SIN_2_20171223T051229_20171223T051347_C001 SARIN X-track Angle Error An ambiguous angle was detected for SARIN mode for one or more records SARIN X-track Angle Error 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 and no DEM or Slope Model Unavailable |
| Model Unavailable Model Unavailable Model Unavailable Model Unavailable Model Unavailable Model Unavailable SARIn X-track Angle Error Model Was used for one or more records An ambiguous angle was detected for SARIn mode and no DEM or Slope Model Unavailable |
| CS_OFFL_SIR_SIN_2_20171223T051548_20171223T051631_C001 SARIN X-track Angle Error An ambiguous angle was detected for SARIN mode for one or more records SARIN X-track Angle Error, Surface Model Unavailable |
| CS_OFFL_SIR_SIN_2_20171223T060217_20171223T060249_C001 SARIN X-track Angle Error records SARIN X-track Angle Error SARIN mode for one or more records SARIN X-track Angle Error records An ambiguous angle was detected for SARIN mode and no DEM or Slope Model Unavailable Model was used for one or more records |
| CS_OFFL_SIR_SIN_2_20171223T060217_20171223T060249_C001 SARIN X-track Angle Error SARIN X-track Angle Error, Surface Model Unavailable SARIN X-track Angle Error, Surface Model was used for one or more records |
| Model Unavailable Model was used for one or more records |
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| CS_OFFL_SIR_SIN_2_20171223T065151_20171223T065312_C001 SARIn X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records |
| CS_OFFL_SIR_SIN_2_20171223T065355_20171223T065554_C001 SARIn X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records |
| CS_OFFL_SIR_SIN_2_20171223T070157_20171223T070327_C001 SARIn X-track Angle Error An ambiguous angle was detected for SARin mode for one or more records |
| CS_OFFL_SIR_SIN_2_20171223T083140_20171223T083502_C001 SARIn X-track Angle Error An ambiguous angle was detected for SARin mode for one or more records |
| CS_OFFL_SIR_SIN_2_20171223T084028_20171223T084145_C001 SARIn X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records |
| CS_OFFL_SIR_SIN_2_20171223T101038_20171223T101358_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 |
| CS_OFFL_SIR_SIN_2_20171223T101919_20171223T102043_C001 SARIn X-track Angle Error An ambiguous angle was detected for SARin mode for one or more records |
| CS_OFFL_SIR_SIN_2_20171223T110011_20171223T110254_C001 SARIn X-track Angle Error An ambiguous angle was detected for SARin mode for one or more records |
| CS_OFFL_SIR_SIN_2_20171223T114706_20171223T114908_C001 SARIn X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records |
| CS_OFFL_SIR_SIN_2_20171223T115752_20171223T115922_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 |
| CS_OFFL_SIR_SIN_2_20171223T123645_20171223T123747_C001 SARIn X-track Angle Error An ambiguous angle was detected for SARin mode for one or more records |
| CS_OFFL_SIR_SIN_2_20171223T124053_20171223T124155_C001 SARIn X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records |
| CS_OFFL_SIR_SIN_2_20171223T132610_20171223T132748_C001 SARIn X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records |
| CS_OFFL_SIR_SIN_2_20171223T133333_20171223T133337_C001 SARIn X-track Angle Error An ambiguous angle was detected for SARin mode for one or more records |
| CS_OFFL_SIR_SIN_2_20171223T133512_20171223T133716_C001 SARIn X-track Angle Error An ambiguous angle was detected for SARin mode for one or more records |
| CS_OFFL_SIR_SIN_2_20171223T141540_20171223T141652_C001 SARIn X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records |

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|---|---|---|
| CS_OFFL_SIR_SIN_220171223T141854_20171223T142109_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_220171223T150524_20171223T150711_C001 | SARIn X-track Angle Error | An ambiguous angle was detected for SARIn mode for one or more records |
| CS_OFFL_SIR_SIN_220171223T151231_20171223T151237_C001 | SARIn X-track Angle Error | An ambiguous angle was detected for SARIn mode for one or more records |
| CS_OFFL_SIR_SIN_220171223T151247_20171223T151251_C001 | SARIn X-track Angle Error | An ambiguous angle was detected for SARIn mode for one or more records |
| CS_OFFL_SIR_SIN_220171223T151353_20171223T152047_C001 | SARIn X-track Angle Error | An ambiguous angle was detected for SARIn mode for one or more records |
| CS_OFFL_SIR_SIN_220171223T152210_20171223T152522_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_220171223T164429_20171223T164744_C001 | SARIn X-track Angle Error | An ambiguous angle was detected for SARIn mode for one or more records |
| CS_OFFL_SIR_SIN_220171223T165129_20171223T165135_C001 | SARIn X-track Angle Error | An ambiguous angle was detected for SARIn mode for one or more records |
| CS_OFFL_SIR_SIN_220171223T165145_20171223T165150_C001 | SARIn X-track Angle Error | An ambiguous angle was detected for SARIn mode for one or more records |
| CS_OFFL_SIR_SIN_220171223T165442_20171223T165650_C001 | SARIn X-track Angle Error | An ambiguous angle was detected for SARIn mode for one or more records |
| CS_OFFL_SIR_SIN_220171223T182352_20171223T182526_C001 | SARIn X-track Angle Error | An ambiguous angle was detected for SARIn mode for one or more records |
| CS_OFFL_SIR_SIN_220171223T183417_20171223T183540_C001 | SARIn X-track Angle Error | An ambiguous angle was detected for SARIn mode for one or more records |
| CS_OFFL_SIR_SIN_220171223T192241_20171223T192316_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_220171223T200401_20171223T200526_C001 | SARIn X-track Angle Error | An ambiguous angle was detected for SARIn mode for one or more records |
| CS_OFFL_SIR_SIN_220171223T201117_20171223T201121_C001 | SARIn X-track Angle Error | An ambiguous angle was detected for SARIn mode for one or more records |
| CS_OFFL_SIR_SIN_220171223T201319_20171223T201432_C001 | SARIn X-track Angle Error | An ambiguous angle was detected for SARIn mode for one or more records |
| CS_OFFL_SIR_SIN_220171223T214330_20171223T214456_C001 | SARIn X-track Angle Error | An ambiguous angle was detected for SARIn mode for one or more records |
| CS_OFFL_SIR_SIN_220171223T215009_20171223T215310_C001 | SARIn X-track Angle Error | An ambiguous angle was detected for SARIn mode for one or more records |
| CS_OFFL_SIR_SIN_220171223T232340_20171223T232643_C001 | SARIn X-track Angle Error | An ambiguous angle was detected for SARIn mode for one or more records |
| CS_OFFL_SIR_SIN_220171223T232911_20171223T233425_C001 | SARIn X-track Angle Error | An ambiguous angle was detected for SARIn mode for one or more records |
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6. QCC Report Analysis

The Quality Control for CryoSat (QCC) facility performs a primary survey of data products immediately after production by the PDS and LTA processing facilities. A list of the tests which raised errors or warnings is provided below.

| Product type | No. Products | No. QCC Reports | No. Valid | No. Warnings | No. Errors |
|--------------|--------------|-----------------|-----------|--------------|------------|
| SIR_LRM_1B | 167 | 167 | 167 | 0 | 0 |
| SIR_LRM_2 | 164 | 164 | 164 | 0 | 0 |
| SIR_LRMI2_ | 164 | 164 | 164 | 0 | 0 |
| SIR_SAR_1B | 119 | 119 | 119 | 0 | 0 |
| SIR_SAR_2 | 119 | 119 | 119 | 0 | 0 |
| SIR_SARI2_ | 119 | 119 | 119 | 0 | 0 |
| SIR SIN 1B | 100 | 100 | 100 | 0 | 0 |
| SIR_SIN_2 | 100 | 100 | 100 | 0 | 0 |
| SIR_SINI2 | 100 | 100 | 100 | 0 | 0 |
| SIR GDR 2 | 14 | 14 | 14 | 0 | 0 |

6.1 QCC Errors

Number of products with QCC errors:

0

6.2 QCC Warnings

Number of QCC reports with warnings

0

6.2 Missing QCC Reports

Number of products with missing QCC reports:

204