



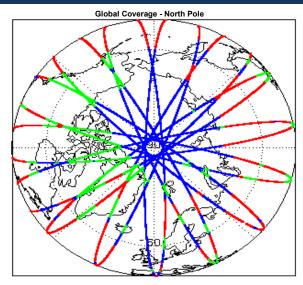
### 1. Overview

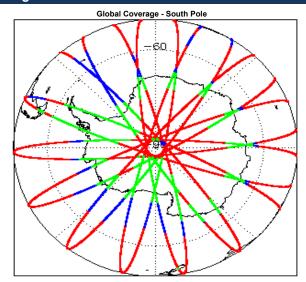
| Report Production Date: | 02-Mar-2018             |
|-------------------------|-------------------------|
| Processor Used:         | CryoSat Ice Processor   |
| Data Used:              | L1B and L2 OFFLINE Data |

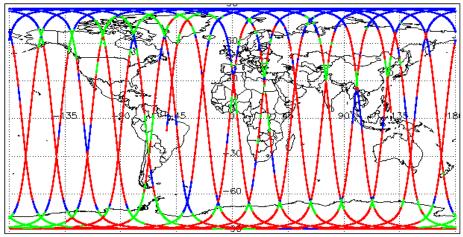
| Check                                      | Status                  |
|--|-------------------------|
| Server check: science-pds.cryosat.esa.int  | Nominal                 |
| Server check: calval-pds.cryosat.esa.int   | Nominal                 |
| Product Software Check                     | Nominal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

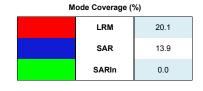
| Mission / Instrument News |                 |  |
|---------------------------|-----------------|--|
| 29-Jan-2018               | None            |  |
| 30-Jan-2018               | None            |  |
| 31-Jan-2018               | Nothing planned |  |

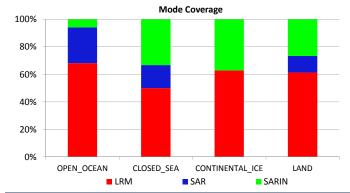
# 2. Global Coverage

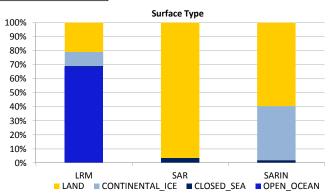












# 3. Instrument Configuration

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_20180130T134700_20180130T134702_C001 | Percentage of processing errors detected greater than minimum acceptable threshold. |
| CS_OFFL_SIR_SAR_1B_20180130T134707_20180130T134708_C001 | Percentage of processing errors detected greater than minimum acceptable threshold. |
| CS_OFFL_SIR_SAR_1B_20180130T102612_20180130T102614_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:

#### 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_220180130T102612_20180130T102614_C001 | Percentage of processing errors detected greater than minimum acceptable threshold. |
| CS_OFFL_SIR_SAR_220180130T134707_20180130T134708_C001 | Percentage of processing errors detected greater than minimum acceptable threshold. |
| CS_OFFL_SIR_SAR_220180130T134701_20180130T134702_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.

Number of products with errors:

109 Product **Test Failed** Description Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 for one or more CS\_OFFL\_SIR\_LRM\_2\_\_20180129T235757\_20180130T000719\_C001 Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 for one or more CS OFFL SIR LRM 2 20180130T003002 20180130T003152 C001 Error (Retracker 2) records Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 for one or more CS OFFL SIR LRM 2 20180130T003451 20180130T004642 C001 Error (Retracker 2) records CS\_OFFL\_SIR\_LRM\_2\_20180130T010955\_20180130T011301\_C001 Surface Model Unavailable No DEM or Slope Model was used for the location of one or more records Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 for one or more CS OFFL SIR LRM 2 20180130T011952 20180130T013459 C001 Error (Retracker 2) Height Error (Retracker 2), Height Error There is a height and backscatter error for Retracker 2 and a height error CS\_OFFL\_SIR\_LRM\_2\_\_20180130T021258\_20180130T024539\_C001 (Retracker 3), Backscatter Error for Retracker 3 for one or more records (Retracker 2) CS\_OFFL\_SIR\_LRM\_2\_\_20180130T024811\_20180130T025026\_C001 Surface Model Unavailable No DEM or Slope Model was used for the location of one or more records CS\_OFFL\_SIR\_LRM\_2\_\_20180130T025033\_20180130T025632\_C001 Surface Model Unavailable No DEM or Slope Model was used for the location of one or more records Height Error (Retracker 2), Height Error There is a height and backscatter error for Retracker 2 and a height error CS OFFL SIR LRM 2 20180130T025905 20180130T032456 C001 (Retracker 3), Backscatter Error for Retracker 3 for one or more records (Retracker 2) Height Error (Retracker 2), Height Error There is a height and backscatter error for Retracker 2 and a height error CS\_OFFL\_SIR\_LRM\_2\_20180130T033412\_20180130T033454\_C001 (Retracker 3), Backscatter Error for Retracker 3 for one or more records (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 2 20180130T035750 20180130T040722 C001 Error (Retracker 2) records Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 for one or more CS OFFL SIR LRM 2 20180130T041256 20180130T042348 C001 Error (Retracker 2) records Height Error (Retracker 2), Height Error There is a height and backscatter error for Retracker 2 and a height error CS OFFL SIR LRM 2 20180130T043757 20180130T050414 C001 (Retracker 3), Backscatter Error for Retracker 3 for one or more records (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 2 20180130T051531 20180130T051608 C001 Error (Retracker 2) records Height Error (Retracker 2), Height Error There is a height and backscatter error for Retracker 2 and a height error CS OFFL SIR LRM 2 20180130T053035 20180130T054635 C001 (Retracker 3), Backscatter Error for Retracker 3 for one or more records (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\_2\_\_20180130T054902\_20180130T060305\_C001 Error (Retracker 2) records Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 for one or more CS OFFL SIR LRM 2 20180130T065411 20180130T065523 C001 Error (Retracker 2) Height Error (Retracker 2), Height Error There is a height and backscatter error for Retracker 2 and a height error CS OFFL SIR LRM 2 20180130T070844 20180130T074257 C001 (Retracker 3), Backscatter Error for Retracker 3 for one or more records (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 2 20180130T075544 20180130T081524 C001 Error (Retracker 2) records Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 for one or more CS\_OFFL\_SIR\_LRM\_2\_\_20180130T084708\_20180130T092059\_C001 Error (Retracker 2) CS OFFL SIR LRM 2 20180130T092842 20180130T093254 C001 Surface Model Unavailable No DEM or Slope Model was used for the location of one or more records Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 for one or more CS\_OFFL\_SIR\_LRM\_2\_\_20180130T093625\_20180130T100322\_C001 Error (Retracker 2) records Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 for one or more CS\_OFFL\_SIR\_LRM\_2\_20180130T100345\_20180130T101116\_C001 Error (Retracker 2) records Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 for one or more CS OFFL SIR LRM 2 20180130T102749 20180130T103813 C001 Error (Retracker 2) records Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 for one or more CS\_OFFL\_SIR\_LRM\_2\_20180130T104253\_20180130T104431\_C001 Error (Retracker 2) records Height Error (Retracker 2), Height Error There is a height and backscatter error for Retracker 2 and a height error CS OFFL SIR LRM 2 20180130T104456 20180130T110035 C001 (Retracker 3), Backscatter Error for Retracker 3 for one or more records (Retracker 2) Height Error (Retracker 2), Height Error There is a height and backscatter error for Retracker 2 and a height error CS OFFL SIR LRM 2 20180130T111847 20180130T113108 C001 (Retracker 3), Backscatter Error for Retracker 3 for one or more records (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 2 20180130T113308 20180130T114628 C001 Error (Retracker 2) records 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\_20180130T121243\_20180130T122214\_C001 (Retracker 3), Backscatter Erro (Retracker 2) Height Error (Retracker 2), Height Error There is a height and backscatter error for Retracker 2 and a height error CS\_OFFL\_SIR\_LRM\_2\_\_20180130T122416\_20180130T123929\_C001 (Retracker 3), Backscatter Error for Retracker 3 for one or more records (Retracker 2) Height Error (Retracker 2), Height Error There is a height and backscatter error for Retracker 2 and a height error CS\_OFFL\_SIR\_LRM\_2\_\_20180130T131407\_20180130T132533\_C001 (Retracker 3), Backscatter Error for Retracker 3 for one or more records (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 2 20180130T140221 20180130T141839 C001 Error (Retracker 2) CS\_OFFL\_SIR\_LRM\_2\_\_20180130T142623\_20180130T142751\_C001 Surface Model Unavailable No DEM or Slope Model was used for the location of one or more records Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 for one or more CS OFFL SIR LRM 2 20180130T143214 20180130T145554 C001 Error (Retracker 2) records Height Error (Retracker 2), Height Error There is a height and backscatter error for Retracker 2 and a height error CS OFFL SIR LRM 2 20180130T145616 20180130T150653 C001 (Retracker 3), Backscatter Error for Retracker 3 for one or more records (Retracker 2) Height Error (Retracker 2), Height Error There is a height and backscatter error for Retracker 2 and a height error CS OFFL SIR LRM 2 20180130T153158 20180130T155818 C001 (Retracker 3), Backscatter Error for Retracker 3 for one or more records Retracker 2) CS\_OFFL\_SIR\_LRM\_2\_\_20180130T160521\_20180130T160846\_C001 Surface Model Unavailable No DEM or Slope Model was used for the location of one or more records Height Error (Retracker 2) Backscatter There is a height and backscatter error for Retracker 2 for one or more CS\_OFFL\_SIR\_LRM\_2\_20180130T161113\_20180130T162314\_C001 Error (Retracker 2) records Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 for one or more CS OFFL SIR LRM 2 20180130T162848 20180130T163843 C001 Error (Retracker 2) records Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 for one or more CS\_OFFL\_SIR\_LRM\_2\_20180130T163957\_20180130T164337\_C001 Error (Retracker 2) records Height Error (Retracker 2), Height Error There is a height and backscatter error for Retracker 2 and a height error CS\_OFFL\_SIR\_LRM\_2\_\_20180130T170959\_20180130T173756\_C001 (Retracker 3), Backscatter Error for Retracker 3 for one or more records (Retracker 2) CS\_OFFL\_SIR\_LRM\_2\_\_20180130T174419\_20180130T174751\_C001 Surface Model Unavailable No DEM or Slope Model was used for the location of one or more records Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 for one or more CS OFFL SIR LRM\_2\_20180130T175143\_20180130T182535\_C001 Error (Retracker 2)

| CS OFFL SIR LRM 2 20180130T183832 20180130T184026 C001 | Height Error (Retracker 2), Backscatter   | There is a height and backscatter error for Retracker 2 for one or more   |
|--|---|---|
|  | Error (Retracker 2)   | records   |
| CS_OFFL_SIR_LRM_220180130T191920_20180130T192442_C001  | Surface Model Unavailable  Height Error (Retracker 2), Backscatter                      | No DEM or Slope Model was used for the location of one or more records  There is a height and backscatter error for Retracker 2 for one or more |
| CS_OFFL_SIR_LRM_220180130T193027_20180130T195248_C001  | Error (Retracker 2) Height Error (Retracker 2), Height Error                            | records   |
| CS_OFFL_SIR_LRM_220180130T195534_20180130T200454_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_220180130T201715_20180130T202056_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_220180130T202814_20180130T203333_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_220180130T203655_20180130T204144_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_220180130T204332_20180130T205648_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_220180130T205923_20180130T210341_C001  | Surface Model Unavailable   | No DEM or Slope Model was used for the location of one or more records  |
| CS_OFFL_SIR_LRM_220180130T210955_20180130T211550_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_220180130T211559_20180130T214152_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_220180130T220140_20180130T223120_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_220180130T224920_20180130T230707_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_220180130T231147_20180130T231854_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_220180130T234018_20180130T235552_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_SIN_220180130T002417_20180130T002529_C001  | SARIn X-track Angle Error   | An ambiguous angle was detected for SARIn mode for one or more records  |
| CS_OFFL_SIR_SIN_220180130T002700_20180130T002924_C001  | SARIn X-track Angle Error   | An ambiguous angle was detected for SARIn mode for one or more records  |
| CS_OFFL_SIR_SIN_2_20180130T010606_20180130T010955_C001 | SARIn X-track Angle Error   | An ambiguous angle was detected for SARIn mode for one or more records  |
| CS_OFFL_SIR_SIN_220180130T011738_20180130T011923_C001  | SARIn X-track Angle Error   | An ambiguous angle was detected for SARIn mode for one or more records  |
| CS_OFFL_SIR_SIN_2_20180130T020338_20180130T020601_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_220180130T020618_20180130T020802_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_2_20180130T024620_20180130T024811_C001 | SARIn X-track Angle Error   | An ambiguous angle was detected for SARIn mode for one or more records  |
| CS_OFFL_SIR_SIN_2_20180130T025027_20180130T025033_C001 | SARIn X-track Angle Error   | An ambiguous angle was detected for SARIn mode for one or more records  |
| CS_OFFL_SIR_SIN_220180130T025633_20180130T025844_C001  | SARIn X-track Angle Error   | An ambiguous angle was detected for SARIn mode for one or more records  |
| CS_OFFL_SIR_SIN_220180130T033715_20180130T033732_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_220180130T033833_20180130T033902_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_220180130T042557_20180130T042735_C001  | SARIn X-track Angle Error   | An ambiguous angle was detected for SARIn mode for one or more records  |
| CS_OFFL_SIR_SIN_2_20180130T042854_20180130T043022_C001 | SARIn X-track Angle Error   | An ambiguous angle was detected for SARIn mode for one or more records  |
| CS_OFFL_SIR_SIN_220180130T043438_20180130T043731_C001  | SARIn X-track Angle Error   | An ambiguous angle was detected for SARIn mode for one or more records  |
| CS_OFFL_SIR_SIN_220180130T060551_20180130T060932_C001  | SARIn X-track Angle Error   | An ambiguous angle was detected for SARIn mode for one or more records  |
| CS_OFFL_SIR_SIN_220180130T061513_20180130T061627_C001  | SARIn X-track Angle Error   | An ambiguous angle was detected for SARIn mode for one or more records  |
| CS_OFFL_SIR_SIN_220180130T065602_20180130T065654_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_220180130T074519_20180130T074836_C001  | SARIn X-track Angle Error   | An ambiguous angle was detected for SARIn mode for one or more records  |
| CS_OFFL_SIR_SIN_220180130T075348_20180130T075514_C001  | SARIn X-track Angle Error   | An ambiguous angle was detected for SARIn mode for one or more records  |
| CS_OFFL_SIR_SIN_220180130T092233_20180130T092622_C001  | SARIn X-track Angle Error   | An ambiguous angle was detected for SARIn mode for one or more records  |
| CS_OFFL_SIR_SIN_220180130T093254_20180130T093401_C001  | SARIn X-track Angle Error   | An ambiguous angle was detected for SARIn mode for one or more records  |
| CS_OFFL_SIR_SIN_220180130T101152_20180130T101337_C001  | SARIn X-track Angle Error   | An ambiguous angle was detected for SARIn mode for one or more records  |
| CS_OFFL_SIR_SIN_220180130T101513_20180130T101628_C001  | SARIn X-track Angle Error   | An ambiguous angle was detected for SARIn mode for one or more records  |
| CS_OFFL_SIR_SIN_220180130T110040_20180130T110215_C001  | SARIn X-track Angle Error   | An ambiguous angle was detected for SARIn mode for one or more records  |
| CS_OFFL_SIR_SIN_220180130T110959_20180130T111144_C001  | SARIn X-track Angle Error   | An ambiguous angle was detected for SARIn mode for one or more records  |
| CS_OFFL_SIR_SIN_220180130T115032_20180130T115542_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_220180130T123955_20180130T124140_C001  | SARIn X-track Angle Error   | An ambiguous angle was detected for SARIn mode for one or more records  |
| CS_OFFL_SIR_SIN_220180130T124703_20180130T124709_C001  | SARIn X-track Angle Error   | An ambiguous angle was detected for SARIn mode for one or more records  |
| CS_OFFL_SIR_SIN_220180130T124826_20180130T125438_C001  | SARIn X-track Angle Error   | An ambiguous angle was detected for SARIn mode for one or more records  |
| CS_OFFL_SIR_SIN_220180130T133025_20180130T133427_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_220180130T141907_20180130T142124_C001  | SARIn X-track Angle Error   | An ambiguous angle was detected for SARIn mode for one or more records  |
| CS_OFFL_SIR_SIN_220180130T142602_20180130T142608_C001  | SARIn X-track Angle Error   | An ambiguous angle was detected for SARIn mode for one or more records  |
| CS_OFFL_SIR_SIN_220180130T142617_20180130T142623_C001  | SARIn X-track Angle Error   | An ambiguous angle was detected for SARIn mode for one or more records  |
| CS_OFFL_SIR_SIN_220180130T142752_20180130T143107_C001  | SARIn X-track Angle Error   | An ambiguous angle was detected for SARIn mode for one or more records  |
| CS_OFFL_SIR_SIN_220180130T155842_20180130T155958_C001  | SARIn X-track Angle Error   | An ambiguous angle was detected for SARIn mode for one or more records  |
|  |   |   |

| CS_OFFL_SIR_SIN_2_20180130T160502_20180130T160505_C001 | SARIn X-track Angle Error                               | An ambiguous angle was detected for SARIn mode for one or more records                                    |
|--|---|---|
| CS_OFFL_SIR_SIN_220180130T160846_20180130T161002_C001  | SARIn X-track Angle Error                               | An ambiguous angle was detected for SARIn mode for one or more records                                    |
| CS_OFFL_SIR_SIN_220180130T165843_20180130T165918_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_220180130T173813_20180130T173937_C001  | SARIn X-track Angle Error                               | An ambiguous angle was detected for SARIn mode for one or more records                                    |
| CS_OFFL_SIR_SIN_220180130T174416_20180130T174419_C001  | SARIn X-track Angle Error                               | An ambiguous angle was detected for SARIn mode for one or more records                                    |
| CS_OFFL_SIR_SIN_220180130T174751_20180130T174908_C001  | SARIn X-track Angle Error                               | An ambiguous angle was detected for SARIn mode for one or more records                                    |
| CS_OFFL_SIR_SIN_220180130T191754_20180130T191920_C001  | SARIn X-track Angle Error                               | An ambiguous angle was detected for SARIn mode for one or more records                                    |
| CS_OFFL_SIR_SIN_220180130T192442_20180130T192750_C001  | SARIn X-track Angle Error                               | An ambiguous angle was detected for SARIn mode for one or more records                                    |
| CS_OFFL_SIR_SIN_220180130T201607_20180130T201642_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_220180130T205736_20180130T205923_C001  | SARIn X-track Angle Error                               | An ambiguous angle was detected for SARIn mode for one or more records                                    |
| CS_OFFL_SIR_SIN_220180130T210341_20180130T210710_C001  | SARIn X-track Angle Error                               | An ambiguous angle was detected for SARIn mode for one or more records                                    |
| CS_OFFL_SIR_SIN_220180130T223818_20180130T224053_C001  | SARIn X-track Angle Error                               | An ambiguous angle was detected for SARIn mode for one or more records                                    |
| CS_OFFL_SIR_SIN_220180130T224246_20180130T224556_C001  | SARIn X-track Angle Error                               | An ambiguous angle was detected for SARIn mode for one or more records                                    |
| CS_OFFL_SIR_SIN_220180130T224713_20180130T224912_C001  | SARIn X-track Angle Error                               | An ambiguous angle was detected for SARIn mode for one or more records                                    |
| CS_OFFL_SIR_SIN_220180130T233326_20180130T233447_C001  | SARIn X-track Angle Error                               | An ambiguous angle was detected for SARIn mode for one or more records                                    |
| CS_OFFL_SIR_SIN_220180130T233808_20180130T234018_C001  | SARIn X-track Angle Error                               | An ambiguous angle was detected for SARIn mode for one or more records                                    |

# 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   | 165          | 165             | 165       | 0            | 0          |
| SIR_LRM_2    | 164          | 164             | 164       | 0            | 0          |
| SIR_LRMI2_   | 164          | 164             | 164       | 0            | 0          |
| SIR_SAR_1B   | 118          | 118             | 118       | 0            | 0          |
| SIR_SAR_2    | 118          | 118             | 118       | 0            | 0          |
| SIR_SARI2_   | 118          | 118             | 118       | 0            | 0          |
| SIR_SIN_1B   | 108          | 108             | 108       | 0            | 0          |
| SIR_SIN_2    | 108          | 108             | 108       | 0            | 0          |
| SIR_SINI2    | 108          | 108             | 108       | 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:

188